CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

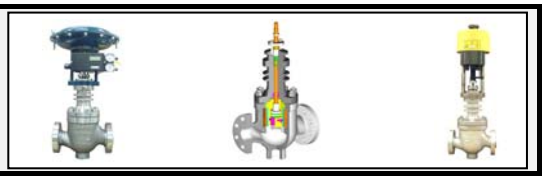
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SECTION 1 – CONTROL VALVE SIZING General Information

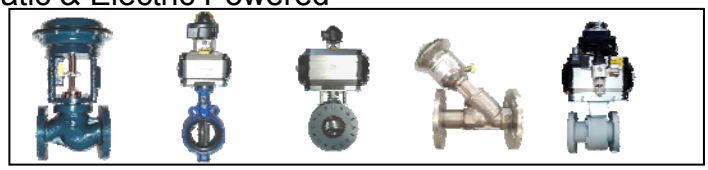
SECTION 2 – UNIWORLD SERIES
Pneumatic Control Valves
Electric Powered Control Valves



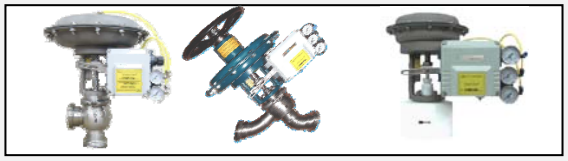
SECTION 3 – HP60 SERIES
Pneumatic & Electric Powered Valves
Control & On-Off
600 class



SECTION 4 – ON-OFF VALVES Pneumatic & Electric Powered
Globe Body
Butterfly Body
Ball Body
Free Flow Body



SECTION 5 – HYGIENIC & PTFE SERIES
Pneumatic Control Valves
On-Off Valves



SECTION 6 – ACCESSORIES FOR PNEUMATIC VALVES
Pilot Positioners
Converters
Air Filter Regulator & acc.



SECTION 7 – PRESSURE REDUCING VALVES
Screwed & Flanged



SECTION 8 – PROCESS INSTRUMENTATION
Digital Controllers
Pneumatic Controllers



SECTION 9 – GREEN line PRODUCTS
Integrated SKID Solutions
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Corrugated Tubes Heat Exchangers
Condensate Separators



SECTION 10 – COMPONENTS FOR INDUSTRIAL PLANTS



SECTION 11 – DEVICES FOR SAFETY APPLICATIONS
Safety Valves
Pressure & Temperature Limiters



Dimensionamento delle Valvole di Regolazione
Control Valve Sizing

spec. 100/VP Parte I°	
100/VP/I/E	
03	2014

Dimensionamento delle valvole in CV.
Il CV, unità americane (CV=Portata in GPM con 1 psi di pressione differenziale) serve per determinare il diametro nominale delle valvole in base alle condizioni effettive di esercizio del fluido usando le formule sotto indicate.
Una volta calcolato il CV in base al tipo di otturatore scelto, si determina il diametro della valvola consultando le tabelle presenti nei prospetti tecnici di ogni serie, in modo che il CV calcolato con le formule sia circa l' 80 % del CV di tabella (CVs) per le valvole di regolazione e circa il 90 % per le valvole ON-OFF.
Per ottenere una soddisfacente regolazione ed evitare pendolamenti, non sovradimensionare la valvola e, in ogni caso, verificare che la velocità del fluido sia mantenuta entro limiti accettabili. **La CONFLOW dispone anche del sistema di calcolo da elaborare su P/C in grado di sviluppare il dimensionamento della valvola relazionandolo alla scelta del tipo e di calcolare il livello di rumorosità della stessa. CONFLOW è inoltre membro CONVAL® "programma di calcolo" riconosciuto a livello mondiale.**
Il CV viene convertito in KV (unità metriche in m³/h con 1 bar di pressione differenziale) per mezzo dei fattori indicati a pag.2.

Valve sizing calculation CV.
CV is the theoretical flow in GPM a valve will pass with a 1 psi differential between the inlet and outlet port at a known position of plug travel usually at 100 % open.
To determine the valve size the flowrate coefficient CV must be calculated using one of the following formulae according to the conditions that the valve will be working under. Once this has been determined, select the correct size of valve from the relevant data sheet according to the CV. In practise the calculated CV should be approximately 80 % of the CV (CVs) for control valves and 90 % for ON-OFF valves, listed in the data sheet for the valve required.
To obtain a satisfactory control and avoid hunting, do not oversize the valve and, in any case, verify that fluid velocity is kept within acceptable limits. **CONFLOW has also availble the pneumatic valve sizing program by P/C suitable to obtain the right selection of the valve and the sound pressure level calculation. CONFLOW is also member of CONVAL® "sizing program" recognized worldwide.**
CV is converted in KV (metric unit flowrate in m³/h with 1 bar of differential pressure) by the factors indicated on page 2.

VAPORE

1° caso :
Quando la pressione assoluta a valle é superiore al 50% della pressione assoluta di ingresso

Q =	portata	**kg/h**	$CV = \frac{Q}{16\sqrt{\Delta p \cdot P}}$	**Q =**	flow rate	**kg/h**
Δp =	differenza di pressione tra monte e valle	**kg/cm²**		**Δp =**	differential pressure	**kg/cm²**
P =	pressione assoluta vapore in ingresso	**kg/cm²**		**P =**	absolute inlet pressure	**kg/cm²**

2° caso :
Quando la pressione assoluta a valle é uguale o inferiore al 50% della pressione assoluta di ingresso. Flusso critico

Q =	portata	**kg/h**	$CV = \frac{Q}{10 \cdot P}$	**Q =**	flow rate	**kg/h**
Δp =	differenza di pressione tra monte e valle	**kg/cm²**		**Δp =**	differential pressure	**kg/cm²**
P =	pressione assoluta vapore in ingresso	**kg/cm²**		**P =**	absolute inlet pressure	**kg/cm²**

Fattori di correzione " f " per vapore surriscaldato

In caso di vapore surriscaldato, moltiplicare i CV calcolati per i seguenti fattori di correzione "f " che sono in base alla temperatura di surriscaldamento.

Note : Per temperatura di surriscaldamento si intende la differenza (in °C) tra la temperatura del vapore surriscaldato all'ingresso della valvola e quella del vapore saturo alla corrispondente pressione di ingresso.

°C	" f "
25	1,03
50	1,06
100	1,12
150	1,18
200	1,24
250	1,30
300	1,36
350	1,42

STEAM

1st case :
Where the absolute outlet pressure is greater than 50 % of absolute inlet pressure

2nd case :
Where the absolute outlet pressure is equal or less than 50 % of absolute inlet pressure. Critical Flow

Correction factors for superheated steam " f "

Where superheat is present, multiply calculated CV values by the following correction factors " f ".

Note : The superheat temperature is the difference (in °C) between the steam temperature at the valve inlet and that quoted in the steam tables for the particular pressure.

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Fax 039/654.018
www.conflow.it

LIQUIDI

Q =	portata	**m³/h**
d =	Peso specifico (acqua = 1 altri vedi tabella parte II°)	**kg/dm³**
Δp =	differenza di pressione tra monte e valle	**kg/cm²**

$$CV = 1{,}17 \cdot Q \cdot \sqrt{\frac{d}{\triangle p}}$$

Fattori di correzione " fl " per liquidi viscosi

In caso di liquidi viscosi, moltiplicare i CV calcolati per i seguenti fattori di correzione " fl " che sono in base alla viscosità espressa in gradi Engler " °E ". Se la viscosità è espressa in Centipoises o Centistokes, occorre eseguire l'equivalenza in gradi Engler.

Note : porre attenzione durante il dimensionamento delle valvole quando la temperatura del liquido è vicina alla sua temperatura di saturazione.

°E	" fl "
2	1,06
5	1,18
10	1,28
15	1,32
30	1,38
50	1,47
100	1,60
150	1,68

LIQUIDS

Q =	flow rate	**m³/h**
d =	Density (water = 1 see table part II°)	**kg/dm³**
Δp =	differential pressure	**kg/cm²**

Correction factors for viscous liquids " fl "

For viscous liquids, multiply calculated CV values by the following correction factors (f) which are based on the viscosity expressed in degrees Engler " °E ". If the viscosity is expressed in Centipoises or Centistokes, you must perform the equivalence in Engler degrees.

Note : caution must be taken when sizing control valves where the liquid temperature is close to its saturation temperature.

GAS

1° caso :

Quando la pressione assoluta a valle é superiore al 50% della pressione assoluta di ingresso

Q =	portata	**Nm³/h**
P1 =	pressione assoluta gas in ingresso	**kg/cm²**
P2 =	pressione assoluta gas in uscita	**kg/cm²**
Δp =	differenza di pressione tra monte e valle	**kg/cm²**
d =	peso specifico gas relativo all'aria(vedi tabella parte II°)	**kg/Nm³**
T =	temperatura assoluta (t+273)	**°C**

$$CV = \frac{Q}{380} \sqrt{\frac{d \cdot T}{\triangle p \cdot P2}}$$

2° caso :

Quando la pressione assoluta a valle é uguale o inferiore al 50% della pressione assoluta di ingresso. Flusso critico

Q =	portata	**Nm³/h**
P1 =	pressione assoluta gas in ingresso	**kg/cm²**
P2 =	pressione assoluta gas in uscita	**kg/cm²**
Δp =	differenza di pressione tra monte e valle	**kg/cm²**
d =	peso specifico gas relativo all'aria(vedi tabella parte II°)	**kg/Nm³**
T =	temperatura assoluta (t+273)	**°C**

$$CV = \frac{Q}{205 \cdot P1} \sqrt{d \cdot T}$$

GAS

1st case :

Where the absolute outlet pressure is greater than 50 % of absolute inlet pressure

Q =	flow rate	**Nm³/h**
P1 =	Absolute inlet pressure	**kg/cm²**
P2 =	Absolute outlet pressure	**kg/cm²**
Δp =	differential pressure	**kg/cm²**
d =	Density of gas relative to air (see table part II°)	**kg/Nm³**
T =	absolute temperature (t+273)	**°C**

2nd case :

Where the absolute outlet pressure is equal or less than 50 % of absolute inlet pressure. Crtical Flow

Q =	flow rate	**Nm³/h**
P1 =	Absolute inlet pressure	**kg/cm²**
P2 =	Absolute outlet pressure	**kg/cm²**
Δp =	differential pressure	**kg/cm²**
d =	Density of gas relative to air (see table part II°)	**kg/Nm³**
T =	absolute temperature (t+273)	**°C**

FATTORI DI CONVERSIONE

$$\text{U.S. } \mathbf{CV} \text{ (US gpm)} = \frac{\text{Kv (m³/h)}}{0{,}853}$$

CONVERSION FACTORS

$$\mathbf{Kv} \text{ (m³/h)} = 0{,}853 \cdot \text{U.S. CV (US gpm)}$$

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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Dati Tecnici per il Dimensionamento
Technical data for Sizing

spec. 100/VP Parte II°	
100/VP/I/E	
03	2014

Curve di Portata - Caratteristiche Otturatori

Le differenti caratteristiche di controllo dei tre principali tipi di otturatori mostra come la portata varia in funzione della corsa della valvola. Il tipo di otturatore utilizzato definisce la caratteristica di controllo come indicato qui in seguito:

PL - LV	**Lineare -** Linear
Proporzione lineare tra portata e corsa valvola	Linear relationship between flow rate and valve stroke
EQP - EQV	**Equipercentuale –** Equipercentage
Ad uguali incrementi della corsa corrisponde un aumento in percentuale al valore precedente.	Equal increments in valve stroke produces increments of flow rate in percentage to the previous value
PT - VPT	**ON/OFF –** Quick Opening
Raggiungimento della portata massima nei primi millimetri di corsa	Change of flow rate takes place almost exclusively over the first 40 % of valve stroke

Flow Curve – Trim Characteristics

The different control characteristics of the three main plug types show how flow rate changes according to valve stroke. The type of valve plug fitted establish the control characteristics of the valve and this may be one of the following :

Nella sezione relativa alle valvole UNIWORLD sono disponibili i grafici di tutti i Ø.
All diameters are avaiable into UNIWORLD section.

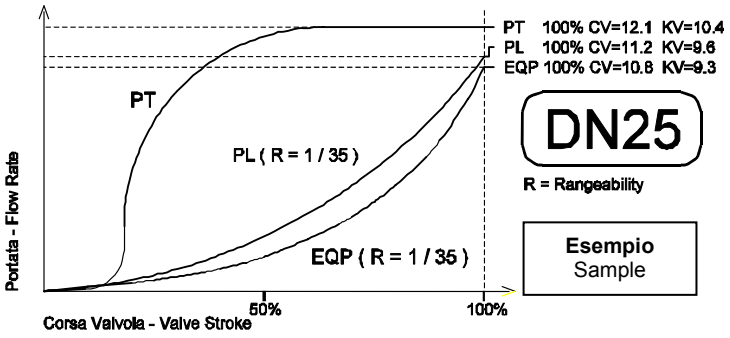


Tabella Vapore Saturo - Saturated Steam Table

Pr	Pressione relativa – gauge pressure	**Esen**	Entalpia specifica liquido (calore sensibile liquido) – specific enthalpy of liquid
Pa	Pressione assoluta – absolute pressure	**Elat**	Entalpia specifica di vaporizzazione (calore latente) - specific enthalpy of vap.
T	Temperatura - temperature	**Etot**	Entalpia specifica del vapore saturo (calore totale) - specific enthalpy of saturated steam
V	Volume specifico – specific volume		

Pr		**Pa**		**T**		**V**	**Esen**		**Elat**		**Etot**	
bar	kg/cm²	bar	kg/cm²	°C	°K	m³/kg	kJ/kg	kcal/kg	kJ/kg	kcal/kg	kJ/kg	kcal/kg
0	0	1,013	1,033	**100,0**	373,2	1,673	419,1	100,1	2258	539,4	2678	639,5
0,10	0,102	1,113	1,135	**102,6**	375,75	1,533	430,4	102,8	2251,2	537,7	2681,6	640,5
0,20	0,204	1,213	1,237	**106,2**	379,35	1,414	440,9	105,3	2245,0	536,2	2685,8	641,5
0,30	0,306	1,313	1,339	**107,4**	380,55	1,312	450,5	107,6	2238,7	534,7	2689,2	642,3
0,40	0,408	1,413	1,441	**109,5**	382,65	1,225	459,7	109,8	2232,8	533,3	2692,5	643,1
0,50	0,510	1,513	1,543	**111,6**	384,75	1,149	468,5	111,9	2227,0	531,9	2695,5	643,8
0,60	0,612	1,613	1,645	**113,5**	386,65	1,038	476,5	113,8	2221,5	530,6	2698,0	644,4
0,80	0,816	1,813	1,849	**117,1**	390,25	0,971	491,9	117,5	2211,9	528,3	2703,8	645,8
1,00	1,020	2,013	2,053	**120,4**	393,55	0,881	505,8	120,8	2202,3	526,0	2708,0	646,8
1,20	1,224	2,213	2,257	**123,4**	396,55	0,806	519,2	124,0	2194,3	524,1	2713,5	648,1
1,40	1,428	2,413	2,461	**126,3**	399,45	0,743	530,9	126,8	2186,3	522,2	2717,2	649,0
1,60	1,632	2,613	2,664	**128,9**	402,05	0,689	542,2	129,5	2178,8	520,4	2721,0	649,9
1,80	1,835	2,813	2,868	**131,4**	404,55	0,643	552,7	132,0	2171,3	518,6	2723,9	650,6
2,00	2,039	3,013	3,072	**133,7**	406,85	0,603	562,7	134,4	2164,6	517,0	2727,3	651,4
3,00	3,059	4,013	4,092	**143,7**	416,85	0,461	605,8	144,7	2134,8	509,9	2740,7	654,6
4,00	4,079	5,013	5,112	**152,0**	425,15	0,374	641,0	153,1	2109,3	503,8	2750,3	656,9
5,00	5,099	6,013	6,131	**158,9**	432,05	0,315	671,1	160,3	2087,1	498,5	2758,3	658,8
6,00	6,118	7,013	7,151	**165,0**	438,15	0,272	697,9	166,7	2067,4	493,8	2765,4	660,5
7,00	7,138	8,013	8,171	**170,5**	443,65	0,240	721,8	172,4	2049,0	489,4	2770,8	661,8
8,00	8,158	9,013	9,191	**175,4**	448,55	0,215	743,6	177,6	2032,3	485,4	2775,8	663,0
10,00	10,197	11,013	11,230	**184,1**	457,25	0,177	782,1	186,8	2001,3	478,0	2783,4	664,8
12,00	12,236	13,013	13,269	**191,7**	464,85	0,151	815,6	194,8	1973,7	471,4	2789,2	666,2
14,00	14,276	15,013	15,309	**198,3**	471,45	0,132	845,7	202,0	1948,1	465,3	2793,9	667,3
16,00	16,315	17,013	17,348	**204,4**	477,55	0,117	872,9	208,5	1924,7	459,7	2797,6	668,2
18,00	18,355	19,013	19,388	**209,9**	483,05	0,105	897,6	214,4	1902,5	454,4	2800,1	668,8
20,00	20,394	21,013	21,427	**215,0**	488,15	0,095	921,1	220,0	1881,5	449,4	2802,6	669,4
25,00	25,493	26,013	26,525	**226,1**	499,25	0,077	972,6	232,3	1832,6	437,7	2805,2	670,0
30,00	30,591	31,013	31,624	**235,7**	508,85	0,0645	1017,1	242,9	1786,2	426,5	2803,3	669,4
35,00	35,690	36,013	36,722	**244,2**	517,35	0,0555	1057,4	252,5	1744,8	416,6	2802,2	669,1
40,00	40,788	41,013	41,821	**252,0**	525,05	0,0485	1094,4	261,3	1705,6	407,3	2800,0	668,6
45,00	45,886	46,013	46,919	**259,0**	532,00	0,0431	1128,6	269,1	1668,3	398,3	2796,9	667,9
50,00	50,985	51,013	52,018	**265,2**	538,35	0,0386	1160,5	277,1	1632,3	389,8	2792,8	666,9

La CONFLOW è membro e licenziataria di un programma di calcolo internazionale CONVAL ®, con un database di oltre 1000 sostanze. E' possibile inoltre realizzare speciali librerie per comporre :

- **GAS NATURALE AGA 8 - Calcolo del gas naturale in funzione della pressione e temperatura secondo AGA 8-1992, il calcolo è limitato alla fase gassosa.**
- **MISCELA DI GAS - Miscela arbitraria di gas, da definire.**
- **MISCELA DI LIQUIDI - Miscela arbitraria di liquidi, da definire.**

The CONFLOW is a member and licensee of a program for calculating international Approve company CONVAL ®, with a database of over 1000 substances. It's also possible to create special libraries to dial:

- NATURAL GAS AGA 8 – Calculation of natural gas as a function of pressure and temperature according to AGA 8-1992, the calculation is limited to the gaseous phase.
- MIXTURE GAS – Mixtures of arbitrary gases, can be defined.
- MIXTURE LIQUIDI – Mixture of arbitrary liquids, can be defined.

Qui di seguito due tabelle dei principali gas e liquidi da usare per il calcolo manuale.
Below, two tables of the main gases and liquids to be used for manual calculation.

GAS SECCO (condizioni standard) – Gases, dry (standard conditions)

Denominazione	Name	Formula	Temperatura (t1) Temperature (t1) °C	Peso Specifico Density (t1) Kg/Nm3
ARIA	Air	-	20	1,293
AZOTO	Nitrogen	N2	20	1,2504
ETILENE	Ethylene	C2H4	20	1,261
IDROGENO	Hydrogen	H2	20	0,08993
METANO	Methane	CH4	20	0,71747
OSSIGENO	Oxygen	CO2	20	1,4291
OZONO	Ozone	O3	20	2,1414

LIQUIDO – Liquid

Denominazione	Name	Formula	Temperatura (t1) Temperature (t1) °C	Peso Specifico Density (t1) Kg/dm3
ACQUA	Water	H20	20	1,0
ACETONE	Acetone	C3H6O	20	0,79021
ACIDO ACETICO	Acetic Acid	C2H4O2	20	1,05
ACIDO NITRICO	Nitric Acid	HNO3	20	1,6056
ALCOOL ETILICO	Ethil Alcohol	C2H6O	20	0,72826
ALCOOL GLICOLICO	Glycol Alcohol	C2H6O2	20	0,91025
AMMONIACA	Ammonia	NH3	20	0,63668
BENZENE	Benzene	C6H6	20	0,88528
CLOROFORMIO	Chloroform	CHCl3	20	1,5605
ETANOLO	Ethanol	C2H6O	20	0,72826
GLICOLE ETILENICO	Ethylene Glycol	C2H6O2	20	0,91025
GLICERINA	Glycerin	C3H8O3	20	1,2612
METANOLO	Methanol	CH4O	20	0,75416
OLIO WT 15	Oil WT15	-	20	0,88
OLIO DIATERMICO (ESSOTHERM 500)	Thermoil (ESSOTHERM 500)	-	100	0,806
			200	0,7401
			300	0,6741
SODA CAUSTICA 10%	Caustic Soda 10%	NaOH/H20	20	1,1081

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GRUPPO CORPO – Body Group

GHISA – Cast Iron EN-GJ-L250

	MINIMA e MASSIMA TEMPERATURA DI ESERCIZIO (°C) Minimum and Maximum Operating Temperature (°C)				
	- 5	120	150	180	200
Class	MASSIMA PRESSIONE DI ESERCIZIO (barg) Maximum Operating Pressure (barg)				
PN 16	16	16	14,4	13,4	13

GHISA SFEROIDALE– Ductil Iron EN-GJS400-18

	MINIMA e MASSIMA TEMPERATURA DI ESERCIZIO (°C) Minimum and Maximum Operating Temperature (°C)						
	-20	120	150	200	250	300	350
Class	MASSIMA PRESSIONE DI ESERCIZIO (barg) Maximum Operating Pressure (barg)						
PN 16	16	16	15,5	14,7	13,9	12,8	11,2

ACCIAIO CARBONIO – Carbon Steel 1.0619

	MINIMA e MASSIMA TEMPERATURA DI ESERCIZIO (°C) Minimum and Maximum Operating Temperature (°C)							
	-20	100	150	200	250	300	350	400
Class	MASSIMA PRESSIONE DI ESERCIZIO (barg) Maximum Operating Pressure (barg)							
PN 40	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8

ACCIAIO INOX – Stainless Steel 1.4408 (AISI 316)

	MINIMA e MASSIMA TEMPERATURA DI ESERCIZIO (°C) Minimum and Maximum Operating Temperature (°C)							
	-196	100	150	200	250	300	350	425
Class	MASSIMA PRESSIONE DI ESERCIZIO (barg) Maximum Operating Pressure (barg)							
PN 40	40	37,9	34,4	31,8	29,9	27,6	26,4	18,5
ANSI 150	20	16,2	14,8	13,7	12,1	10,2	8,4	5,6
ANSI 300	50	46,4	38,7	35,7	33,4	31,6	30,4	28,7

ACCIAIO CARBONIO – Carbon Steel ASTM A216 WCB

	MINIMA e MASSIMA TEMPERATURA DI ESERCIZIO (°C) Minimum and Maximum Operating Temperature (°C)							
	-20	100	150	200	250	300	350	425
Class	MASSIMA PRESSIONE DI ESERCIZIO (barg) Maximum Operating Pressure (barg)							
ANSI 150	20	17,7	15,8	14	12,1	10,2	8,4	5,6
ANSI 300	50	46,4	38,7	43,8	41,7	38,7	37	28,8

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STELLITE – Stellite

STELLITATURA SU SEDE ED OTTURATORE – Stellited on seat and plug

E' raccomandata la stellitatura (grado 6) della sede e dell'otturatore quando la pressione differenziale è superiore a 9 barg.
Stellited (6 degree of hardness) seat and plug are recommended when the pressure drop is over 9 barg.

STELLITATURA SU BUSSOLA – Stellited on guide bushing

E' raccomandata la stellitatura (grado 6) delle bussola quando la temperatura è superiore a 250°C (nel caso di vapore e acqua surriscaldata) oppure in presenza di elevata pressione differenziale.
Stellited (6 degree of hardness) guide bushing is recommended when operating temperature is over 250°C (in case of steam and superheated water) or in case of severe pressure drop.

DADI E PRIGIONIERI – Stud-bolts and nuts

	Min. Temp. °C	**Max Temp. °C**
Versione std – Std version	**- 20**	**300**
Acc. Inox AISI 304 – Stainless Steel AISI 304 A2 / A193 B8 + A194 Gr.8	**-196**	**425**
Acc. Inox AISI 316 – Stainless Steel AISI 316 A4 / A193 B8M + A194 Gr.8M	**-196**	**425**

CLASSIFICAZIONE DELLE PERDITE ATTRAVERSO IL SEGGIO VALVOLE DI REGOLAZIONE
Control valve seat leakage classifications
(In accordo alla Norma - According **ANSI B16.104)**

Procedura di prova con acqua alla temperature di 10 ÷ 52 °C
Test fluid shall be water at 10 ÷ 52 °C (50 ÷125 F)

CLASSE STD Std Class		**II°**	**III°**	**IV°**	**V°**	**VI°**
Portata nominale CV - KV Rated capacity CV- KV		**0,50%**	**0,10%**	**0,01%**	**0,0005 mL/min (1)**	**Tenuta perfetta** Perfect tightness
TIPO - Type	**5800**	**STD**	**non applicabile** – not applicable			
	2000 – 2200 – 2300 – 2400 **5000 – 5200 – 5300 – 5400** **2600 – 2700 – 5600 – 5700**	**non applicabile** – not applicable		**STD**	**a richiesta** on request	
	2100 – 5100 **Tenuta Metallica -** Metal seal	**non applicabile** – not applicable			**STD**	non applicabile not applicable
	2100 – 5100 **Tenuta Soffice -** Soft seal	**non applicabile** – not applicable				**STD**

(1) Per pollice di diametro per psi di pressione differenziale – per inch of orifice diameter per psi of differential

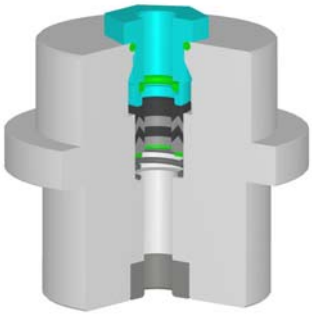
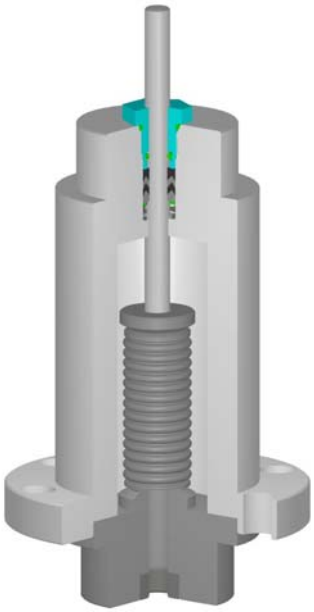
PROVA IN PRESSIONE VALVOLE DI REGOLAZIONE
Control valve pressure test
(In accordo alla Norma - According **UNI EN 12266-1 / API 5-L)**

RATING	**PROVA – Test barg**
PN 16	25
PN 40	60
ANSI 150	30
ANSI 300	75

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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FLANGE PREMISTOPPA – Bonnets

			
FLANGIA STANDARD Standard Bonnet	**FLANGIA ALETTATA** Finned Bonnet	**FLANGIA ALLUNGATA** Extended Bonnet	**FLANGIA SOFFIETTO** Bonnet with bellows
Per temperature comprese tra - 5° C / + 200° C Suitable for temperatures between - 5° C / + 200° C	**Per temperature superiori a + 200° C Predisposta per ingrassatore** Suitable for temperatures over + 200° C For lubricator arranged	**Per temperature inferiori a - 5° C** Suitable for temperatures below - 5° C	**Per fluidi pericolosi (vedi tabella relativa alle massime pressioni di esercizio)** Suitable for dangerous fluids (see table for the maximum operating pressure)

PREMISTOPPA – Stuffing Box Packing

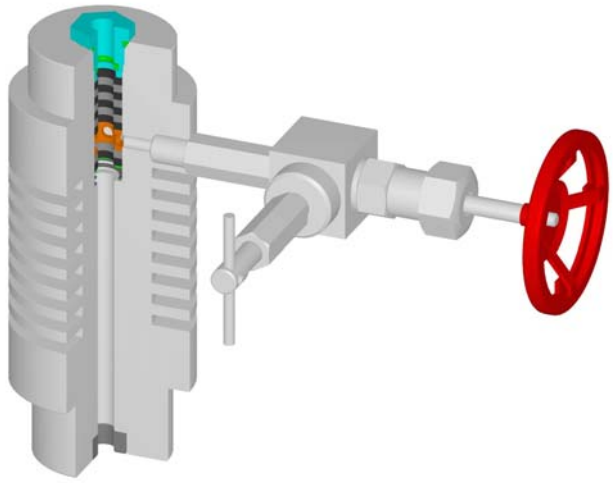
TEFLON PURO (100%) Pure Teflon (100%)	**Adatto per temperature fino a 150°C e consigliato per l'impiego su fluidi e gas. E' formato da anelli a V con molla e rondella in acciaio Inox AISI 304.** It is suitable for temperatures up to 150°C and it is suggested in fluid and gas service. It is composed by V rings with AISI 304 stainless steel spring and washer.
GRAFITE + TEFLON (85% + 15%) Graphite + Teflon (85% + 15%)	**Adatto per temperature fino a 200°C e consigliato per l'impiego su vapori e fluidi. E' formato da anelli a V con molla e rondella in acciaio Inox AISI 304.** It is suitable for temperatures up to 200°C and it is suggested in steam and fluid service. It is composed by V rings with AISI 304 stainless steel spring and washer.
GRAFITE PURA Pure Graphite (100%)	**Adatto per temperature fino a 425°C è consigliato per l'impiego su vapori e fluidi ad alta temperatura. E' formato da anelli in grafite pura.** It is suitable for temperatures up to 425°C and it is suggested in steam and fluid service at high temperatures. It is composed by rings of pure graphite. **≤ 270 °C solo anelli in grafite pura** – only pure graphite rings **≥ 270 ≤ 300°C anelli in grafite pura con ingrassatore** – pure graphite rings with lubricator **≥ 300 °C ≤ 425 °C anelli in grafite pura con labirinto e ingrassatore** – pure graphite rings with labyrinth and lubricator

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INGRASSATORE LUBRIFICATORE – Lubricator



L'applicazione di tale dispositivo consente di effettuare l'ingrassaggio del premistoppa senza perdite di fluido.
E' consigliato l'uso, con il premistoppa in grafite pura, in presenza di vapore oppure acqua surriscaldata con temperatura ≥ 250°C.

The application of this device allows to put grease into stuffing box packing without leakage of fluid.
It is recommended, for pure graphite stuffing box packing, with steam or superheated water and temperature ≥ 250°C.

TENUTA A SOFFIETTO – Bellows seal

MASSIMA PRESSIONE DI ESERCIZIO – Maximum operating pressure

PN 16 - AISI 316	**PN 25 - AISI 316**	**PN 40 - AISI 316**
DUPLICE PARETE	**TRIPLICE PARETE**	**TRIPLICE PARETE**
spessore 0,15 mm	**spessore 0,15 mm**	**spessore 0,20 mm**
Double wall	Triple wall	Triple wall
0,15 mm wall thickness	0,15 mm wall thickness	0,20 mm wall thickness
16 barg / 20 °C	25 barg / 20 °C	40 barg / 20 °C
15 barg / 60 °C	23 barg / 60 °C	32 barg / 100 °C
14 barg / 80 °C	21 barg / 80 °C	27 barg / 200 °C
13 barg / 100 °C	20 barg / 100 °C	25 barg / 260 °C
12 barg / 140 °C	19 barg / 140 °C	23 barg / 300 °C
11 barg / 180 °C	17 barg / 180 °C	22 barg / 360 °C
10 barg / 220 °C	16 barg / 220 °C	20 barg / 400 °C
9 barg / 380 °C	15 barg / 280 °C	15 barg / 620 °C
8 barg / 540 °C	14 barg / 340 °C	10 barg / 660 °C
7 barg / 600 °C	13 barg / 400 °C	7 barg / 700 °C
5 barg / 640 °C	10 barg / 600 °C	3 barg / 800 °C
3 barg / 700 °C	8 barg / 640 °C	=
1 barg / 800 °C	5 barg / 680 °C	=
=	2 barg / 800 °C	=

L'applicazione del soffietto PN25 comporta la riduzione del 35% dei valori di pressione differenziale riportati sul prospetto tecnico di ogni serie (per le valvole tipo 2100 DN 15-20 la riduzione è pari al 50%).
Maximum permissible pressure drops, showed in the technical leaflet of each series of valves, must bre reduced of 35% (50% for type 2100 DN 15-20 valves) when triple wall bellows seal PN25 is applied.

L'applicazione del soffietto PN40 comporta la riduzione del 50% dei valori di pressione differenziale riportati sul prospetto tecnico di ogni serie (per le valvole tipo 2100 DN 15-20 la riduzione è pari al 65%).
Maximum permissible pressure drops, showed in the technical leaflets of each series of valves, must be reduced of 50% (65% for type 2100 DN 15-20 valves) when triple wall bellows seal PN40 is applied.

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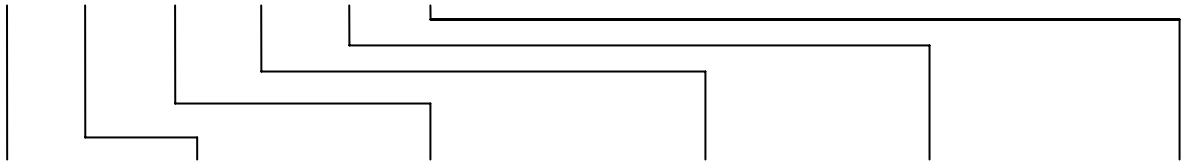
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Sistema Codifica Prodotti Serie UNIWORLD

Products Codification System UNIWORLD Series

Codice Esempio / Example Code

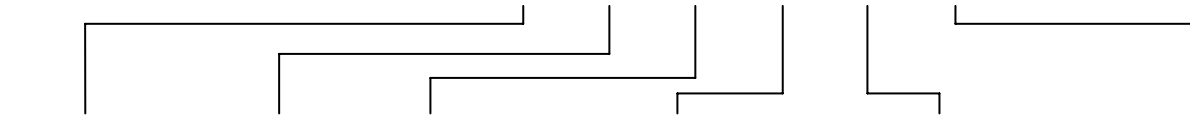
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Tipo Type		DN		Materiale Material		Flangiatura Connections		Passaggio Bore		Otturatore Plug	
20	2000	**003**	Ø1/8"	**A**	EN-GJL-250	**15J**	ANSI 150 RJ	**FB**	Full Bore	**1E**	1 Cage %
21	2100	**005**	Ø3/16"	**B**	Carbon Steel	**15R**	ANSI 150 RF	**03**	Ø1/8"	**1L**	1 Cage Linear
22	2200	**006**	Ø1/4"	**C**	AISI 316	**164**	PN16B 4 Holes	**05**	Ø3/16"	**2E**	1 Cage 1%+1L
23	2300	**010**	Ø3/8"	**D**	AISI 304	**16B**	PN16 B	**06**	Ø1/4"	**2L**	2 Cages Linear
24	2400	**014**	Ø1/2"	**E**	AISI 316L	**25B**	PN25 B	**10**	Ø3/8"	**CE**	% (EQP-EQV)
26	2600	**015**	DN15	**L**	A352-LCB	**30J**	ANSI 300 RJ	**15**	Ø1/2"	**CL**	Linear (PL-LV)
27	2700	**019**	Ø 3/4"	**S**	EN-GJS 400	**30R**	ANSI 300 RF	**20**	Ø3/4"	**CT**	On-Off (PT-VPT)
50	5000	**020**	DN20	**W**	Super Duplex	**40B**	PN40 B	**25**	Ø1"	**MF**	Microflow Linear
51	5100	**024**	Ø 1"	**Y**	Special	**BSP**	BSP	**32**	Ø 1.1/4"	**1S**	Microflow 1SG %
52	5200	**025**	DN25			**BWE**	But Weld	**40**	Ø1.1/2"	**2S**	Microflow 2SG %
53	5300	**031**	Ø1.1/4"			**J10**	JIS 10K	**50**	Ø2"		
54	5400	**032**	DN32			**J20**	JIS 20K	**65**	Ø2.1/2"		
56	5600	**039**	Ø 1.1/2"			**NPT**	NPT	**80**	Ø3"		
57	5700	**040**	DN40			**RCI**	Rc-ISO7	**4"**	Ø4"		
58	5800	**049**	Ø 2"			**RPI**	Rp-ISO7	**5"**	Ø5"		
		050	DN50			**SWE**	Socket Weld	**6"**	Ø6"		
		064	Ø2.1/2"					**8"**	Ø8"		
		065	DN65								
		079	Ø 3"								
		080	DN80								
		099	Ø 4"								
		100	DN100								
		124	Ø 5"								
		125	DN125								
		149	Ø 6"								
		150	DN150								
		199	Ø 8"								
		200	DN200								
		249	Ø 10"								
		250	DN250								

Segue Codice Esempio / Follow Example Code

20	015	A	16B	FB	CE	0	0	0	0	0	R	T1	0	11	B



Tenuta Seal		Guarnizioni Gaskets		Bulloneria Bolts		Bonnet		Bussola guida Guide bush		Premistoppa Packing	
0	Cl. IV°	**0**	STD	**0**	STD	**0**	STD	**0**	STD	**C**	STD
I	Cl. II°	**T**	PTFE	**1**	AISI304	**E**	Extended	**H**	Stelllite Gr.6	**G**	Graphite
R	PTFE/GR Cl. VI°			**2**	AISI316	**P**	Finned	**R**	Scraper (Rasc.)	**I**	Lubricator+Graphite
S	Stellite GR.6					**S**	Bellows PN16			**L**	Labirinth *
T	PTFE Cl. VI°					**T**	Bellows PN25			**R**	PTFE+GR
V	Cl.V°					**U**	Bellows PN40			**T**	PTFE
						V	Bellows PN100				
						Y	Cryogenic Extended				

* + Lubricator+Graphite

Sistema Codifica Prodotti Serie UNIWORLD
Products Codification System UNIWORLD Series

Segue Codice Esempio / Follow Example Code

20	015	A	16B	FB	CE	0	0	0	0	0	R	T1	0	11	B

Servomotore Actuator	
A1	Electric AVF234SF132
A2	Electric AVF234SF232
A3	Electric AVM234SF132
EX	Electric EX RUN
K1	Pneum.T200 A304 Low Temp.
K2	Pneum.T250 A304 Low Temp.
K3	Pneum.T310 A304 Low Temp.
K4	Pneum.T400 A304 Low Temp.
K5	Pneum.T500 A304 Low Temp.
L1	Pneum.T200 Painted Low Temp.
L2	Pneum.T250 Painted Low Temp.
L3	Pneum.T310 Painted Low Temp.
L4	Pneum.T400 Painted Low Temp.
L5	Pneum.T500 Painted Low Temp.
M2	Electric PSL AMS02
M4	Electric PSL AMS04
M5	Electric PSL AMS214
M6	Electric PSL AMS210
M7	Electric PSL AMS320
M8	Electric PSL AMS325
P1	Electric PSL201
P2	Electric PSL202
P4	Electric PSL204
P5	Electric PSL210
P6	Electric PSL214
P7	Electric PSL320
P8	Electric PSL325
T1	Pneum. Painted T200
T2	Pneum. Painted T250
T3	Pneum. Painted T310
T4	Pneum. Painted T400
T5	Pneum. Painted T500
X1	Pneum. T200 A304
X2	Pneum. T250 A304
X3	Pneum. T310 A304
X4	Pneum. T400 A304
X5	Pneum. T500 A304

Extra	
0	STD
1	220V AC *
2	110V AC *
3	24V AC *
4	24V DC *
5	380V AC *
6	24 V AC/DC x AVF*
D	Handwheel AD
R	Handwheel AR

* Solo Valv. Elettrica
Only Electric Valve

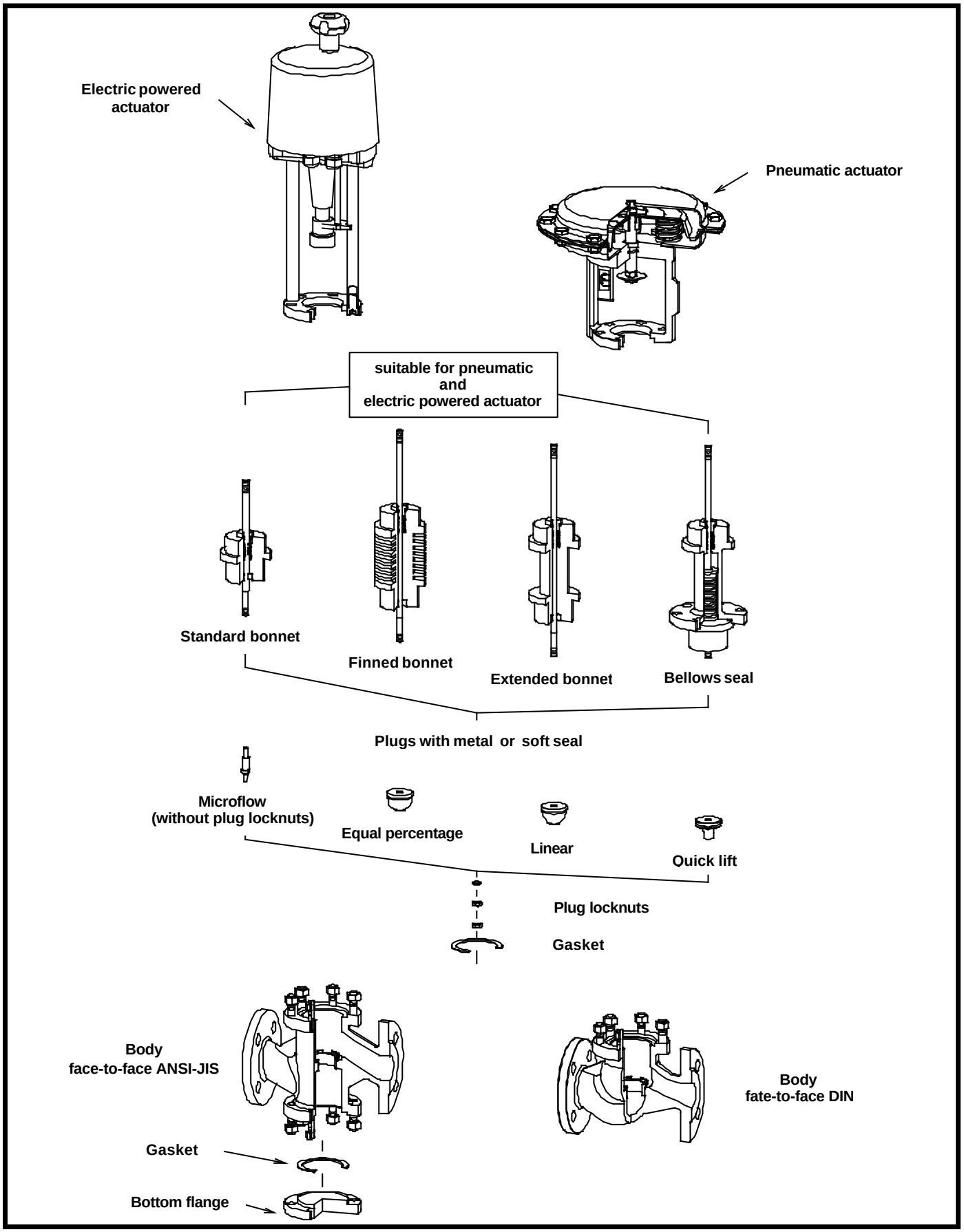
Corsa Stroke	
11	11 mm
19	19 mm
28	28 mm
40	40 mm
50	50 mm

Segnale Signal	
A	3-15 psi
B	6-18 psi
C	6-30 psi
D	35 psi
E	2-6 Bar AD
F	2-6 Bar AR-FC
G	2-6 Bar AR-FA
H	DE – Double Effect
0	Electric Valve

UNIWORLD series VALVES CE

Assembling system for 2 Way single seat valve

COMP2VS/E	
01	2001



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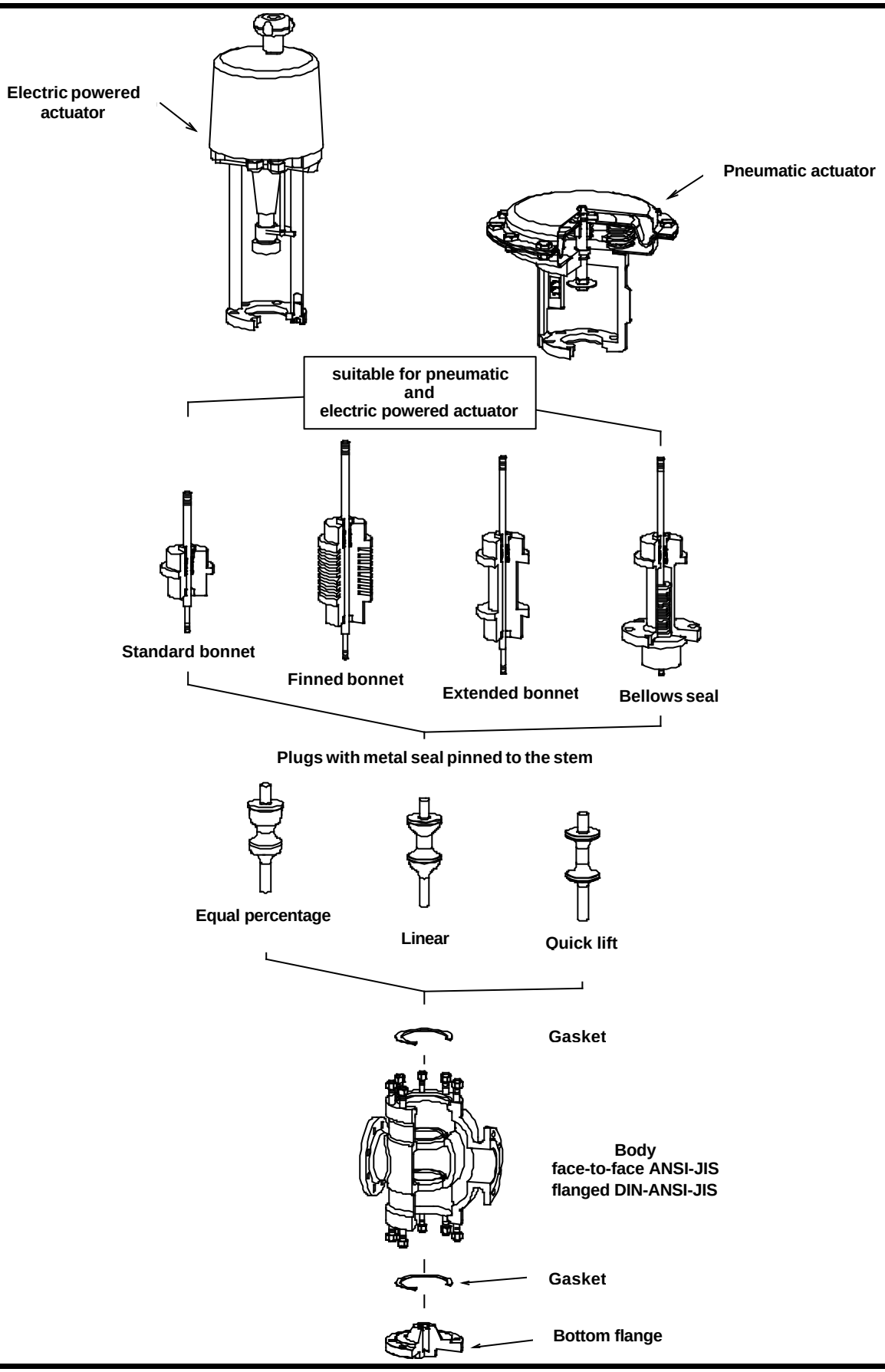
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UNIWORLD series VALVES CE

Assembling system for 2 Way double seat valve

COMP2VD/E	
01	2001



CONFLOW s.p.a.

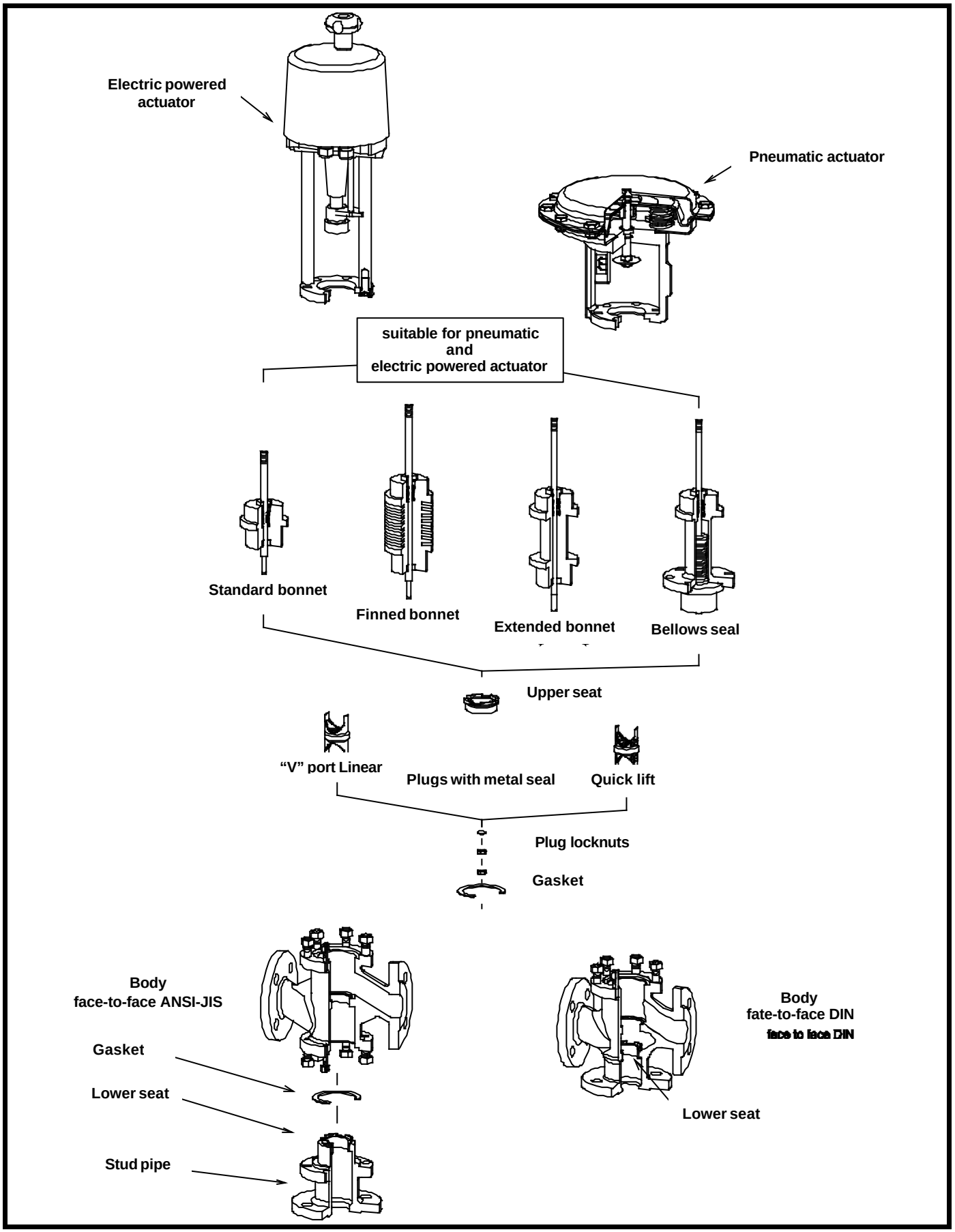
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UNIWORLD series VALVES CE

Assembling system for 3 Way mixing valve

COMP3VM/E	
01	2001



CONFLOW s.p.a.

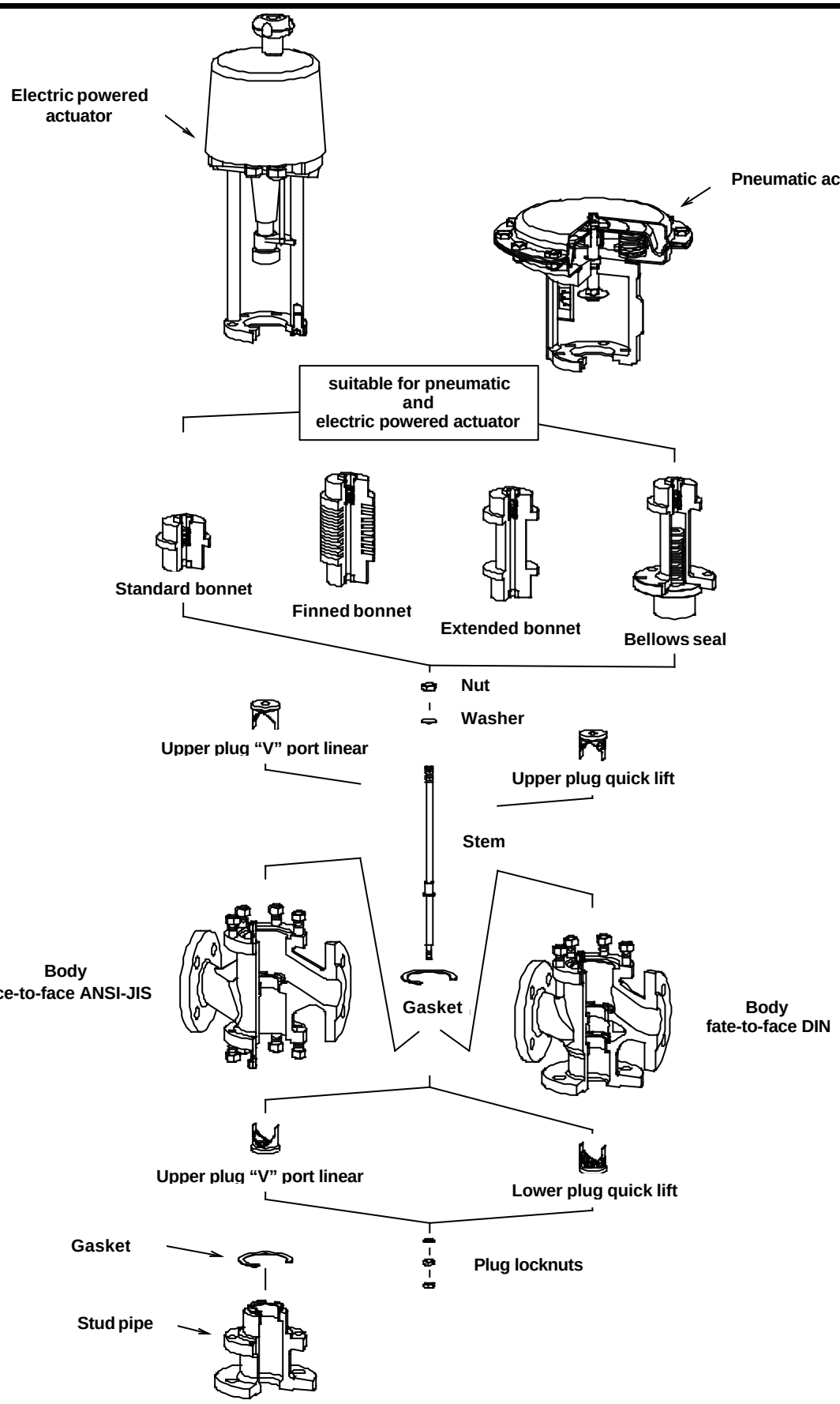
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UNIWORLD series VALVES CE

Assembling system for 3 Way diverting valve

COMP3VD/E	
01	2001



CONFLOW s.p.a.

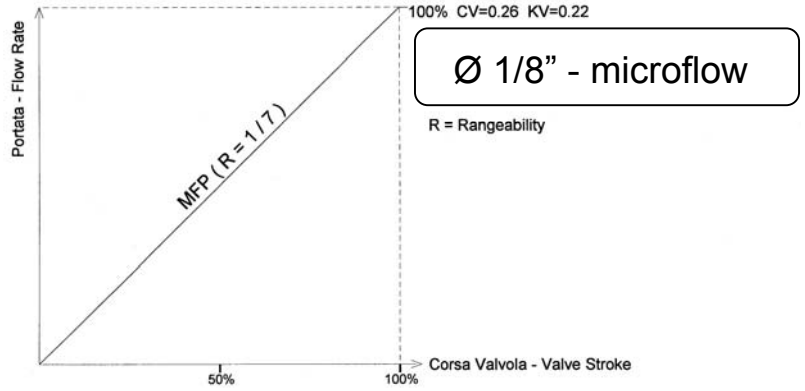
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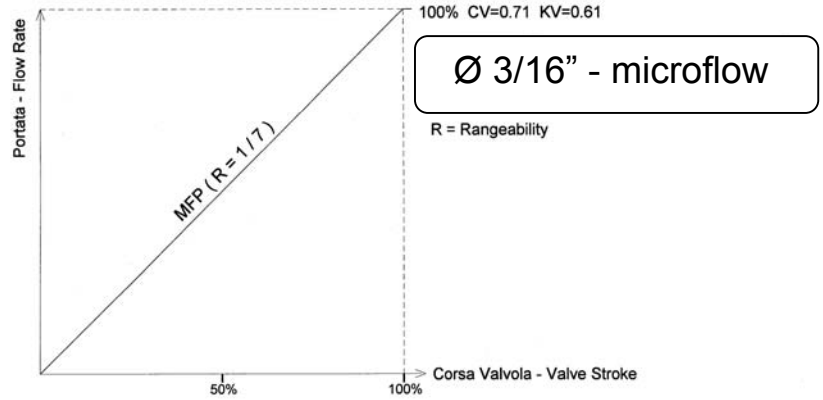
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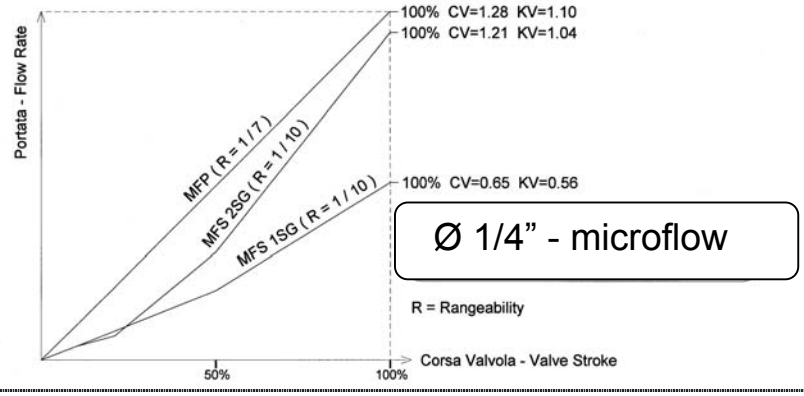
UNIWORLD series PLUGS PROFILES DIAGRAM
SINGLE SEAT TWO WAY

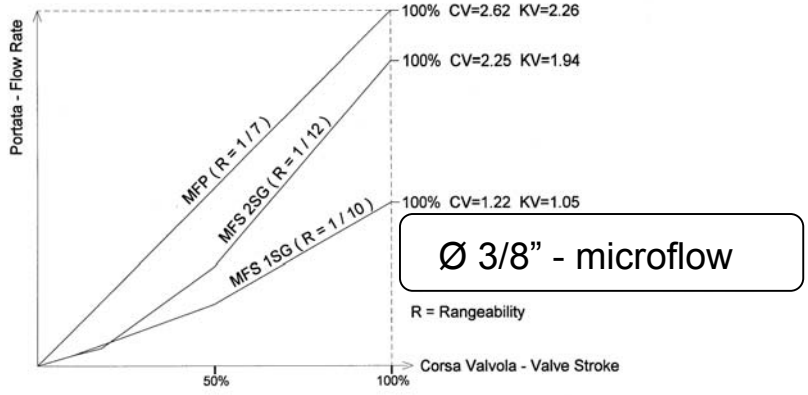
GRAFIC01/E	
01	2001

The american unit **CV** (flowrate in USGPM with 1 psi of differential pressure) and the metric one **KV** (flowrate in m3/h with 1 bar of differential pressure) declared in the technical documentation, have been tested by a research center**,** recognized by Ministry of Works, Ministry of Industry, ICIM and member of ASTM, EUROLAB, UNI, or have been compared, with method of calculation, to the certified CV and KV.









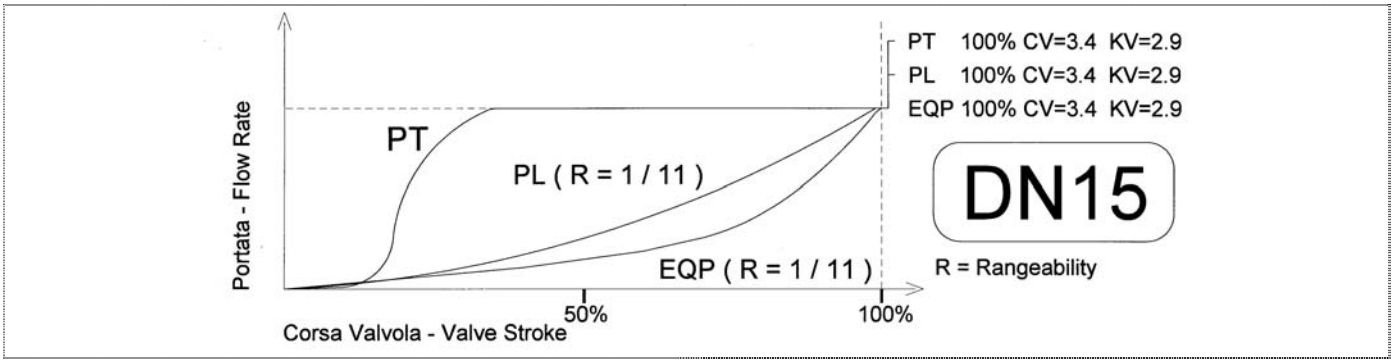
CONFLOW s.p.a.

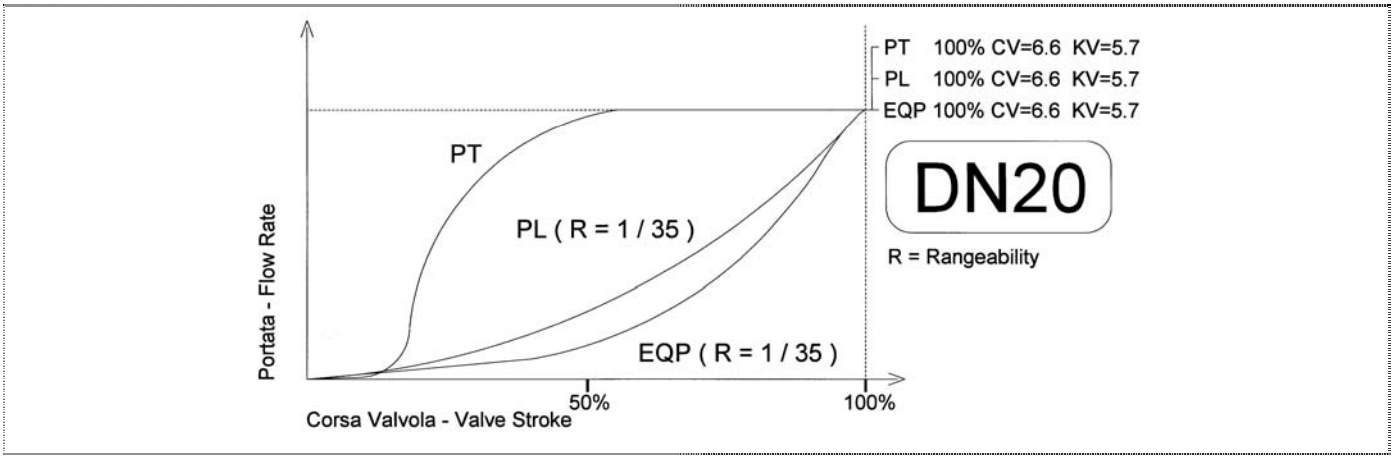
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ISO 9001

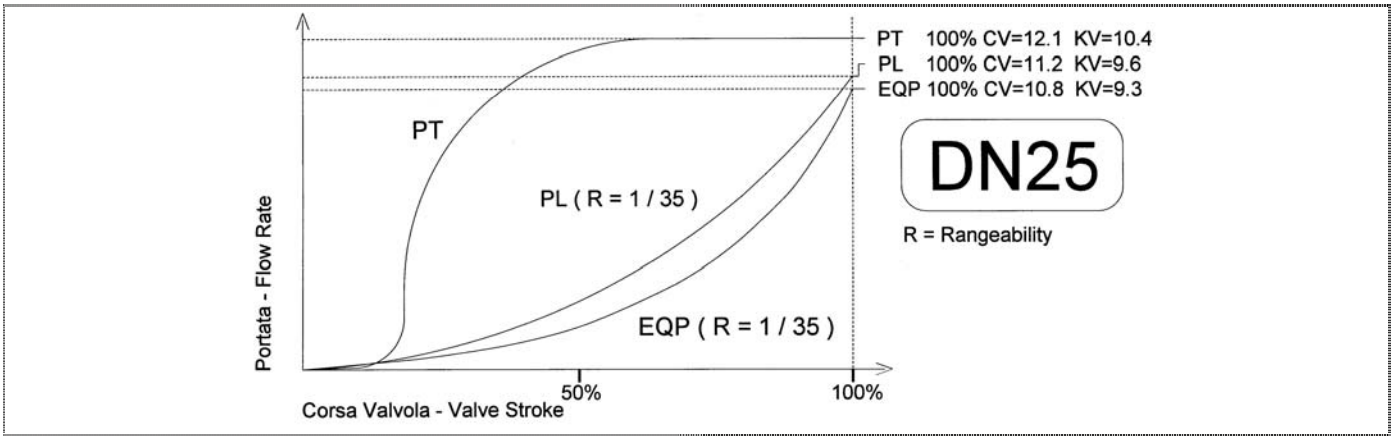
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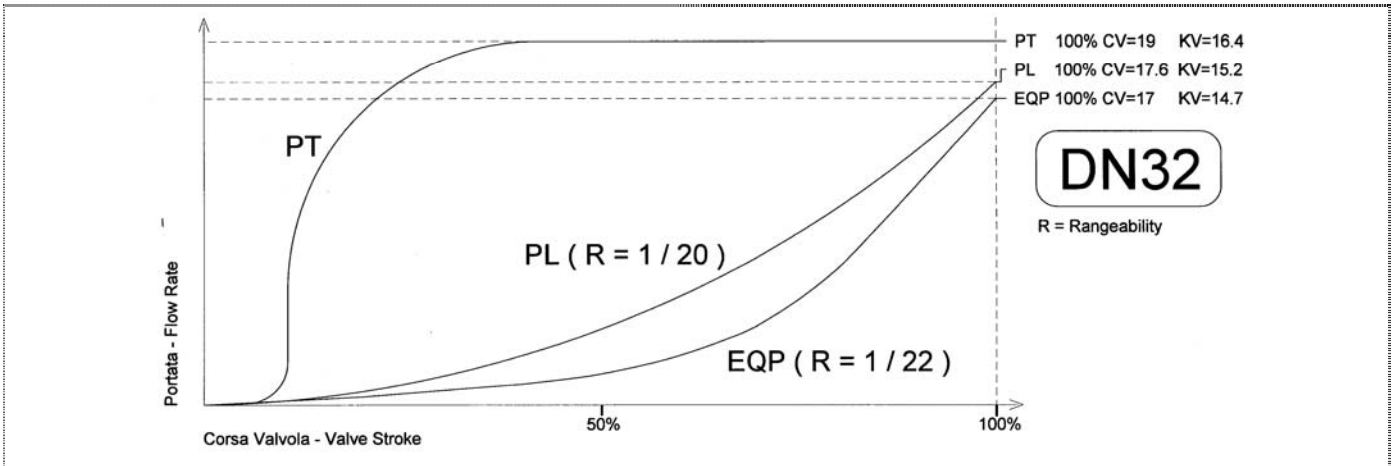
UNIWORLD series PLUGS PROFILES DIAGRAM
SINGLE SEAT TWO WAY

The american unit **CV** (flowrate in USGPM with 1 psi of differential pressure) and the metric one **KV** (flowrate in m3/h with 1 bar of differential pressure) declared in the technical documentation, have been tested by a research center**,** recognized by Ministry of Works, Ministry of Industry, ICIM and member of ASTM, EUROLAB, UNI, or have been compared, with method of calculation, to the certified CV and KV.







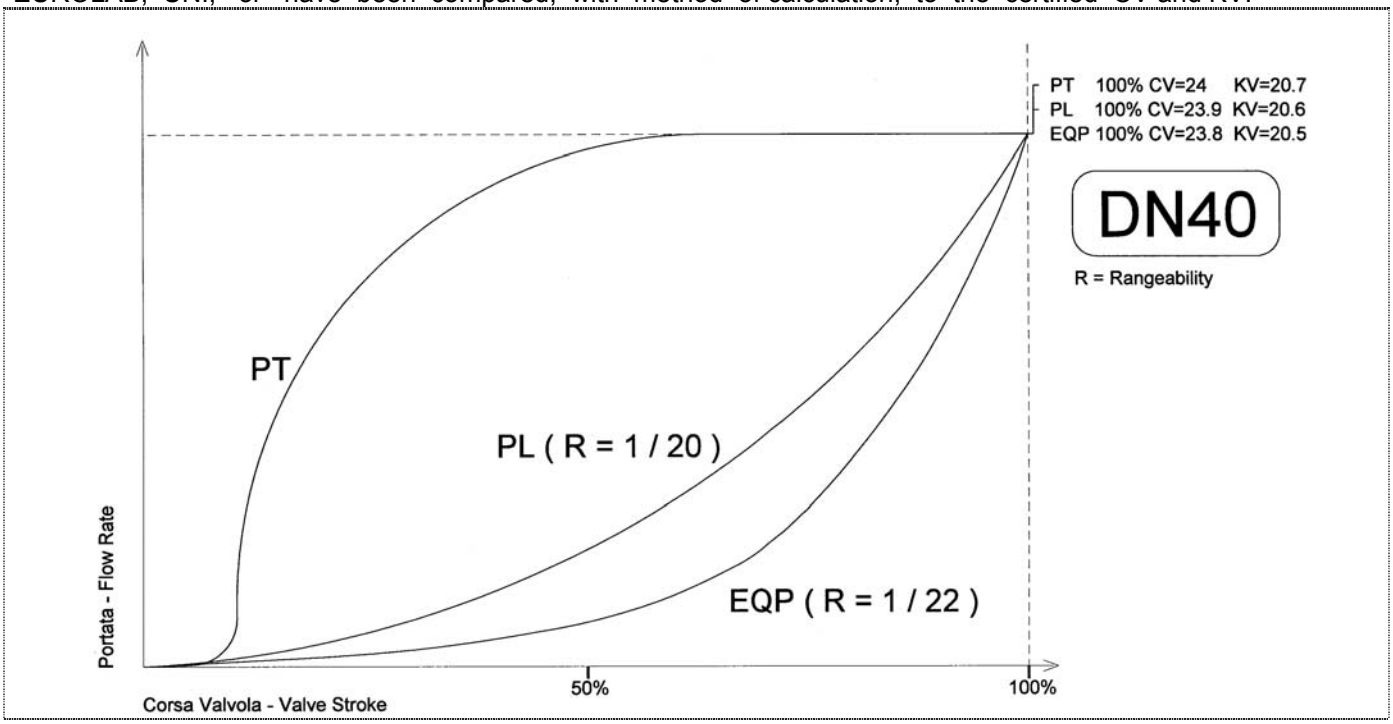


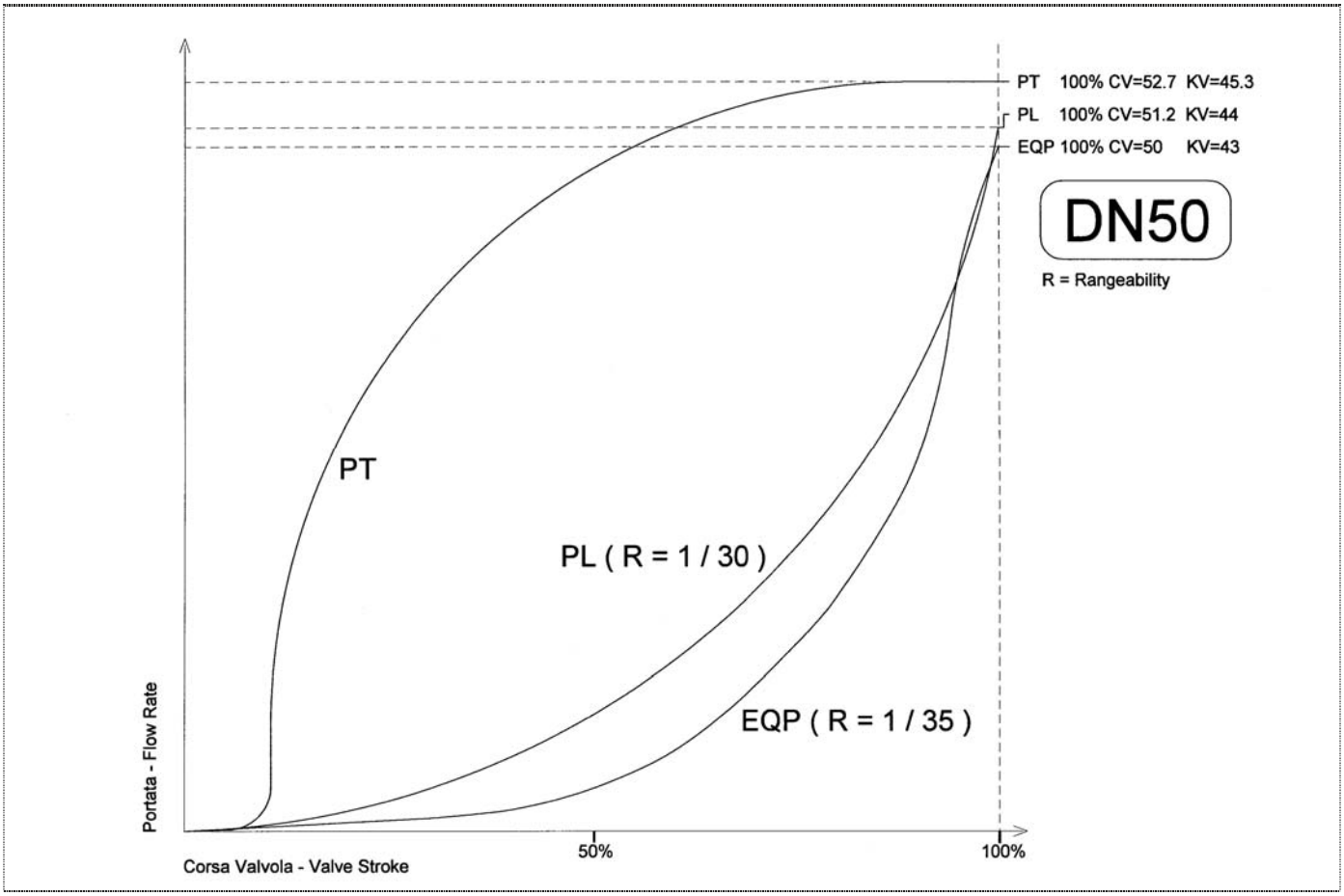
Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modification deemed necessary without prior notice..

UNIWORLD series PLUGS PROFILES DIAGRAM
SINGLE SEAT TWO WAY

GRAFIC02/E	
01	2001

The american unit **CV** (flowrate in USGPM with 1 psi of differential pressure) and the metric one **KV** (flowrate in m3/h with 1 bar of differential pressure) declared in the technical documentation, have been tested by **a research center,** recognized by Ministry of Works, Ministry of Industry, ICIM and member of ASTM, EUROLAB, UNI, or have been compared, with method of calculation, to the certified CV and KV.





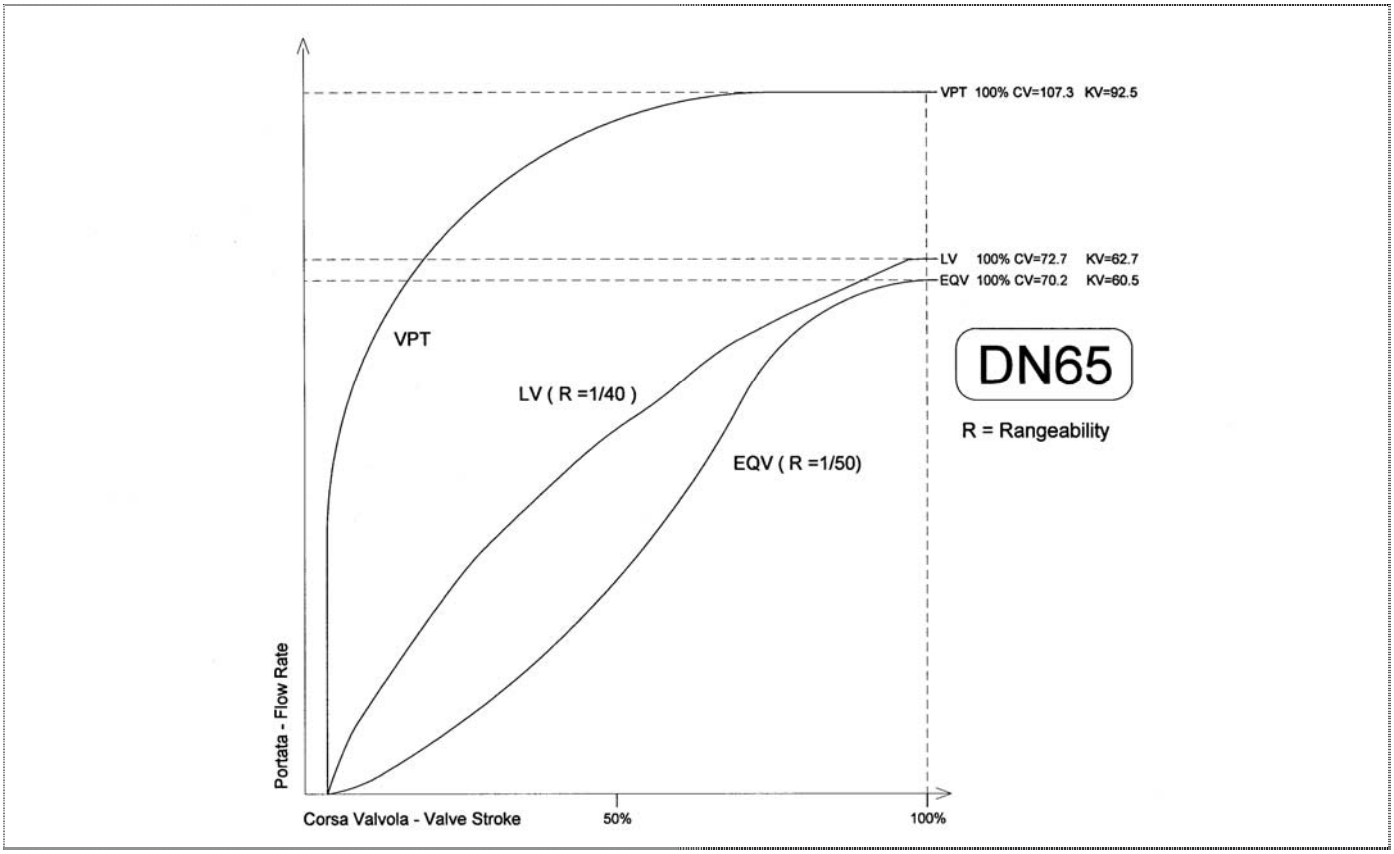
CONFLOW s.p.a.

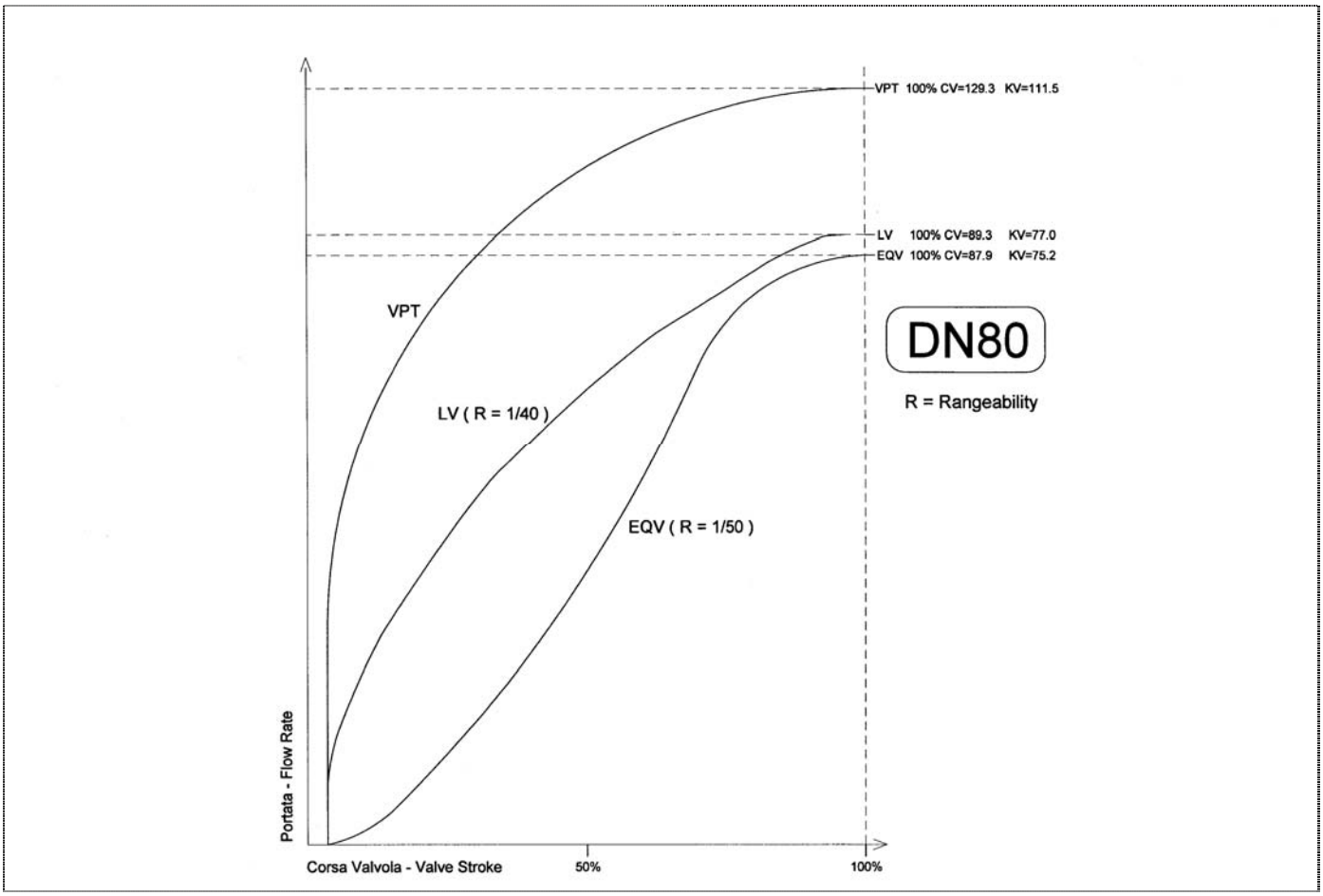
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

Via Lecco, 69/71
20041 AGRATE BRIANZA (MI)
Tel. 039/651.705 - 650.397
Fax 039/654.018

UNIWORLD series PLUGS PROFILES DIAGRAM
SINGLE SEAT TWO WAY

The american unit **CV** (flowrate in USGPM with 1 psi of differential pressure) and the metric one **KV** (flowrate in m3/h with 1 bar of differential pressure) declared in the technical documentation, have been tested by a research center**,** recognized by Ministry of Works, Ministry of Industry, ICIM and member of ASTM, EUROLAB, UNI, or have been compared, with method of calculation, to the certified CV and KV.



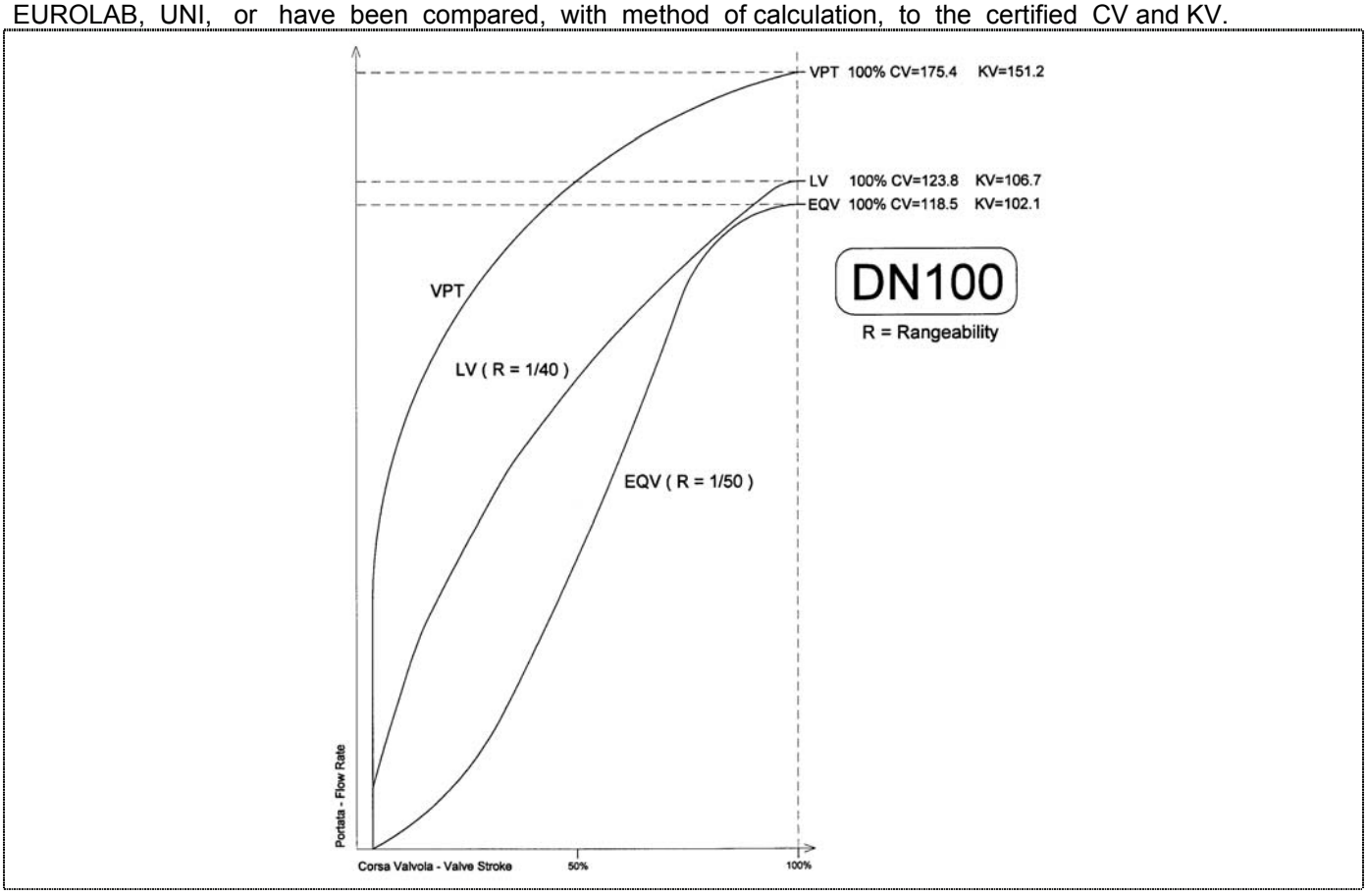


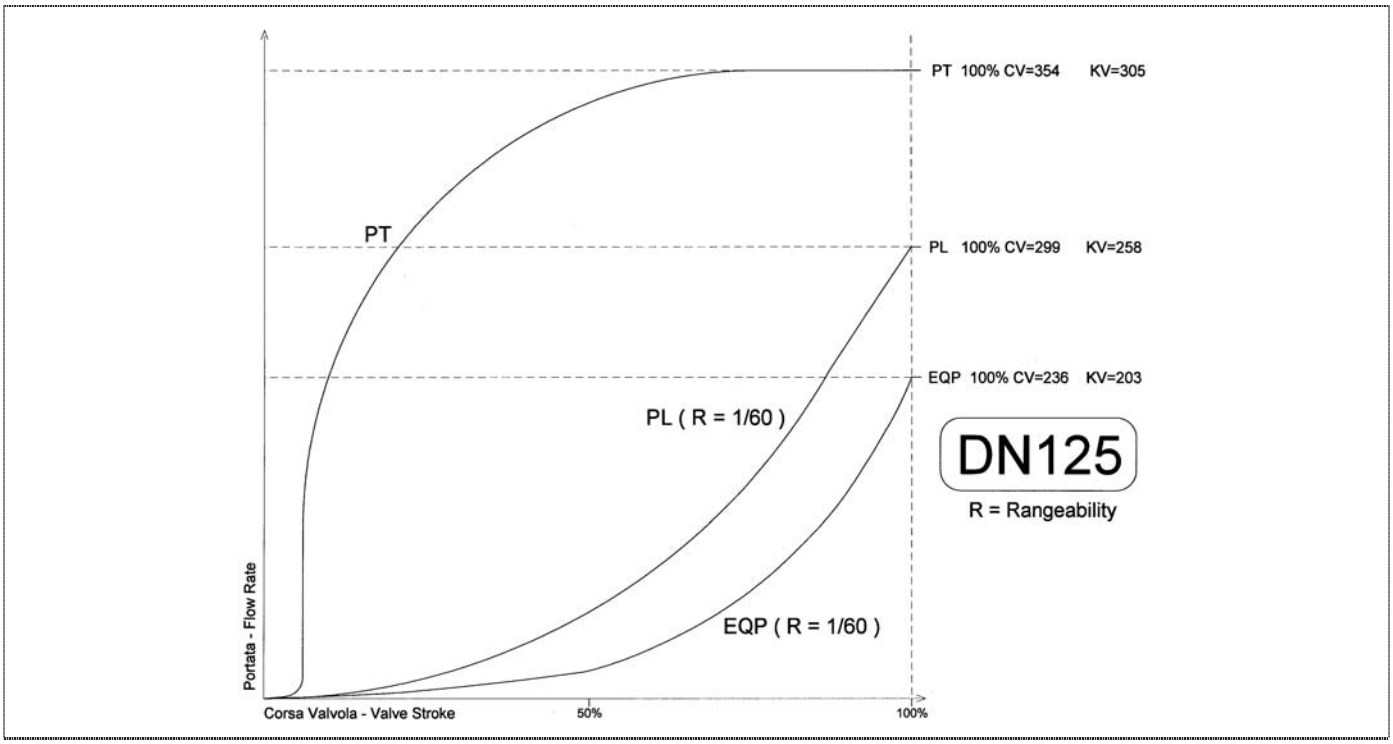
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UNIWORLD series PLUGS PROFILES DIAGRAM
SINGLE SEAT TWO WAY

GRAFIC03/E	
01	2001

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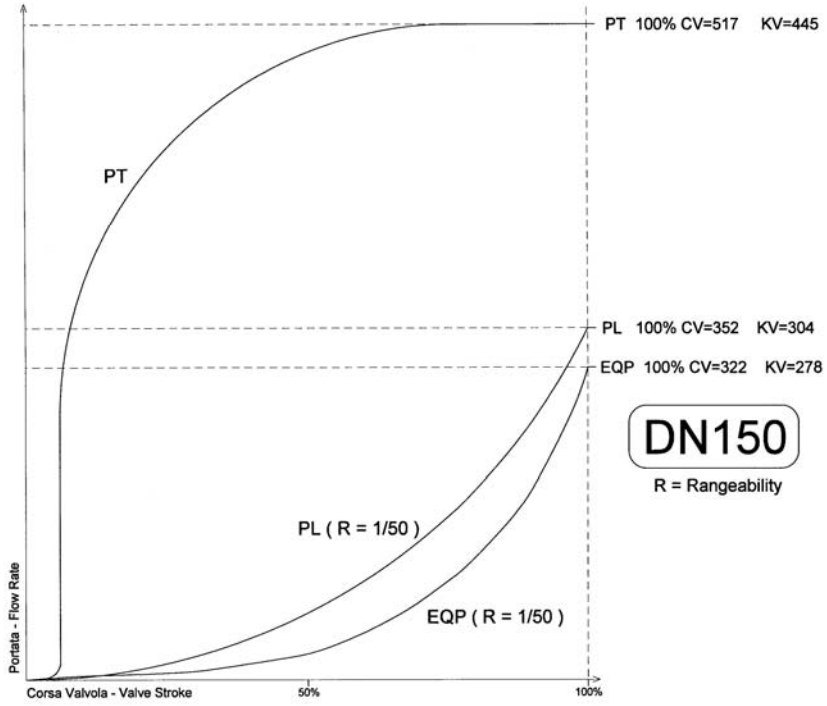
CONFLOW s.p.a.

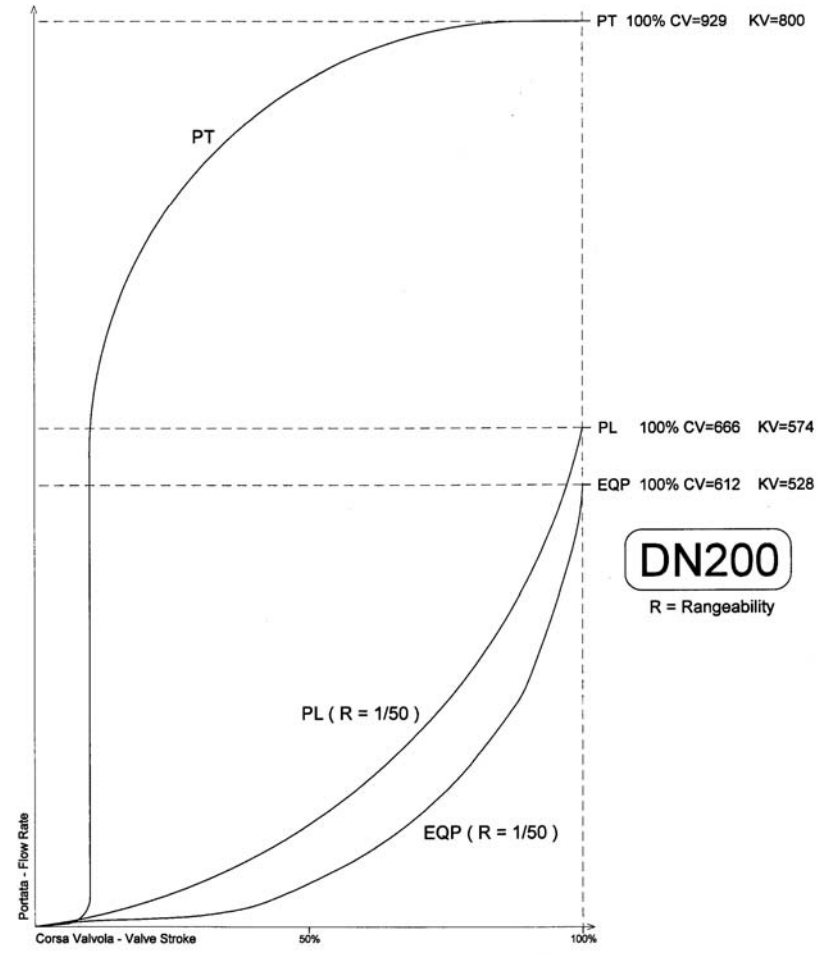
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UNIWORLD series PLUGS PROFILES DIAGRAM
SINGLE SEAT TWO WAY

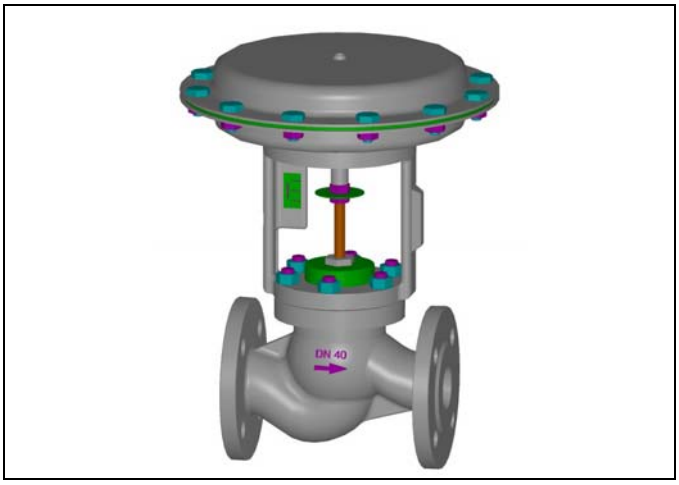
The american unit **CV** (flowrate in USGPM with 1 psi of differential pressure) and the metric one **KV** (flowrate in m3/h with 1 bar of differential pressure) declared in the technical documentation, have been tested by **research center,** recognized by Ministry of Works, Ministry of Industry, ICIM and member of ASTM, EUROLAB, UNI, or have been compared, with method of calculation, to the certified CV and KV.





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SINGLE SEAT TWO WAY CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2000 AD

Normally open – air closes

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2000 AD are equipped with EN "straight-through" pattern bodies with EN flanges.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :

- **EQP** (DN15-50) **EQV** (DN65-100) = equal percentage class IV°
- **PL** (DN15-50) **LV** (DN65-100) = linear class IV°
- **PT** (DN15-50) **VPT** (DN65-100) = quick lift class IV°

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
	KV	2.9	5.7	9.3	14.7	20.5	43	60.5	75.2	102.1
PL	CV	3.4	6.6	11.2	17.6	23.9	51.2	72.7	89.3	123.8
	KV	2.9	5.7	9.6	15.2	20.6	44	62.7	77	106.7
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2
Reduced bore *		•	• 1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

• DN 15-20	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear..MFS = Equal percentage * CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

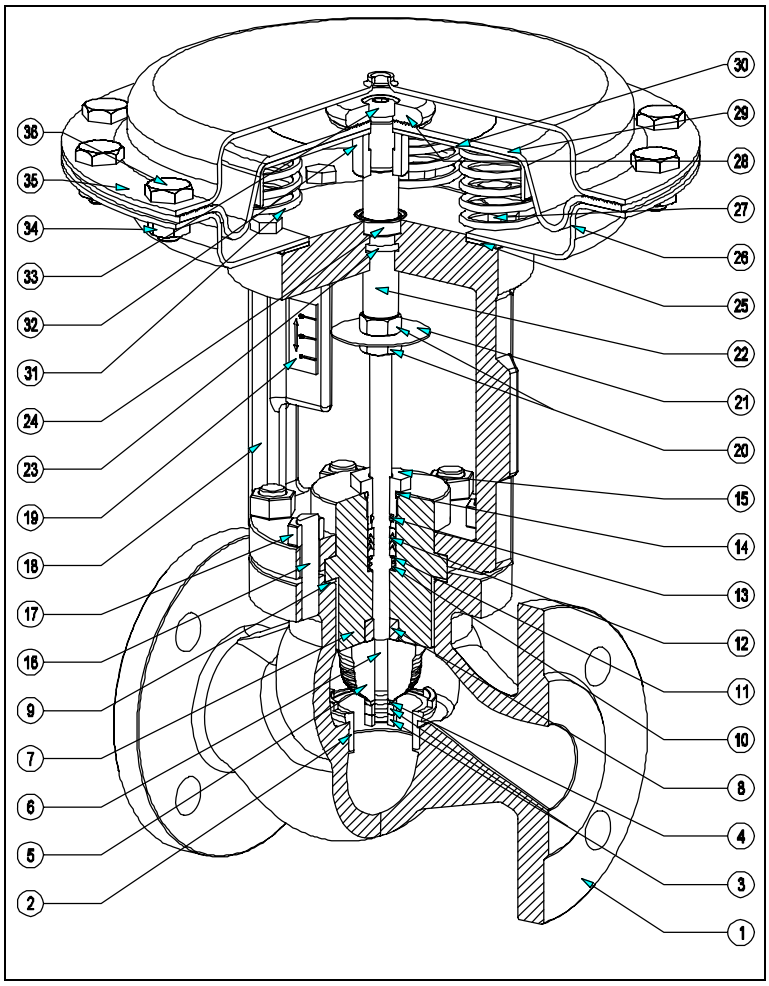
Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 stroke 11	DN 20 stroke 11	DN 25 stroke 11	DN 32 stroke 19	DN 40 stroke 19	DN 50 stroke 19	DN 65 stroke 28	DN 80 stroke 28	DN 100 stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-30 psi	52	32	18	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-30 psi	113	69	39	25	17	10	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-30 psi	-	-	63	41	28	16	10	7	4
T400	3-15 psi	-	-	-	14.5	10.5	5.5	3.8	2.5	1.4
	6-30 psi	-	-	-	60	42	24	15	10.5	5.9
T500	3-15 psi	-	-	-	24.5	17.5	9.5	6.2	4.2	2.4
	6-30 psi	-	-	-	101	70	40	25.3	17.5	9.9

T200 DN15-20 Microflow	Signal	MFP 1/8 “	MFP 3/16 “	MFP 1/4 “	MFP 3/8 “	MFS1SG 1/4 “	MFS2SG 1/4 “	MFS1SG 3/8 “	MFS2SG 3/8 “
	3-15 psi	200	90	50	30	50	50	30	30
	6-30 psi	1080	470	270	130	270	270	130	130

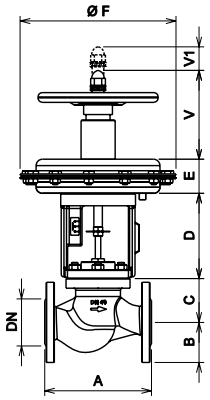
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi
4. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



	COMPONENTS LIST	MATERIALS
1.	Body	See note (1) at page 1
2.	Seat	AISI 316 stainless steel
3.	Plug locknuts	AISI 304 stainless steel
4.	Spring washer	AISI 304 stainless steel
5.	Plug	AISI 316 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1)-(2) at page 1
8.	Guide bush	AISI 304 stainless steel
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at page 1
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Yoke	GGG50 spheroidal c. iron
19.	Travel indicator plate	Policarbonate
20.	Position indicator locknuts	DIN 936 galvanized steel
21.	Position indicator	Aluminium
22.	Diaphragm rod	AISI 303 stainless steel
23.	“O” ring	NBR
24.	Airtight	NBR
25.	Yoke gasket	Cork – rubber
26.	Lower diaphragm casing	P11 steel
27.	Lower diaphragm casing internal bolts	DIN 933 galvanized steel
28.	Diaphragm spacer	Galvanized steel
29.	Diaphragm	EPDM 70
30.	Diaphragm plate	P01 steel
31.	Springs	C98 UNI 3823
32.	Diaphragm bush	AISI 303 stainless steel
33.	Diaphragm locknut	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	DIN 934 galvanized steel
35.	Upper diaphragm casing	P11 steel
36.	Diaphragm casing locknuts	DIN 933 galvanized steel

DIMENSIONS in mm.

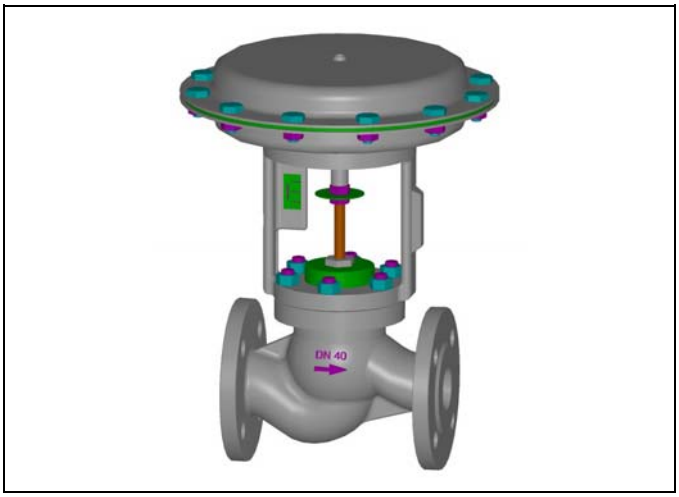


DN	Ø	A	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 “	130	47.5	49	181	181	147	166	11
20	3/4 “	150	52.5	58	190	190	147	166	11
25	1 “	160	57.5	68	200	200	147	166	11
32	1.1/4 “	180	70	70	202	202	147	166	19
40	1.1/2 “	200	75	82	214	214	160	166	19
50	2 “	230	82.5	86	218	218	160	166	19
65	2.1/2 “	290	92.5	111	309	309	160	166	28
80	3 “	310	100	135	333	333	160	166	28
100	4“	350	118	160	363	363	204	166	28

Actuator.	E	Ø F
T200	70	210
T250	70	292
T310	95	336
T400	119	408
T500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2000 AR

Normally closed – air opens

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2000 AR are equipped with EN "straight-through" pattern bodies with EN flanges.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6.18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :
- **EQP** (DN15-50) **EQV** (DN65-100) = equal percentage class IV°
- **PL** (DN15-50) **LV** (DN65-100) = linear class IV°
- **PT** (DN15-50) **VPT** (DN65-100) = quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
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	KV	2.9	5.7	9.6	15.2	20.6	44	62.7	77	106.7
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2
Reduced bore *		•	• 1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

• DN 15-20	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear..MFS = Equal percentage * CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL/LV only)

CONFLOW s.p.a.

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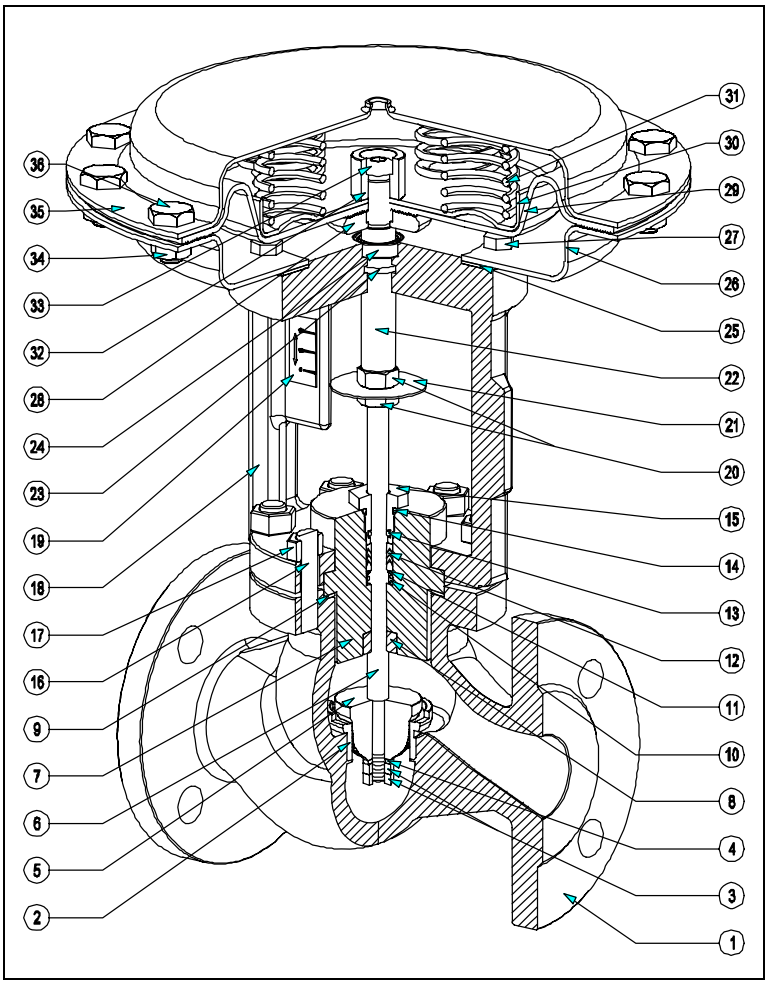
Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 stroke 11	DN 20 stroke 11	DN 25 stroke 11	DN 32 stroke 19	DN 40 stroke 19	DN 50 stroke 19	DN 65 stroke 28	DN 80 stroke 28	DN 100 stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

T200 DN15-20 Microflow	Signal	MFP 1/8 "	MFP 3/16 "	MFP 1/4 "	MFP 3/8 "	MFS1SG 1/4 "	MFS2SG 1/4 "	MFS1SG 3/8 "	MFS2SG 3/8 "
	3-15 psi	200	90	50	30	50	50	30	30
	6-18 psi	400	180	100	60	100	100	60	60
	6-30 psi	1300	580	340	160	340	340	160	160

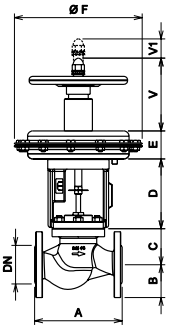
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



	COMPONENTS LIST	MATERIALS
1.	Body	See note (1) at page 1
2.	Seat	AISI 316 stainless steel
3.	Plug locknuts	AISI 304 stainless steel
4.	Spring washer	AISI 304 stainless steel
5.	Plug	AISI 316 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1)-(2) at page 1
8.	Guide bush	AISI 304 stainless steel
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at page 1
13.	Internal "O" ring	Viton FPM 70
14.	External "O" ring	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Yoke	GGG50 spheroidal c. iron
19.	Travel indicator plate	Policarbonate
20.	Position indicator locknuts	DIN 936 galvanized steel
21.	Position indicator	Aluminium
22.	Diaphragm rod	AISI 303 stainless steel
23.	"O" ring	NBR
24.	Airtight	NBR
25.	Yoke gasket	Cork – rubber
26.	Lower diaphragm casing	P11 steel
27.	Lower diaphragm casing internal bolts	DIN 933 galvanized steel
28.	Diaphragm spacer	Galvanized steel
29.	Diaphragm	EPDM 70
30.	Diaphragm plate	P01 steel
31.	Springs	C98 UNI 3823
32.	Diaphragm bush	AISI 303 stainless steel
33.	Diaphragm locknut	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	DIN 934 galvanized steel
35.	Upper diaphragm casing	P11 steel
36.	Diaphragm casing locknuts	DIN 933 galvanized steel

DIMENSIONS in mm.

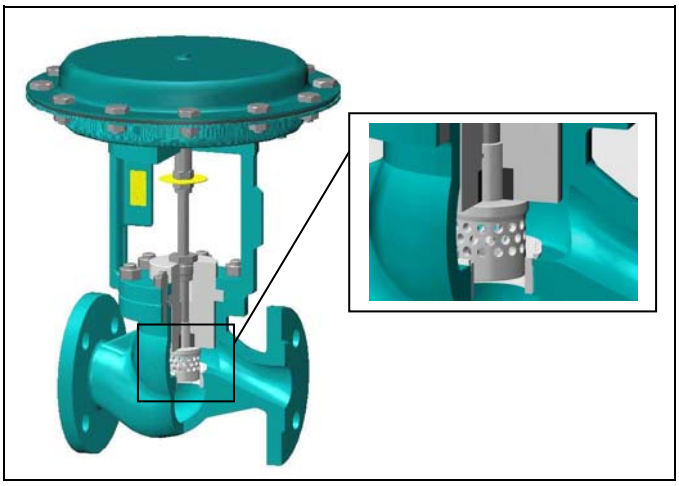


DN	Ø	A	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 "	130	47.5	49	181	181	147	166	11
20	3/4 "	150	52.5	58	190	190	147	166	11
25	1 "	160	57.5	68	200	200	147	166	11
32	1.1/4 "	180	70	70	202	202	147	166	19
40	1.1/2 "	200	75	82	214	214	160	166	19
50	2 "	230	82.5	86	218	218	160	166	19
65	2.1/2 "	290	92.5	111	309	309	160	166	28
80	3 "	310	100	135	333	333	160	166	28
100	4"	350	118	160	363	363	204	166	28

Actuator	E	Ø F
T200	70	210
T250	70	292
T310	95	336
T400	119	408
T500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2200 AD Simple Cage
Normally open – air closes

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2200 AD are equipped with EN "straight-through" pattern bodies with EN flanges.
Modulating integral cage plug (low-noise) for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 50

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :
- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN 15/25** = 1/75
- **RANGEABILITY DN 32/50** = 1/160

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full Bore	DN 15	DN 20		DN 25		DN 32		DN 40		DN 50	
	Ø 1/2"	Ø 3/4"		Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"	
CV	3,13	5,11		9,68		16,77		24,15		40,82	
KV	2,67	4,36		8,26		14,30		20,60		34,82	
CV		(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77	(Ø 1.1/2")	24,15
KV		(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30	(Ø 1.1/2")	20,60
CV				(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77
KV				(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30
CV						(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68
KV						(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26
CV								(Ø 1/2")	3,13	(Ø 3/4")	5,11
KV								(Ø 1/2")	2,67	(Ø 3/4")	4,36
CV										(Ø 1/2")	3,13
KV										(Ø 1/2")	2,67

Microflow passage From DN 15 to DN 25 (on request)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

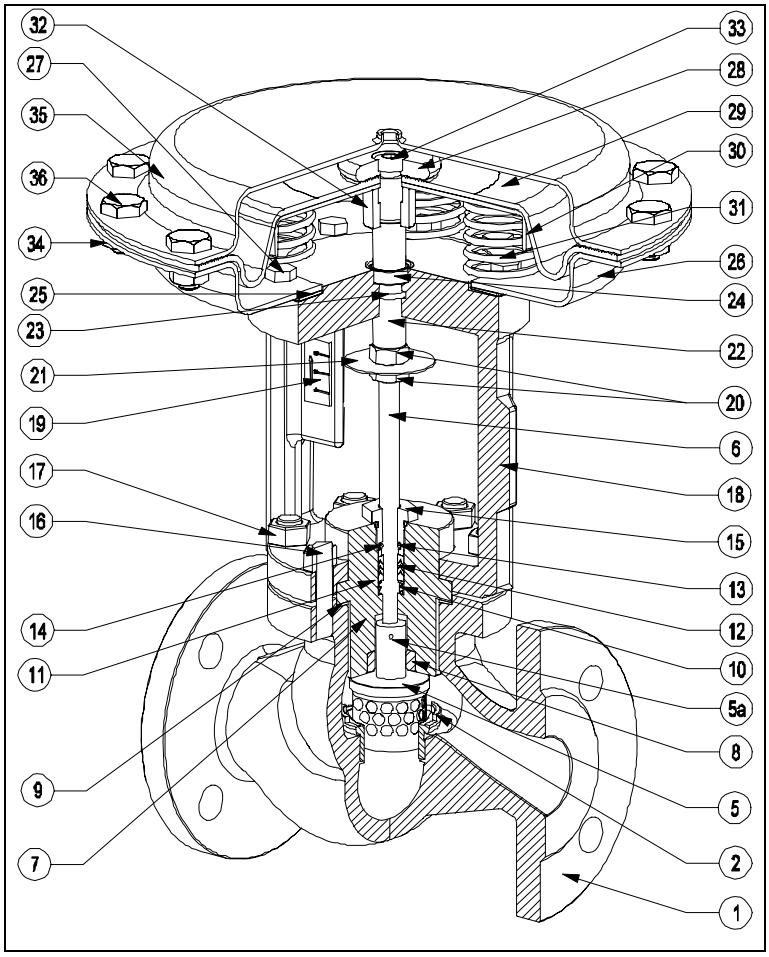
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Fax 039/654.018
www.conflow.it it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 stroke 11	DN 20 stroke 11	DN 25 stroke 11	DN 32 stroke 19	DN 40 stroke 19	DN 50 stroke 19
T200	3-15 psi	12	8	5	3	-	-
	6-30 psi	52	32	18	11	-	-
T250	3-15 psi	27	17	9	6	4	2,4
	6-30 psi	113	69	39	25	17	10
T310	3-15 psi	-	-	15,5	10	7	3,5
	6-30 psi	-	-	63	41	28	16
T400	3-15 psi	-	-	-	14,5	10,5	5,5
	6-30 psi	-	-	-	60	42	24
T500	3-15 psi	-	-	-	24,5	17,5	9,5
	6-30 psi	-	-	-	101	70	40

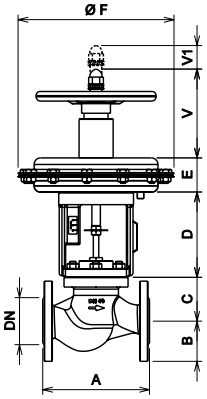
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi
4. **For the reduced passage valve consider the DELTA-PI given in the right column.**

COMPONENTS LIST AND MATERIALS



COMPONENT LIST	MATERIALS
1. Body	1. See notes (1) at pag. 1
2. Seat	2. AISI 316 stainless steel
5. Plug	5. AISI 316 stainless steel
5a. Pin	5a. Carbon steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See notes (1)(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nuts	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Yoke locknuts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.

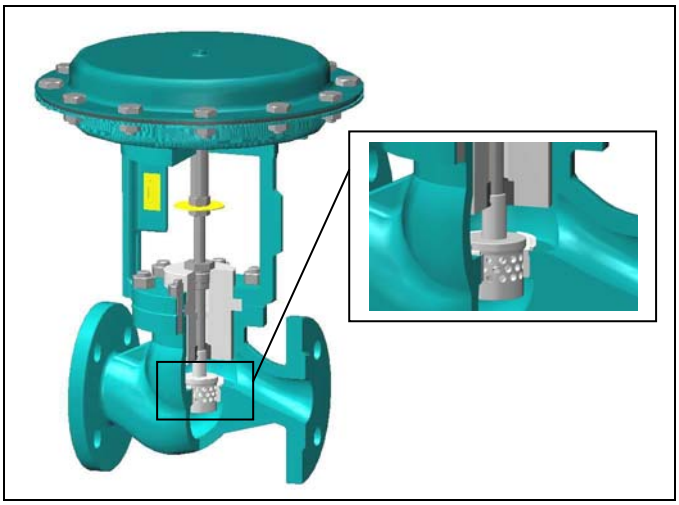


DN	Ø	A	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 “	130	47.5	49	181	181	147	166	11
20	3/4 “	150	52.5	58	190	190	147	166	11
25	1 “	160	57.5	68	200	200	147	166	11
32	1.1/4 “	180	70	70	202	202	147	166	19
40	1.1/2 “	200	75	82	214	214	160	166	19
50	2 “	230	82.5	86	218	218	160	166	19

Actuator	E	Ø F
T200	70	210
T250	70	292
T300	95	336
T400	119	408
T500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2200 AR Simple cage
Normally close – air opens

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2200 AR are equipped with EN "straight-through" pattern bodies with EN flanges.
Modulating integral cage plug (low-noise) for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-18 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 50

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :
- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN 15/25** = 1/75
- **RANGEABILITY DN 32/50** = 1/160

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi …6-18 psi…6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full Bore	DN 15	DN 20		DN 25		DN 32		DN 40		DN 50	
	Ø 1/2"	Ø 3/4"		Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"	
CV	3,13	5,11		9,68		16,77		24,15		40,82	
KV	2,67	4,36		8,26		14,30		20,60		34,82	
CV		(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77	(Ø 1.1/2")	24,15
KV		(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30	(Ø 1.1/2")	20,60
CV				(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77
KV				(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30
CV						(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68
KV						(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26
CV								(Ø 1/2")	3,13	(Ø 3/4")	5,11
KV								(Ø 1/2")	2,67	(Ø 3/4")	4,36
CV										(Ø 1/2")	3,13
KV										(Ø 1/2")	2,67

Microflow passage From DN 15 to DN 25 (on request)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

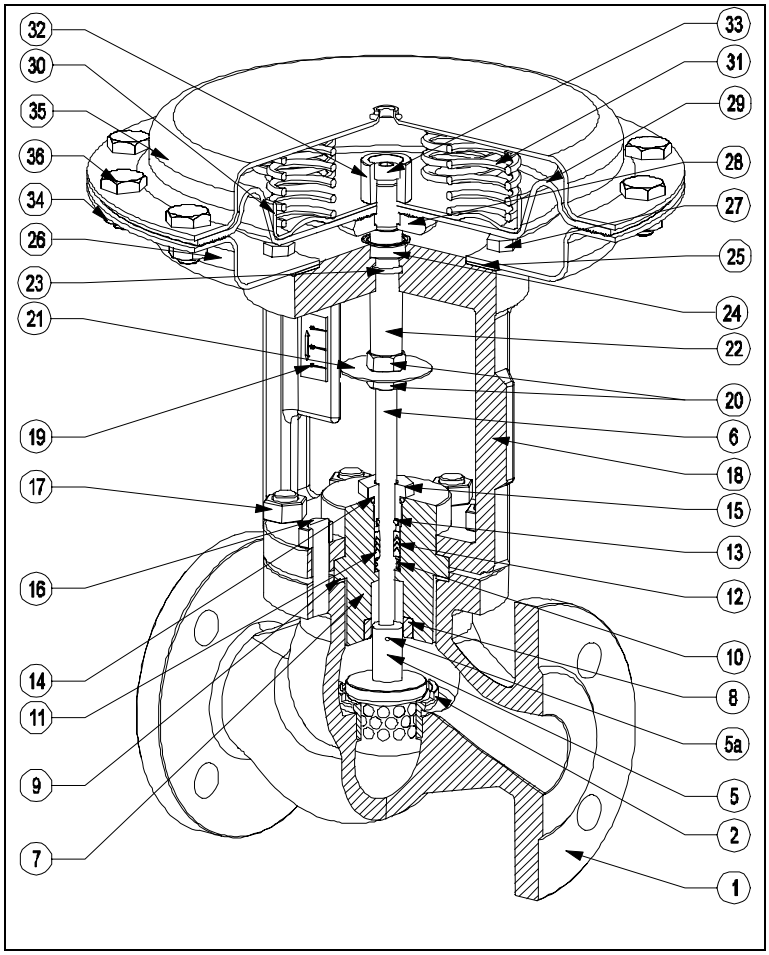
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 stroke 11	DN 20 stroke 11	DN 25 stroke 11	DN 32 stroke 19	DN 40 stroke 19	DN 50 stroke 19
T200	3-15 psi	12	8	5	3	-	-
	6-18 psi	25	16	9	5.2	-	-
	6-30 psi	65	40	22	11	-	-
T250	3-15 psi	27	17	9	6	4	2.4
	6-18 psi	55	34	19	12	8	3
	6-30 psi	110	68	38	20	14.5	7
T310	3-15 psi	-	-	15.5	10	7	3.5
	6-18 psi	-	-	31	20	14	7
	6-30 psi	-	-	62	30	21	12
T400	3-15 psi	-	-	-	14.5	10.5	5
	6-18 psi	-	-	-	29.5	20.5	12
	6-30 psi	-	-	-	45	31.5	18
T500	3-15 psi	-	-	-	24.5	17.5	9.5
	6-18 psi	-	-	-	49	34.5	19.5
	6-30 psi	-	-	-	75	52.5	30.3

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi
4. **For the reduced passage valve consider the DELTA-PI given in the right column.**

COMPONENTS LIST AND MATERIALS



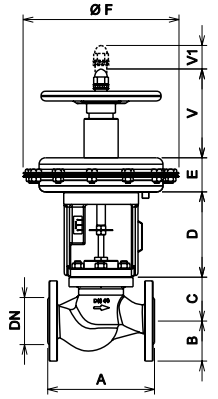
COMPONENT LIST

1. Body
2. Seat
5. Plug
5a. Pin
6. Stem
7. Bonnet
8. Guide bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal “O” ring
14. External “O” ring
15. Packing adjusting nuts
16. Stud-bolts
17. Body locknuts
18. Yoke
19. Travel indicator plate
20. Position indicator locknuts
21. Position indicator
22. Diaphragm rod
23. “O” ring
24. Airtight
25. Yoke gasket
26. Lower diaphragm casing
27. Yoke locknuts
28. Diaphragm spacer
29. Diaphragm
30. Diaphragm plate
31. Springs
32. Diaphragm bush
33. Diaphragm locknut
34. Diaphragm casing bolts
35. Upper diaphragm casing
36. Diaphragm casing locknuts

MATERIALS

1. See notes (1) at pag. 1
2. AISI 316 stainless steel
5. AISI 316 stainless steel
5a. Carbon steel
6. AISI 316 stainless steel
7. See notes (1)(2) at page 1
8. AISI 304 stainless steel
9. Europil WS 3640 or PTFE
10. AISI 302 stainless steel
11. AISI 304 stainless steel
12. See note (3) at page 1
13. Viton FPM 70
14. Viton FPM 70
15. AISI 303 stainless steel
16. Galvanized steel
17. DIN 934 galvanized steel
18. GGG50 spheroidal c. iron
19. Policarbonate
20. DIN 936 galvanized steel
21. Aluminium
22. AISI 303 stainless steel
23. NBR
24. NBR
25. Cork – rubber
26. P11 steel
27. DIN 933 galvanized steel
28. Galvanized steel
29. EPDM 70
30. P01 steel
31. C98 UNI 3823
32. AISI 303 stainless steel
33. ISO 7380 galvanized steel
34. DIN 934 galvanized steel
35. P11 steel
36. DIN 933 galvanized steel

DIMENSIONS in mm.

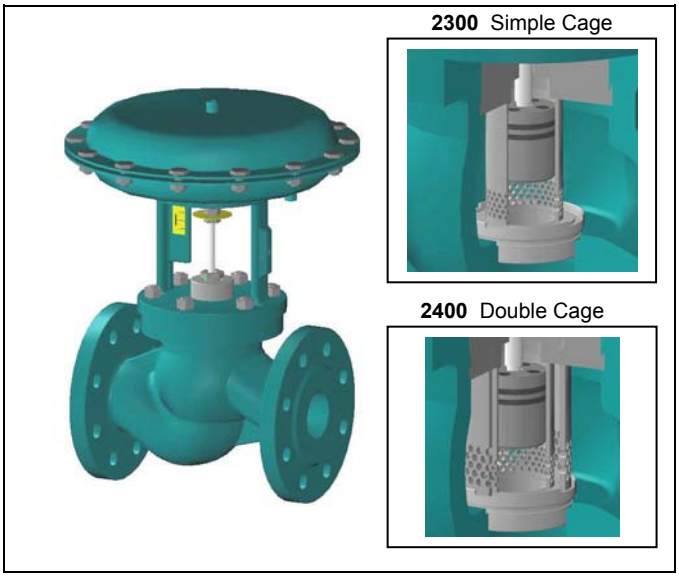


DN	Ø	A	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 “	130	47.5	49	181	181	147	166	11
20	3/4 “	150	52.5	58	190	190	147	166	11
25	1 “	160	57.5	68	200	200	147	166	11
32	1.1/4 “	180	70	70	202	202	147	166	19
40	1.1/2 “	200	75	82	214	214	160	166	19
50	2 “	230	82.5	86	218	218	160	166	19

Actuator	E	Ø F
T200	70	210
T250	70	292
T300	95	336
T400	119	408
T500	119	520

Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2300 AD Simple Cage
TYPE 2400 AD Double Cage

Normally open – air closes

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2300/2400 AD are equipped with EN "straight-through" pattern bodies with EN flanges.
Modulating balanced piston plug (low-noise), with high temperature sealing rings made of carbon graphite with antimony, self lapping, sliding in a sigle or double cage suitable for regulation of all type of media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 65 to DN 100

BODY CONNECT. : flanged EN 1092-1 PN 16 PN 40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :

- **SIMPLE CAGE** = linear balanced class IV°
- **RANGEABILITY DN 65/100** = 1/100

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- Diaphragm and Actuator sealing kit certified for ambient temperature ≤ -50 °C
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug	DN 65		DN 80		DN 100	
Full bore	Ø 2.1/2"		Ø 3"		Ø 4"	
CV	56.79		75.31		129.91	
KV	48.44		64.24		110.81	
CV	(Ø 2") *	40.82	(Ø 2.1/2")	56.79	(Ø 3")	75.31
KV	(Ø 2") *	34.82	(Ø 2.1/2")	48.44	(Ø 3")	64.24
CV	(Ø 1.1/2") *	24.15	(Ø 2") *	40.82	(Ø 2.1/2")	56.79
KV	(Ø 1.1/2") *	20.60	(Ø 2") *	34.82	(Ø 2.1/2")	48.44
CV	(Ø 1.1/4") *	16.77	(Ø 1.1/2") *	24.15	(Ø 2") *	40.82
KV	(Ø 1.1/4") *	14.30	(Ø 1.1/2") *	20.60	(Ø 2") *	34.82

* Integral plug version with simple cage only (see leaflet 2200AD/E)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

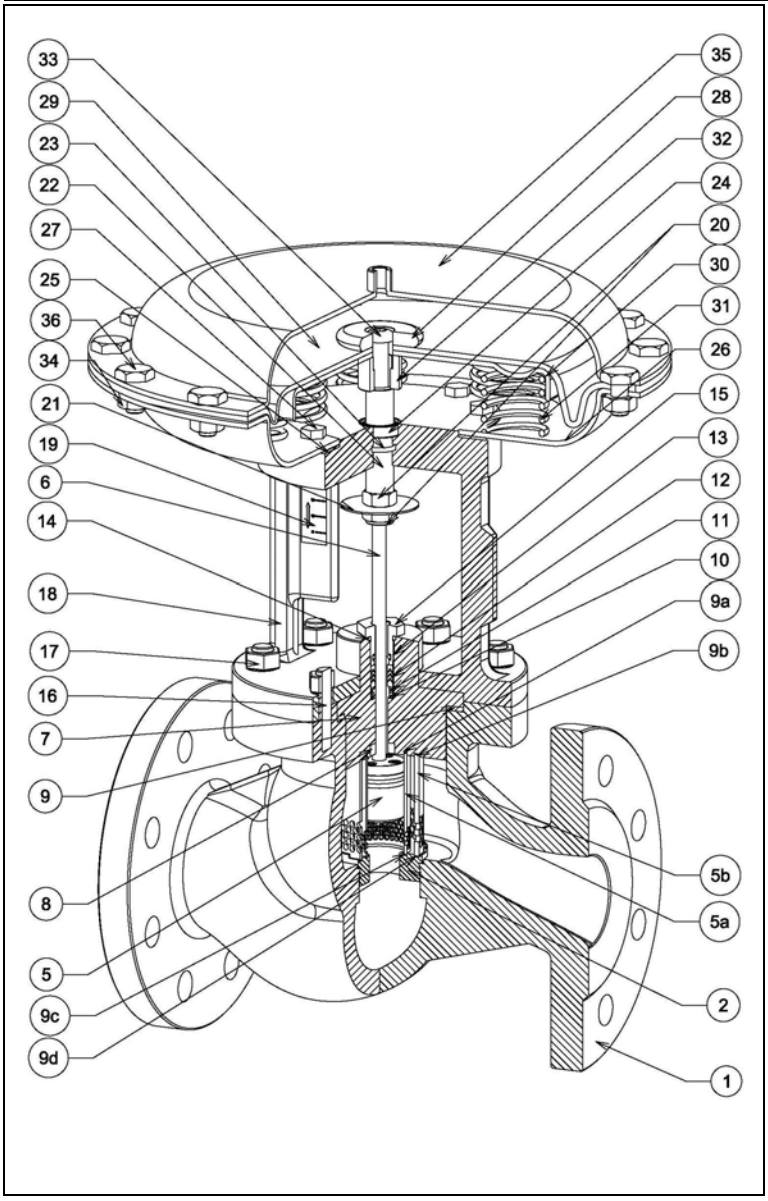
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	signal psi	DN 65 stroke 28	DN 80 stroke 28	DN 100 stroke 28
T310	3-15 psi	80	64	32
	6-30 psi	200	160	80
T400	3-15 psi	118	94	47
	6-30 psi	295	236	118
T500	3-15 psi	197	158	79
	6-30 psi	493	395	197

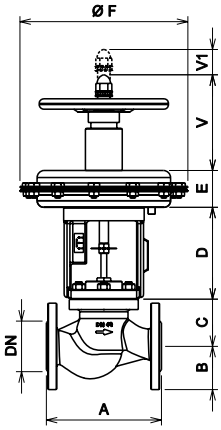
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi
4. **For the reduced passage valve consider the DELTA-PI given in the right column.**

COMPONENTS LIST AND MATERIALS



	COMPONENT LIST	MATERIALS
1.	Body	See note (1) at pag.1
2.	Seat	AISI 316 stainless steel
5.	Piston plug with sealing rings	AISI 316 st.st.+ n°2 rings EK 3245
5a	Internal Simple Cage	AISI 316 stainless steel
5b	External Double Cage	AISI 316 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1) (2)at pag.1
8.	Guide Bush	AISI 304
9.	Body gaskets	Europil WS 3640 or PTFE
9a.	Upper internal cage gasket	WS 3640/C-4500 or PTFE
9b.	Upper external cage gasket	WS 3640/C-4500 or PTFE
9c.	Lower internal cage gasket	WS 3640/C-4500 or PTFE
9d.	Lower external cage gasket	WS 3640/C-4500 or PTFE
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at pag.1
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Yoke	GGG50 spheroidal c. iron
19.	Travel indicator plate	Policarbonate
20.	Position indicator nuts	DIN 936 galvanized steel
21.	Position indicator	Aluminium
22.	Diaphragm rod	AISI 303 stainless steel
23.	“O” ring	NBR
24.	Airtight	NBR
25.	Yoke gasket	Cork – rubber
26.	Lower diaphragm casing	P11 steel
27.	Yoke locknuts	DIN 933 galvanized steel
28.	Diaphragm spacer	Galvanized steel
29.	Diaphragm	EPDM 70
30.	Diaphragm plate	P01 steel
31.	Springs	C98 UNI 3823
32.	Diaphragm bush	AISI 303 stainless steel
33.	Diaphragm locknut	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	DIN 934 galvanized steel
35.	Upper diaphragm casing	P11 steel
36.	Diaphragm casing locknuts	DIN 933 galvanized steel

DIMENSIONI in mm.

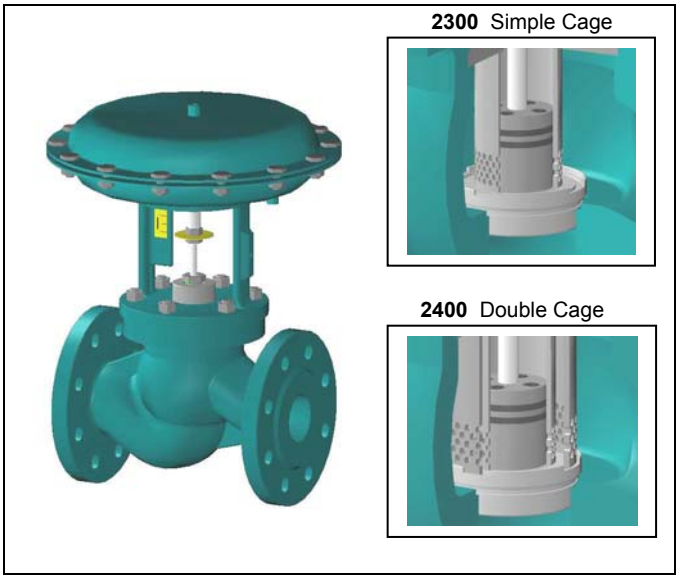


DN	Ø	A	B	C- Bonnet Std	C- Bonnet Finned	C- Bonnet Bellows	D	V	V1
65	2.1/2 “	290	92.5	111	309	309	160	166	28
80	3”	310	100	135	333	333	160	166	28
100	4”	350	118	160	363	363	204	166	28

Actuatora	E	Ø F
310	95	336
400	119	408
500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2300 AR Simple Cage

TYPE 2400 AR Double Cage

Normally close – air opens

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2300/2400 AR are equipped with EN "straight-through" pattern bodies with EN flanges.
Modulating balanced piston plug (low-noise), with high temperature sealing rings made of carbon graphite with antimony, self lapping, sliding in a sigle or double cage suitable for regulation of all type of media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-18 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 65 to DN 100

BODY CONNECT. : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :

- **SIMPLE CAGE** = linear balanced class IV°
- **RANGEABILITY DN 65/100** = 1/100

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-18 psi… 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- Diaphragm and Actuator sealing kit certified for ambient temperature ≤ -50 °C
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug	DN 65		DN 80		DN 100	
Full bore	Ø 2.1/2"		Ø 3"		Ø 4"	
CV	56.79		75.31		129.91	
KV	48.44		64.24		110.81	
CV	(Ø 2") *	40.82	(Ø 2.1/2")	56.79	(Ø 3")	75.31
KV	(Ø 2") *	34.82	(Ø 2.1/2")	48.44	(Ø 3")	64.24
CV	(Ø 1.1/2") *	24.15	(Ø 2") *	40.82	(Ø 2.1/2")	56.79
KV	(Ø 1.1/2") *	20.60	(Ø 2") *	34.82	(Ø 2.1/2")	48.44
CV	(Ø 1.1/4") *	16.77	(Ø 1.1/2") *	24.15	(Ø 2") *	40.82
KV	(Ø 1.1/4") *	14.30	(Ø 1.1/2") *	20.60	(Ø 2") *	34.82

* Integral plug version with simple cage only (see leaflet 2200AR/E)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

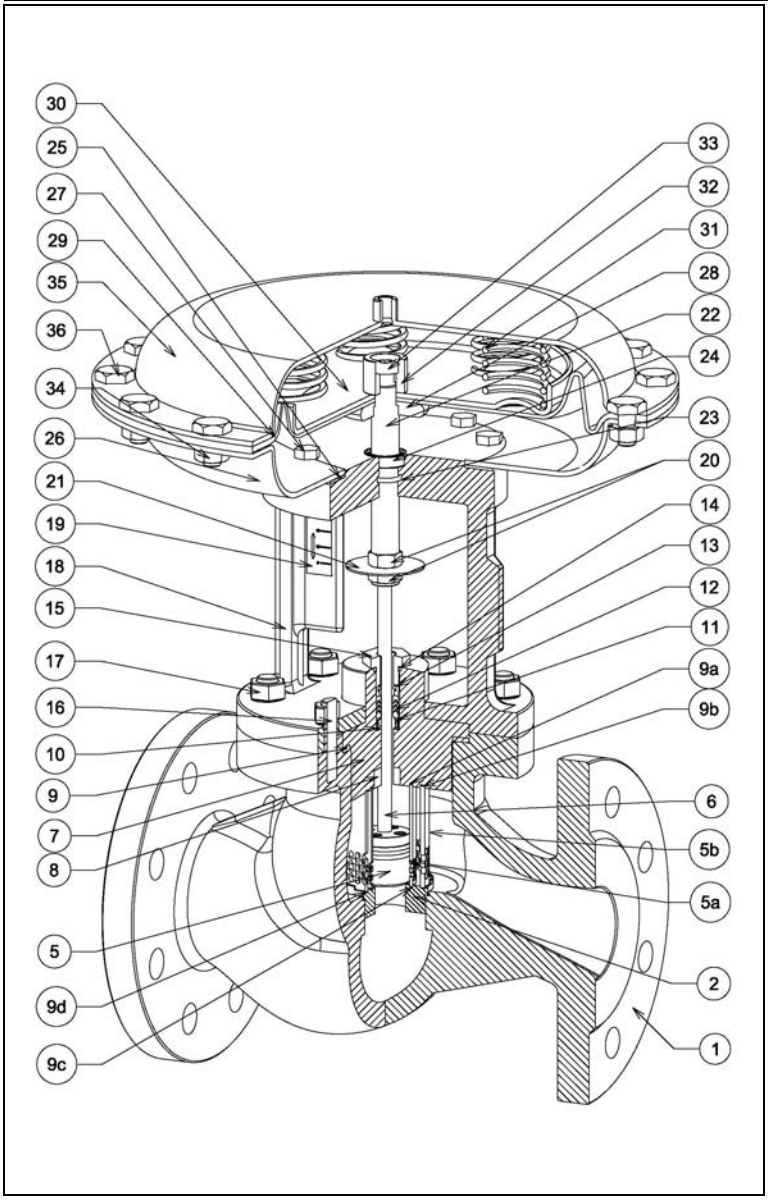
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

actuator type	signal psi	DN 65	DN 80	DN 100
		Stroke 28	Stroke 28	Stroke 28
T310	3-15 psi	26	21	10
	6-18 psi	53	42	21
	6-30 psi	80	64	32
T400	3-15 psi	39	31	15
	6-18 psi	78	63	31
	6-30 psi	177	141	70
T500	3-15 psi	65	52	26
	6-18 psi	131	105	52
	6-30 psi	329	263	131

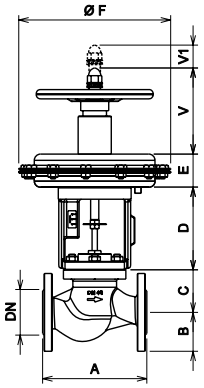
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi
4. **For the reduced passage valve consider the DELTA-PI given in the right column.**

COMPONENTS LIST AND MATERIALS



	COMPONENT LIST	MATERIALS
1.	Body	See note (1) at pag.1
2.	seat	AISI 316 stainless steel
5.	Piston plug with sealing rings	AISI 316 st.st.+ n°2 rings EK 3245
5a	Internal Simple Cage	AISI 316 stainless steel
5b	External Double Cage	AISI 316 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1) (2)at pag.1
8.	Guide bush	AISI 304
9.	Body gaskets	Europil WS 3640 or PTFE
9a.	Upper internal cage gasket	WS 3640/C-4500 or PTFE
9b.	Upper external cage gasket	WS 3640/C-4500 or PTFE
9c.	Lower internal cage gasket	WS 3640/C-4500 or PTFE
9d.	Lower external cage gasket	WS 3640/C-4500 or PTFE
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at pag.1
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Yoke	GGG50 spheroidal c. iron
19.	Travel indicator plate	Policarbonate
20.	Position indicator nuts	DIN 936 galvanized steel
21.	Position indicator	Aluminium
22.	Diaphragm rod	AISI 303 stainless steel
23.	“O” ring	NBR
24.	Airtight	NBR
25.	Yoke gasket	Cork – rubber
26.	Lower diaphragm casing	P11 steel
27.	Yoke locknuts	DIN 933 galvanized steel
28.	Diaphragm spacer	Galvanized steel
29.	Diaphragm	EPDM 70
30.	Diaphragm plate	P01 steel
31.	Springs	C98 UNI 3823
32.	Diaphragm bush	AISI 303 stainless steel
33.	Diaphragm locknut	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	DIN 934 galvanized steel
35.	Upper diaphragm casing	P11 steel
36.	Diaphragm casing locknuts	DIN 933 galvanized steel

DIMENSIONS in mm.

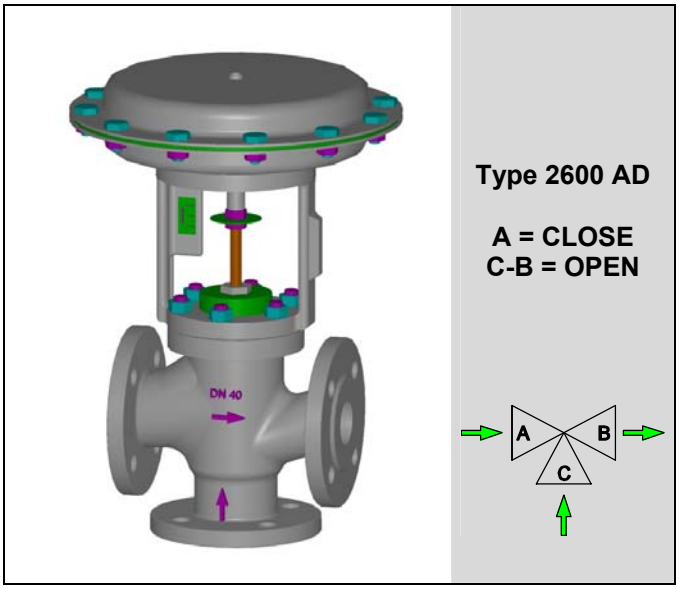


DN	Ø	A	B	C- Bonnet			D	V	V1
				Std	Finned	Bellows			
65	2.1/2 “	290	92.5	111	309	309	160	166	28
80	3”	310	100	135	333	333	160	166	28
100	4”	350	118	160	363	363	204	166	28

Actuator	E	Ø F
310	95	336
400	119	408
500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE-WAY MIXING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2600 AD

Normally closed port "A" on air failure

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2600 AD are equipped with EN "straight-through" pattern bodies with EN flanges.
Type 2600 AD three-way mixing control valves (two inlet ports and one outlet port with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **SG Iron DIN 1693 EN-GJS400-18LT (GGG 40.3)**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :

- **PL** (DN15-20) **LV** (DN25-100) = linear class IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	99.6	116.2	162.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	85.8	100.1	140
Reduced bore *		n.a.	1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

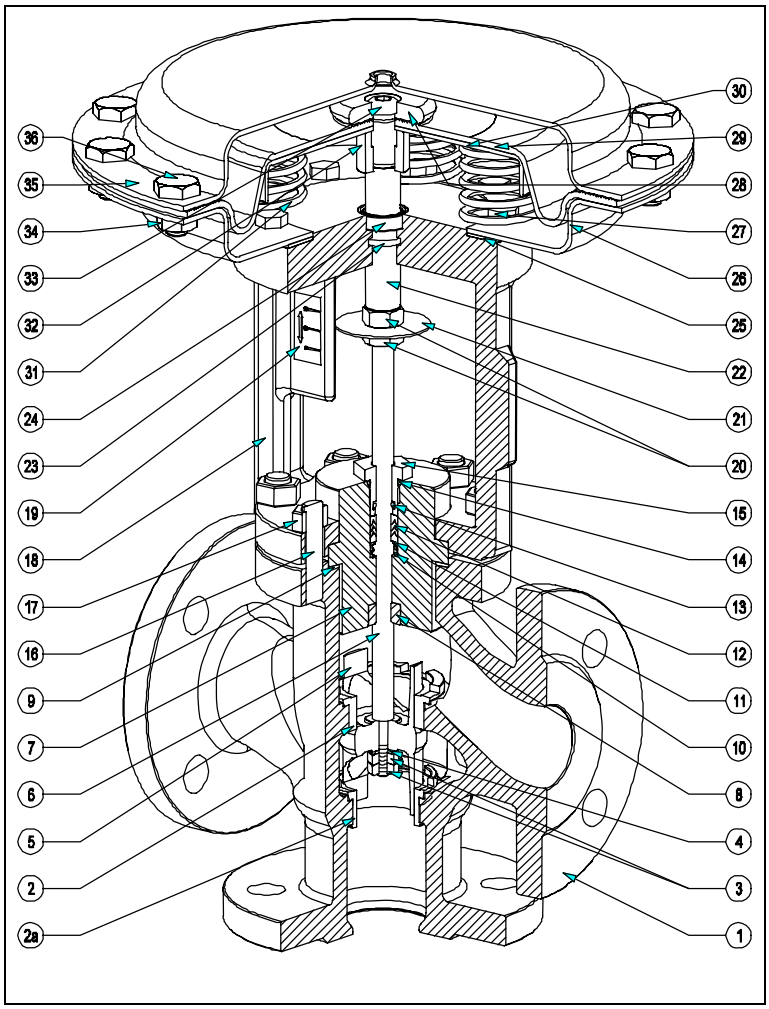
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 stroke 11	DN 20 stroke 11	DN 25 stroke 11	DN 32 stroke 19	DN 40 stroke 19	DN 50 stroke 19	DN 65 stroke 28	DN 80 stroke 28	DN 100 stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

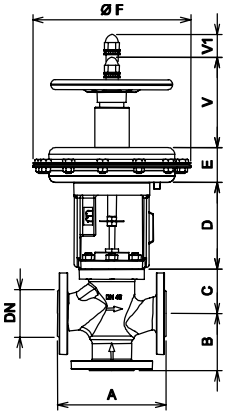
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See notes (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.

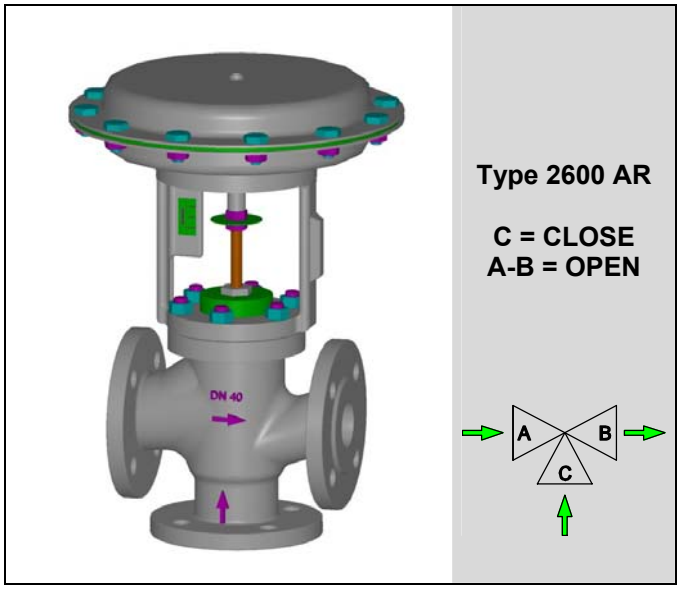


DN	Ø	A	B	C - Bonnet			D	V	V1
				Std	Finned	Bellows			
15	1/2 “	130	70	49	181	181	147	166	11
20	3/4 “	150	80	58	190	190	147	166	11
25	1 “	160	85	68	200	200	147	166	11
32	1.1/4 “	180	100	70	202	202	147	166	19
40	1.1/2 “	200	105	82	214	214	160	166	19
50	2 “	230	120	86	218	218	160	166	19
65	2.1/2 “	290	130	111	309	309	160	166	28
80	3 “	310	140	135	333	333	160	166	28
100	4“	350	150	160	363	363	204	166	28

Actuator	E	Ø F
T200	70	210
T250	70	292
T310	95	336
T400	119	408
T500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

THREE-WAY MIXING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2600 AR

Normally closed port "C" on air failure

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2600 AR are equipped with EN "straight-through" pattern bodies with EN flanges.
Type 2600 AR three-way mixing control valves (two inlet ports and one outlet port with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **SG iron DIN 1693 EN-GJS400-18LT (GGG40.3)**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :

- **PL** (DN15-20) **LV** (DN25-100) = linear class IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	99.6	116.2	162.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	85.8	100.1	140
Reduced bore *		n.a.	1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

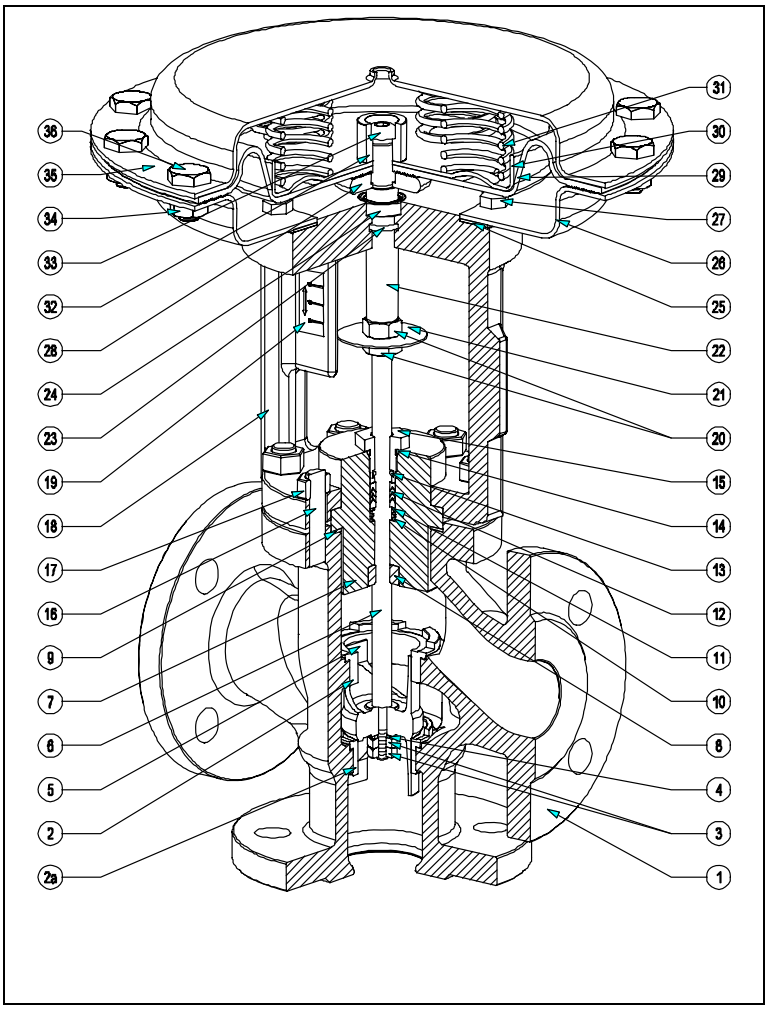
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 stroke 11	DN 20 stroke 11	DN 25 stroke 11	DN 32 stroke 19	DN 40 stroke 19	DN 50 stroke 19	DN 65 stroke 28	DN 80 stroke 28	DN 100 stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

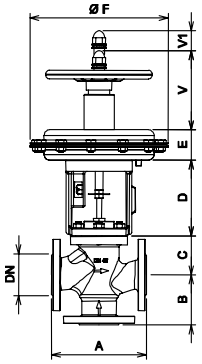
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See notes (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.

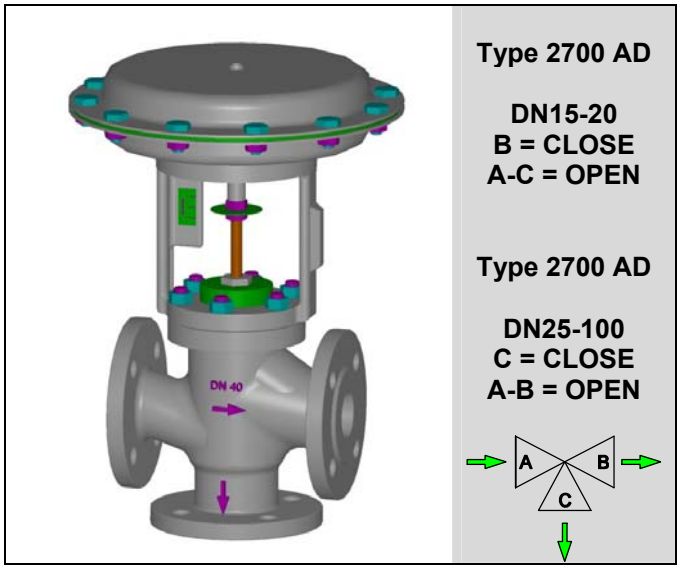


DN	Ø	A	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 “	130	70	49	181	181	147	166	11
20	3/4 “	150	80	58	190	190	147	166	11
25	1 “	160	85	68	200	200	147	166	11
32	1.1/4 “	180	100	70	202	202	147	166	19
40	1.1/2 “	200	105	82	214	214	160	166	19
50	2 “	230	120	86	218	218	160	166	19
65	2.1/2 “	290	130	111	309	309	160	166	28
80	3 “	310	140	135	333	333	160	166	28
100	4“	350	150	160	363	363	204	166	28

Actuator	E	Ø F
T200	70	210
T250	70	292
T310	95	336
T400	119	408
T500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

THREE-WAY DIVERTING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2700 AD

DN 15-20 : Normally closed port "B"
DN 25-100 : Normally closed port "C"

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2700 AD are equipped with EN "straight-through" pattern bodies with EN flanges.
Type 2700 AD three-way diverting control valves (one inlet port and two outlet ports with fluids opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **SG iron DIN 1693 EN-GJS400-18LT (GGG40.3)**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :

- **PL** (DN15-20) **LV** (DN25-100) = linear class IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	107.3	129.3	175.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	92.5	111.5	151.2
Reduced bore *		n.a.	1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

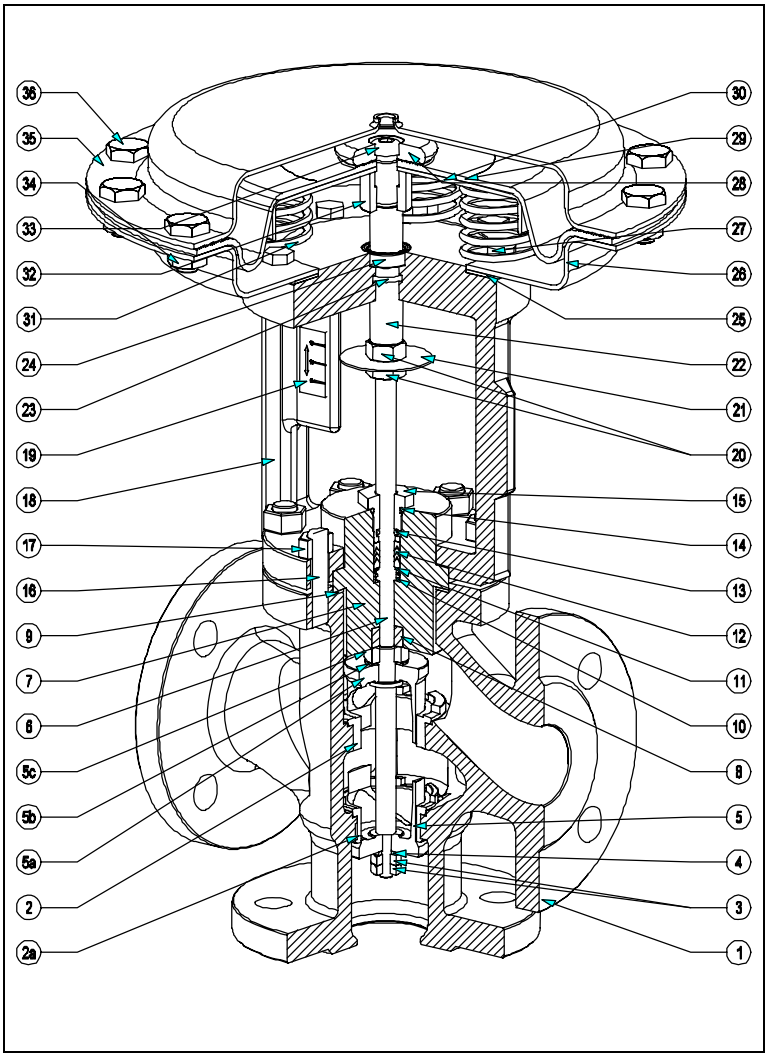
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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 Stroke 11	DN 20 Stroke 11	DN 25 Stroke 11	DN 32 Stroke 19	DN 40 Stroke 19	DN 50 Stroke 19	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

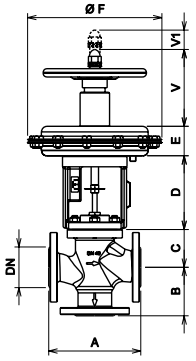
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



	COMPONENTS LIST	MATERIALS
1.	Body	See note (1) at page 1
2.	Upper seat	AISI 316 stainless steel
2a.	Lower seat	AISI 316 stainless steel
3.	Lower plug locknuts	AISI 304 stainless steel
4.	Lower spring washer	AISI 304 stainless steel
5.	Lower plug	AISI 316 stainless steel
5a.	Upper plug	AISI 316 stainless steel
5b.	Upper spring washer	AISI 304 stainless steel
5c.	Upper plug locknuts	AISI 304 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1)-(2) at page 1
8.	Guide bush	AISI 304 stainless steel
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at page 1
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Yoke	GGG50 spheroidal c. iron
19.	Travel indicator plate	Policarbonate
20.	Position indicator locknuts	DIN 936 galvanized steel
21.	Position indicator	Aluminium
22.	Diaphragm rod	AISI 303 stainless steel
23.	“O” ring	NBR
24.	Airtight	NBR
25.	Yoke gasket	Cork – rubber
26.	Lower diaphragm casing	P11 steel
27.	Lower diaphragm casing internal bolts	DIN 933 galvanized steel
28.	Diaphragm spacer	Galvanized steel
29.	Diaphragm	EPDM 70
30.	Diaphragm plate	P01 steel
31.	Springs	C98 UNI 3823
32.	Diaphragm bush	AISI 303 stainless steel
33.	Diaphragm locknut	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	DIN 934 galvanized steel
35.	Upper diaphragm casing	P11 steel
36.	Diaphragm casing locknuts	DIN 933 galvanized steel

DIMENSIONS in mm.

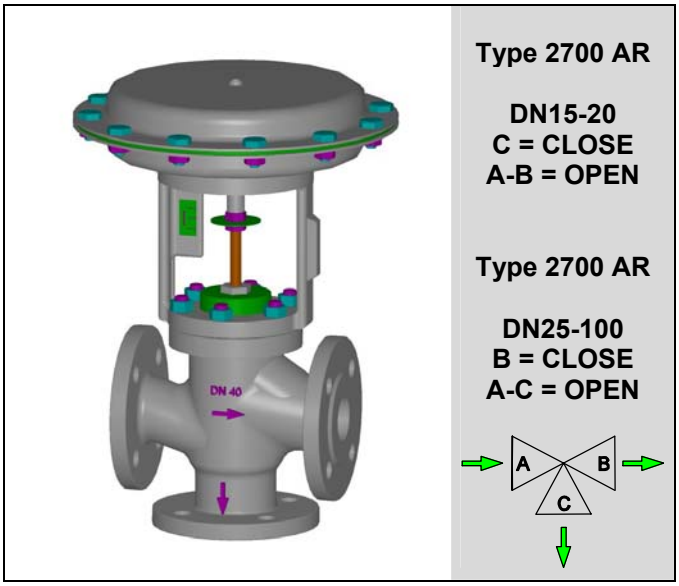


DN	Ø	A	B	C - Bonnet Std	C - Bonnet Finned.	C - Bonnet Bellows	D	V	V1
15	1/2 “	130	70	49	181	181	147	166	11
20	3/4 “	150	80	58	190	190	147	166	11
25	1 “	160	85	68	200	200	147	166	11
32	1.1/4 “	180	100	70	202	202	147	166	19
40	1.1/2 “	200	105	82	214	214	160	166	19
50	2 “	230	120	86	218	218	160	166	19
65	2.1/2 “	290	130	111	309	309	160	166	28
80	3 “	310	140	135	333	333	160	166	28
100	4“	350	150	160	363	363	204	166	28

Actuator	E	Ø F
T200	70	210
T250	70	292
T310	95	336
T400	119	408
T500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

THREE-WAY DIVERTING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2700 AR

DN15-20 : Normally closed port "C"
DN25-100 : Normally closed port "B"

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2700 AR are equipped with EN "straight-through" pattern bodies with EN flanges.
Type 2700 AR three-way diverting control valves (one inlet port and two outlet ports with fluids opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **SG iron DIN 1693 EN-GJS400-18LT (GGG 40.3)**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :

- **PL** (DN15-20) **LV** (DN25-100) = linear class IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet
-
-

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	107.3	129.3	175.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	92.5	111.5	151.2
Reduced bore *		n.a.	1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

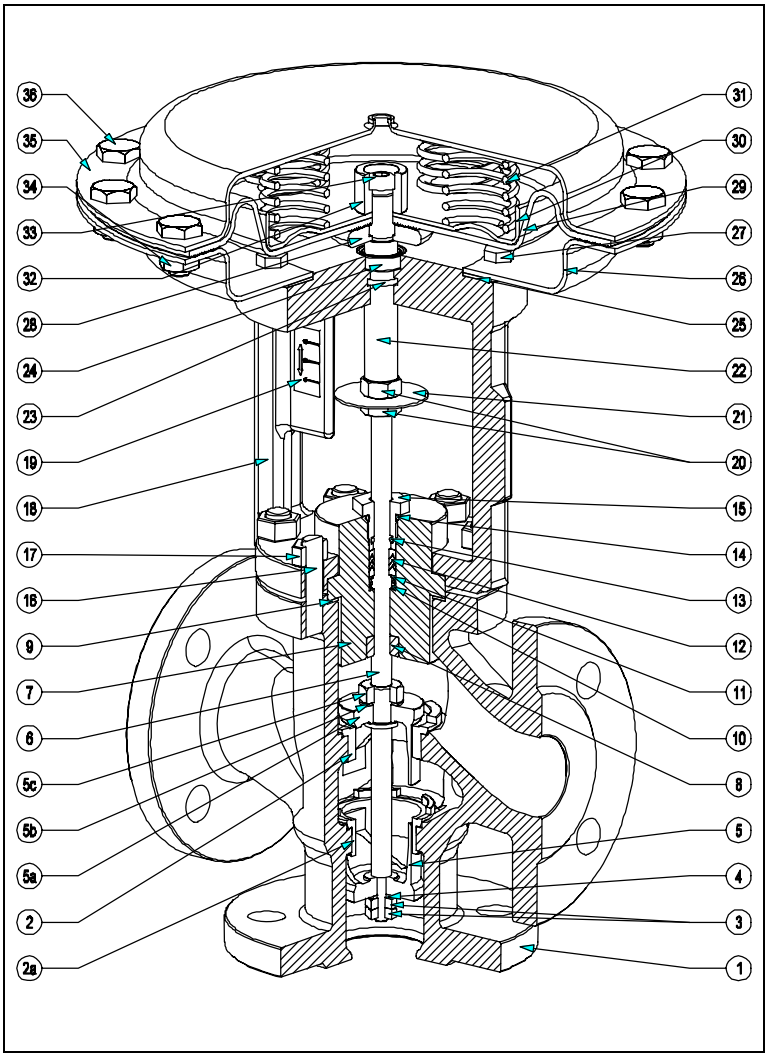
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Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 Stroke 11	DN 20 Stroke 11	DN 25 Stroke 11	DN 32 Stroke 19	DN 40 Stroke 19	DN 50 Stroke 19	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

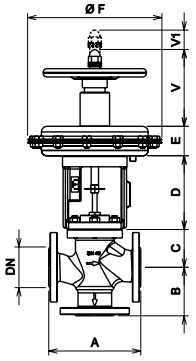
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



	COMPONENTS LIST	MATERIALS
1.	Body	See note (1) at page 1
2.	Upper seat	AISI 316 stainless steel
2a.	Lower seat	AISI 316 stainless steel
3.	Lower plug locknuts	AISI 304 stainless steel
4.	Lower spring washer	AISI 304 stainless steel
5.	Lower plug	AISI 316 stainless steel
5a.	Upper plug	AISI 316 stainless steel
5b.	Upper spring washer	AISI 304 stainless steel
5c.	Upper plug locknuts	AISI 304 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1)-(2) at page 1
8.	Guide bush	AISI 304 stainless steel
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at page 1
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Yoke	GGG50 spheroidal c. iron
19.	Travel indicator plate	Policarbonate
20.	Position indicator locknuts	DIN 936 galvanized steel
21.	Position indicator	Aluminium
22.	Diaphragm rod	AISI 303 stainless steel
23.	“O” ring	NBR
24.	Airtight	NBR
25.	Yoke gasket	Cork – rubber
26.	Lower diaphragm casing	P11 steel
27.	Lower diaphragm casing internal bolts	DIN 933 galvanized steel
28.	Diaphragm spacer	Galvanized steel
29.	Diaphragm	EPDM 70
30.	Diaphragm plate	P01 steel
31.	Springs	C98 UNI 3823
32.	Diaphragm bush	AISI 303 stainless steel
33.	Diaphragm locknut	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	DIN 934 galvanized steel
35.	Upper diaphragm casing	P11 steel
36.	Diaphragm casing locknuts	DIN 933 galvanized steel

DIMENSIONS in mm.

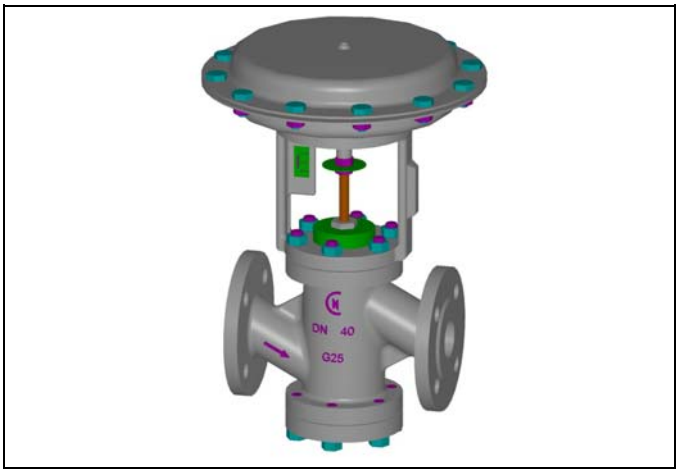


DN	Ø	A	B	C - Bonnet Std	C - Bonnet Finned.	C - Bonnet Bellows	D	V	V1
15	1/2 “	130	70	49	181	181	147	166	11
20	3/4 “	150	80	58	190	190	147	166	11
25	1 “	160	85	68	200	200	147	166	11
32	1.1/4 “	180	100	70	202	202	147	166	19
40	1.1/2 “	200	105	82	214	214	160	166	19
50	2 “	230	120	86	218	218	160	166	19
65	2.1/2 “	290	130	111	309	309	160	166	28
80	3 “	310	140	135	333	333	160	166	28
100	4“	350	150	160	363	363	204	166	28

Actuator.	E	Ø F
T200	70	210
T250	70	292
T310	95	336
T400	119	408
T500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5000 AD DN 15/100

Normally open – air closes

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5000 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :
- **EQP** (DN15-50) **EQV** (DN65-100) = equal % class IV°
- **PL** (DN15-50) **LV** (DN65-100) = linear class IV°
- **PT** (DN15-50) **VPT** (DN65-100) = quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN15 Ø 1/2"	DN 20 Ø 3/4"	DN25 Ø 1"	DN32 Ø 1.1/4"	DN40 Ø 1.1/2"	DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"	DN100 Ø 4"
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
	KV	2.9	5.7	9.3	14.7	20.5	43	60.5	75.2	102.1
PL	CV	3.4	6.6	11.2	17.6	23.9	51.2	72.7	89.3	123.8
	KV	2.9	5.7	9.6	15.2	20.6	44	62.7	77	106.7
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2
Reduced bore *		•	• ½"	½" ¾"	¾" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

• DN 15-20	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear..MFS = Equal percentage * CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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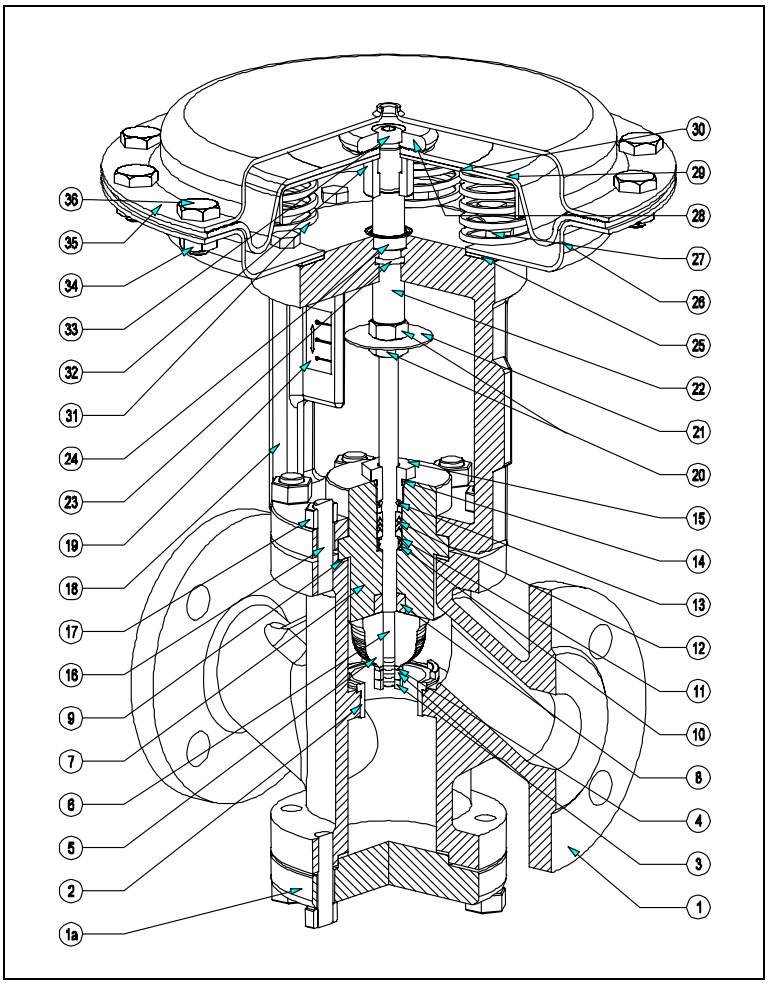
Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN15 Stroke 11	DN20 Stroke 11	DN25 Stroke 11	DN32 Stroke 19	DN40 Stroke 19	DN50 Stroke 19	DN65 Stroke 28	DN80 Stroke 28	DN100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-30 psi	52	32	18	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-30 psi	113	69	39	25	17	10	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-30 psi	-	-	63	41	28	16	10	7	4
T400	3-15 psi	-	-	-	14.5	10.5	5.5	3.8	2.5	1.4
	6-30 psi	-	-	-	60	42	24	15	10.5	5.9
T500	3-15 psi	-	-	-	24.5	17.5	9.5	6.2	4.2	2.4
	6-30 psi	-	-	-	101	70	40	25.3	17.5	9.9

T200 DN15-20 Microflow	Signal	MFP 1/8 "	MFP 3/16 "	MFP 1/4 "	MFP 3/8 "	MFS1SG 1/4 "	MFS2SG 1/4 "	MFS1SG 3/8 "	MFS2SG 3/8 "
	3-15 psi	200	90	50	30	50	50	30	30
	6-30 psi	1080	470	270	130	270	270	130	130

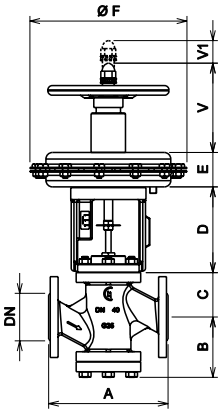
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi
4. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Bottom flange	1a. C40 carbon steel
2. Seat	2. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal "O" ring	13. Viton FPM 70
14. External "O" ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. "O" ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



DN	Ø	A(1)	A(2)	B	C – Bonnet Std	C – Bonnet Finned	C – Bonnet Bellows	D	V	V1
15	1/2 "	184	190	67	49	181	181	147	166	11
20	3/4 "	184	194	67	58	190	190	147	166	11
25	1 "	184	197	90	68	200	200	147	166	11
32	1.1/4 "	200	212	92	70	202	202	147	166	19
40	1.1/2 "	222	235	108	82	214	214	160	166	19
50	2 "	254	267	108	86	218	218	160	166	19
65	2.1/2 "	276	292	148	111	309	309	160	166	28
80	3 "	298	317	148	135	333	333	160	166	28
100	4 "	352	368	176	160	363	363	204	166	28

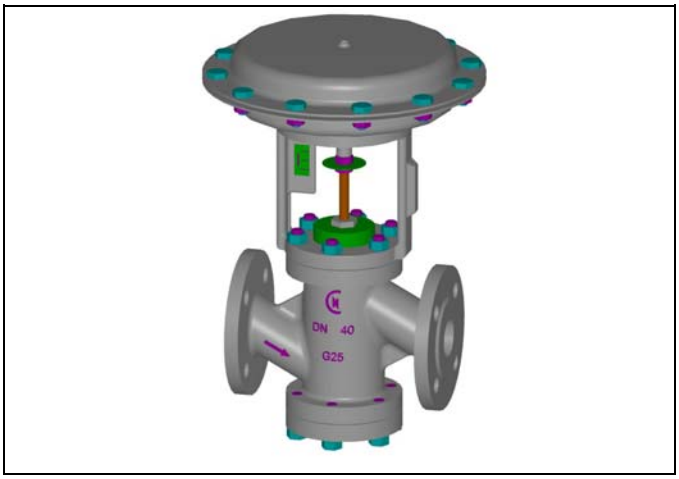
Actuator	E	Ø F
200	70	210
250	70	292
310	95	336
400	119	408
500	119	520

A(1) cast iron = PN16 – ANSI150 – JIS10K
A(2) carbon and st. steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series PNEUMATIC VALVES

SINGLE SEAT TWO WAY CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5000 AR DN 15/100

Normally closed – air opens

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5000 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi ... 6-18 psi ... 6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :
- **EQP** (DN15-50) **EQV** (DN65-100) = equal % class IV°
- **PL** (DN15-50) **LV** (DN65-100) = linear class IV°
- **PT** (DN15-50) **VPT** (DN65-100) = quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN15 Ø 1/2"	DN 20 Ø 3/4"	DN25 Ø 1"	DN32 Ø 1.1/4"	DN40 Ø 1.1/2"	DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"	DN100 Ø 4"
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
	KV	2.9	5.7	9.3	14.7	20.5	43	60.5	75.2	102.1
PL	CV	3.4	6.6	11.2	17.6	23.9	51.2	72.7	89.3	123.8
	KV	2.9	5.7	9.6	15.2	20.6	44	62.7	77	106.7
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2
Reduced bore *		•	• ½"	½" ¾"	¾" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

• DN 15-20	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear..MFS = Equal percentage * CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL/LV only)

CONFLOW s.p.a.
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

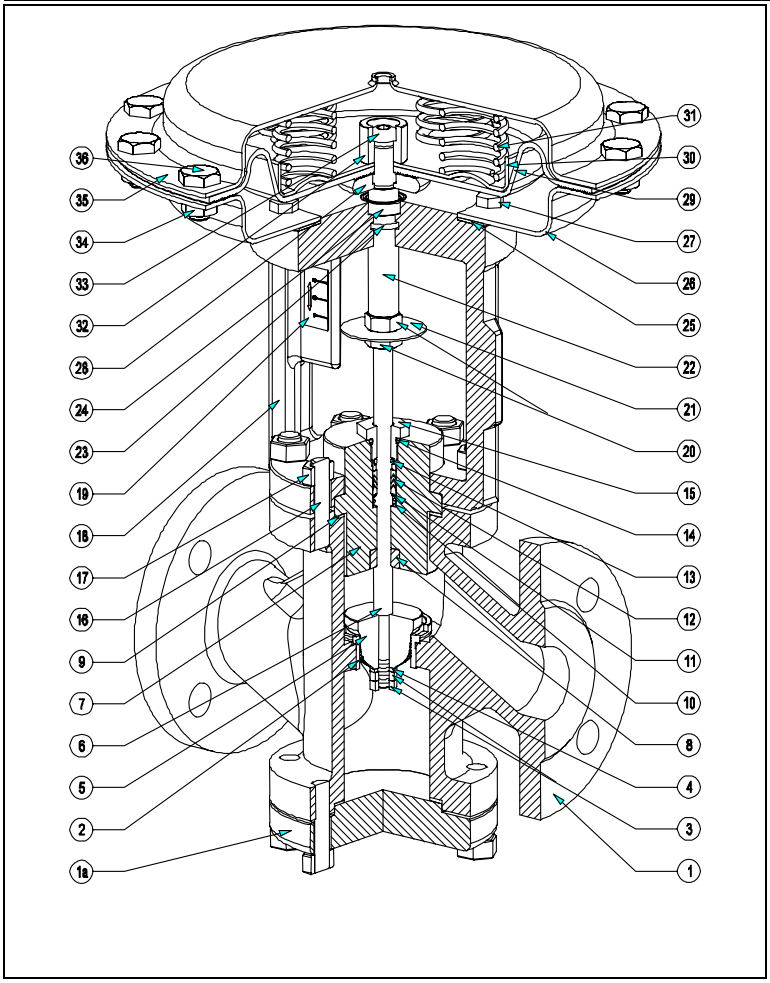
Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm Signals in psi

Actuator type	Signal psi	DN15 Stroke 11	DN20 Stroke 11	DN25 Stroke 11	DN32 Stroke 19	DN40 Stroke 19	DN50 Stroke 19	DN65 Stroke 28	DN80 Stroke 28	DN100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

T200 DN15-20 Microflow	Signal	MFP 1/8 "	MFP 3/16 "	MFP 1/4 "	MFP 3/8 "	MFS1SG 1/4 "	MFS2SG 1/4 "	MFS1SG 3/8 "	MFS2SG 3/8 "
	3-15 psi	200	90	50	30	50	50	30	30
	6-18 psi	400	180	100	60	100	100	60	60
	6-30 psi	1300	580	340	160	340	340	160	160

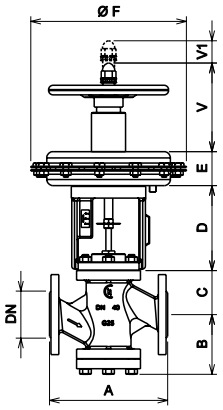
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONETS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Bottom flange	1a. C40 carbon steel
2. Seat	2. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal "O" ring	13. Viton FPM 70
14. External "O" ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. "O" ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 "	184	190	67	49	181	181	147	166	11
20	3/4 "	184	194	67	58	190	190	147	166	11
25	1 "	184	197	90	68	200	200	147	166	11
32	1.1/4 "	200	212	92	70	202	202	147	166	19
40	1.1/2 "	222	235	108	82	214	214	160	166	19
50	2 "	254	267	108	86	218	218	160	166	19
65	2.1/2 "	276	292	148	111	309	309	160	166	28
80	3 "	298	317	148	135	333	333	160	166	28
100	4 "	352	368	176	160	363	363	204	166	28

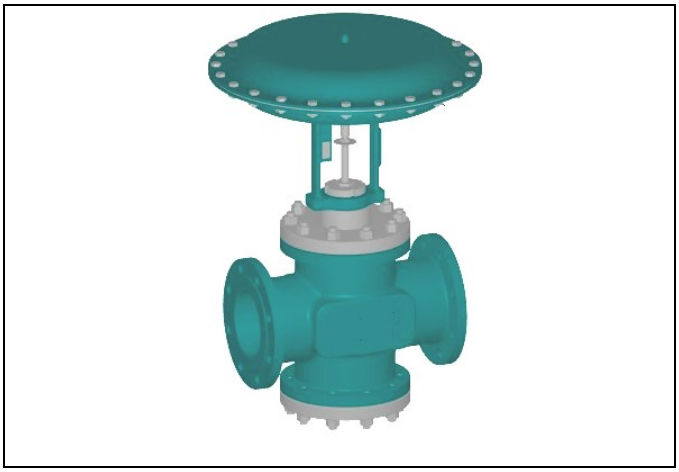
Actuator	E	Ø F
200	70	210
250	70	292
310	95	336
400	119	408
500	119	520

A(1) cast iron = PN16–ANSI150–JIS10K A(2) carbon and st. steel = PN16–PN40–ANSI150–ANSI300–JIS10K–JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series PNEUMATIC VALVES

SINGLE SEAT TWO WAY CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5000 AD DN 125/200

Normally open – air closes

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5000 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :
- **EQV** = equal % class IV°
- **LV** = linear class IV°
- **VPT** = quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN125 Ø 5"		DN150 Ø 6"		DN200 Ø 8"	
EQV	CV	234.5		326.1		538	
	KV	202.1		281.1		463.7	
LV	CV	319.1		391.3		624.5	
	KV	275		337.3		538.3	
VPT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore *		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

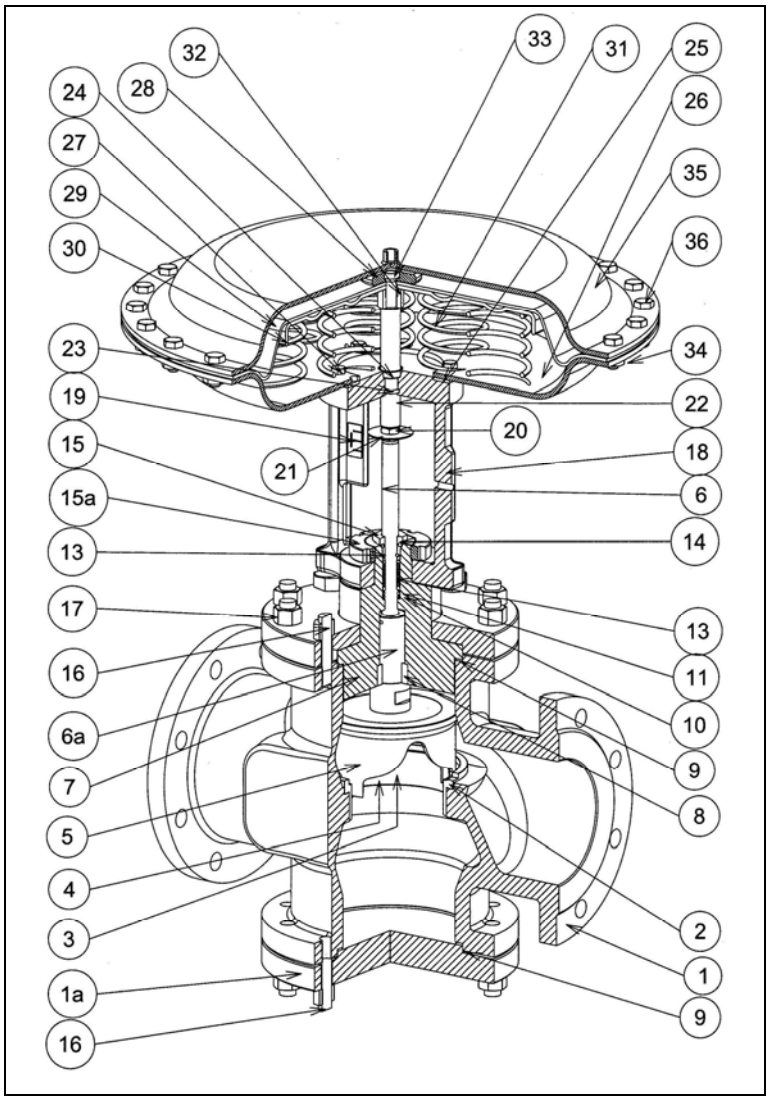
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN125	DN150	DN200
		Stroke 50	Stroke 50	Stroke 50
T400	3-15 psi	0.9	0.65	0.35
	6-30 psi	3.8	2.6	1.5
T500	3-15 psi	1.55	1.1	0.95
	6-30 psi	6.4	4.5	2.5

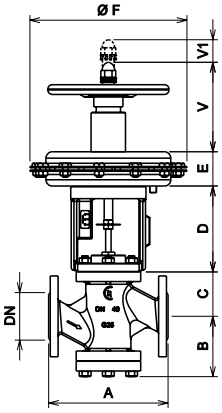
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi
4. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Bottom flange	1a. C40 carbon steel
2. Seat	2. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
6a . Stem joint	6a . AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
15a . Yoke adjusting nut	15a . Steel Class 6
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



DN	Ø	A(1)	A(2)	B	C – Bonnet			D	V	V1
					Std	Finned	Bellows			
125	5 “	403	425	223	252	435	435	213	166	50
150	6 “	450	473	229	258	442	442	213	166	50
200	8 “	543	568	254	283	465	465	213	166	50

Actuator	E	Ø F
400	119	408
500	119	520

A(1) cast iron = PN16 – ANSI150 – JIS10K
A(2) carbon and st. steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series PNEUMATIC VALVES

SINGLE SEAT TWO WAY CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5000 AR DN 125/200

Normally closed – air opens

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5000 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi ... 6-18 psi ... 6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :
- **EQV** = equal % class IV°
- **LV** = linear class IV°
- **VPT** = quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)
Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN125 Ø 5"		DN150 Ø 6"		DN200 Ø 8"	
EQV	CV	234.5		326.1		538	
	KV	202.1		281.1		463.7	
LV	CV	319.1		391.3		624.5	
	KV	275		337.3		538.3	
VPT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore *		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type

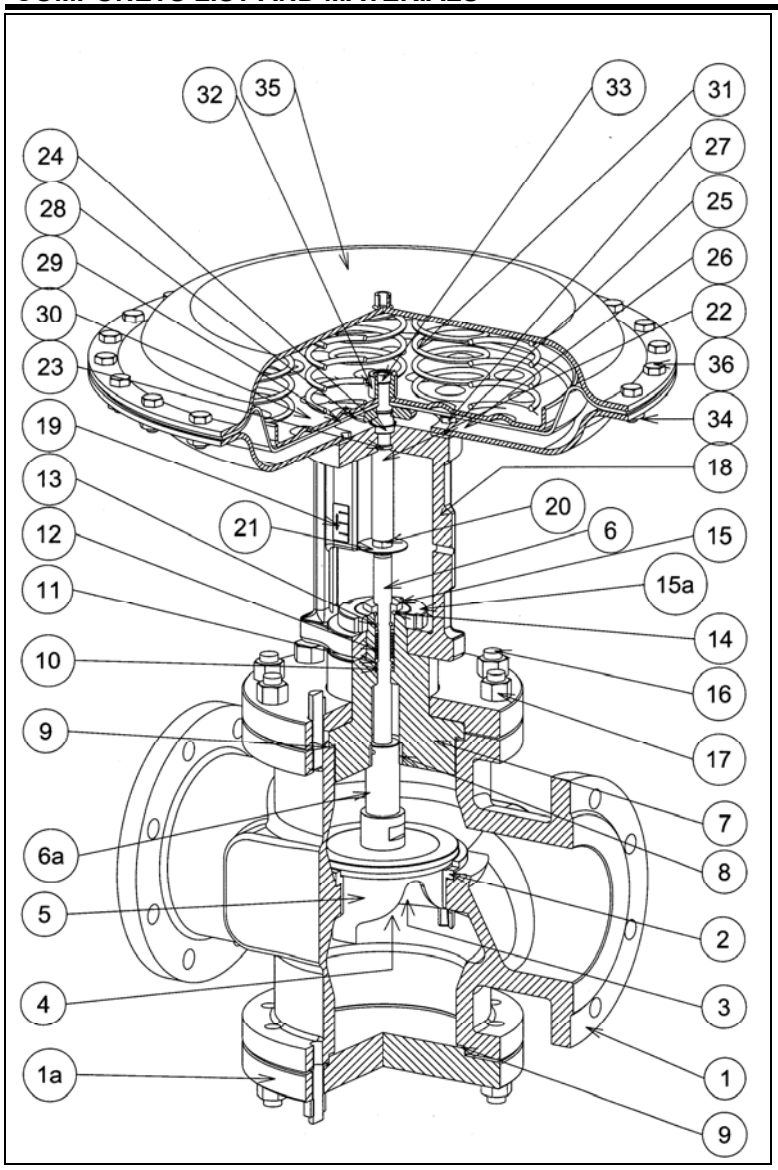
CONFLOW s.p.a.
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm Signals in psi

Actuator type	Signal psi	DN125 Stroke 50	DN150 Stroke 50	DN200 Stroke 50
T400	3-15 psi	0.9	0.65	0.35
	6-18 psi	1.85	1.3	1.05
	6-30 psi	4.5	3.2	1.8
T500	3-15 psi	1.55	1.1	0.95
	6-18 psi	3.1	2.2	1.25
	6-30 psi	5.5	4	2.2

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONETS LIST AND MATERIALS



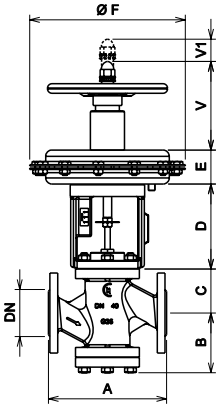
COMPONENTS LIST

1. Body
1a. Bottom flange
2. Seat
3. Plug locknuts
4. Spring washer
5. Plug
6. Stem
6a . Stem joint
7. Bonnet
8. Guide bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal “O” ring
14. External “O” ring
15. Packing adjusting nut
15a . Yoke adjusting nut
16. Stud-bolts
17. Body locknuts
18. Yoke
19. Travel indicator plate
20. Position indicator locknuts
21. Position indicator
22. Diaphragm rod
23. “O” ring
24. Airtight
25. Yoke gasket
26. Lower diaphragm casing
27. Lower diaphragm casing internal bolts
28. Diaphragm spacer
29. Diaphragm
30. Diaphragm plate
31. Springs
32. Diaphragm bush
33. Diaphragm locknut
34. Diaphragm casing bolts
35. Upper diaphragm casing
36. Diaphragm casing locknuts

MATERIALS

1. See note (1) at page 1
1a. C40 carbon steel
2. AISI 316 stainless steel
3. AISI 304 stainless steel
4. AISI 304 stainless steel
5. AISI 316 stainless steel
6. AISI 316 stainless steel
6a . AISI 316 stainless steel
7. See note (1)-(2) at page 1
8. AISI 304 stainless steel
9. Europil WS 3640 or PTFE
10. AISI 302 stainless steel
11. AISI 304 stainless steel
12. See note (3) at page 1
13. Viton FPM 70
14. Viton FPM 70
15. AISI 303 stainless steel
15a . Steel Class 6
16. Galvanized steel
17. DIN 934 galvanized steel
18. GGG50 spheroidal c. iron
19. Policarbonate
20. DIN 936 galvanized steel
21. Aluminium
22. AISI 303 stainless steel
23. NBR
24. NBR
25. Cork – rubber
26. P11 steel
27. DIN 933 galvanized steel
28. Galvanized steel
29. EPDM 70
30. P01 steel
31. C98 UNI 3823
32. AISI 303 stainless steel
33. ISO 7380 galvanized steel
34. DIN 934 galvanized steel
35. P11 steel
36. DIN 933 galvanized steel

DIMENSIONS in mm.



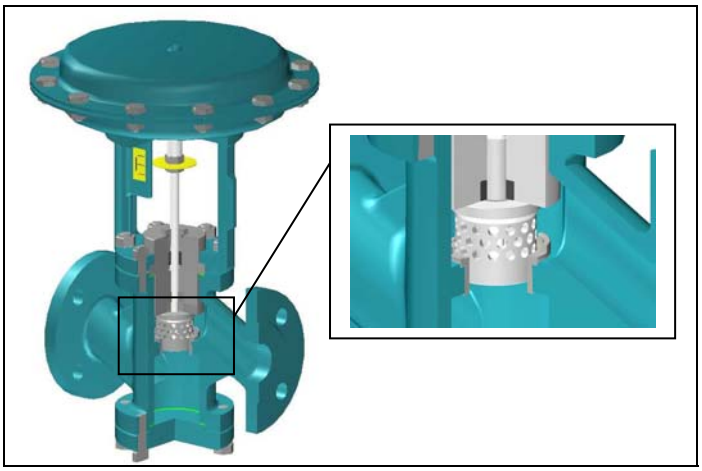
DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
125	5 “	403	425	223	252	435	435	213	166	50
150	6 “	450	473	229	258	442	442	213	166	50
200	8 “	543	568	254	283	465	465	213	166	50

Actuator	E	Ø F
400	144	408
500	144	520

A(1) cast iron = PN16–ANSI150–JIS10K A(2) carbon and st. steel = PN16–PN40–ANSI150–ANSI300–JIS10K–JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5200 AD Simple Cage
Normally open – air closes
Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5200 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating integral cage plug (low-noise) for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 50

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN 16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 PN 16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :
- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN 15/25** = 1/75
- **RANGEABILITY DN 32/50** = 1/160

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C °C *see on request
- Actuator casings material : Fe P11
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)
Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full Bore	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
	Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"
CV	3,13	5,11	9,68	16,77	24,15	40,82
KV	2,67	4,36	8,26	14,30	20,60	34,82
CV		(Ø 1/2") 3,13	(Ø 3/4") 5,11	(Ø 1") 9,68	(Ø 1.1/4") 16,77	(Ø 1.1/2") 24,15
KV		(Ø 1/2") 2,67	(Ø 3/4") 4,36	(Ø 1") 8,26	(Ø 1.1/4") 14,30	(Ø 1.1/2") 20,60
CV			(Ø 1/2") 3,13	(Ø 3/4") 5,11	(Ø 1") 9,68	(Ø 1.1/4") 16,77
KV			(Ø 1/2") 2,67	(Ø 3/4") 4,36	(Ø 1") 8,26	(Ø 1.1/4") 14,30
CV				(Ø 1/2") 3,13	(Ø 3/4") 5,11	(Ø 1") 9,68
KV				(Ø 1/2") 2,67	(Ø 3/4") 4,36	(Ø 1") 8,26
CV					(Ø 1/2") 3,13	(Ø 3/4") 5,11
KV					(Ø 1/2") 2,67	(Ø 3/4") 4,36
CV						(Ø 1/2") 3,13
KV						(Ø 1/2") 2,67

Microflow passage From DN 15 to DN 25 (on request)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

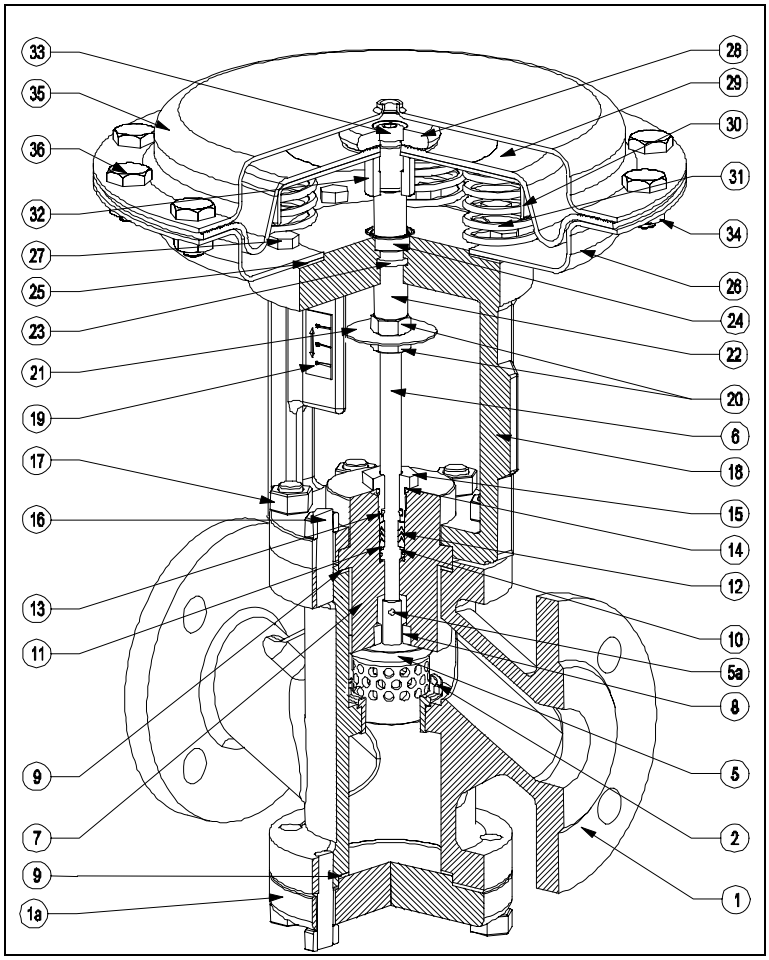
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 stroke 11	DN 20 stroke 11	DN 25 stroke 11	DN 32 stroke 19	DN 40 stroke 19	DN 50 stroke 19
T200	3-15 psi	12	8	5	3	-	-
	6-30 psi	52	32	18	11	-	-
T250	3-15 psi	27	17	9	6	4	2,4
	6-30 psi	113	69	39	25	17	10
T310	3-15 psi	-	-	15,5	10	7	3,5
	6-30 psi	-	-	63	41	28	16
T400	3-15 psi	-	-	-	14,5	10,5	5,5
	6-30 psi	-	-	-	60	42	24
T500	3-15 psi	-	-	-	24,5	17,5	9,5
	6-30 psi	-	-	-	101	70	40

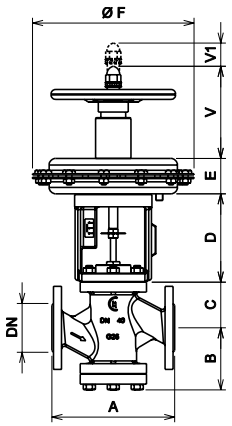
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi
4. **For the reduced passage valve consider the DELTA-PI given in the right column.**

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Bottom flange	1a. C40 carbon steel
2. Seat	2. AISI 316 stainless steel
5. Cage plug	5. AISI 316 stainless steel
5a. Pin	5a. Carbon steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



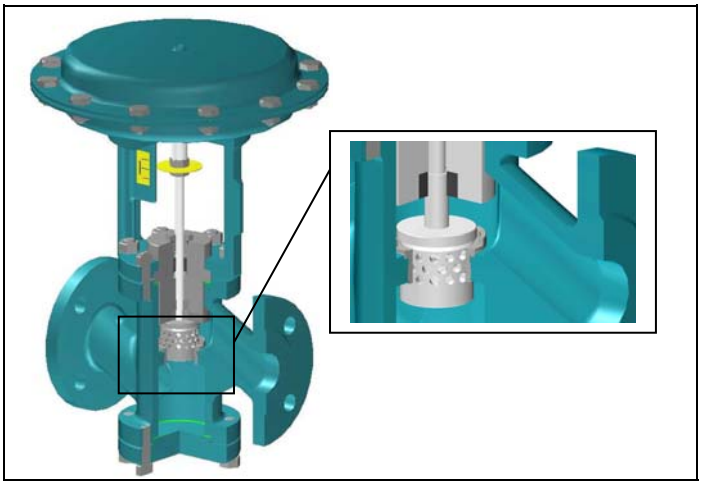
DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 “	184	190	67	49	181	181	147	166	11
20	3/4 “	184	194	67	58	190	190	147	166	11
25	1 “	184	197	90	68	200	200	147	166	11
32	1.1/4 “	200	212	92	70	202	202	147	166	19
40	1.1/2 “	222	234	108	82	214	214	160	166	19
50	2 “	254	266	108	86	218	218	160	166	19

Actuator	E	Ø F
T200	70	210
T250	70	292
T300	95	336
T400	119	408
T500	119	520

A(1) ghisa = PN16 – ANSI150 – JIS10K A(2) acciai = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5200 AR Simple Cage
Normally close – air opens
Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5200 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating integral cage plug (low-noise) for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-18 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 50

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN 16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 PN 16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :
- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN 15/25** = 175
- **RANGEABILITY DN 32/50** = 1/160

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C
  to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi …6-18 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)
Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full Bore	DN 15	DN 20		DN 25		DN 32		DN 40		DN 50	
	Ø 1/2"	Ø 3/4"		Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"	
CV	3,13	5,11		9,68		16,77		24,15		40,82	
KV	2,67	4,36		8,26		14,30		20,60		34,82	
CV		(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77	(Ø 1.1/2")	24,15
KV		(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30	(Ø 1.1/2")	20,60
CV				(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77
KV				(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30
CV						(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68
KV						(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26
CV								(Ø 1/2")	3,13	(Ø 3/4")	5,11
KV								(Ø 1/2")	2,67	(Ø 3/4")	4,36
CV										(Ø 1/2")	3,13
KV										(Ø 1/2")	2,67

Microflow passage
From DN 15 to DN 25
(on request)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

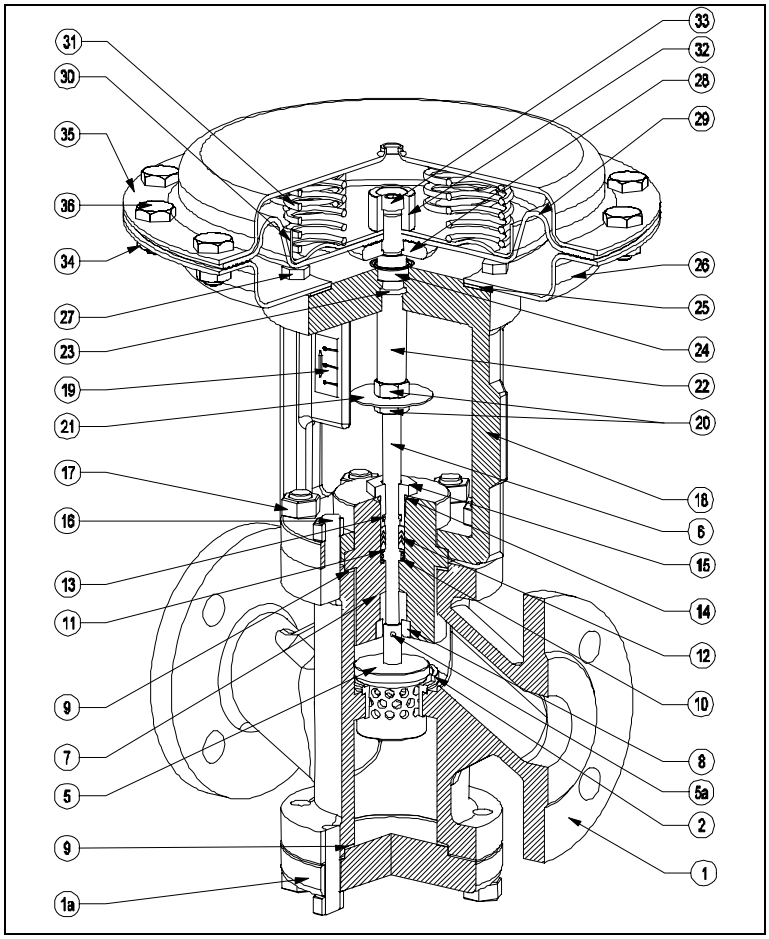
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Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 15 stroke 11	DN 20 stroke 11	DN 25 stroke 11	DN 32 stroke 19	DN 40 stroke 19	DN 50 stroke 19
T200	3-15 psi	12	8	5	3	-	-
	6-18 psi	25	16	9	5.2	-	-
	6-30 psi	65	40	22	11	-	-
T250	3-15 psi	27	17	9	6	4	2.4
	6-18 psi	55	34	19	12	8	3
	6-30 psi	110	68	38	20	14.5	7
T310	3-15 psi	-	-	15.5	10	7	3.5
	6-18 psi	-	-	31	20	14	7
	6-30 psi	-	-	62	30	21	12
T400	3-15 psi	-	-	-	14.5	10.5	5
	6-18 psi	-	-	-	29.5	20.5	12
	6-30 psi	-	-	-	45	31.5	18
T500	3-15 psi	-	-	-	24.5	17.5	9.5
	6-18 psi	-	-	-	49	34.5	19.5
	6-30 psi	-	-	-	75	52.5	30.3

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi
4. **For the reduced passage valve consider the DELTA-PI given in the right column.**

COMPONENTS LIST AND MATERIALS



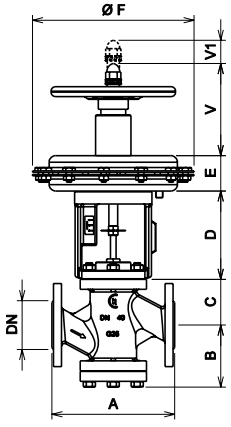
COMPONENT LIST

1. Body
2. Seat
5. Cage plug
5a. Pin
6. Stem
7. Bonnet
8. Guide bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal “O” ring
14. External “O” ring
15. Packing adjusting nuts
16. Stud-bolts
17. Body locknuts
18. Yoke
19. Travel indicator plate
20. Position indicator locknuts
21. Position indicator
22. Diaphragm rod
23. “O” ring
24. Airtight
25. Yoke gasket
26. Lower diaphragm casing
27. Yoke locknuts
28. Diaphragm spacer
29. Diaphragm
30. Diaphragm plate
31. Springs
32. Diaphragm bush
33. Diaphragm locknut
34. Diaphragm casing bolts
35. Upper diaphragm casing
36. Diaphragm casing locknuts

MATERIALS

1. See note (1) at pag.1.
2. AISI 316 stainless steel
5. AISI 316 stainless steel
5a. Carbon steel
6. AISI 316 stainless steel
7. See notes (1)(2) at page 1
8. AISI 304 stainless steel
9. Europil WS 3640 or PTFE
10. AISI 302 stainless steel
11. AISI 304 stainless steel
12. See note (3) at page 1
13. Viton FPM 70
14. Viton FPM 70
15. AISI 303 stainless steel
16. Galvanized steel
17. DIN 934 galvanized steel
18. GGG50 spheroidal c. iron
19. Policarbonate
20. DIN 936 galvanized steel
21. Aluminium
22. AISI 303 stainless steel
23. NBR
24. NBR
25. Cork – rubber
26. P11 steel
27. DIN 933 galvanized steel
28. Galvanized steel
29. EPDM 70
30. P01 steel
31. C98 UNI 3823
32. AISI 303 stainless steel
33. ISO 7380 galvanized steel
34. DIN 934 galvanized steel
35. P11 steel
36. DIN 933 galvanized steel

DIMENSIONS in mm.



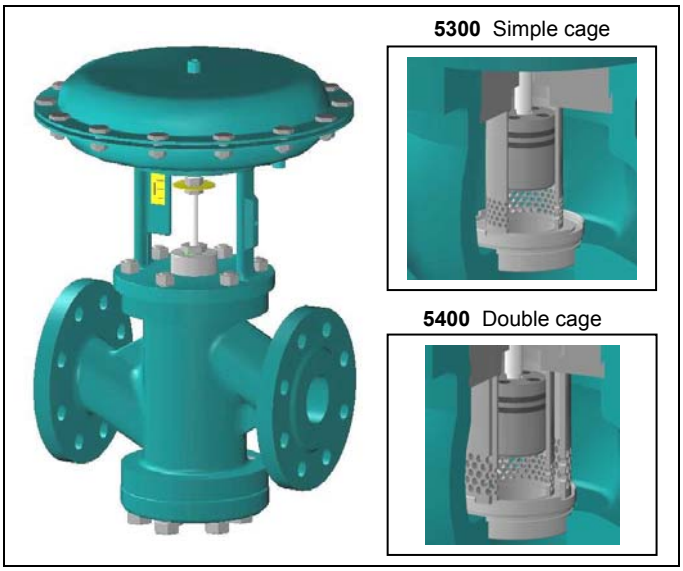
DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 “	184	190	67	49	181	181	147	166	11
20	3/4 “	184	194	67	58	190	190	147	166	11
25	1 “	184	197	90	68	200	200	147	166	11
32	1.1/4 “	200	212	92	70	202	202	147	166	19
40	1.1/2 “	222	234	108	82	214	214	160	166	19
50	2 “	254	266	108	86	218	218	160	166	19

Actuator	E	Ø F
T200	70	210
T250	70	292
T300	95	336
T400	119	408
T500	119	520

A(1) ghisa = PN16 – ANSI150 – JIS10K A(2) acciai = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5300 AD Simple Cage
TYPE 5400 AD Double Cage

Normally open – air closes
Face-to-face ASME / ANSI B16.10

DESCRIPTION

The UNIWORLD reries type 5300/5400 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating balanced piston plug (low-noise), with high temperature sealing rings made of carbon graphite with antimony, self lapping, sliding in a sigle or double cage suitable for regulation of all type of media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : froml DN 65 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
: flanged ANSI B16.5 150RF 300RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon st. ASTM A216 WCB PN 16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 PN 16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :

- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN 65/100** = 1/100
  DN 125/200 = 1/160

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- Diaphragm and Actuator sealing kit certified for ambient temperature ≤ -50 °C
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG	DN 65		DN 80		DN 100		DN 125		DN 150		DN 200	
Full bore	Ø 2.1/2"		Ø 3"		Ø 4"		Ø 5"		Ø 6"		Ø 8"	
CV	56.79		75.31		129.91		255.76		304.38		473.49	
KV	48.44		64.24		110.81		217.51		259.64		403.89	
CV	Ø 2" *	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91	Ø 5"	255.76	Ø 6"	304.38
KV	Ø 2" *	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81	Ø 5"	218.16	Ø 6"	259.64
CV	Ø1.1/2" *	24.15	Ø 2"	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91	Ø 5"	255.76
KV	Ø1.1/2" *	20.60	Ø 2"	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81	Ø 5"	218.16
CV	Ø1.1/4" *	16.77	Ø 1.1/2"	24.15	Ø 2" *	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91
KV	Ø1.1/4" *	14.30	Ø 1.1/2"	20.60	Ø 2" *	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81
CV									Ø 2.1/2"	56.79	Ø 3"	75.31
KV									Ø 2.1/2"	48.44	Ø 3"	64.24
CV											Ø 2.1/2"	56.79
KV	* Integral cage version, available with simple cage only (see leaflet 5200AD/E)										Ø 2.1/2"	48.44

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

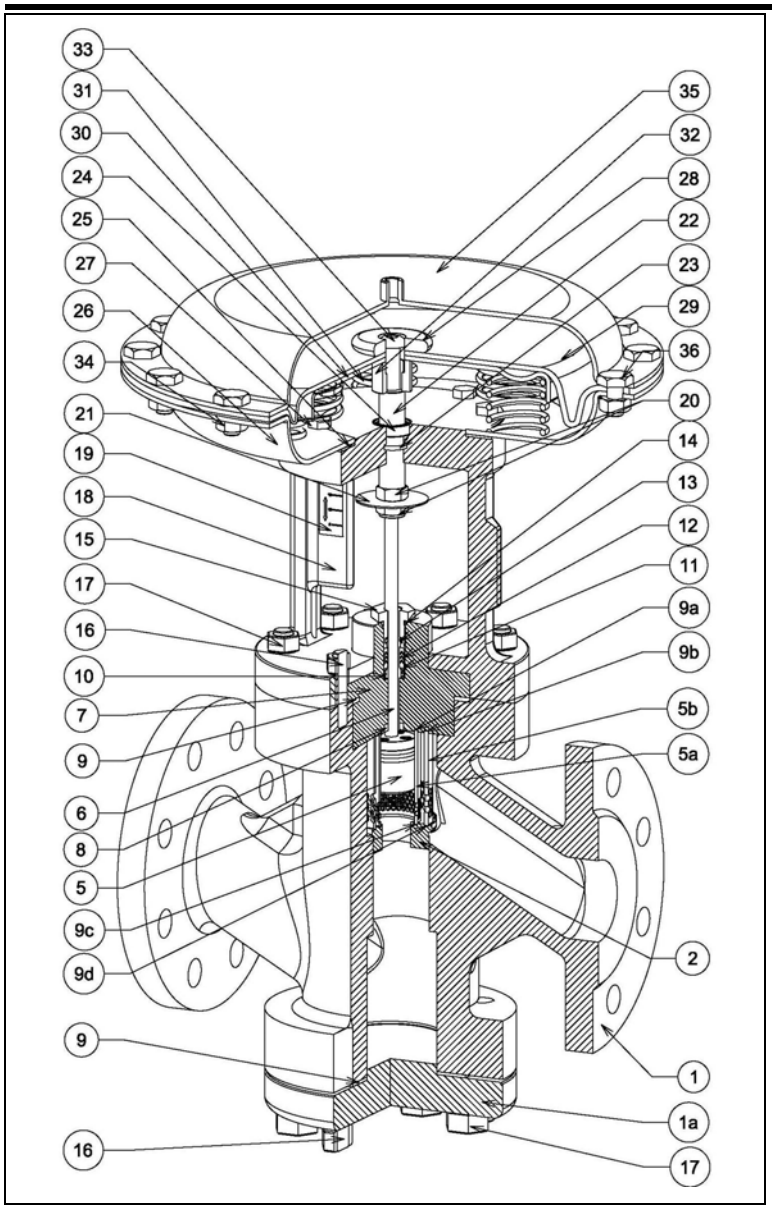
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator Type	Signal psi	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28	DN 125 Stroke 50	DN 150 Stroke 50	DN 200 Stroke 50
T310	3-15 psi	26	21	10	n.a.	n.a.	n.a.
	6-30 psi	187	149	74	n.a.	n.a.	n.a.
T400	3-15 psi	39	31	15	11.8	7.8	3.9
	6-30 psi	276	220	110	82	55	27
T500	3-15 psi	65	52	26	19.7	13.1	6.5
	6-30 psi	460	368	184	138	92	46

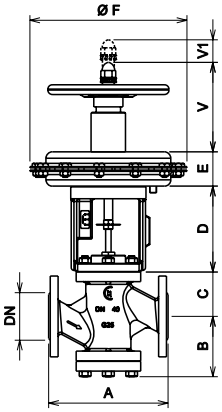
n.a. = not applicable
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi
4. **For the reduced passage valve consider the DELTA-PI given in the right column.**

COMPONENTS LIST AND MATERIALS



	COMPONENT LIST	MATERIALS
1.	Body	See note (1) at pag.1
2.	seat	AISI 316 stainless steel
5.	Piston plug with sealing rings	AISI 316 st.st.+ n°2 rings EK 3245
5a	Internal Simple Cage	AISI 316 stainless steel
5b	External Double Cage	AISI 316 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1) (2)at pag.1
8.	Guide bush	AISI 304
9.	Body gaskets	Europil WS 3640 or PTFE
9a.	Upper internal cage gasket	WS 3640/C-4500 or PTFE
9b.	Upper external cage gasket	WS 3640/C-4500 or PTFE
9c.	Lower internal cage gasket	WS 3640/C-4500 or PTFE
9d.	Lower external cage gasket	WS 3640/C-4500 or PTFE
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at pag.1
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Yoke	GGG50 spheroidal c. iron
19.	Travel indicator plate	Policarbonate
20.	Position indicator nuts	DIN 936 galvanized steel
21.	Position indicator	Aluminium
22.	Diaphragm rod	AISI 303 stainless steel
23.	“O” ring	NBR
24.	Airtight	NBR
25.	Yoke gasket	Cork – rubber
26.	Lower diaphragm casing	P11 steel
27.	Yoke locknuts	DIN 933 galvanized steel
28.	Diaphragm spacer	Galvanized steel
29.	Diaphragm	EPDM 70
30.	Diaphragm plate	P01 steel
31.	Springs	C98 UNI 3823
32.	Diaphragm bush	AISI 303 stainless steel
33.	Diaphragm locknut	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	DIN 934 galvanized steel
35.	Upper diaphragm casing	P11 steel
36.	Diaphragm casing locknuts	DIN 933 galvanized steel

DIMENSIONS in mm.



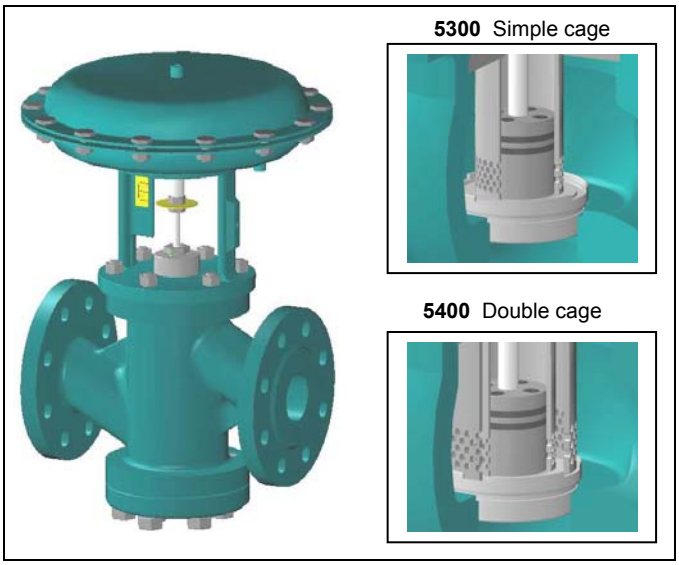
DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
65	2.1/2”	276	292	148	111	309	309	160	166	28
80	3”	298	317	148	135	333	333	160	166	28
100	4”	352	368	176	160	363	363	204	166	28
125	5”	403	425	223	252	435	435	213	166	50
150	6”	450	473	229	258	442	442	213	166	50
200	8”	543	568	254	283	465	465	213	166	50

Actuator	E	Ø F
T300	95	336
T400	119	408
T500	119	520

A(1) cast iron = PN16 – ANSI150 – JIS10K A(2) carbon st. = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TIPO 5300 AR Simple cage

TIPO 5400 AR Double cage

Normally closed – air opens
Face-to-face ASME / ANSI B16.10

DESCRIPTION

The UNIWORLD reries type 5300/5400 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating balanced piston plug (low-noise), with high temperature sealing rings made of carbon graphite with antimony, self lapping, sliding in a sigle or double cage suitable for regulation of all type of media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-18 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : froml DN 65 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
: flanged ANSI B16.5 150RF 300RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon st. ASTM A216 WCB PN 16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 PN 16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUG :

- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN 65/100** = 1/100
  DN 125/200 = 1/160

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : a diaframma
- Control signals : 3-15 psi …6-18 psi… 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- Diaphragm and Actuator sealing kit certified for ambient temperature ≤ -50 °C
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG	DN 65		DN 80		DN 100		DN 125		DN 150		DN 200	
Full bore	Ø 2.1/2"		Ø 3"		Ø 4"		Ø 5"		Ø 6"		Ø 8"	
CV	56.79		75.31		129.91		255.76		304.38		473.49	
KV	48.44		64.24		110.81		217.51		259.64		403.89	
CV	Ø 2" *	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91	Ø 5"	255.76	Ø 6"	304.38
KV	Ø 2" *	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81	Ø 5"	218.16	Ø 6"	259.64
CV	Ø1.1/2" *	24.15	Ø 2"	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91	Ø 5"	255.76
KV	Ø1.1/2" *	20.60	Ø 2"	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81	Ø 5"	218.16
CV	Ø1.1/4" *	16.77	Ø 1.1/2"	24.15	Ø 2" *	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91
KV	Ø1.1/4" *	14.30	Ø 1.1/2"	20.60	Ø 2" *	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81
CV									Ø 2.1/2"	56.79	Ø 3"	75.31
KV									Ø 2.1/2"	48.44	Ø 3"	64.24
CV											Ø 2.1/2"	56.79
KV	* Integral cage version, available with simple cage only (see leaflet 5200AD/E)										Ø 2.1/2"	48.44

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
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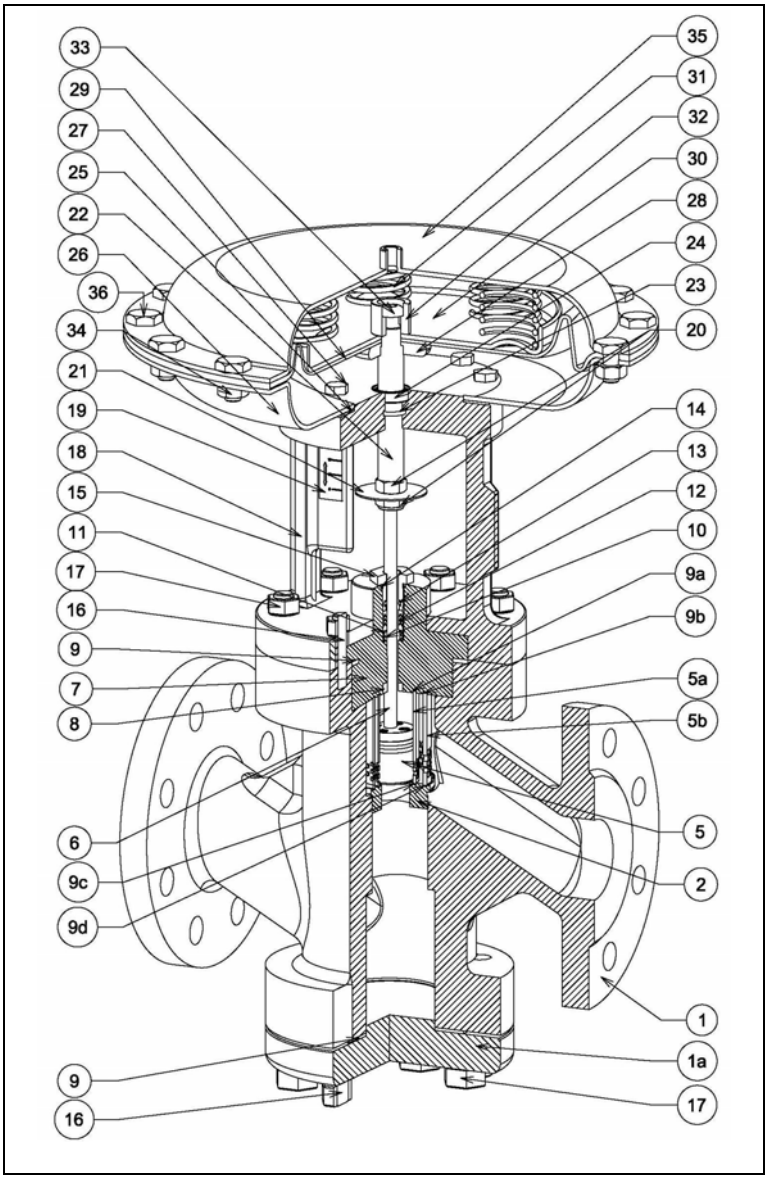
Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator Type	Segnals psi	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28	DN 125 Stroke 50	DN 150 Stroke 50	DN 200 Stroke 50
T310	3-15 psi	26	21	10	n.a.	n.a.	n.a.
	6-18 psi	53	42	21	n.a.	n.a.	n.a.
	6-30 psi	80	64	32	n.a.	n.a.	n.a.
T400	3-15 psi	39	31	15	11.8	7.8	3.9
	6-18 psi	78	63	31	23.6	15.7	7.8
	6-30 psi	177	141	70	59	39	19
T500	3-15 psi	65	52	26	19.7	13.1	6.5
	6-18 psi	131	105	52	39.5	26	13
	6-30 psi	329	263	131	98	65	32

n.a. = not applicable

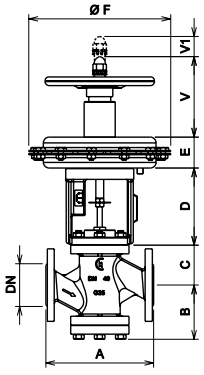
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi
4. **For the reduced passage valve consider the DELTA-PI given in the right column.**

COMPONENTS LIST AND MATERIALS



	COMPONENT LIST	MATERIALS
1.	Body	See note (1) at pag.1
2.	seat	AISI 316 stainless steel
5.	Piston plug with sealing rings	AISI 316 st.st.+ n°2 rings EK 3245
5a	Internal Simple Cage	AISI 316 stainless steel
5b	External Double Cage	AISI 316 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1) (2)at pag.1
8.	Guide bush	AISI 304
9.	Body gaskets	Europil WS 3640 or PTFE
9a.	Upper internal cage gasket	WS 3640/C-4500 or PTFE
9b.	Upper external cage gasket	WS 3640/C-4500 or PTFE
9c.	Lower internal cage gasket	WS 3640/C-4500 or PTFE
9d.	Lower external cage gasket	WS 3640/C-4500 or PTFE
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at pag.1
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Yoke	GGG50 spheroidal c. iron
19.	Travel indicator plate	Policarbonate
20.	Position indicator nuts	DIN 936 galvanized steel
21.	Position indicator	Aluminium
22.	Diaphragm rod	AISI 303 stainless steel
23.	“O” ring	NBR
24.	Airtight	NBR
25.	Yoke gasket	Cork – rubber
26.	Lower diaphragm casing	P11 steel
27.	Yoke locknuts	DIN 933 galvanized steel
28.	Diaphragm spacer	Galvanized steel
29.	Diaphragm	EPDM 70
30.	Diaphragm plate	P01 steel
31.	Springs	C98 UNI 3823
32.	Diaphragm bush	AISI 303 stainless steel
33.	Diaphragm locknut	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	DIN 934 galvanized steel
35.	Upper diaphragm casing	P11 steel
36.	Diaphragm casing locknuts	DIN 933 galvanized steel

DIMENSIONS in mm.



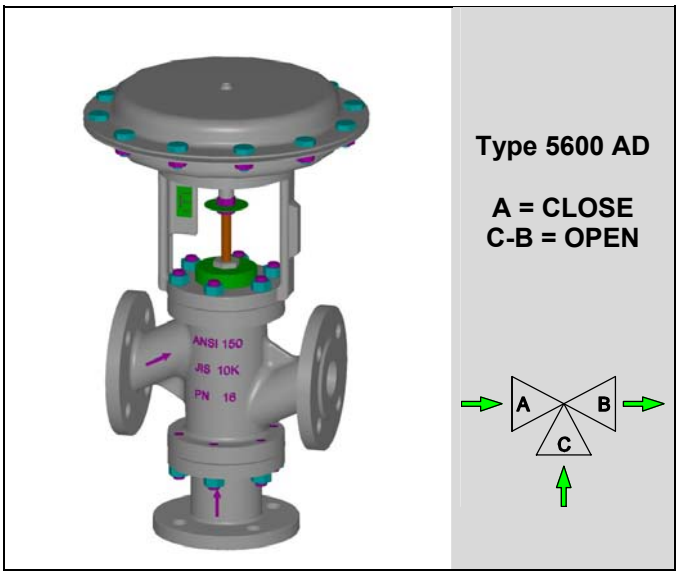
DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
65	2.1/2”	276	292	148	111	309	309	160	166	28
80	3”	298	317	148	135	333	333	160	166	28
100	4”	352	368	176	160	363	363	204	166	28
125	5”	403	425	223	252	435	435	213	166	50
150	6”	450	473	229	258	442	442	213	166	50
200	8”	543	568	254	283	465	465	213	166	50

Actuator	E	Ø F
T300	95	336
T400	119	408
T500	119	520

A(1) cast iron = PN16 – ANSI150 – JIS10K A(2) carbon st. = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE-WAY MIXING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5600 AD DN 15/100

Normally closed port "A" on air failure

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5600 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Type 5600 AD three-way mixing control valves (two inlet ports and one outlet port with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG
- **PL** (DN15-20) **LV** (DN25-100) = linear class IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN15 Ø 1/2"	DN 20 Ø 3/4"	DN25 Ø 1"	DN32 Ø 1.1/4"	DN40 Ø 1.1/2"	DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"	DN100 Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	99.6	116.2	162.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	85.8	100.1	140
Reduced bore *		n.a.	½"	½" ¾"	¾" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

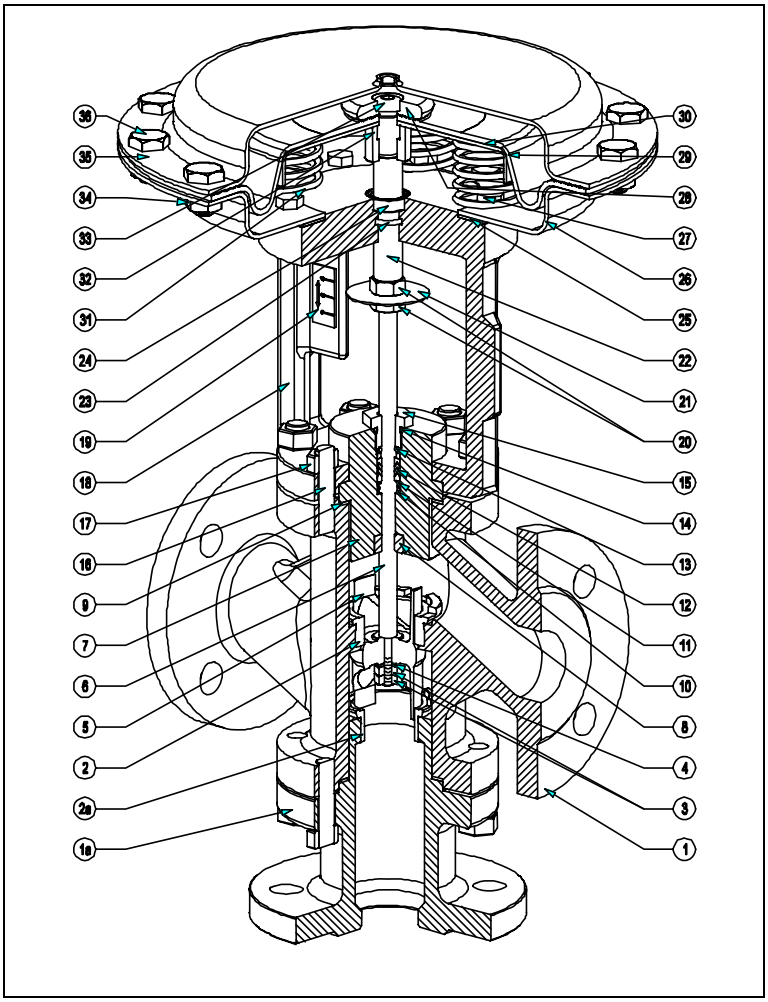
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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN15 Stroke 11	DN20 Stroke 11	DN25 Stroke 11	DN32 Stroke 19	DN40 Stroke 19	DN50 Stroke 19	DN65 Stroke 28	DN80 Stroke 28	DN100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

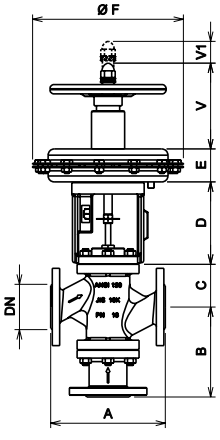
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Stud pipe	1a. C40 carbon steel
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



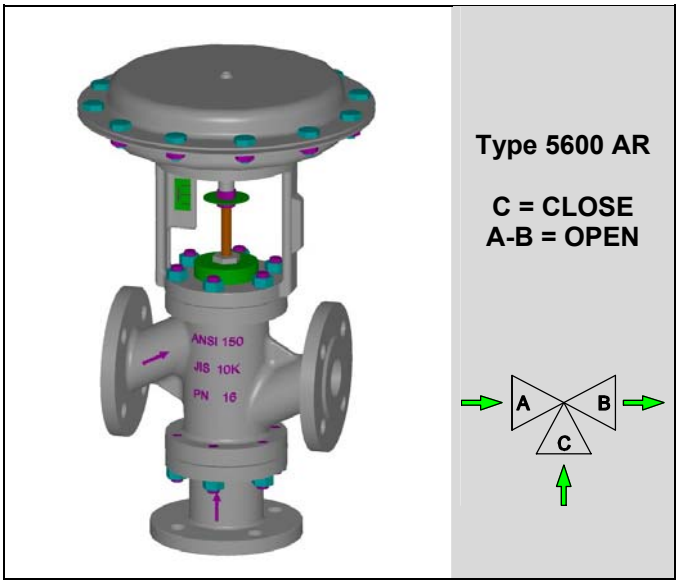
DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 “	184	190	132	49	181	181	147	166	11
20	3/4 “	184	194	134	58	190	190	147	166	11
25	1 “	184	197	135	68	200	200	147	166	11
32	1.1/4 “	200	212	134	70	202	202	147	166	19
40	1.1/2 “	222	235	165	82	214	214	160	166	19
50	2 “	254	267	185	86	218	218	160	166	19
65	2.1/2 “	276	292	220	111	309	309	160	166	28
80	3 “	298	317	222	135	333	333	160	166	28
100	4 “	352	368	241	160	363	363	204	166	28

Actuator	E	Ø F
200	70	210
250	70	292
310	95	336
400	119	408
500	119	520

A(1) cast iron = PN16–ANSI150–JIS10K A(2) carbon and st. steel = PN16–PN40–ANSI150–ANSI300–JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

THREE-WAY MIXING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5600 AR DN 15/100

Normally closed port "C" on air failure

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5600 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Type 5600 AR three-way mixing control valves (two inlet ports and one outlet port with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG
- **PL** (DN15-20) **LV** (DN25-100) = linear class IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN15 Ø 1/2"	DN 20 Ø 3/4"	DN25 Ø 1"	DN32 Ø 1.1/4"	DN40 Ø 1.1/2"	DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"	DN100 Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	99.6	116.2	162.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	85.8	100.1	140
Reduced bore *		n.a.	½"	½" ¾"	¾" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

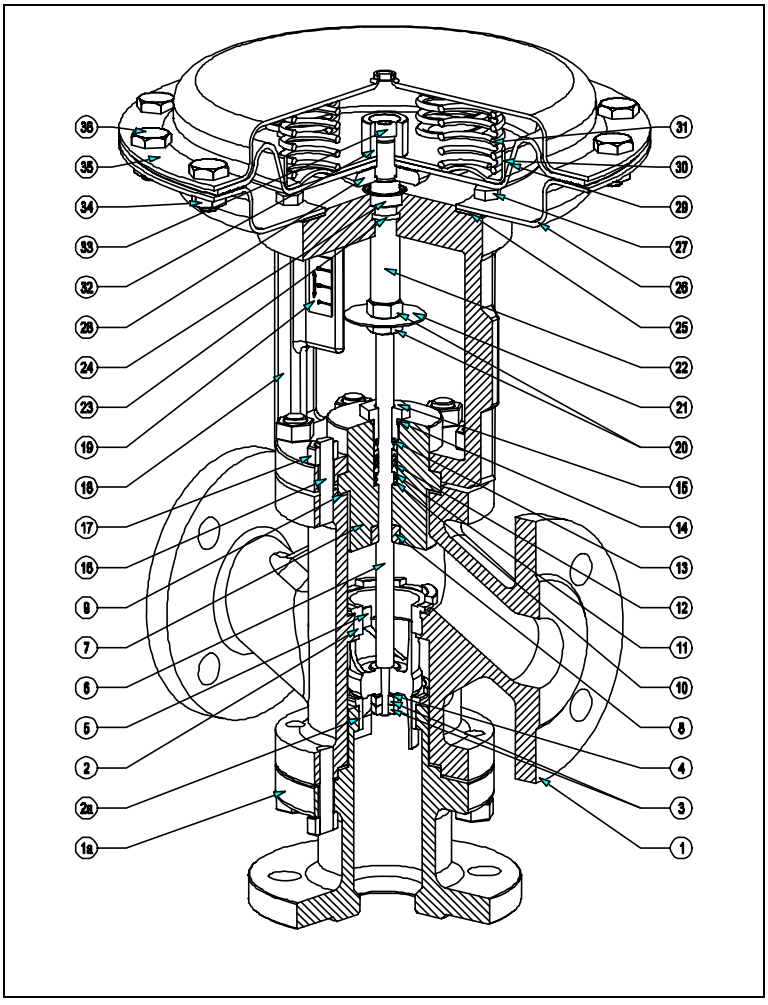
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN15 Stroke 11	DN20 Stroke 11	DN25 Stroke 11	DN32 Stroke 19	DN40 Stroke 19	DN50 Stroke 19	DN65 Stroke 28	DN80 Stroke 28	DN100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

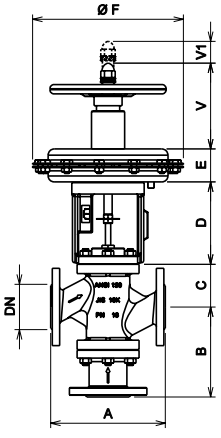
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Stud pipe	1a. C40 carbon steel
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



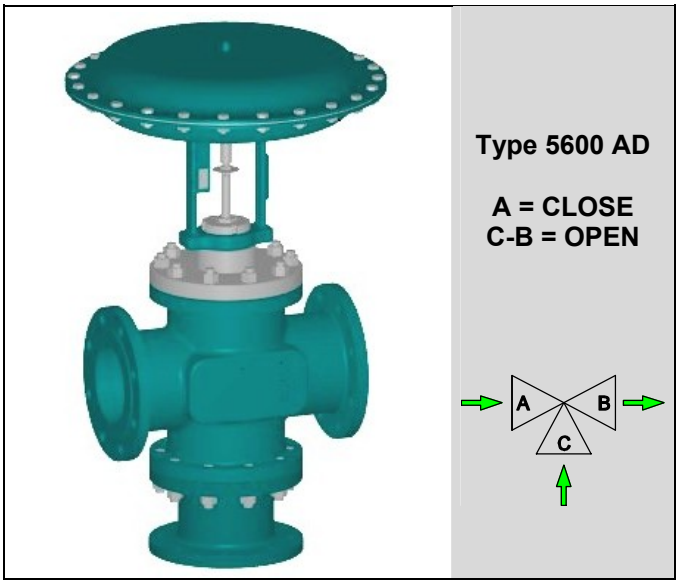
DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
15	1/2 “	184	190	132	49	181	181	147	166	11
20	3/4 “	184	194	134	58	190	190	147	166	11
25	1 “	184	197	135	68	200	200	147	166	11
32	1.1/4 “	200	212	134	70	202	202	147	166	19
40	1.1/2 “	222	235	165	82	214	214	160	166	19
50	2 “	254	267	185	86	218	218	160	166	19
65	2.1/2 “	276	292	220	111	309	309	160	166	28
80	3 “	298	317	222	135	333	333	160	166	28
100	4 “	352	368	241	160	363	363	204	166	28

Actuator	E	Ø F
200	70	210
250	70	292
310	95	336
400	119	408
500	119	520

A(1) cast iron = PN16–ANSI150–JIS10K A(2) carbon and st. steel = PN16–PN40–ANSI150–ANSI300–JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

THREE-WAY MIXING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5600 AD DN 125/200

Normally closed port "A" on air failure

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5600 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Type 5600 AD three-way mixing control valves (two inlet ports and one outlet port with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 100 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG
- **LV** = linear class IV°
- **VPT** = quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN125 Ø 5"		DN150 Ø 6"		DN200 Ø 8"	
LV	CV	290.9		357.3		578.1	
	KV	250.8		308		498.3	
VPT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore *		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

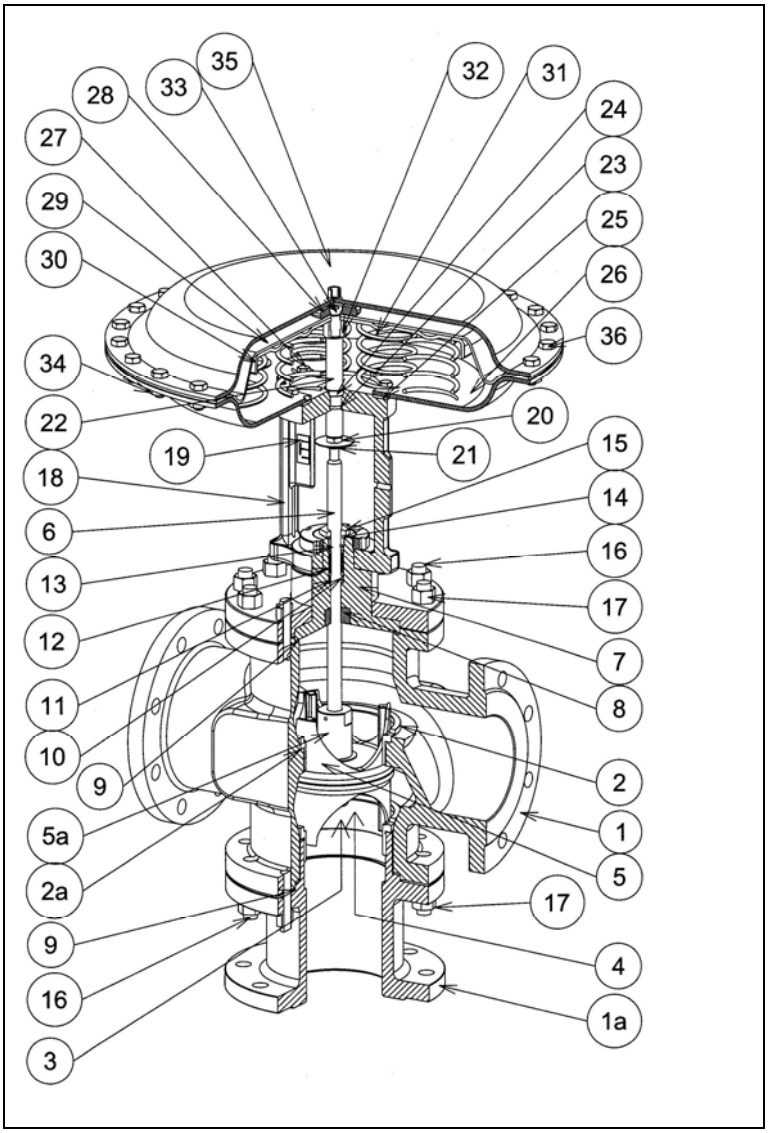
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Tel. 039/651.705 - 650.397
Fax 039/654.018
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN125 Stroke 50	DN150 Stroke 50	DN200 Stroke 50
T400	3-15 psi	0.9	0.65	0.35
	6-18 psi	1.85	1.3	1.05
	6-30 psi	4.5	3.2	1.8
T500	3-15 psi	1.55	1.1	0.95
	6-18 psi	3.1	2.2	1.25
	6-30 psi	5.5	4	2.2

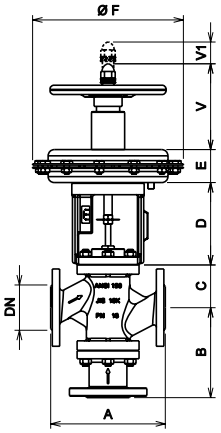
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Stud pipe	1a. C40 carbon steel
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
5a . Stem joint	5a . AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
125	5 “	403	425	296	252	435	435	213	166	50
150	6 “	450	473	307	258	442	442	213	166	50
200	8 “	543	568	333	283	465	465	213	166	50

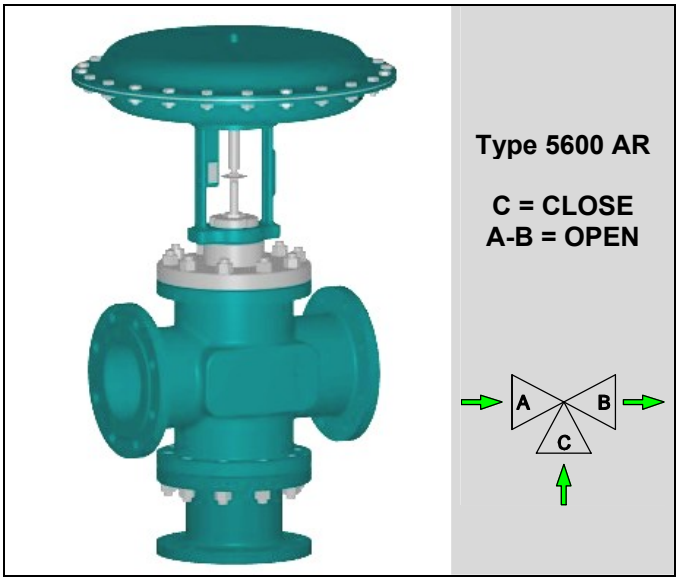
Actuator	E	Ø F
400	144	408
500	144	520

A(1) cast iron = PN16–ANSI150–JIS10K A(2) carbon and st. steel = PN16–PN40–ANSI150–ANSI300–JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series PNEUMATIC VALVES

THREE-WAY MIXING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5600 AR DN 125/200

Normally closed port "C" on air failure

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5600 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Type 5600 AR three-way mixing control valves (two inlet ports and one outlet port with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG
- **LV** = linear class IV°
- **VPT**= quick lift class IV°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- PTFE/GR soft seal ≤190°C class VI°
- PTFE soft seal ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi…3-9 psi…9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA...4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG		DN125		DN150		DN200	
Full bore		Ø 5"		Ø 6"		Ø 8"	
LV	CV	290.9		357.3		578.1	
	KV	250.8		308		498.3	
VPT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore *		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type

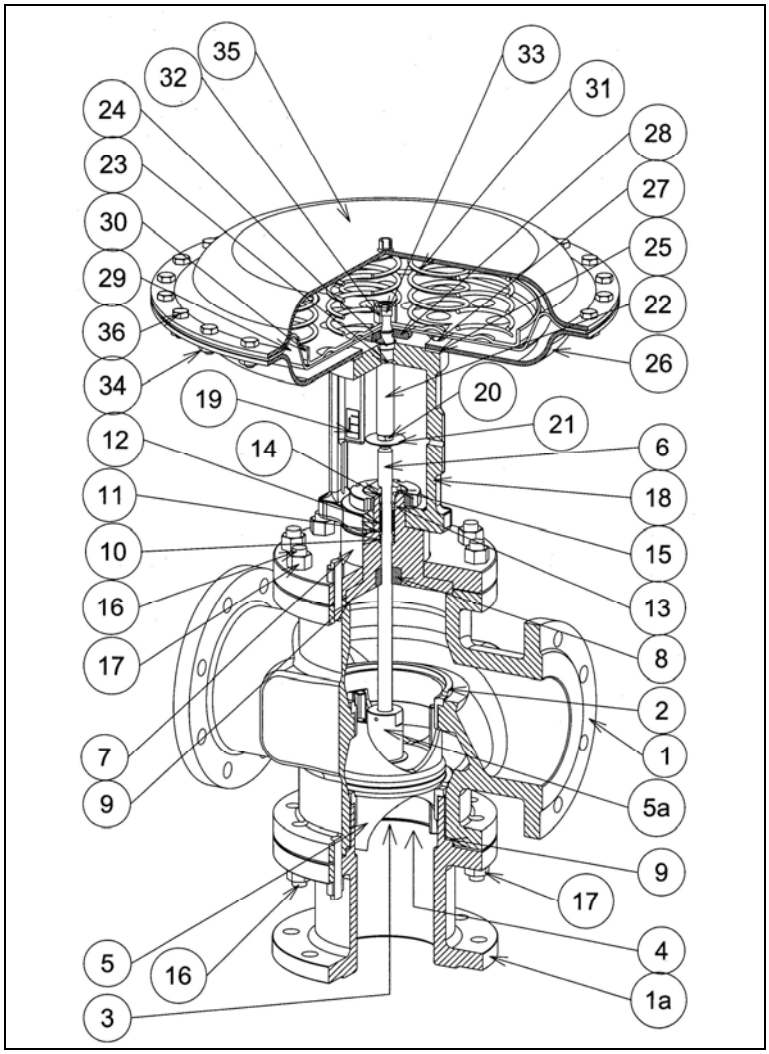
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Fax 039/654.018
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator type	Signal psi	DN125 Stroke 50	DN150 Stroke 50	DN200 Stroke 50
T400	3-15 psi	0.9	0.65	0.35
	6-18 psi	1.85	1.3	1.05
	6-30 psi	4.5	3.2	1.8
T500	3-15 psi	1.55	1.1	0.95
	6-18 psi	3.1	2.2	1.25
	6-30 psi	5.5	4	2.2

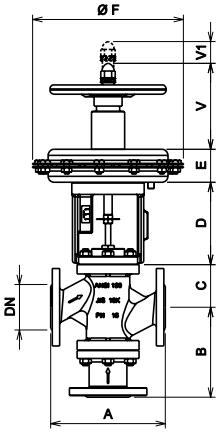
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Stud pipe	1a. C40 carbon steel
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Plug	5. AISI 316 stainless steel
5a . Stem joint	5a . AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



DN	Ø	A(1)	A(2)	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
125	5 “	403	425	296	252	435	435	213	166	50
150	6 “	450	473	307	258	442	442	213	166	50
200	8 “	543	568	333	283	465	465	213	166	50

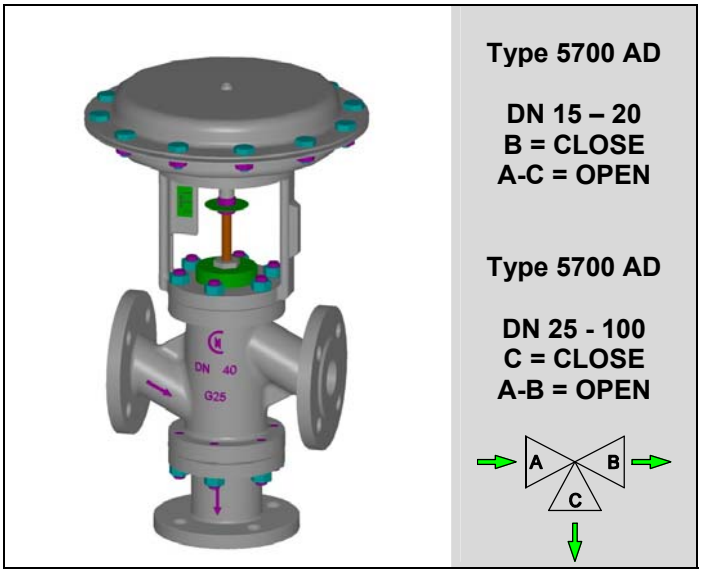
Actuator	E	Ø F
400	144	408
500	144	520

A(1) cast iron = PN16–ANSI150–JIS10K A(2) carbon and st. steel = PN16–PN40–ANSI150–ANSI300–JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series PNEUMATIC VALVES

THREE-WAY DIVERTING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5700 AD

Normally closed port "B" DN15-20
Normally closed port "C" DN25-100

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5700 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Type 5700 AD three-way diverting control valves (one inlet port and two outlet ports with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUGS :

- **PL** (DN15-20) **LV** (DN25-100) = linear classe IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift cl. IV°

TIPI DI BONNET (2) :

- Standard : from -5 to + 200 °C
- Finned : > 200 °C
- Extended : < 5 °C
- Bellows sealed for thermal oil or hazardous media with PN16-25-40 standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "O" rings:

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% caricato GRAPHITE 15% for temp. ≤ 200 °C
- PURE GRAPHITE 100% per temp. from 200 to 400 °C
  to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal for ≤190°C class VI°
- PTFE soft seal for ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite degree 6° on seat, plug and bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA ..4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Otturatori		DN15	DN 20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
		Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
LV	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77.0	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	107.3	129.3	175.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	92.5	111.5	151.2
Reduced bore *		n.a.	1/2 "	½""	3/4"	3/4 "	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

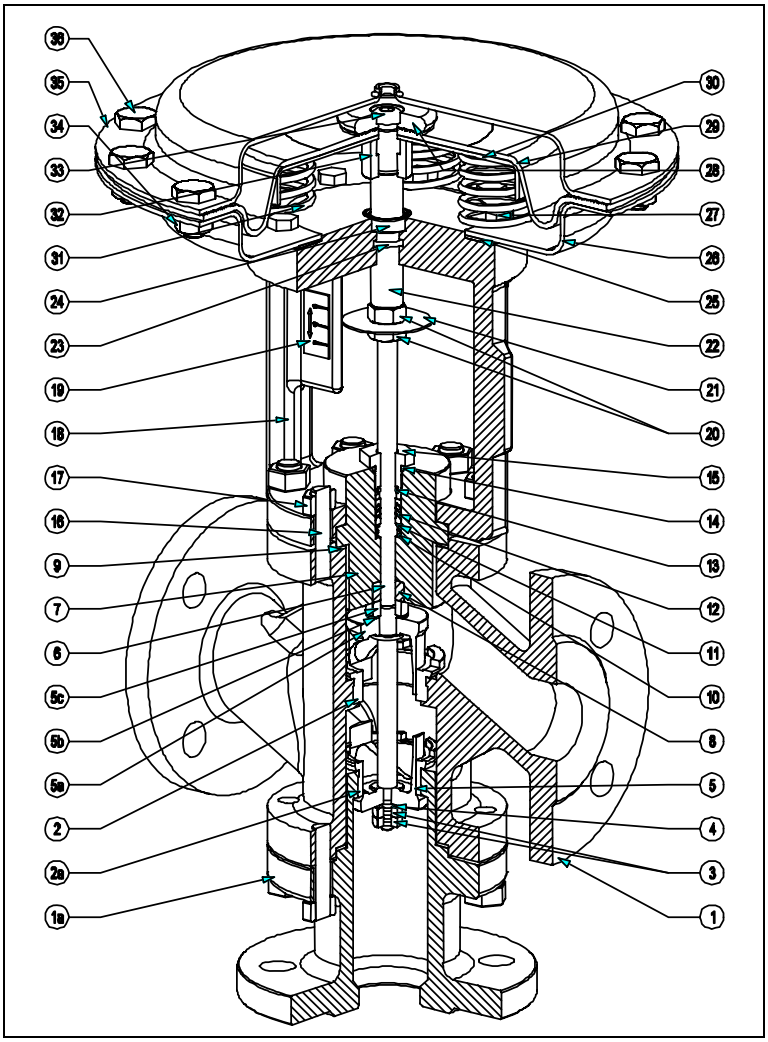
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Fax 039/654.018
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Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm – Signals in psi

Type	Signal	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
Actuator	psi	Stroke 11	Stroke 11	Stroke 11	Stroke 19	Stroke 19	Stroke 19	Stroke 28	Stroke 28	Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

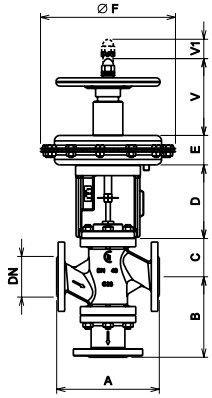
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Stud pipe	1a. C40 carbon steel
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a. AISI 316 stainless steel
3. Lower plug locknuts	3. AISI 304 stainless steel
4. Lower spring washer	4. AISI 304 stainless steel
5. Lower plug	5. AISI 316 stainless steel
5a. Upper plug	5a. AISI 316 stainless steel
5b. Upper spring washer	5b. AISI 304 stainless steel
5c. Upper plug locknuts	5c. AISI 304 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Diaph. casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



DN	Ø	A(1)	A(2)	B	C - Bonnet			D	V	V1
					Std	Finned	Bellows			
15	1/2 “	184	190	132	49	181	181	147	166	11
20	3/4 “	184	194	134	58	190	190	147	166	11
25	1 “	184	197	135	68	200	200	147	166	11
32	1.1/4 “	200	212	134	70	202	202	147	166	19
40	1.1/2 “	222	235	165	82	214	214	160	166	19
50	2 “	254	267	185	86	218	218	160	166	19
65	2.1/2 “	276	292	220	111	309	309	160	166	28
80	3 “	298	317	222	135	333	333	160	166	28
100	4 “	352	368	241	160	363	363	204	166	28

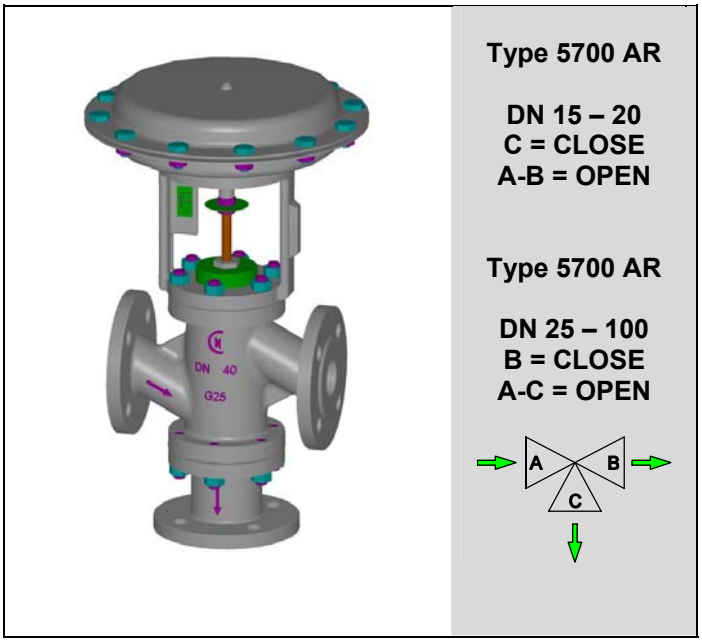
Actuator	E	Ø F
200	70	210
250	70	292
310	95	336
400	119	408
500	119	520

A(1) cast iron = PN16–ANSI150–JIS10K A(2) carbon and st. steel = PN16–PN40–ANSI150–ANSI300–JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series PNEUMATIC VALVES

THREE-WAY DIVERTING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



Type 5700 AR

DN 15 – 20
C = CLOSE
A-B = OPEN

Type 5700 AR

DN 25 – 100
B = CLOSE
A-C = OPEN

TIPO 5700 AR

Normally closed port "C" DN15-20
Normally closed port "B" DN25-100

Scartamento ASME / ANSI B16.10

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5700 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Type 5700 AD three-way diverting control valves (one inlet port and two outlet ports with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUGS :

- **PL** (DN15-20) **LV** (DN25-100) = linear classe IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift cl. IV°

TIPI DI BONNET (2) :

- Standard : from -5 to + 200 °C
- Finned : > 200 °C
- Extended : < 5 °C
- Bellows sealed for thermal oil or hazardous media with PN16-25-40 standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "O" rings:

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% caricato GRAPHITE 15% for temp. ≤ 200 °C
- PURE GRAPHITE 100% per temp. from 200 to 400 °C
  to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal for ≤190°C class VI°
- PTFE soft seal for ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite degree 6° on seat, plug and bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA ..4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Otturatori		DN15	DN 20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
		Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
LV	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77.0	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	107.3	129.3	175.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	92.5	111.5	151.2
Reduced bore *		n.a.	1/2 "	1/2""	3/4"	3/4 "	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

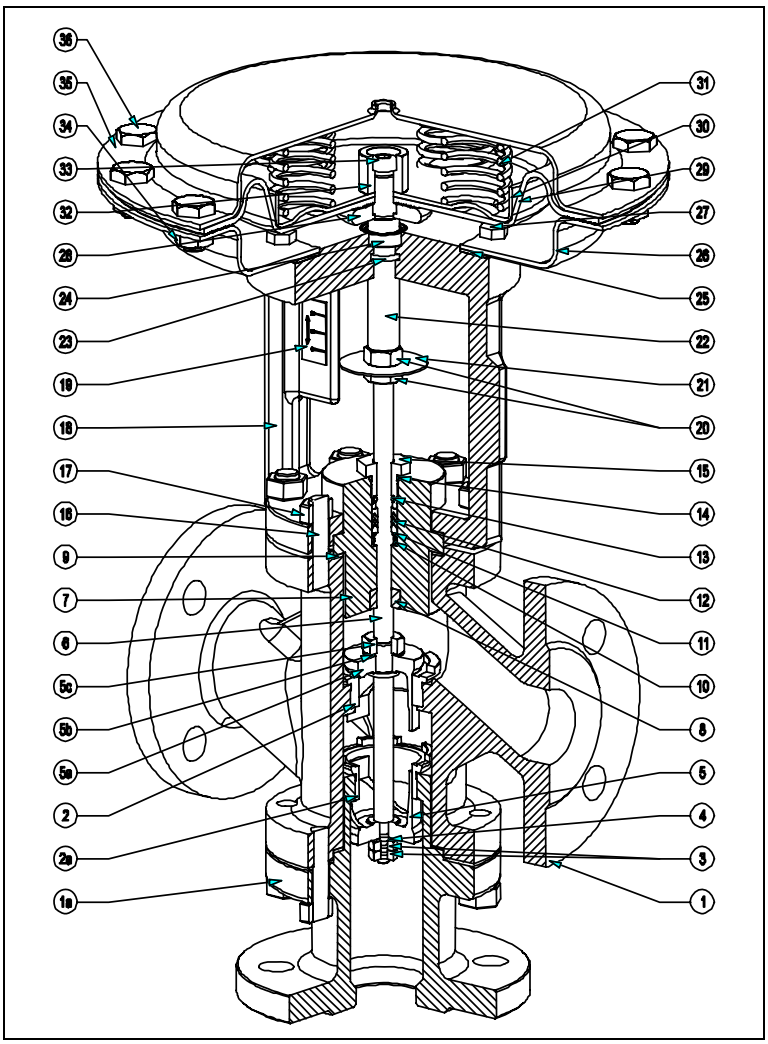
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm – Signals in psi

Type	Signal	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
Actuator	psi	Stroke 11	Stroke 11	Stroke 11	Stroke 19	Stroke 19	Stroke 19	Stroke 28	Stroke 28	Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	5.2	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

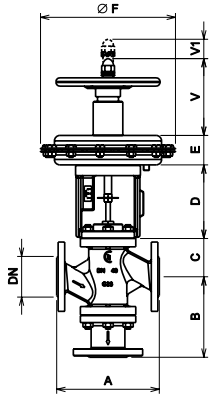
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Stud pipe	1a. C40 carbon steel
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a. AISI 316 stainless steel
3. Lower plug locknuts	3. AISI 304 stainless steel
4. Lower spring washer	4. AISI 304 stainless steel
5. Lower plug	5. AISI 316 stainless steel
5a. Upper plug	5a. AISI 316 stainless steel
5b. Upper spring washer	5b. AISI 304 stainless steel
5c. Upper plug locknuts	5c. AISI 304 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Diaph. casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONI in mm.



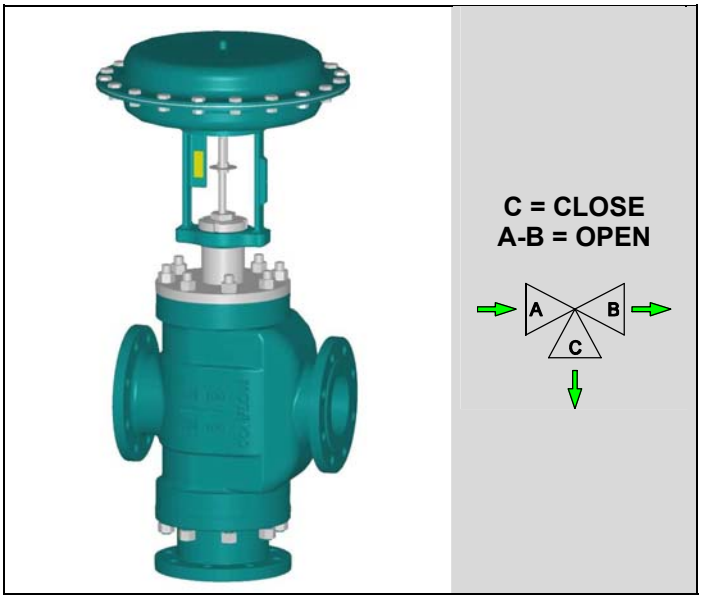
DN	Ø	A(1)	A(2)	B	C – Bonnet			D	V	V1
					Std	Finned	Bellows			
15	1/2 “	184	190	132	49	181	181	147	166	11
20	3/4 “	184	194	134	58	190	190	147	166	11
25	1 “	184	197	135	68	200	200	147	166	11
32	1.1/4 “	200	212	134	70	202	202	147	166	19
40	1.1/2 “	222	235	165	82	214	214	160	166	19
50	2 “	254	267	185	86	218	218	160	166	19
65	2.1/2 “	276	292	220	111	309	309	160	166	28
80	3 “	298	317	222	135	333	333	160	166	28
100	4 “	352	368	241	160	363	363	204	166	28

Actuator	E	Ø F
200	70	210
250	70	292
310	95	336
400	119	408
500	119	520

A(1) cast iron = PN16–ANSI150–JIS10K A(2) carbon and st. steel = PN16–PN40–ANSI150–ANSI300–JIS10K – JIS20K
Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series PNEUMATIC VALVES

THREE-WAY DIVERTING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5700 AD

Normally closed port "C" DN125-200

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5700 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Type 5700 AD three-way diverting control valves (one inlet port and two outlet ports with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUGS :

- **LV** = linear class IV°
- **LVPT** = quick lift cl. IV°

BONNET (2) :

- Standard : from -5 to + 200 °C
- Finned : > 200 °C
- Extended : < 5 °C
- Bellows sealed for thermal oil or hazardous media with PN16-25-40 standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "O" rings:

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% caricato GRAPHITE 15% for temp. ≤ 200 °C
- PURE GRAPHITE 100% per temp. from 200 to 400 °C
  to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal for ≤190°C class VI°
- PTFE soft seal for ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite degree 6° on seat, plug and bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA ..4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t.≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plugs Full bore		DN 125 Ø 5"		DN 150 Ø 6"		DN200 Ø 8"	
LV	CV	290.9		357.3		578.1	
	KV	250.8		308		498.3	
LVPT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore *		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type (LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

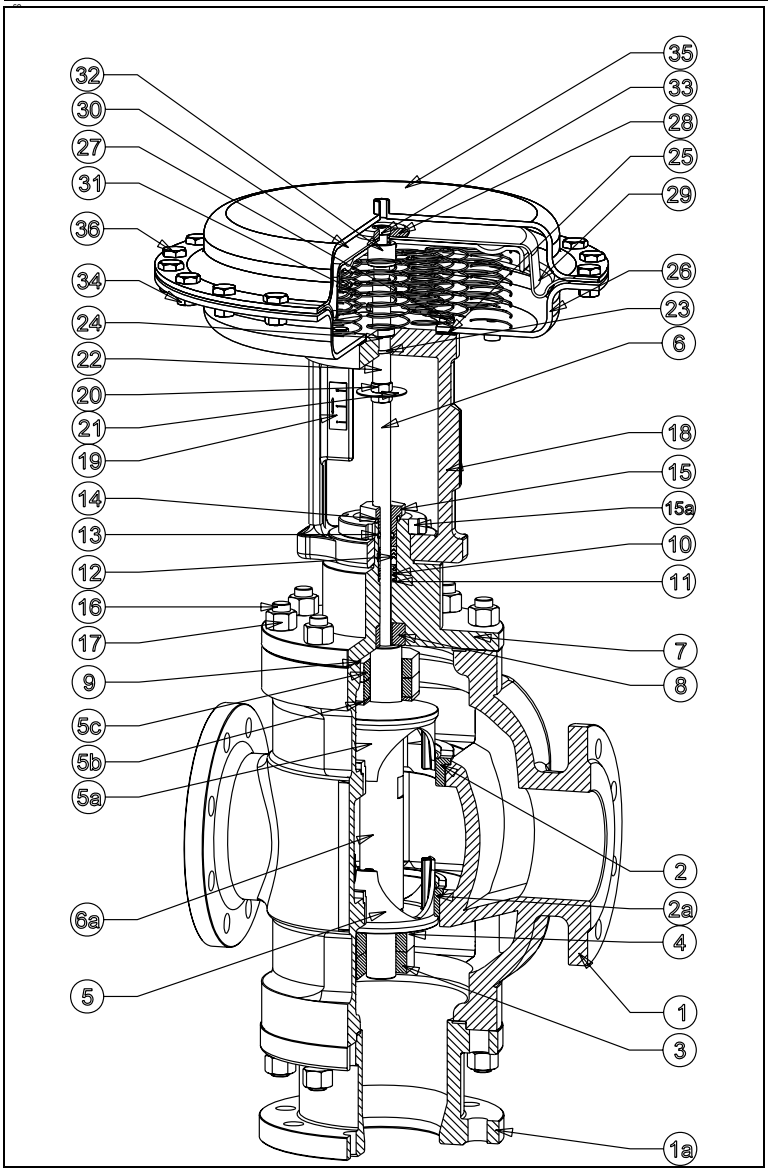
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm – Signals in psi

Type Actuator	Signal psi	DN125 Stroke 50	DN150 Stroke 50	DN200 Stroke 50
T400	3-15 psi	0.9	0.65	0.35
	6-18 psi	1.85	1.3	1.05
	6-30 psi	4.5	3.2	1.8
T500	3-15 psi	1.55	1.1	0.95
	6-18 psi	3.1	2.2	1.25
	6-30 psi	5.5	4	2.2

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



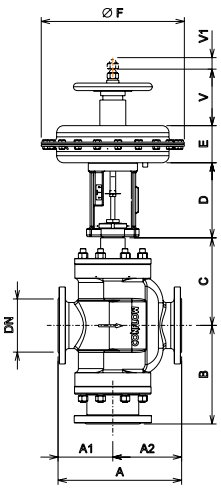
COMPONENTS LIST

1. Body
1a. Stud pipe
2. Upper seat
2a. Lower seat
3. Lower plug locknuts
4. Lower spring washer
5. Lower plug
5a. Upper plug
5b. Upper spring washer
5c. Upper plug locknuts.
6. Stem
6a. Plug shaft
7. Bonnet
8. Guide bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal “O” ring
14. External “O” ring
15. Packing adjusting nut
16. Stud-bolts
17. Body locknuts
18. Yoke
19. Travel indicator plate
20. Position indicator locknuts
21. Position indicator
22. Diaphragm rod
23. “O” ring
24. Airtight
25. Yoke gasket
26. Lower diaphragm casing
27. Diaph. casing internal bolts
28. Diaphragm spacer
29. Diaphragm
30. Diaphragm plate
31. Springs
32. Diaphragm bush
33. Diaphragm locknut
34. Diaphragm casing bolts
35. Upper diaphragm casing
36. Diaphragm casing locknuts

MATERIALS

1. See note (1) at page 1
1a. C40 carbon steel
2. AISI 316 stainless steel
2a. AISI 316 stainless steel
3. AISI 304 stainless steel
4. AISI 304 stainless steel
5. AISI 316 stainless steel
5a. AISI 316 stainless steel
5b. AISI 304 stainless steel
5c. AISI 304 stainless steel
6. AISI 316 stainless steel
7. See note (1)-(2) at page 1
8. AISI 304 stainless steel
9. Europil WS 3640 or PTFE
10. AISI 302 stainless steel
11. AISI 304 stainless steel
12. See note (3) at page 1
13. Viton FPM 70
14. Viton FPM 70
15. AISI 303 stainless steel
16. Galvanized steel
17. DIN 934 galvanized steel
18. GGG50 spheroidal c. iron
19. Policarbonate
20. DIN 936 galvanized steel
21. Aluminium
22. AISI 303 stainless steel
23. NBR
24. NBR
25. Cork – rubber
26. P11 steel
27. DIN 933 galvanized steel
28. Galvanized steel
29. EPDM 70
30. P01 steel
31. C98 UNI 3823
32. AISI 303 stainless steel
33. ISO 7380 galvanized steel
34. DIN 934 galvanized steel
35. P11 steel
36. DIN 933 galvanized steel

DIMENSIONS in mm.

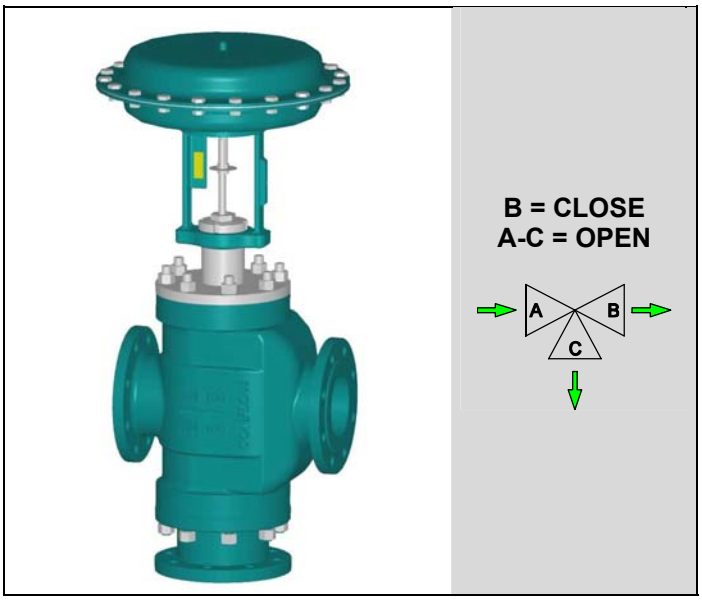


DN	Ø	A	A1	A2	B	C - Bonnet			D	V	V1
						Std	Finned	Bellows			
125	5 “	425	186	239	344	252	435	435	213	166	50
150	6 “	473	206	267	375	258	442	442	213	166	50
200	8 “	568	234	334	430	283	465	465	213	166	50

Actuator	E	Ø F
400	119	408
500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

THREE-WAY DIVERTING CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5700 AR

Normally closed port "B" DN125-200

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5700 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Type 5700 AD three-way diverting control valves (one inlet port and two outlet ports with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim – AISI 316 st. st. bonnet

PLUGS :

- **LV** = linear class IV°
- **LVPT** = quick lift cl. IV°

BONNET (2) :

- Standard : from -5 to + 200 °C
- Finned : > 200 °C
- Extended : < 5 °C
- Bellows sealed for thermal oil or hazardous media with PN16-25-40 standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "O" rings:

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% caricato GRAPHITE 15% for temp. ≤ 200 °C
- PURE GRAPHITE 100% per temp. from 200 to 400 °C
  to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : a diaframma
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- PTFE/GR soft seal for ≤190°C class VI°
- PTFE soft seal for ≤150°C class VI°
- Lapping on seat and plug class V°
- Stellite degree 6° on seat, plug and bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA ..4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plugs Full bore		DN 125		DN 150		DN200	
		Ø 5"		Ø 6"		Ø 8"	
LV	CV	290.9		357.3		578.1	
	KV	250.8		308		498.3	
LVPT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore *		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type (LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

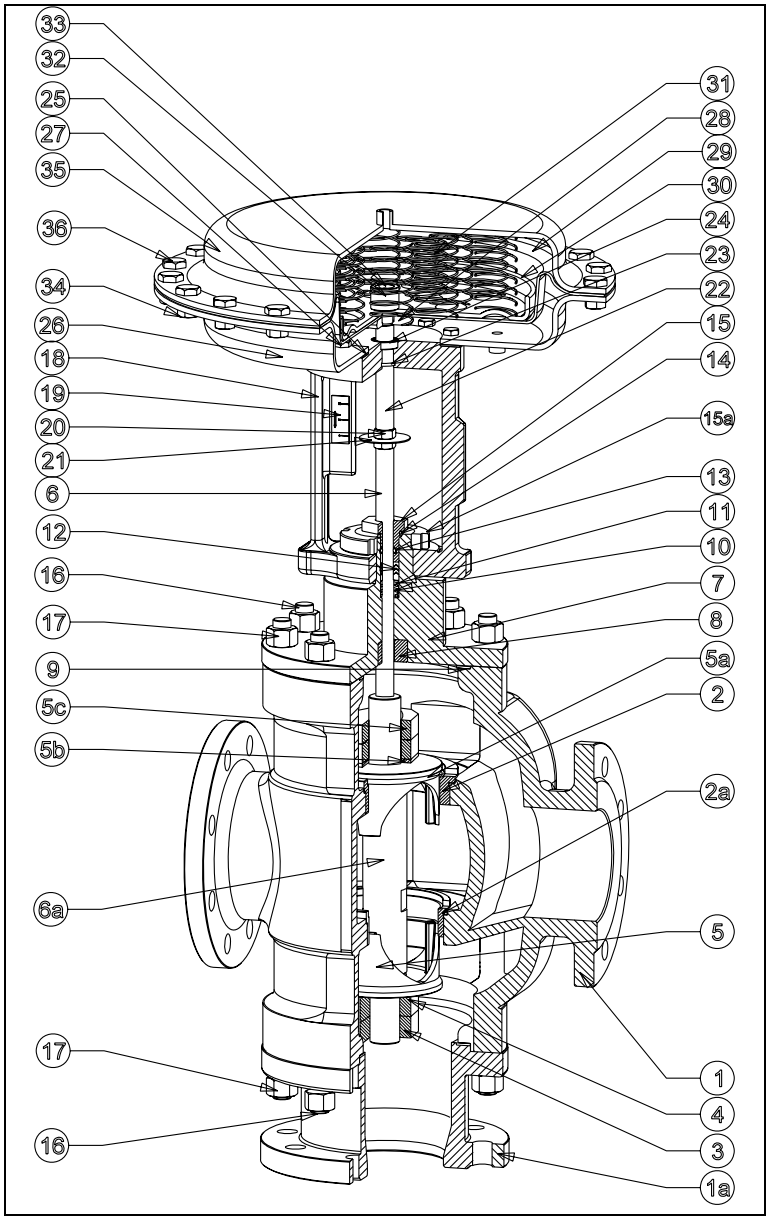
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) Strokes in mm – Signals in psi

Type Actuator	Signal psi	DN125 Stroke 50	DN150 Stroke 50	DN200 Stroke 50
T400	3-15 psi	0.9	0.65	0.35
	6-18 psi	1.85	1.3	1.05
	6-30 psi	4.5	3.2	1.8
T500	3-15 psi	1.55	1.1	0.95
	6-18 psi	3.1	2.2	1.25
	6-30 psi	5.5	4	2.2

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



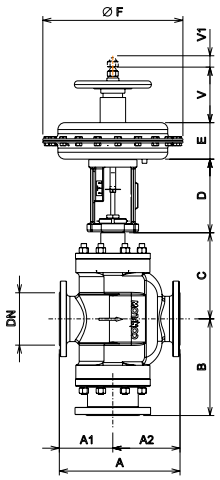
COMPONENTS LIST

1. Body
1a. Stud pipe
2. Upper seat
2a. Lower seat
3. Lower plug locknuts
4. Lower spring washer
5. Lower plug
5a. Upper plug
5b. Upper spring washer
5c. Upper plug locknuts.
6. Stem
6a. Plug shaft
7. Bonnet
8. Guide bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal “O” ring
14. External “O” ring
15. Packing adjusting nut
16. Stud-bolts
17. Body locknuts
18. Yoke
19. Travel indicator plate
20. Position indicator locknuts
21. Position indicator
22. Diaphragm rod
23. “O” ring
24. Airtight
25. Yoke gasket
26. Lower diaphragm casing
27. Diaph. casing internal bolts
28. Diaphragm spacer
29. Diaphragm
30. Diaphragm plate
31. Springs
32. Diaphragm bush
33. Diaphragm locknut
34. Diaphragm casing bolts
35. Upper diaphragm casing
36. Diaphragm casing locknuts

MATERIALS

1. See note (1) at page 1
1a. C40 carbon steel
2. AISI 316 stainless steel
2a. AISI 316 stainless steel
3. AISI 304 stainless steel
4. AISI 304 stainless steel
5. AISI 316 stainless steel
5a. AISI 316 stainless steel
5b. AISI 304 stainless steel
5c. AISI 304 stainless steel
6. AISI 316 stainless steel
7. See note (1)-(2) at page 1
8. AISI 304 stainless steel
9. Europil WS 3640 or PTFE
10. AISI 302 stainless steel
11. AISI 304 stainless steel
12. See note (3) at page 1
13. Viton FPM 70
14. Viton FPM 70
15. AISI 303 stainless steel
16. Galvanized steel
17. DIN 934 galvanized steel
18. GGG50 spheroidal c. iron
19. Policarbonate
20. DIN 936 galvanized steel
21. Aluminium
22. AISI 303 stainless steel
23. NBR
24. NBR
25. Cork – rubber
26. P11 steel
27. DIN 933 galvanized steel
28. Galvanized steel
29. EPDM 70
30. P01 steel
31. C98 UNI 3823
32. AISI 303 stainless steel
33. ISO 7380 galvanized steel
34. DIN 934 galvanized steel
35. P11 steel
36. DIN 933 galvanized steel

DIMENSIONS in mm.

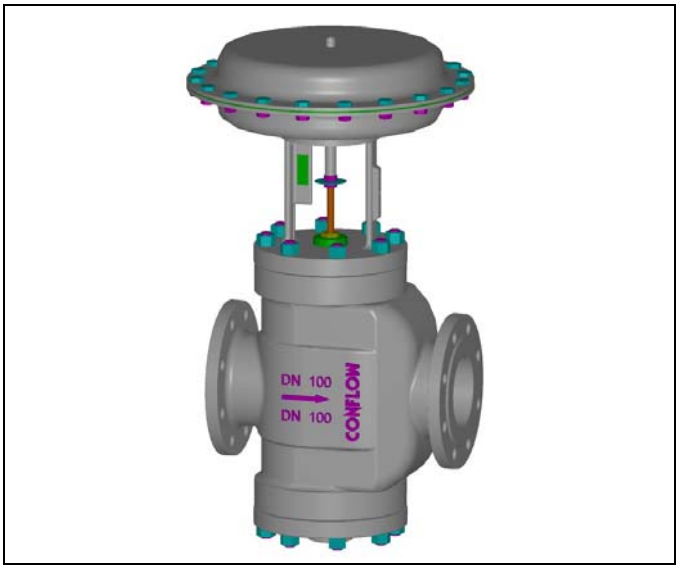


DN	Ø	A	A1	A2	B	C - Bonnet Std	C - Bonnet Finned	C - Bonnet Bellows	D	V	V1
125	5 “	425	186	239	344	252	435	435	213	166	50
150	6 “	473	206	267	375	258	442	442	213	166	50
200	8 “	568	234	334	430	283	465	465	213	166	50

Actuator	E	Ø F
400	119	408
500	119	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

DOUBLE SEAT TWO WAY CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE



TYPE 5800 AD

Normally open – air closes

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5800 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi …6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 50 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  (available from DN 125 to DN 200 only)
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :
- **EQP** (DN50-100) **EQV** (DN125-200) = equal percentage class II°
- **PL** (DN50-200) = linear class II°
- **PT** (DN50-200) = quick lift class II°

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request

- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :
- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA…4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 2014/34/UE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"		DN100 Ø 4"		DN125 Ø 5"		DN150 Ø 6"		DN200 Ø 8"	
EQP	CV	58.5	81.1	122.5		215.4		301		440		770	
	KV	50.4	69.9	105.6		185.7		259.4		379.3		663.7	
PL	CV	58.5	98.9	149.9		234.2		366		527		937	
	KV	50.4	85.3	129.2		201.9		315.5		454.3		807.7	
PT	CV	58.5	98.9	149.9		234.2		366		527		937	
	KV	50.4	85.3	129.2		201.9		315.5		454.3		807.7	
Reduced bore *		n.a.	2"	2"	2.1/2"	2.1/2"	3"	3"	4"	4"	5"	5"	6"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

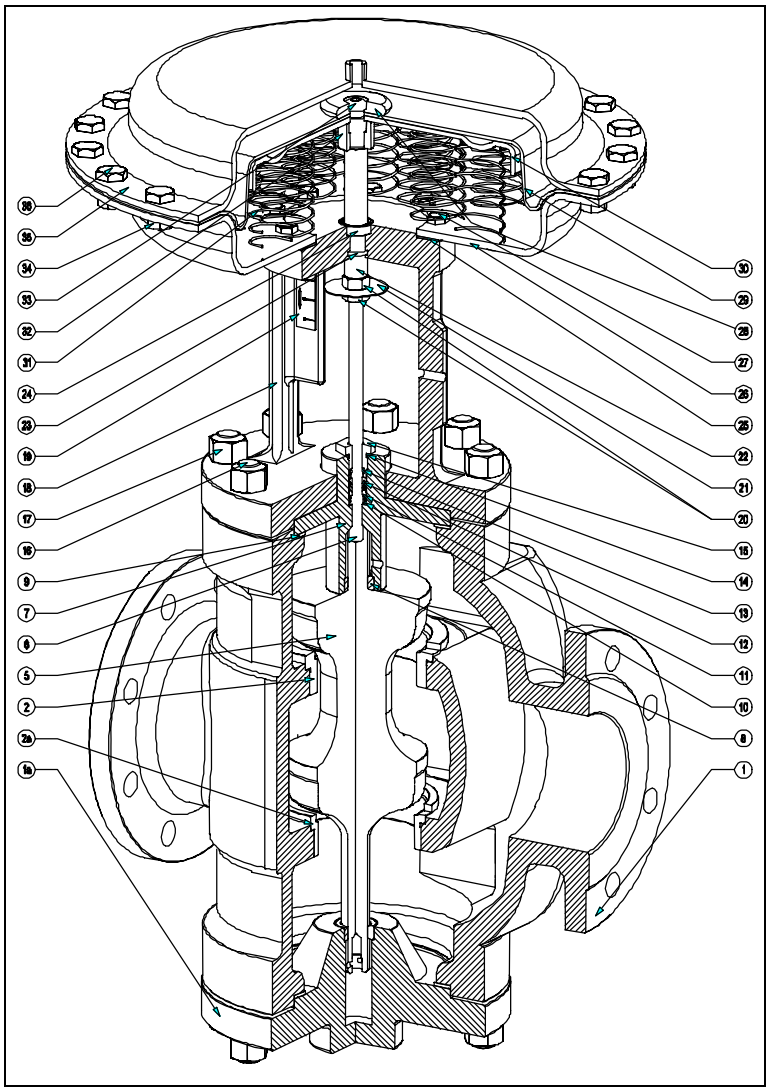
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Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens and closes, balanced) Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200
		Stroke 19	Stroke 28	Stroke 28	Stroke 28	Stroke 50	Stroke 50	Stroke 50
T310	3-15 psi	19	14	12	10	-	-	-
	6-30 psi	78	49	40	16.5	-	-	-
T400	3-15 psi	28	17	14	6	5	3.5	2.5
	6-30 psi	115	72	59	24.5	20.2	14.4	10.9
T500	3-15 psi	47	29	24	9.5	8.5	5.5	4.5
	6-30 psi	192	121	99	40	33.7	24.1	18.2

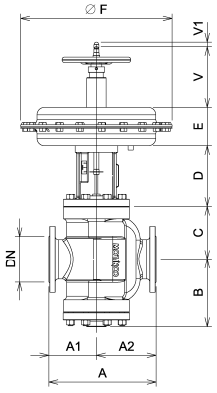
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi
4. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Bottom flange	1a. C40 carbon steel
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a. AISI 316 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



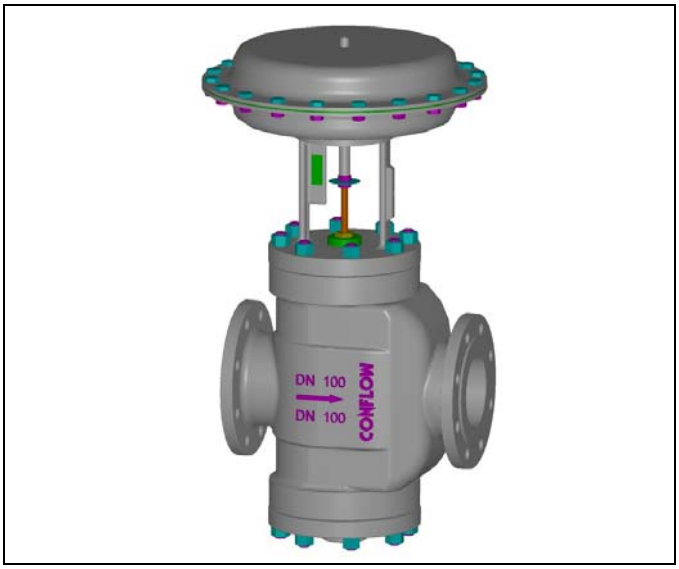
DN	Ø	A (1)	A (2)	A1	A2	B	C - Bonnet			D	V	V1
							Std	Finned	Bellows			
50	2 “	-	266	133	133	144	86	218	218	160	166	19
65	2.1/2“	-	292	138	154	184	111	309	309	160	166	28
80	3 “	-	317	174	143	194	135	333	333	160	166	28
100	4 “	-	368	164	204	224	160	363	363	204	166	28
125	5 “	425	425	186	239	271	252	435	435	213	166	50
150	6 “	473	473	206	267	297	258	442	442	213	166	50
200	8 “	568	568	234	334	351	283	565	565	213	166	50

A(1) cast iron = PN16 – ANSI150 – JIS10K
A(2) carbon and st. steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Servomot.	E	Ø F
310	95	336
400	119	408
400 6-30 psi	144	408
500	119	520
500 6-30 psi	144	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

DOUBLE SEAT TWO WAY CONTROL VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE



TYPE 5800 AR

Normally closed – air opens

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5800 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with multisprings pneumatic actuator having 3-15 psi … 6-18 psi … 6-30 psi standard control signals.
On request can be equipped with a pneumatic or electro-pneumatic pilot positioner..

SIZES : from DN 50 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  (available from DN 125 to DN 200 only)
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG :

- **EQP** (DN50-100) **EQV** (DN125-200) = equal percentage class II°
- **PL** (DN50-200) = linear class II°
- **PT** (DN50-200) = quick lift class II°

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Control signals : 3-15 psi … 6-18 psi … 6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet n° GRAFICI/I

ON REQUEST :

- Stellite (degree 6°) on seat and plug and guide bush
- Reduced bore (see below table)
- Pneumatic pilot positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA…4-12 mA...12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 2014/34/UE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"		DN100 Ø 4"		DN125 Ø 5"		DN150 Ø 6"		DN200 Ø 8"	
EQP	CV	58.5	81.1	122.5		215.4		301		440		770	
	KV	50.4	69.9	105.6		185.7		259.4		379.3		663.7	
PL	CV	58.5	98.9	149.9		234.2		366		527		937	
	KV	50.4	85.3	129.2		201.9		315.5		454.3		807.7	
PT	CV	58.5	98.9	149.9		234.2		366		527		937	
	KV	50.4	85.3	129.2		201.9		315.5		454.3		807.7	
Reduced bore *		n.a.	2"	2"	2.1/2"	2.1/2"	3"	3"	4"	4"	5"	5"	6"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

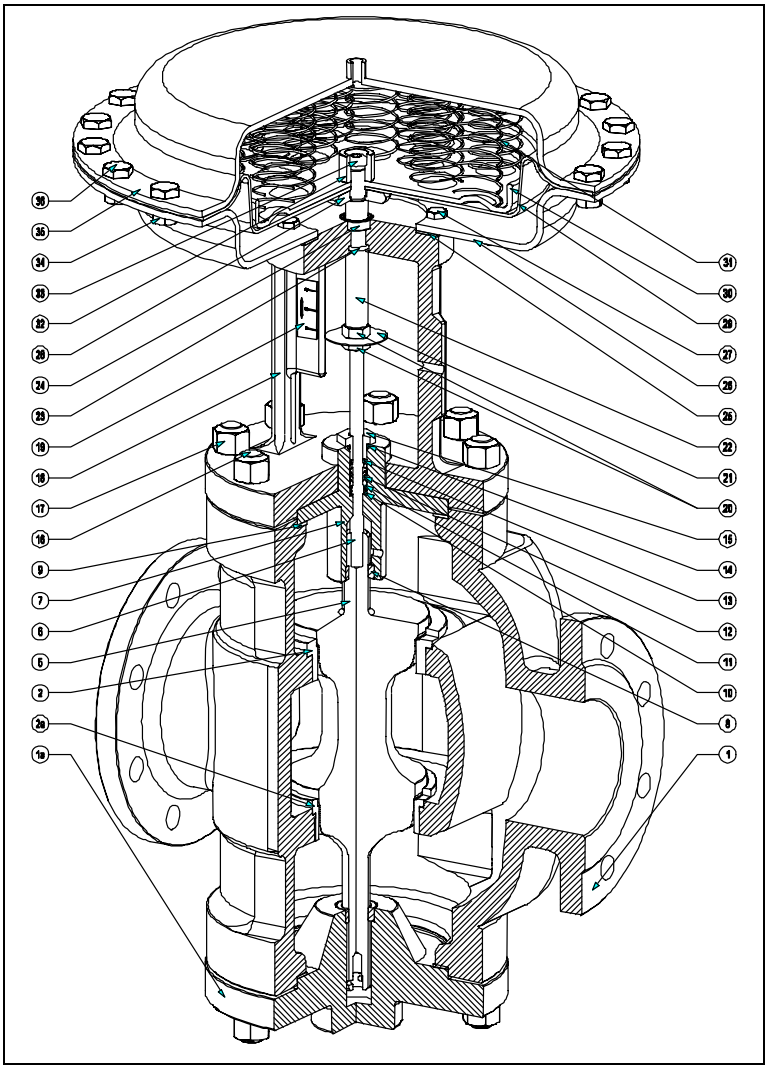
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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens and closes, balanced) Strokes in mm – Signals in psi

Actuator type	Signal psi	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200
		Stroke 19	Stroke 28	Stroke 28	Stroke 28	Stroke 50	Stroke 50	Stroke 50
T310	3-15 psi	19	11	9	4	-	-	-
	6-18 psi	38	24	19	10	-	-	-
	6-30 psi	58	32	26	11	-	-	-
T400	3-15 psi	28	17	14	6	5	3.5	2.5
	6-18 psi	56	35	29	12	10	7	5
	6-30 psi	86	78	64	27	23	16	12
T500	3-15 psi	47	29	24	9.5	8.5	5.5	4.5
	6-18 psi	94	59	48	19.5	16.5	11.5	9
	6-30 psi	143	140	116	47	30	21	16

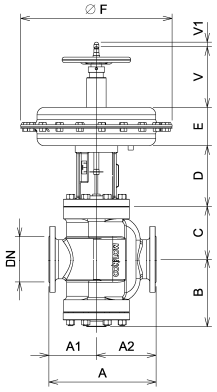
1. The values given are referred to the force of actuator and they can be used within the limit of the body rating
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
1a. Bottom flange	1a. C40 carbon steel
2. Upper seat	2. AISI 316 stainless steel
2a. Lower seat	2a. AISI 316 stainless steel
5. Plug	5. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See note (1)-(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



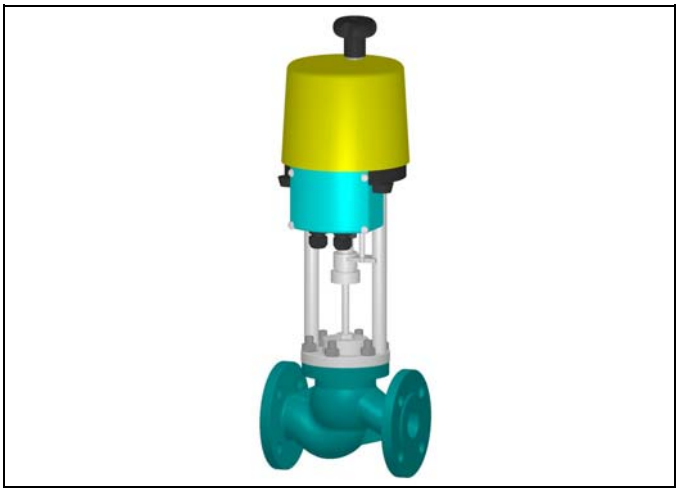
DN	Ø	A (1)	A (2)	A1	A2	B	C - Bonnet			D	V	V1
							Std	Finned	Bellows			
50	2 “	-	266	133	133	144	86	218	218	160	166	19
65	2.1/2“	-	292	138	154	184	111	309	309	160	166	28
80	3 “	-	317	174	143	194	135	333	333	160	166	28
100	4 “	-	368	164	204	224	160	363	363	204	166	28
125	5 “	425	425	186	239	271	252	435	435	213	166	50
150	6 “	473	473	206	267	297	258	442	442	213	166	50
200	8 “	568	568	234	334	351	283	565	565	213	166	50

A(1) cast iron = PN16 – ANSI150 – JIS10K
A(2) carbon and st. steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Servomot.	E	Ø F
310	95	336
400	119	408
400 6-30 psi	144	408
500	119	520
500 6-30 psi	144	520

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES CE



TYPE 2000 EP / 2000 AMS

With tension opens and closes

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series Type 2000 EP / 2000 AMS are equipped with EN "straight-through" pattern bodies and EN flanges.
Type 2000 EP is with linear actuator.
Type 2000 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 2000 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 2000 AMS : 4-20 mA / 0-10 V

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40

MATERIALS OF BODY GROUP (1) :

- **Cast Iron EN-GJL-250 UNI EN 1561 PN16** internal AISI 316
- **Carbon Steel 1.0619 PN 16 - PN 40** internal AISI 316
- **St. Steel AISI 316 1.4408 PN 16 - PN 40** internal AISI 316 - bonnet st. steel AISI 316

PLUGS :

- **EQP** (DN15-50) **EQV** (DN65-100) = equal percentage class IV°
- **PL** (DN15-50) **LV** (DN65-100) = linear classe IV°
- **PT** (DN15-50) **VPT** (DN65-100)= quick lift class IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	2000 EP	2000 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

2000EP	PSL201	PSL202	PSL204	PSL210
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

2000 AMS	PSL202AMS11	PSL204AMS11	PSL210AMS11
Power VA	30	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 - 0,35

ON REQUEST :

	2000 EP	2000 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat – plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs Class IV°		NOMINAL DIAMETER								
		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
		Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
	KV	2.9	5.7	9.3	14.7	20.5	43	60.5	75.2	102.1
PL	CV	3.4	6.6	11.2	17.6	23.9	51.2	72.7	89.3	123.8
	KV	2.9	5.7	9.6	15.2	20.6	44	62.7	77.0	106.7
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2
Reduced bore*		•	• 1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

• DN 15	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear..MFS = Equal percentage * CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL/LV only)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

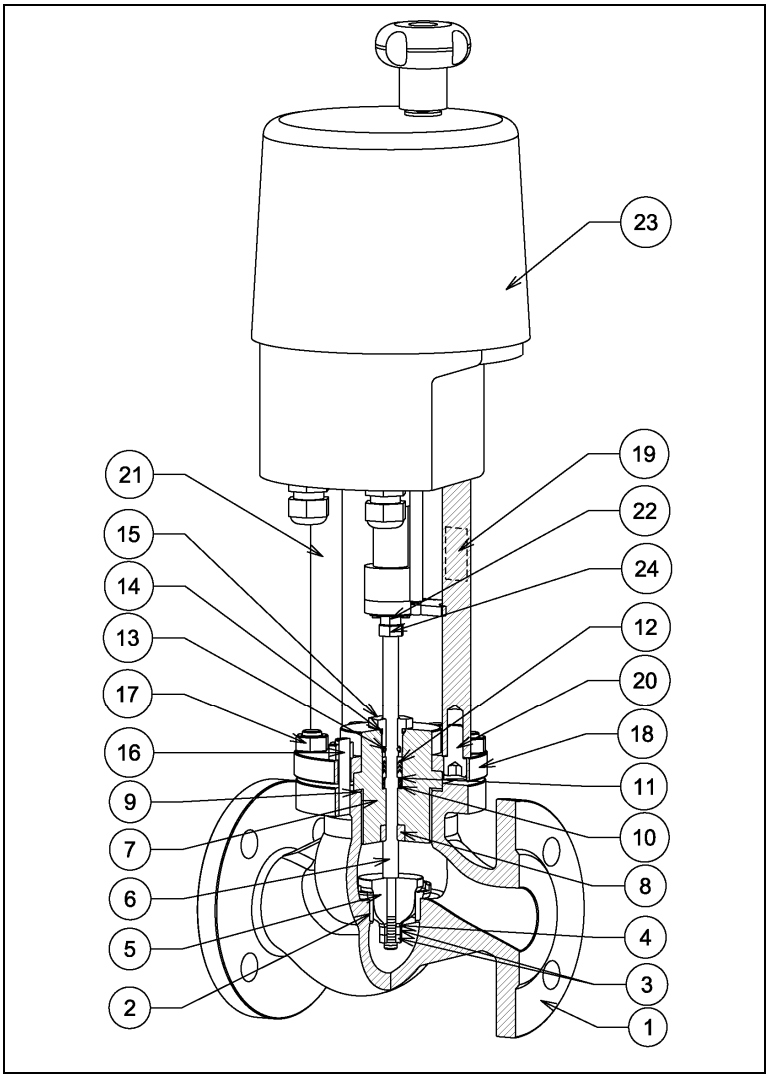
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

	DN		15	20	25	32	40	50	65	80	100
	Stroke mm		11			19			28		
EP	PSL201	Kg/cm2	**50**	**31,3**	**17,6**	**11,3**	**8**	**4,6**	n.a.	n.a.	n.a.
		Vel. sec	*44*	*44*	*44*	*76*	*76*	*76*			
	PSL202	Kg/cm2	n.a.	**62,7**	**35,2**	**22,6**	**15,7**	**9,1**	**5,2**	**3,6**	**2**
		Vel. sec		*22*	*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL204	Kg/cm2	n.a.	n.a.	**70,3**	**45,2**	**31,5**	**18,2**	**10,3**	**7,1**	**4**
		Vel. sec			*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78,7**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*38*	*57*	*84*	*84*	*84*
AMS	PSL202	Kg/cm2	**115**	**72**	**40**	**26**	**18**	**9,5**	**5,9**	**4,1**	**2,3**
		Vel. sec	*25 ..12,5*	*25 ..12,5*	*25 ..12,5*	*42 ..21*	*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL204	Kg/cm2	n.a.	n.a.	n.a.	**50**	**35**	**18,6**	**11,6**	**10,8**	**4,5**
		Vel. sec					*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*95 ..54*	*95 ..54*	*140 ..80*	*140 ..80*	*140 ..80*

1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



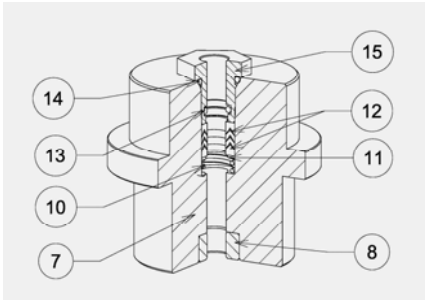
COMPONENTS LIST

1. Body
2. Seat
3. Plug locknuts
4. Spring washer
5. Plug
6. Stem
7. Bonnet
8. Guide bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal “O” ring
14. External “O” ring
15. Packing adjusting nut
16. Stud-bolts
17. Body locknuts
18. Upper bonnet flange
19. Travel indicator plate
20. N° 2 Column fixing screwes
21. Actuator columns
22. Flange + locking screws
23. Electric actuator
24. Stem nut

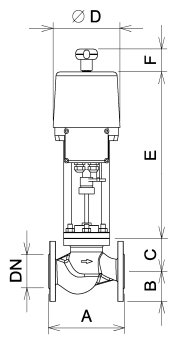
MATERIALS

1. See note (1) l° pag.
2. St. steel AISI 316
3. St. steel AISI 304
4. St. steel AISI 304
5. St. steel AISI 316
6. St. steel AISI 316
7. See note (1) (2) l° pag.
8. St. steel AISI 304
9. Europil WS 3640 or PTFE
10. St. steel AISI 302
11. St. steel AISI 304
12. See note (3) l° pag.
13. Viton FPM 70
14. Viton FPM 70
15. St. steel AISI 303
16. Galvanized steel
17. Galv. steel DIN 934
18. C40 nickel plated steel
19. Polycarbonate
20. Galv. steel DIN 912
21. St. steel AISI 430
22. St. steel A2
23. See technical data at page 1
24. Galv. steel DIN 936

BONNET DETAIL



DIMENSIONS in mm.



BODY GROUP

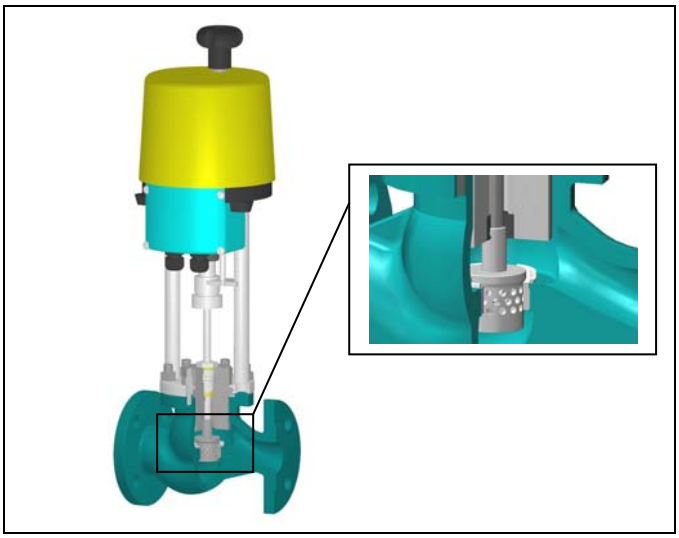
DN	Ø	A	B	C - Bonnet		
				Std	Finned	Bellows
15	**1/2”**	130	47.5	49	181	181
20	**3/4”**	150	52.5	58	190	190
25	**1”**	160	57.5	68	200	200
32	**1.1/4”**	180	70	70	202	202
40	**1.1/2”**	200	75	82	214	214
50	**2”**	230	82.5	86	218	218
65	**2.1/2”**	290	92.5	111	309	309
80	**3”**	310	100	135	333	333
100	**4”**	350	118	160	363	363

ACTUATOR

PSL201 - PSL202 PSL204 – PSL210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE



TYPE 2200 EP / 2200 AMS

Simple Cage

With tension opens and closes

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2200 EP/2200 AMS are equipped with EN "straight-through" pattern bodies with EN flanges.
Modulating integral cage plug (low-noise) for control of virtually all line media.
Type 2200 EP is with linear actuator.
Type 2200 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 2200 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 2200 AMS : 4-20 mA / 0-10 V

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN16** internal AISI 316
- **Carbon steel 1.0619 PN 16 - PN 40** internal AISI 316
- **St. Steel AISI 316 1.4408 PN 16 - PN 40** internal AISI 316 - bonnet st. steel AISI316

PLUGS :

- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN15/25** = 1/75
- **RANGEABILITY DN32/50** = 1/160

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	2200 EP	2200 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

2200EP	PSL201	PSL202	PSL204	PSL210
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

2200 AMS	PSL202AMS11	PSL204AMS11	PSL210AMS11
Power VA	30	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 - 0,35

ON REQUEST :

	2200 EP	2200 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat – plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plugs Full bore	DN 15 Ø 1/2"	DN 20 Ø 3/4"		DN 25 Ø 1"		DN 32 Ø 1.1/4"		DN 40 Ø 1.1/2"		DN 50 Ø 2"	
CV	3,13	5,11		9,68		16,77		24,15		40,82	
KV	2,67	4,36		8,26		14,30		20,60		34,82	
CV		(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77	(Ø 1.1/2")	24,15
KV		(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30	(Ø 1.1/2")	20,60
CV				(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77
KV				(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30
CV						(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68
KV						(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26
CV								(Ø 1/2")	3,13	(Ø 3/4")	5,11
KV								(Ø 1/2")	3,67	(Ø 3/4")	4,36
CV										(Ø 1/2")	3,13
KV										(Ø 1/2")	2,67

Microflow passage From DN 15 to DN 25 (on request)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

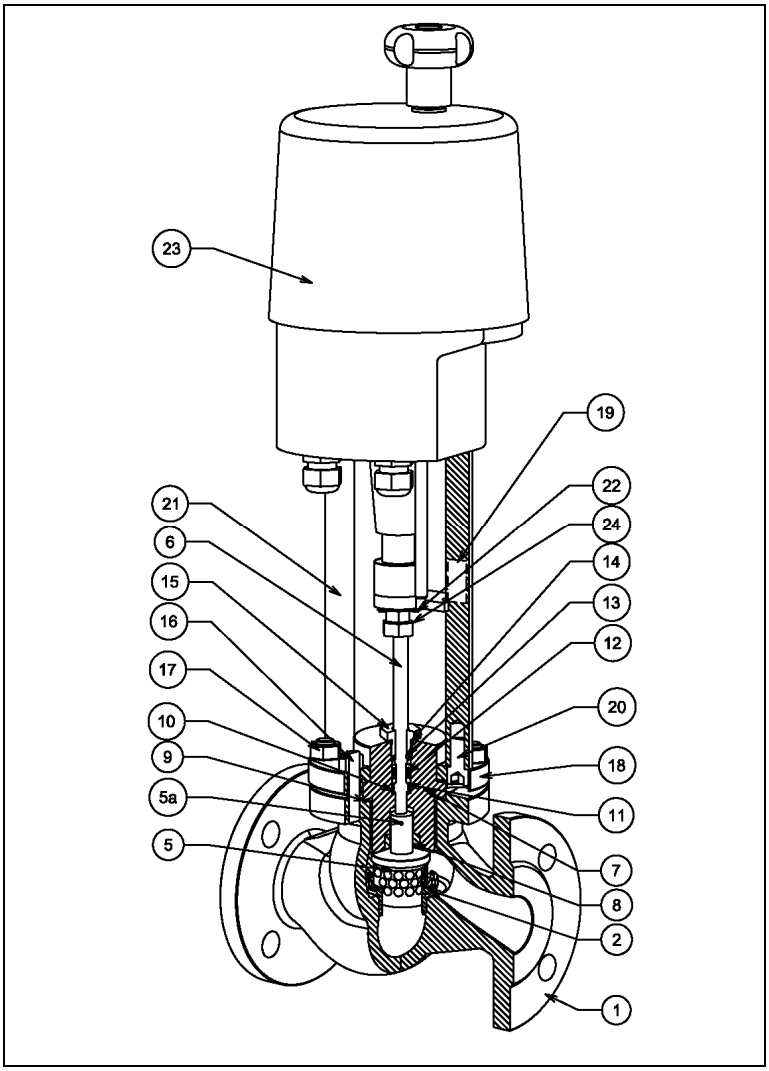
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.01 www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			15	20	25	32	40	50
stroke mm				11			19	
EP	PSL201	Kg/cm2	**50**	**31,3**	**17,6**	**11,3**	**8**	**4,6**
		Vel. sec	*44*	*44*	*44*	*76*	*76*	*76*
	PSL202	Kg/cm2	n.a.	**62,7**	**35,2**	**22,6**	**15,7**	**9,1**
		Vel. sec		*22*	*22*	*38*	*38*	*38*
	PSL204	Kg/cm2	n.a.	n.a.	**70,3**	**45,2**	**31,5**	**18,2**
		Vel. sec			*22*	*38*	*38*	*38*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78,7**	**45,5**
		Vel. sec					*38*	*57*
AMS	PSL202	Kg/cm2	**115**	**72**	**40**	**26**	**18**	**9,5**
		Vel. sec	*25 ..12,5*	*25 ..12,5*	*25 ..12,5*	*42 ..21*	*42 ..21*	*42 ..21*
	PSL204	Kg/cm2	n.a.	n.a.	n.a.	**50**	**35**	**18,6**
		Vel. sec					*42 ..21*	*42 ..21*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78**	**45,5**
		Vel. sec					*95 ..54*	*95 ..54*

1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



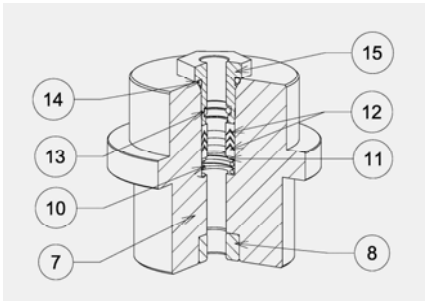
COMPONENTS LIST

1. Body
2. Seat
5. Plug
5a. Pin
6. Stem
7. Bonnet
8. Guide bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal “O” ring
14. External “O” ring
15. Packing adjusting nut
16. Stud-bolts
17. Body locknuts
18. Upper bonnet flange
19. Travel indicator plate
20. N°2 Column fixing screwes
21. Actuator columns
22. Flange + locking screws
23. Electric actuator
24. Stem nut

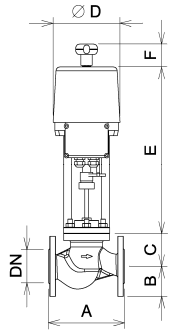
MATERIALS

1. See note (1) I° pag.
2. St. steel AISI 316
5. St. steel AISI 316
5a. Carbon steel
6. St. steel AISI 316
7. See note (1) (2) I° pag.
8. St. steel AISI 304
9. Europil WS 3640 or PTFE
10. St. steel AISI 302
11. St. steel AISI 304
12. See note (3) I° pag.
13. Viton FPM 70
14. Viton FPM 70
15. St. steel AISI 303
16. Galvanized steel
17. Galv. steel DIN 934
18. C40 nickel plated steel
19. Polycarbonate
20. Galv. steel DIN 912
21. St. steel AISI 430
22. St. steel AISI A2
23. See technical data at page 1
24. Galv. steel DIN 936

BONNET DETAIL



DIMENSIONS in mm.



BODY GROUP

DN	Ø	A	B	C - Bonnet		
				Std	Finned	Bellows
15	**1/2”**	130	47.5	49	181	181
20	**3/4”**	150	52.5	58	190	190
25	**1”**	160	57.5	68	200	200
32	**1.1/4”**	180	70	70	202	202
40	**1.1/2”**	200	75	82	214	214
50	**2”**	230	82.5	86	218	218
65	**2.1/2”**	290	92.5	111	309	309
80	**3”**	310	100	135	333	333
100	**4”**	350	118	160	363	363

ACTUATOR

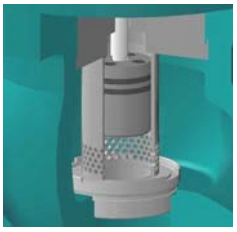
PSL201 - PSL202 PSL204 – PSL210		
Ø D	**E**	**F**
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

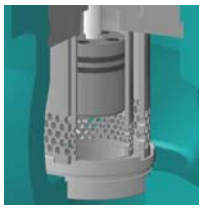
SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE



2300 Simple Cage



2400 Double Cage



TYPE 2300 EP / 2300 AMS

Simple cage with tension opens and closes

TYPE 2400 EP / 2400 AMS

Double cage with tension opens and closes

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series Type 2300-2400 EP / 2300-2400 AMS are equipped with EN "straight-through" pattern bodies with EN flanges.
Modulating balanced piston plug (low-noise), sliding in a sigle or double cage for control of virtually all line media.
Type 2300/2400 EP is with linear actuator.
Type 2300/2400 is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 2300/2400 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 2300/2400 AMS : 4-20 mA / 0-10 V

SIZES : from DN 65 to DN 100

BODY CONNECTIONS: flanged EN 1092-1 PN16…PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN16** internal AISI 316
- **Carbon steel 1.0619 PN 16 - PN 40** internal AISI 316
- **St. Steel AISI 316 1.4408 PN 16 - PN 40**
  internal AISI 316 - bonnet st. steel AISI 316

PLUGS :

- **CAGE** = linear balanced class IV°
- **RANGEABILITY DN65/100** = 1/100

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	2300/2400 EP	2300/2400 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

2300/2400 EP	PSL201	PSL202	PSL204
Power VA	25,9	37 / 40	44 / 47
Velocity mm/s	0,25	0,5	0,5

2300/2400 AMS	PSL202AMS11	PSL204AMS11
Power VA	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9

ON REQUEST :

	2300/2400 EP	2300/2400 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat – plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Compreso
Positioner	4-20 mA / 0-10 V	Compreso
Trasmitter	4-20 mA	Compreso
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Not applicable

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full Bore	DN 65 Ø 2.1/2"		DN 80 Ø 3"		DN 100 Ø 4"	
CV	56.79		75.31		129.91	
KV	48.44		64.24		110.81	
CV	(Ø 2") *	40.82	(Ø 2.1/2")	56.79	(Ø 3")	75.31
KV	(Ø 2") *	34.82	(Ø 2.1/2")	48.44	(Ø 3")	64.24
CV	(Ø 1.1/2") *	24.15	(Ø 2") *	40.82	(Ø 2.1/2")	56.79
KV	(Ø 1.1/2") *	20.60	(Ø 2") *	34.82	(Ø 2.1/2")	48.44
CV	(Ø 1.1/4") *	16.77	(Ø 1.1/2") *	24.15	(Ø 2") *	40.82
KV	(Ø 1.1/4") *	14.30	(Ø 1.1/2") *	20.60	(Ø 2") *	34.82

* Integral plug version with simple cage only (see leaflet 2200EP/AMS/E)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

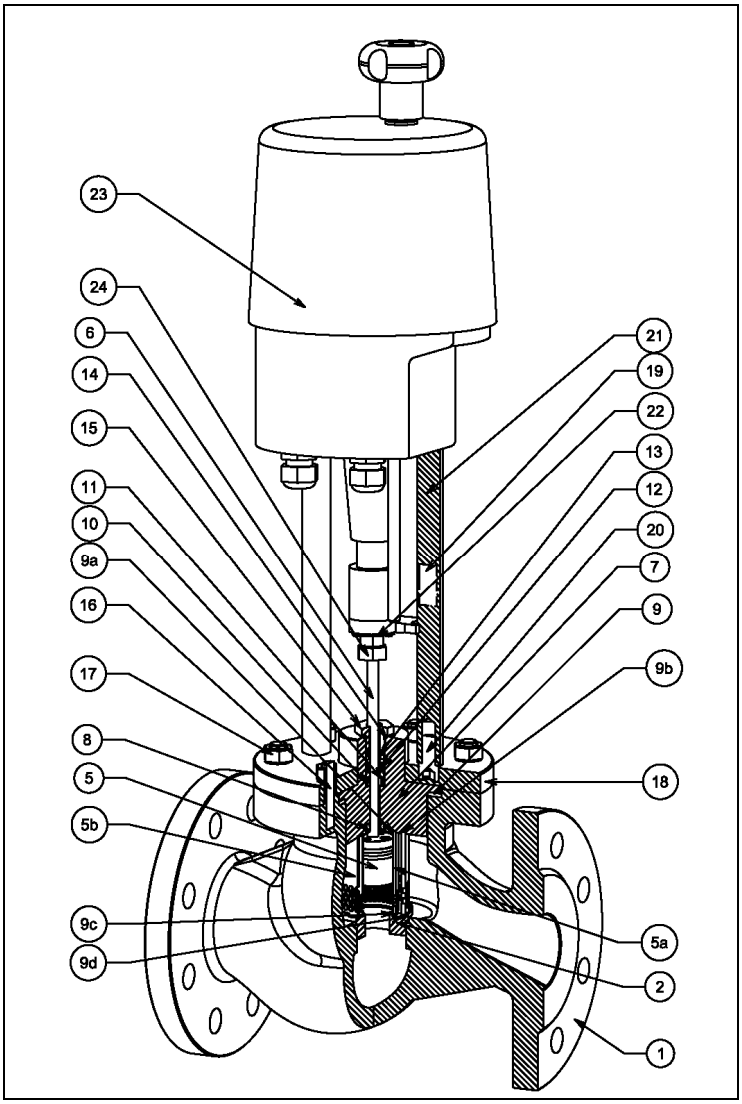
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			DN 65	DN 80	DN 100
stroke mm			28	28	28
EP	PSL201	Kg/cm2	**24.8**	**21.7**	**19.9**
		Vel. sec	*112*	*112*	*112*
	PSL202	Kg/cm2	**49.6**	**43.3**	**39.9**
		Vel. sec	*56*	*56*	*56*
	PSL204	Kg/cm2	**99.1**	**86.7**	**79.8**
		Vel. sec	56	56	56
AMS	PSL202	Kg/cm2	**57**	**49,8**	**45,9**
		Vel. sec	*62..31*	*62..31*	*62..31*
	PSL204	Kg/cm2	**111,5**	**97,5**	**89,7**
		Vel. sec	*62..31*	*62..31*	*62..31*

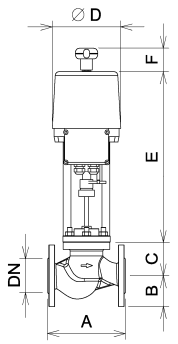
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



	COMPONENTS PART	MATERIALS
1.	Body	See note (1) l° pag.
2.	Seat	St. steel AISI 316
5.	Piston plug with lower ring and upper tight	St. steel AISI 316 + sinterized graphite + FKM tight
5a	Internal Simple Cage	St. steel AISI 316
5b	External Double Cage	St. steel AISI 316
6.	Stem	St. steel AISI 316
7.	Bonnet	See note (1) (2) l° pag.
8.	"O" Ring	Viton FPM 70
9.	Body gaskets	Europil WS 3640 or PTFE
9a.	Upper internal cage gasket	WS 3640/C-4500 or PTFE
9b.	Upper external cage gasket	WS 3640/C-4500 or PTFE
9c.	Lower internal cage gasket	WS 3640/C-4500 or PTFE
9d.	Lower external cage gasket	WS 3640/C-4500 or PTFE
10.	Packing spring	St. steel AISI 302
11.	Packing washer	St. steel AISI 304
12.	Packing rings	See note (3) l° pag.
13.	Internal "O" ring	Viton FPM 70
14.	External "O" ring	Viton FPM 70
15.	Packing adjusting nut	St. steel AISI 303
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	Galv. steel DIN 934
18.	Upper bonnet flange	C40 nickel plated steel
19.	Travel indicator plate	Polycarbonate
20.	N°2 Column fixing screwes	Galv. steel DIN 912
21.	Actuator columns	St. steel AISI 430
22.	Flange + locking screws	St. steel A2
23.	Electric actuator	See technical data at page 1
24.	Stem nut	Galv. steel DIN 936

DIMENSIONS in mm.



BODY GROUP

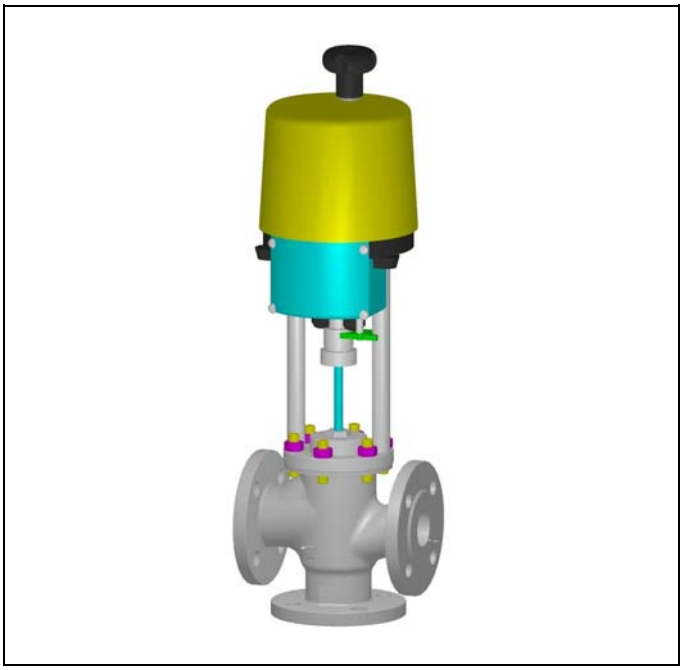
DN	Ø	A	B	C - Bonnet		
				Std	Alettato	Soffietto
65	**2.1/2"**	290	130	111	309	309
80	**3"**	310	140	135	333	333
100	**4"**	350	150	160	363	363

ACTUATOR

PSL201 – PSL202 PSL204		
Ø D	E	F
176	417	50
176	417	50
176	419	50

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

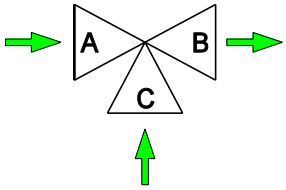
THREE-WAY MIXING CONTROL VALVES CE



TYPE 2600 EP / 2600 AMS

with tension opens and closes AB and CB

Face-to-face EN 558-1



DESCRIPTION

The "UNIWORLD" series Type 2600 EP / 2600 AMS are equipped with EN "straight-through" pattern 3 way bodies and EN flanges.
Type 2600 EP is with linear actuator..
Type 2600 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 2600 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 2600 AMS : 4-20 mA / 0-10 V

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40

MATERIALS OF BODY GROUP (1):

- **Cast iron EN-GJL-250 UNI EN 1561 PN16** internal AISI 316
- **SG iron EN-GJS-400-18LT (GGG40.3) PN16** internal AISI 316
- **Carbon steel 1.0619 PN16…PN40** internal AISI 316
- **St. Steel AISI316 1.4408 PN16…PN40** internal AISI 316
  Bonnet st. steel AISI 316

PLUGS :

- **PL** (DN15-20) **LV** (DN25-100) = linear classe IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	2600 EP	2600 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

2600EP	PSL201	PSL202	PSL204	PSL210
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

2600 AMS	PSL202AMS11	PSL204AMS11	PSL210AMS11
Power VA	30	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 - 0,35

ON REQUEST :

	2600 EP	2600 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Sede-otturatore class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV e KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77.0	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	99.6	116.2	162.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	85.8	100.1	140
Reduced bore*		n.a.	1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable * CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

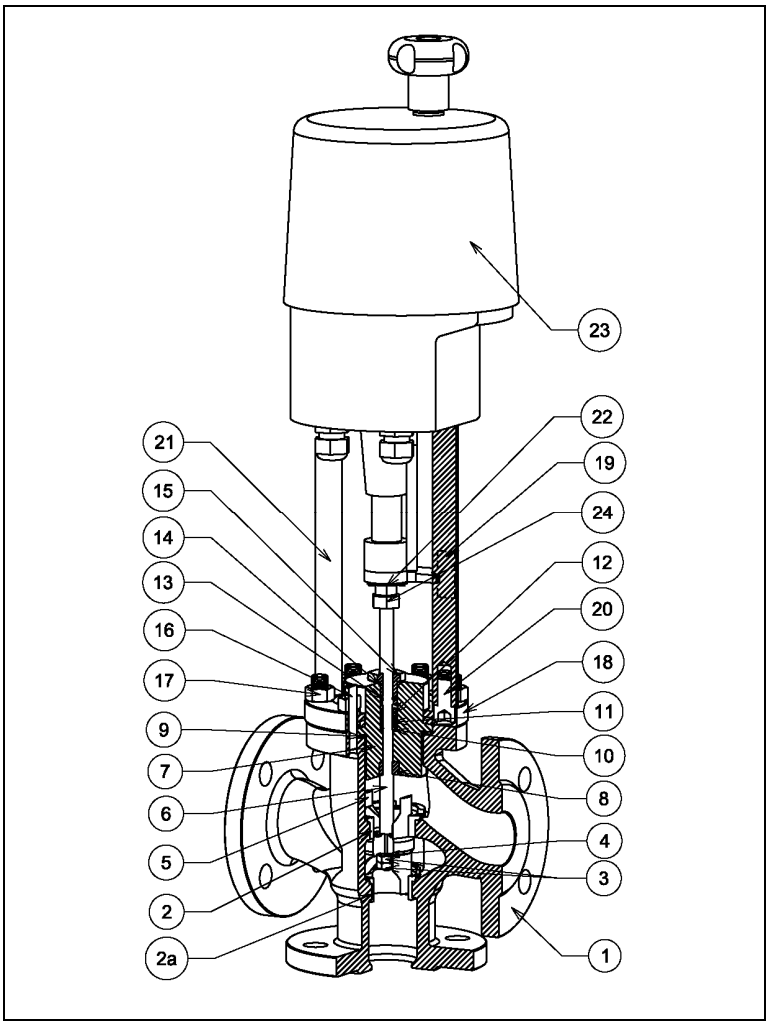
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			15	20	25	32	40	50	65	80	100
stroke mm			11			19			28		
EP	PSL201	Kg/cm2	**50**	**31,3**	**17,6**	**11,3**	**8**	**4,6**	n.a.	n.a.	n.a.
		Vel. sec	*44*	*44*	*44*	*76*	*76*	*76*			
	PSL202	Kg/cm2	n.a.	**62,7**	**35,2**	**22,6**	**15,7**	**9,1**	**5,2**	**3,6**	**2**
		Vel. sec		*22*	*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL204	Kg/cm2	n.a.	n.a.	**70,3**	**45,2**	**31,5**	**18,2**	**10,3**	**7,1**	**4**
		Vel. sec			*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78,7**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*38*	*57*	*84*	*84*	*84*
AMS	PSL202	Kg/cm2	**115**	**72**	**40**	**26**	**18**	**9,5**	**5,9**	**4,1**	**2,3**
		Vel. sec	*25 ..12,5*	*25 ..12,5*	*25 ..12,5*	*42 ..21*	*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL204	Kg/cm2	n.a.	n.a.	n.a.	**50**	**35**	**18,6**	**11,6**	**10,8**	**4,5**
		Vel. sec					*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*95 ..54*	*95 ..54*	*140 ..80*	*140 ..80*	*140 ..80*

1. The values given are referred to the force of the actuator abd they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



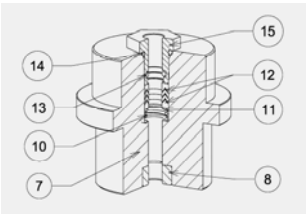
COMPONENTS LIST

1. Body
2. Upper seat
2a. Lower seat
3. Plug locknuts
4. Spring washer
5. Plug
6. Stem
7. Bonnet
8. Guide bush
9. Body gasket
10. Packing spring
11. Packing washer
12. Packing rings
13. Internal “O” ring
14. External “O” ring
15. Packing adjusting nuts
16. Stud-bolts
17. Body locknuts
18. Upper bonnet flange
19. Travel indicator plate
20. N° 2 column fixing screwes
21. Actuator columns
22. Flange + locking screws
23. Electric actuator
24. Stem nut

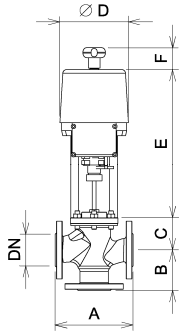
MATERIALS

1. See note (1) I° pag.
2. St. steel AISI 316
2a. St. steel AISI 316
3. St. steel AISI 304
4. St. steel AISI 304
5. St. steel AISI 316
6. St. steel AISI 316
7. See note (1) (2) I° pag.
8. St. steel AISI 304
9. Europil WS 3640 or PTFE
10. St. steel AISI 302
11. St. steel AISI 304
12. See (3) I° pag.
13. Viton FPM 70
14. Viton FPM 70
15. St. steel AISI 303
16. Galvanized steel
17. Galv. steel DIN 934
18. C40 nickel plated
19. Polycarbonate
20. Galv. steel DIN 912
21. St. steel AISI 430
22. St. steel A2
23. See technical data at page 1
24. Galv. steel DIN 936

BONNET DETAIL



DIMENSIONS in mm.



BODY GROUP

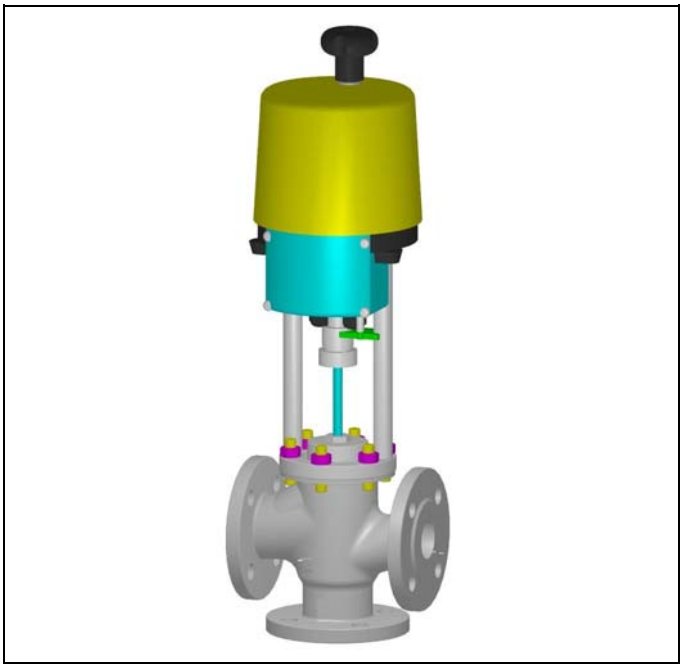
DN	Ø	A	B	C - Bonnet		
				Std	Finned	Bellows
15	**1/2”**	130	70	49	181	181
20	**3/4”**	150	80	58	190	190
25	**1”**	160	85	68	200	200
32	**1.1/4”**	180	100	70	202	202
40	**1.1/2”**	200	105	82	214	214
50	**2”**	230	120	86	218	218
65	**2.1/2”**	290	130	111	309	309
80	**3”**	310	140	135	333	333
100	**4”**	350	150	160	363	363

ACTUATOR

PSL201 – PSL202 PSL204 – PSL210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50

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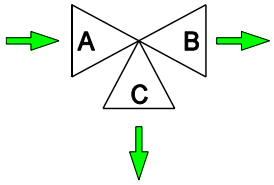
THREE-WAY DIVERTING CONTROL VALVES CE



TYPE 2700 EP / 2700 AMS

with tension opens and closes AB and AC

Face-to-face EN 558-1



DESCRIPTION

The "UNIWORLD" series Type 2700 EP / 2700 AMS are equipped with EN "straight-through" pattern 3 way bodies and EN flanges.
Type 2700 EP is with linear actuator..
Type 2700 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 2700 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 2700 AMS : 4-20 mA / 0-10 V

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN16** internal AISI 316
- **SG iron EN-GJS-400-18LT (GGG40.3) PN16** internal AISI 316
- **Carbon steel 1.0619 PN16…PN40** internal AISI 316
- **St. steel AISI316 1.4408 PN16…PN40** internal AISI 316
  Bonnet st. steel AISI 316

PLUGS :

- **PL** (DN15-20) **LV** (DN25-100) = linear class IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C
  with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS:

	2700 EP	2700 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

2700EP	PSL201	PSL202	PSL204	PSL210
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

2700 AMS	PSL202AMS11	PSL204AMS11	PSL210AMS11
Power VA	30	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 - 0,35

ON REQUEST :

	2700 EP	2700 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat - Plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN 15	DN 20	DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100	
		Ø 1/2"	Ø 3/4"	Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"		Ø 2.1/2"		Ø 3"		Ø 4"	
PL	CV	3.4	6.6	10		23.4		28		36.4		72.7		89.3		123.8	
	KV	2.9	5.7	8.6		20.1		24.1		31.4		62.7		77.0		106.7	
PT	CV	3.4	6.6	13.8		30.3		38.7		52		107.3		129.3		175.4	
	KV	2.9	5.7	11.9		26.1		33.4		44.8		92.5		111.5		151.2	
Reduced bore*		n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

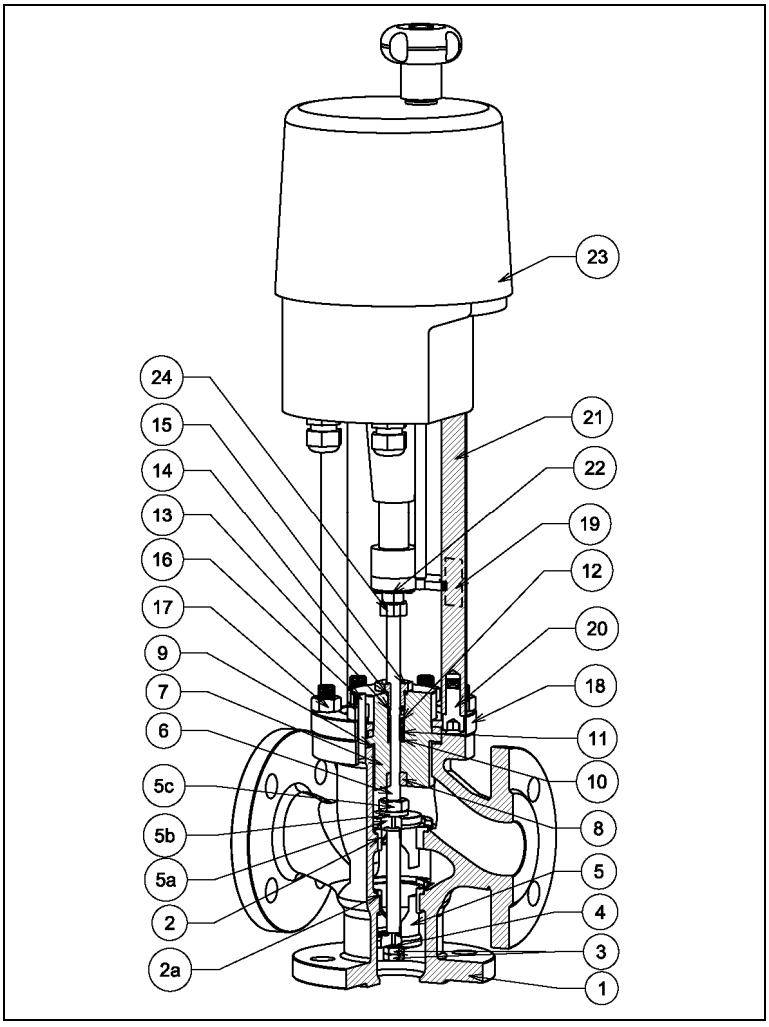
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			15	20	25	32	40	50	65	80	100
stroke mm			11			19			28		
EP	PSL201	Kg/cm2	**50**	**31,3**	**17,6**	**11,3**	**8**	**4,6**	n.a.	n.a.	n.a.
		Vel. sec	*44*	*44*	*44*	*76*	*76*	*76*			
	PSL202	Kg/cm2	n.a.	**62,7**	**35,2**	**22,6**	**15,7**	**9,1**	**5,2**	**3,6**	**2**
		Vel. sec		*22*	*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL204	Kg/cm2	n.a.	n.a.	**70,3**	**45,2**	**31,5**	**18,2**	**10,3**	**7,1**	**4**
		Vel. sec			*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78,7**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*38*	*57*	*84*	*84*	*84*
AMS	PSL202	Kg/cm2	**115**	**72**	**40**	**26**	**18**	**9,5**	**5,9**	**4,1**	**2,3**
		Vel. sec	*25 ..12,5*	*25 ..12,5*	*25 ..12,5*	*42 ..21*	*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL204	Kg/cm2	n.a.	n.a.	n.a.	**50**	**35**	**18,6**	**11,6**	**10,8**	**4,5**
		Vel. sec					*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*95 ..54*	*95 ..54*	*140 ..80*	*140 ..80*	*140 ..80*

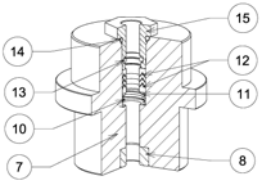
1. The values given are referred to the force of the actuator abd they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS

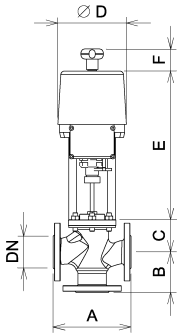


	COMPONENTS LIST	MATERIALS
1.	Body	See note (1) l° pag.
2.	Upper seat	St. steel AISI 316
2a.	Lower seat	St. steel AISI 316
3.	Plug locknuts	St. steel AISI 304
4.	Spring washer	St. steel AISI 304
5.	Lower plug	St. steel AISI 316
5a.	Upper plug	St. steel AISI 316
5b.	Upper spring washer	St. steel AISI 304
5c.	Upper plug locknuts	St. steel AISI 304
6.	Stem	St. steel AISI 316
7.	Bonnet	See note (1) (2) l° pag.
8.	Guide bush	St. steel AISI 304
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	St. steel AISI 302
11.	Packing washer	St. steel AISI 304
12.	Packing rings	See note (3) l° pag.
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nuts	St. steel AISI 303
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	Galv. steel DIN 934
18.	Upper bonnet flange	C40 nickel plated
19.	Travel indicator plate	Polycarbonate
20.	N° 2 column fixing screwes	Galv. steel DIN 912
21.	Actuator columns	St. steel AISI 430
22.	Flange + locking screws	St. steel A2
23.	Electric actuator	See technical data at page 1
24.	Stem nut	Galv. steel DIN 936

BONNET DETAIL



DIMENSIONS in mm.



BODY GROUP

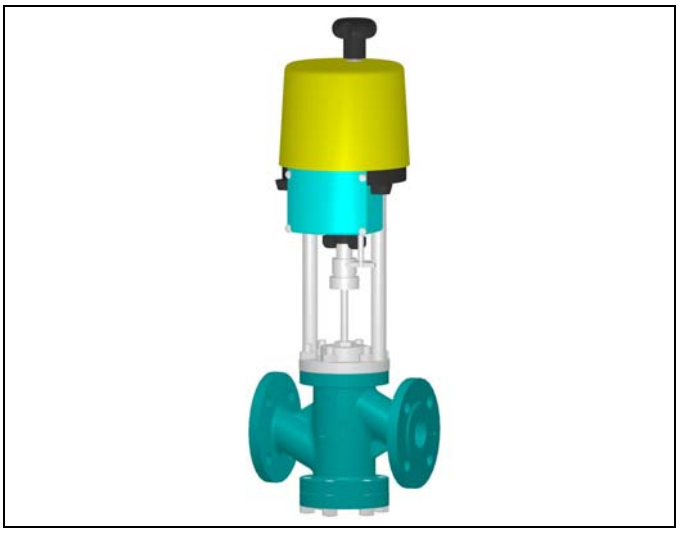
DN	Ø	A	B	C - Bonnet		
				Std	Finned	Bellows
15	**1/2”**	130	70	49	181	181
20	**3/4”**	150	80	58	190	190
25	**1”**	160	85	68	200	200
32	**1.1/4”**	180	100	70	202	202
40	**1.1/2”**	200	105	82	214	214
50	**2”**	230	120	86	218	218
65	**2.1/2”**	290	130	111	309	309
80	**3”**	310	140	135	333	333
100	**4”**	350	150	160	363	363

ACTUATOR

PSL201 – PSL202 PSL204 – PSL210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES CE



TYPE 5000 EP / 5000 AMS

DN 15/100 With tension opens and closes

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5000 EP / 5000 AMS are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating plug is suitable for control of virtually all pipeline media.
Type 5000 EP is with linear actuator.
Type 5000 AMS is with SMART actuator.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 5000 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 5000 AMS : 4-20 mA / 0-10 V

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 – 150 RF – 300RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN16 ANSI 150 JIS 10**
  Internal st. steel AISI316
- **Carbon st. ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI316
- **St. steel AISI316 CF8M PN16/40 ANSI150/300 JIS10/20**
  Internal st. steel AISI316 – bonnet st. steel AISI316

PLUGS:

- **EQP** (DN15-50) **EQV** (DN65-100) = equal percentage class IV°
- **PL** (DN15-50) **LV** (DN65-100) = linear classe IV°
- **PT** (DN15-50) **VPT** (DN65-100) = quick lift class IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5000 EP	5000 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5000 EP	PSL201	PSL202	PSL204	PSL210
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

5000 AMS	PSL202AMS11	PSL204AMS11	PSL210AMS11
Power VA	30	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 – 0,35

ON REQUEST :

	5000 EP	5000 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat – plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Not applicable

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN15 Ø 1/2"	DN 20 Ø 3/4"	DN25 Ø 1"	DN32 Ø 1.1/4"	DN40 Ø 1.1/2"	DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"	DN100 Ø 4"
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
	KV	2.9	5.7	9.3	14.7	20.5	43	60.5	75.2	102.1
PL	CV	3.4	6.6	11.2	17.6	23.9	51.2	72.7	89.3	123.8
	KV	2.9	5.7	9.6	15.2	20.6	44	62.7	77.0	106.7
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2
Reduced bore*		•	•	1/2" 1/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 32

• DN 15-20	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear..MFS = Equal percentage * CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL/LV only)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

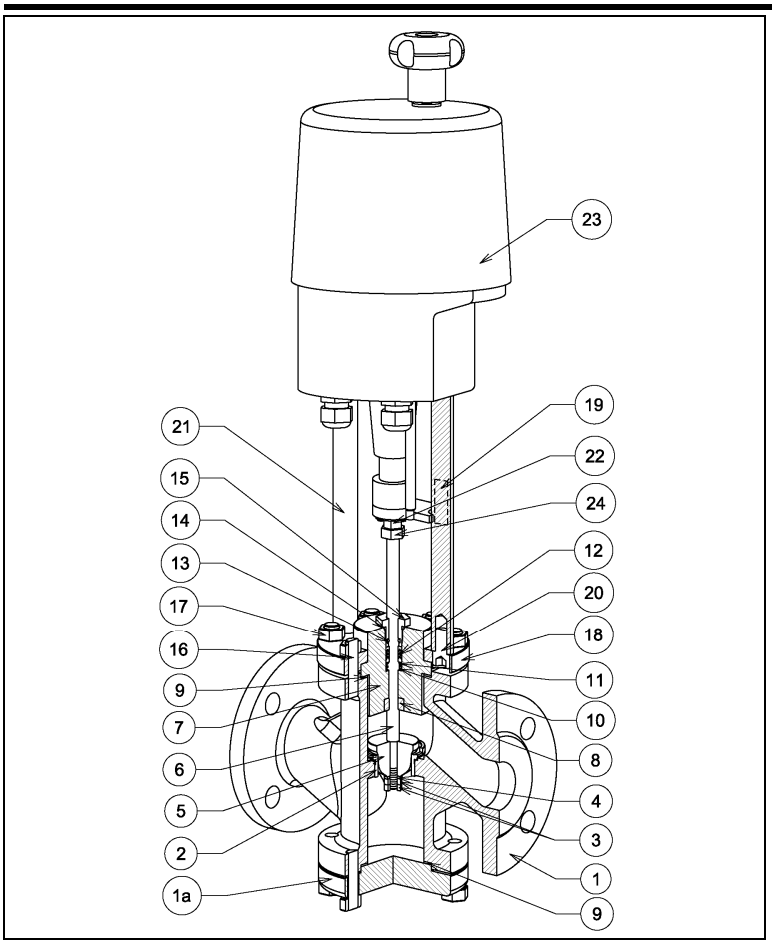
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Tel. 039/651.705 - 650.397
Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			15	20	25	32	40	50	65	80	100
stroke mm			11			19			28		
EP	PSL201	Kg/cm2	50	31,3	17,6	11,3	8	4,6	n.a.	n.a.	n.a.
		Vel. sec	44	44	44	76	76	76			
	PSL202	Kg/cm2	n.a.	62,7	35,2	22,6	15,7	9,1	5,2	3,6	2
		Vel. sec		22	22	38	38	38	56	56	56
	PSL204	Kg/cm2	n.a.	n.a.	70,3	45,2	31,5	18,2	10,3	7,1	4
		Vel. sec			22	38	38	38	56	56	56
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	78,7	45,5	25,8	17,8	10,1
		Vel. sec					38	57	84	84	84
AMS	PSL202	Kg/cm2	115	72	40	26	18	9,5	5,9	4,1	2,3
		Vel. sec	25 ..12,5	25 ..12,5	25 ..12,5	42 ..21	42 ..21	42 ..21	62 ..31	62 ..31	62 ..31
	PSL204	Kg/cm2	n.a.	n.a.	n.a.	50	35	18,6	11,6	10,8	4,5
		Vel. sec					42 ..21	42 ..21	62 ..31	62 ..31	62 ..31
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	78	45,5	25,8	17,8	10,1
		Vel. sec					95 ..54	95 ..54	140 ..80	140 ..80	140 ..80

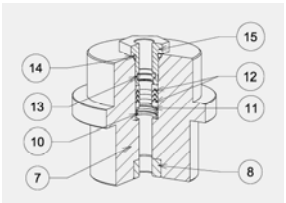
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS

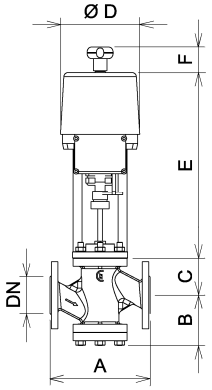


COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) I° pag.
1a. Lower flange	1a. Steel C40
2. Seat	2. St. steel AISI 316
3. Plug locknuts	3. St. steel AISI 304
4. Spring washer	4. St. steel AISI 304
5. Plug	5. St. steel AISI 316
6. Stem	6. St. steel AISI 316
7. Bonnet	7. See note (1) (2) I° pag.
8. Guide bush	8. St. steel AISI 304
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. St. steel AISI 302
11. Packing washer	11. St. steel AISI 304
12. Packing rings	12. See note (3) I° pag.
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. St. steel AISI 303
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. Galv. steel DIN 934
18. Upper bonnet flange	18. C40 nickel plated steel
19. Travel indicator plate	19. Polycarbonate
20. N° 2 Column fixing screwes	20. Galv. steel DIN 912
21. Actuator columns	21. St. steel AISI 430
22. Flange + locking screws	22. St. steel A2
23. Electric actuator	23. See technical data at page 1
24. Stem nut	24. Galv. steel DIN 936

BONNET DETAIL



DIMENSIONS in mm.



BODY GROUP

DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
15	1/2”	184	196	67	49	181	181
20	3/4”	184	196	67	58	190	190
25	1”	184	196	90	68	200	200
32	1.1/4”	200	212	92	70	202	202
40	1.1/2”	222	234	108	82	214	214
50	2”	254	266	108	86	218	218
65	2.1/2”	276	292	148	111	309	309
80	3”	298	317	148	135	333	333
100	4”	352	368	176	160	363	363

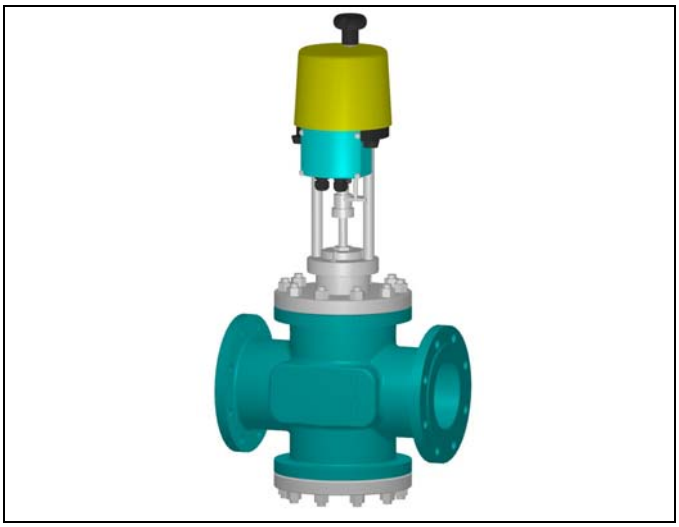
ACTUATOR

PSL201-202-204-210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50

A(1) cast iron = PN16 – ANSI150 - JIS10K A(2) steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

SINGLE SEAT TWO WAY CONTROL VALVES CE



TYPE 5000 EP / 5000 AMS

DN 125/200 With tension opens and closes

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5000 EP / 5000 AMS are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating plug is suitable for control of virtually all pipeline media.
Type 5000 EP is with linear actuator.
Type 5000 AMS is with SMART actuator.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 5000 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 5000 AMS : 4-20 mA / 0-10 V

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 – 150 RF – 300RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN16 ANSI 150 JIS 10**
  Internal st. steel AISI316
- **Carbon st. ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI316
- **St. steel AISI316 CF8M PN16/40 ANSI150/300 JIS10/20**
  Internal st. steel AISI316 – bonnet st. steel AISI316

PLUGS:

- **EQV** = equal percentage class IV°
- **LV** = linear classe IV°
- **VPT** = quick lift class IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5000 EP	5000 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5000 EP	PSL214
Power VA	51 / 53
Velocity mm/s	0,45

5000 AMS	PSL214AMS12
Power VA	93
Velocity mm/s	0,65 – 1,3

ON REQUEST :

	5000 EP	5000 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat – plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN125		DN150		DN200	
		Ø 5"		Ø 6"		Ø 8"	
EQV	CV	234.5		326.1		538	
	KV	202.1		281.1		463.7	
LV	CV	319.1		391.3		624.5	
	KV	275		337.3		538.3	
VPT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore*		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

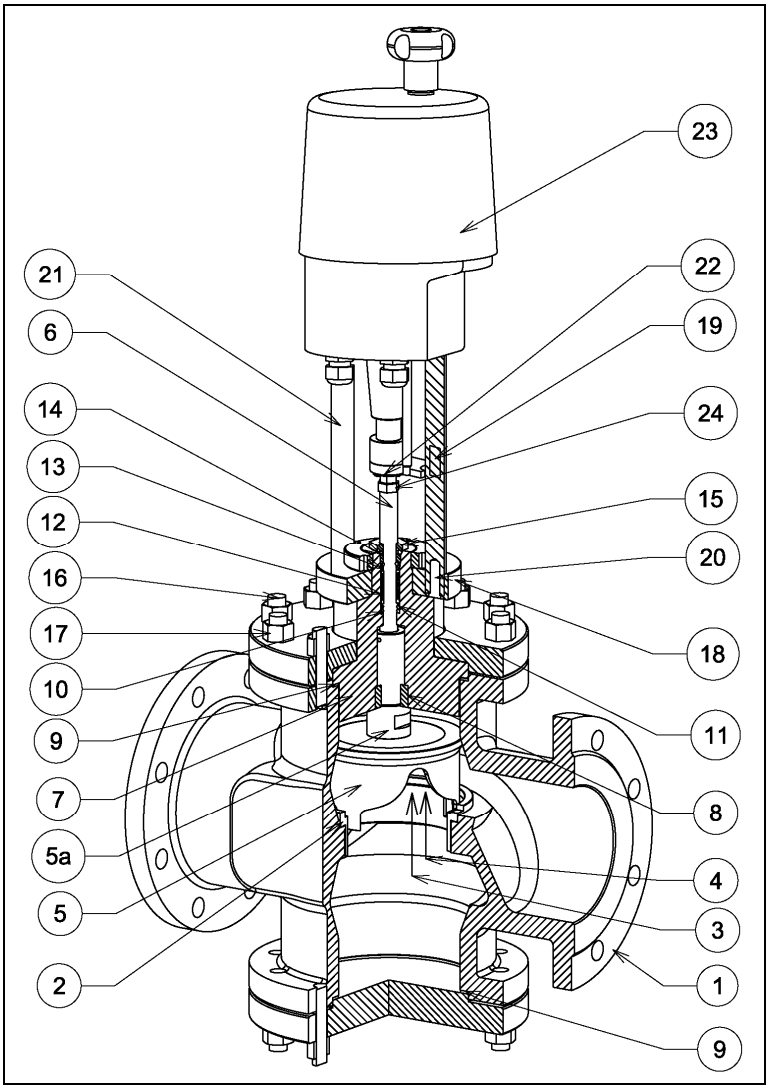
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Fax 039/654.01
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Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			125	150	200
stroke mm			50	50	50
EP	PSL214	Kg/cm2	**7,9**	**5,5**	**3,1**
		Vel. sec	*84*	*84*	*84*
AMS	PSL214	Kg/cm2	**7,9**	**5,5**	**3,1**
		Vel. sec	*39*	*39*	*39*

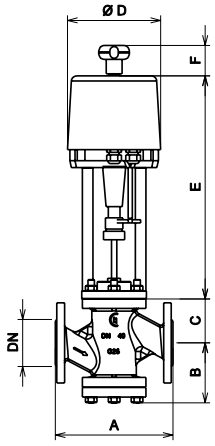
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



	COMPONENTS LIST	MATERIALS
1.	Body	See note (1) l° pag.
1a.	Lower flange	Steel C40
2.	Seat	St. steel AISI 316
3.	Plug locknuts	St. steel AISI 304
4.	Spring washer	St. steel AISI 304
5.	Plug	St. steel AISI 316
5a.	Stem joint	St. steel AISI 316
6.	Stem	St. steel AISI 316
7.	Bonnet	See note (1) (2) l° pag.
8.	Guide bush	St. steel AISI 304
9.	Body gasket	Europil WS 3640 o PTFE
10.	Packing spring	St. steel AISI 302
11.	Packing washer	St. steel AISI 304
12.	Packing rings	See note (3) l° pag.
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	St. steel AISI 303
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	Galv. steel DIN 934
18.	Upper bonnet flange	C40 nickel plated steel
19.	Travel indicator plate	Polycarbonate
20.	N° 2 Column fixing screwes	Galv. steel DIN 912
21.	Actuator columns	St. steel AISI 430
22.	Flange + locking screws	St. steel A2
23.	Electric actuator	See technical data at page 1
24.	Stem nut	Galv. steel DIN 936

DIMENSIONS in mm.



BODY GROUP

DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
125	5	403	425	223	252	435	435
150	6”	450	472	229	258	442	442
200	8”	543	568	254	283	465	465

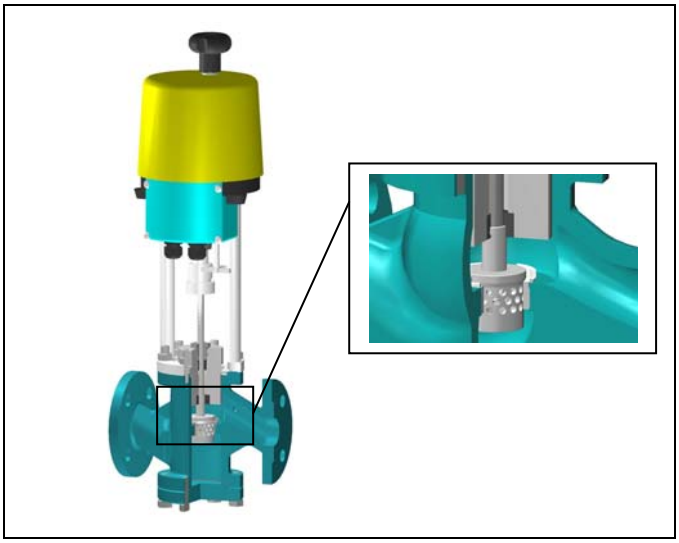
ACTUATOR

PSL214		
Ø D	E	F
176	490	55
176	490	55
176	490	55

A(1) cast iron = PN16 – ANSI150 - JIS10K A(2) steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE



TYPE 5200 EP / 5200 AMS

Simple Cage
With tension opens and closes
Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5200 EP / 5200 AMS are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Modulating integral cage plug (low-noise) for control of virtually all line media.
Type 5200 EP is with linear actuator.
Type 5200 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 5200 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 5200 AMS : 4-20 mA / 0-10 V

SIZES : from DN 15 to DN 50

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 – 150 RF – 300RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN16 ANSI 150 JIS 10**
  Internal st. steel AISI316
- **Carbon st. ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI316
- **St. Steel AISI316 CF8M PN16/40 ANSI150/300 JIS10/20**
  Internal st. steel AISI316 – bonnet st. steel AISI316

PLUGS :

- **SIMPLE CAGE** = linear class IV°
- **RANGEABILITY DN15/25** = 1/75
- **RANGEABILITY DN32/50** = 1/160

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5200 EP	5200 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	Control signal
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5200EP	PSL201	PSL202	PSL204	PSL210
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

5200 AMS	PSL202AMS11	PSL204AMS11	PSL210AMS11
Power VA	30	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 - 0,35

ON REQUEST :

	5200 EP	5200 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat – plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plugs Full bore	DN 15	DN 20		DN 25		DN 32		DN 40		DN 50	
	Ø 1/2"	Ø 3/4"		Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"	
CV	3,13	5,11		9,68		16,77		24,15		40,82	
KV	2,67	4,36		8,26		14,30		20,60		34,82	
CV		(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77	(Ø 1.1/2")	24,15
KV		(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30	(Ø 1.1/2")	20,60
CV				(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68	(Ø 1.1/4")	16,77
KV				(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26	(Ø 1.1/4")	14,30
CV						(Ø 1/2")	3,13	(Ø 3/4")	5,11	(Ø 1")	9,68
KV						(Ø 1/2")	2,67	(Ø 3/4")	4,36	(Ø 1")	8,26
CV								(Ø 1/2")	3,13	(Ø 3/4")	5,11
KV								(Ø 1/2")	3,67	(Ø 3/4")	4,36
CV										(Ø 1/2")	3,13
KV										(Ø 1/2")	2,67

Microflow passage
From DN 15 to DN 25
(on request)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

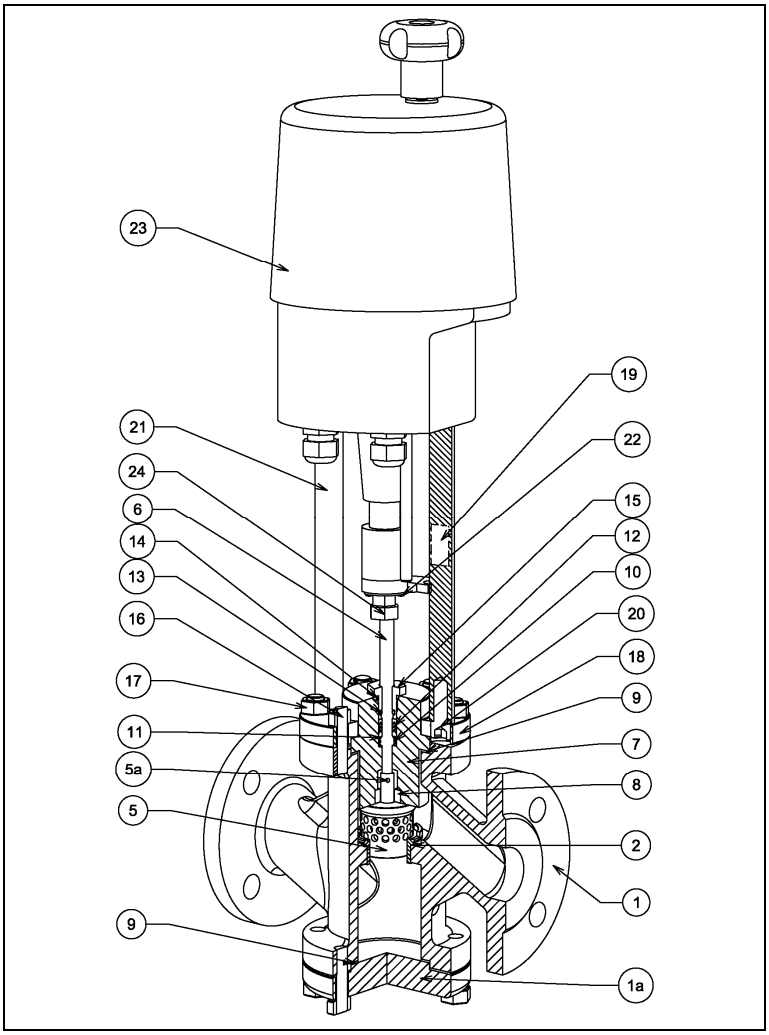
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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20864 AGRATE BRIANZA (MB)
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Fax 039/654.01 www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

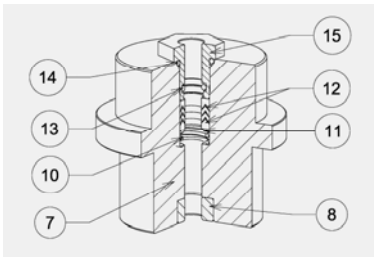
DN			15	20	25	32	40	50
stroke mm			11			19		
EP	PSL201	Kg/cm2	**50**	**31,3**	**17,6**	**11,3**	**8**	**4,6**
		Vel. sec	*44*	*44*	*44*	*76*	*76*	*76*
	PSL202	Kg/cm2	n.a.	**62,7**	**35,2**	**22,6**	**15,7**	**9,1**
		Vel. sec		*22*	*22*	*38*	*38*	*38*
	PSL204	Kg/cm2	n.a.	n.a.	**70,3**	**45,2**	**31,5**	**18,2**
		Vel. sec			*22*	*38*	*38*	*38*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78,7**	**45,5**
		Vel. sec					*38*	*57*
AMS	PSL202	Kg/cm2	**115**	**72**	**40**	**26**	**18**	**9,5**
		Vel. sec	*25 ..12,5*	*25 ..12,5*	*25 ..12,5*	*42 ..21*	*42 ..21*	*42 ..21*
	PSL204	Kg/cm2	n.a.	n.a.	n.a.	**50**	**35**	**18,6**
		Vel. sec				*42.21*	*42 ..21*	*42 ..21*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78**	**45,5**
		Vel. sec					*95 ..54*	*95 ..54*

COMPONENTS LIST and MATERIALS

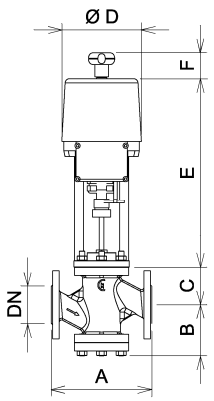


COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) l° pag.
2. Seat	2. St. steel AISI 316
5. Plug	5. St. steel AISI 316
5a. Pin	5a. Carbon steel
6. Stem	6. St. steel AISI 316
7. Bonnet	7. See note (1) (2) l° pag.
8. Guide bush	8. St. steel AISI 304
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. St. steel AISI 302
11. Packing washer	11. St. steel AISI 304
12. Packing rings	12. See note (3) l° pag.
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. St. steel AISI 303
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. Galv. steel DIN 934
18. Upper bonnet flange	18. C40 nickel plated steel
19. Travel indicator plate	19. Polycarbonate
20. N°2 Column fixing screwes	20. Acc. Zincato DIN 912
21. Colonne attuatore	21. St. steel AISI 430
22. Flangetta + viti di chiusura	22. St. steel A2
23. Electric actuator	23. See technical data at page 1
24. Stem nut	24. Galv. steel DIN 936

BONNET DETAIL



DIMENSIONS in mm.



BODY GROUP

DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
15	1/2”	184	196	67	49	181	181
20	3/4”	184	196	67	58	190	190
25	1”	184	196	90	68	200	200
32	1.1/4”	200	212	92	70	202	202
40	1.1/2”	222	234	108	82	214	214
50	2”	254	266	108	86	218	218

ACTUATOR

PSL201-202-204-210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50

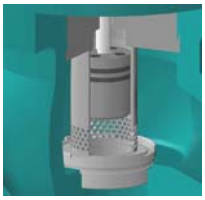
A(1) cast iron = PN16 – ANSI150 - JIS10K A(2) steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

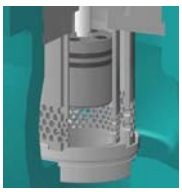
SINGLE SEAT TWO WAY CONTROL VALVES – LOW NOISE CE



5300 Simple Cage



5400 Double Cage



TYPE 5300 EP / 5300 AMS

Simple cage with tension opens and closes

TYPE 5400 EP / 5400 AMS

Double cage with tension opens and closes

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series Type 2300-2400 EP / 2300-2400 AMS are equipped with "straight-through" pattern bodies with EN-ANSI-JIS. flanges.

Modulating balanced piston plug (low-noise), sliding in a sigle or double cage for control of virtually all line media.

Type 5300/5400 EP is with linear actuator.

Type 5300/5400 is with SMART actuator.

Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.

Signals Type 5300/5400 EP : 3 points modulating / 4-20 mA / 0-10 V

Signals Type 5300/5400 AMS : 4-20 mA / 0-10 V

SIZES : from DN 65 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 – 150 RF – 300RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast Iron EN-GJL-250 UNI EN 1561 PN16 ANSI 150 JIS 10**
  Internal st. steel AISI316
- **Carbon st. ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI316
- **St. steel AISI316 CF8M PN16/40 ANSI150/300 JIS10/20**
  Internal st. steel AISI316 – bonnet st. steel AISI316

PLUGS :

- **CAGE** = linear balanced class IV°
- **RANGEABILITY DN65/100** = 1/100
- **RANGEABILITY DN125/200** = 1/160

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5300/5400 EP	5300/5400 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	Control signal
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5300/5400EP	PSL201	PSL202	PSL204	PSL214
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

5300/5400AMS	PSL202AMS11	PSL204AMS11	PSL214AMS12
Power VA	30	30	93
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,65 – 1,3

ON REQUEST :

	5300/5400EP	5300/5400AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat – plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Plug	DN 65		DN 80		DN 100		DN 125		DN 150		DN 200	
Full Bore	Ø 2.1/2"		Ø 3"		Ø 4"		Ø 5"		Ø 6"		Ø 8"	
CV	56.79		75.31		129.91		255.76		304.38		473.49	
KV	48.44		64.24		110.81		217.51		259.64		403.89	
CV	Ø 2" *	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91	Ø 5"	255.76	Ø 6"	304.38
KV	Ø 2" *	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81	Ø 5"	218.16	Ø 6"	259.64
CV	Ø1.1/2" *	24.15	Ø 2"	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91	Ø 5"	255.76
KV	Ø1.1/2" *	20.60	Ø 2"	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81	Ø 5"	218.16
CV	Ø1.1/4" *	16.77	Ø 1.1/2"	24.15	Ø 2" *	40.82	Ø 2.1/2"	56.79	Ø 3"	75.31	Ø 4"	129.91
KV	Ø1.1/4" *	14.30	Ø 1.1/2"	20.60	Ø 2" *	34.82	Ø 2.1/2"	48.44	Ø 3"	64.24	Ø 4"	110.81
CV									Ø 2.1/2"	56.79	Ø 3"	75.31
KV									Ø 2.1/2"	48.44	Ø 3"	64.24
CV											Ø 2.1/2"	56.79
KV											Ø 2.1/2"	48.44

***** Integral plug version with simple cage only (see leaflet 5200EP/AMS/E)

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FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

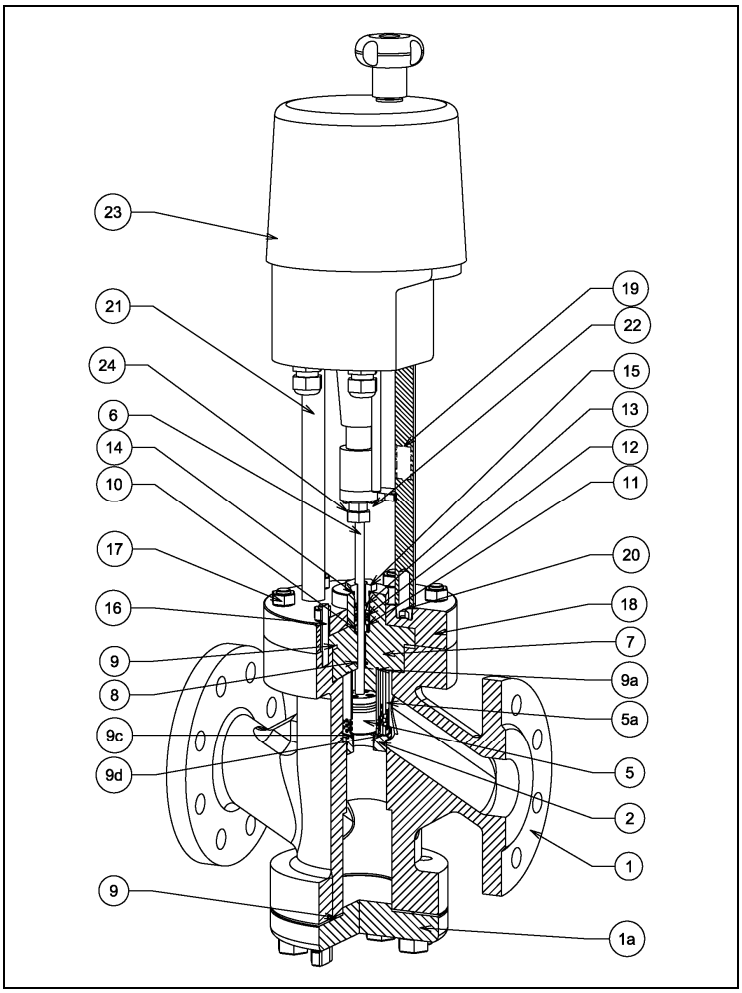
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Tel. 039/651.705 - 650.397
Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			DN65	DN80	DN100	DN125	DN150	DN200
Stroke mm			28			50		
EP	PSL201	Kg/cm2	**24.8**	**21.7**	**19.9**	n.a.	n.a.	n.a.
		Vel. sec	112	112	112			
	PSL202	Kg/cm2	**49.6**	**43.3**	**39.9**	n.a.	n.a.	n.a.
		Vel. sec	56	56	56			
	PSL204	Kg/cm2	**99.1**	**86.7**	**79.8**	n.a.	n.a.	n.a.
		Vel. sec	56	56	56			
	PSL214	Kg/cm2	-	-	-	**91**	**78**	**63**
		Vel. sec	-	-	-	84	84	84
AMS	PSL202	Kg/cm2	**57**	**49,8**	**45,9**	n.a.	n.a.	n.a.
		Vel. sec	*62..31*	*62..31*	*62..31*			
	PSL204	Kg/cm2	**111,5**	**97,5**	**89,7**	n.a.	n.a.	n.a.
		Vel. sec	*62..31*	*62..31*	*62..31*			
	PSL214	Kg/cm2	n.a.	n.a.	n.a.	**91,2**	**78,8**	**63,4**
		Vel. sec				*39*	*39*	*39*

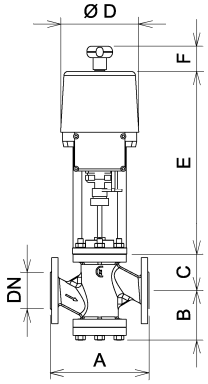
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) l° pag.
1a. Lower flange	1a. Carbon steel C40
2. Seat	2. St. steel AISI 316
5. Piston plug with lower ring and upper tight	5. St. steel AISI 316 + sinterized graphite + FKM tight
5a Internal Simple Cage	5a St. steel AISI 316
5b External Double Cage	5b St. steel AISI 316
6. Stem	6. St. steel AISI 316
7. Bonnet	7. See note (1) e (2) l° pag.
8. “O” Ring	8. Viton FPM 70
9. Body gaskets	9. Europil WS 3640 or PTFE
9a. Upper internal cage gasket	9a. WS 3640/C-4500 or PTFE
9b. Upper external cage gasket	9b. WS 3640/C-4500 or PTFE
9c. Lower internal cage gasket	9c. WS 3640/C-4500 or PTFE
9d. Lower external cage gasket	9d. WS 3640/C-4500 or PTFE
10. Packing spring	10. St. steel AISI 302
11. Packing washer	11. St. steel AISI 304
12. Packing rings	12. See note (3) l° pag.
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. St. steel AISI 303
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. Acc. Zincato DIN 934
18. Upper bonnet flange	18. C40 nickel plated steel
19. Travel indicator plate	19. Polycarbonate
20. N°2 Column fixing screwes	20. Galv. steel DIN 912
21. Actuator columns	21. St. steel AISI 430
22. Flange + locking screws	22. St. steel A2
23. Electric actuator	23. See technical data at page 1
24. Stem nut	24. Galv. steel DIN 936

DIMENSIONS in mm.



BODY GROUP

DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
65	2.1/2”	276	292	148	111	309	309
80	3”	298	317	148	135	333	333
100	4”	352	368	176	160	363	363
125	5	403	425	223	252	435	435
150	6”	450	472	229	258	442	442
200	8”	543	568	254	283	465	465

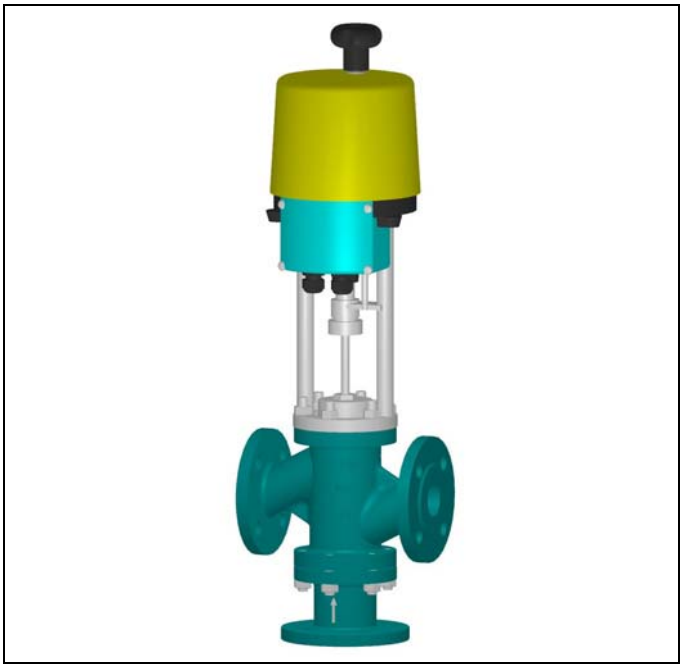
ACTUATOR

PSL201-202-204-214		
Ø D	E	F
176	417	50
176	417	50
176	419	50
176	490	55
176	490	55
176	490	55

A(1) cast iron = PN16 – ANSI150 - JIS10K A(2) steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE-WAY MIXING CONTROL VALVES CE

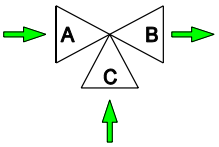


TYPE 5600 EP / 5600 AMS

DN15/100

with tension opens and closes AB and CB

Face-to-face ASME / ANSI B16.10



DESCRIPTION

The "UNIWORLD" series type 5600 EP / 5600 AMS are equipped with "straight-through" pattern 3 way bodies having and EN – ANSI – JIS flanges.
Type 5600 EP is with linear actuator.
Type 5600 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 5600 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 5600 AMS : 4-20 mA / 0-10 V

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 150 RF 300 RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  Internal st. steel AISI316
- **Carbon st. ASTM A216 WCB PN16/40 ANSI1500/300 JIS10/20**
  Internal st. steel AISI316
- **St. Steel AISI316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI316 - bonnet st. steel AISI316

PLUGS :

- **PL** (DN15-20) **LV** (DN25-100) = linear classe IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5600 EP	5600 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5600EP	PSL201	PSL202	PSL204	PSL210
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

5600 AMS	PSL202AMS11	PSL204AMS11	PSL210AMS11
Power VA	30	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 - 0,35

ON REQUEST :

	5600 EP	5600 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat - plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV e KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN 15	DN 20	DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100	
		Ø 1/2"	Ø 3/4"	Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"		Ø 2.1/2"		Ø 3"		Ø 4"	
PL	CV	3.4	6.6	10		23.4		28		36.4		72.7		89.3		123.8	
	KV	2.9	5.7	8.6		20.1		24.1		31.4		62.7		77.0		106.7	
PT	CV	3.4	6.6	13.8		30.3		38.7		52		99.6		116.2		162.4	
	KV	2.9	5.7	11.9		26.1		33.4		44.8		85.8		100.1		140	
Reduced bore*		n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable * CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

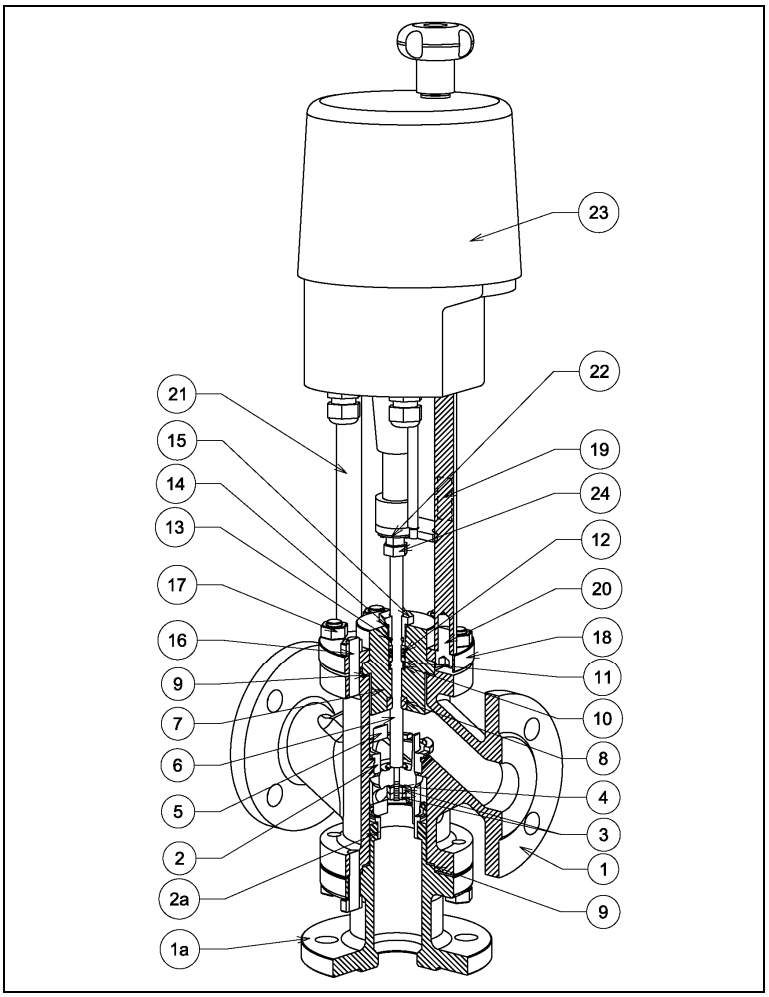
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			15	20	25	32	40	50	65	80	100
stroke mm			11				19		28		
EP	PSL201	Kg/cm2	**50**	**31,3**	**17,6**	**11,3**	**8**	**4,6**	n.a.	n.a.	n.a.
		Vel. sec	*44*	*44*	*44*	*76*	*76*	*76*			
	PSL202	Kg/cm2	n.a.	**62,7**	**35,2**	**22,6**	**15,7**	**9,1**	**5,2**	**3,6**	**2**
		Vel. sec		*22*	*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL204	Kg/cm2	n.a.	n.a.	**70,3**	**45,2**	**31,5**	**18,2**	**10,3**	**7,1**	**4**
		Vel. sec			*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78,7**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*38*	*57*	*84*	*84*	*84*
AMS	PSL202	Kg/cm2	**115**	**72**	**40**	**26**	**18**	**9,5**	**5,9**	**4,1**	**2,3**
		Vel. sec	*25 ..12,5*	*25 ..12,5*	*25 ..12,5*	*42 ..21*	*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL204	Kg/cm2	n.a.	n.a.	n.a.	**50**	**35**	**18,6**	**11,6**	**10,8**	**4,5**
		Vel. sec					*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*95 ..54*	*95 ..54*	*140 ..80*	*140 ..80*	*140 ..80*

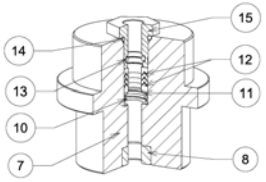
1. The values given are referred to the force of the actuator abd they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS

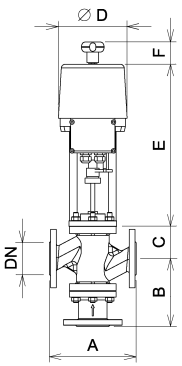


COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) l° pag.
1a. Stud pipe	1a. C40 Carbon steel
2. Upper seat	2. St. steel AISI 316
2a. Lower seat	2a. St. steel AISI 316
3. Plug locknuts	3. St. steel AISI 304
4. Spring washer	4. St. steel AISI 304
5. Plug	5. St. steel AISI 316
6. Stem	6. St. steel AISI 316
7. Bonnet	7. See note (1) (2) l° pag.
8. Guide bush	8. St. steel AISI 304
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. St. steel AISI 302
11. Packing washer	11. St. steel AISI 304
12. Packing rings	12. See note (3) l° pag.
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nuts	15. St. steel AISI 303
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. Galv. steel DIN 934
18. Upper bonnet flange	18. C40 nickel plated
19. Travel indicator plate	19. Polycarbonate
20. N° 2 column fixing screwes	20. Galv. steel DIN 912
21. Actuator columns	21. St. steel AISI 430
22. Flange + locking screws	22. St. steel A2
23. Electric actuator	23. See technical data at page 1
24. Stem nut	24. Galv. steel DIN 936

BONNET DETAIL



DIMENSIONS in mm.



BODY GROUP

DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
15	1/2”	184	196	132	49	181	181
20	3/4”	184	196	134	58	190	190
25	1”	184	196	135	68	200	200
32	1.1/4”	200	212	134	70	202	202
40	1.1/2”	222	234	165	82	214	214
50	2”	254	266	185	86	218	218
65	2.1/2”	276	292	220	111	309	309
80	3”	298	317	222	135	333	333
100	4”	352	368	241	160	363	363

ACTUATOR

PSL201-202-204-210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50

A(1) cast iron = PN16 – ANSI150 - JIS10K A(2) steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE-WAY MIXING CONTROL VALVES CE

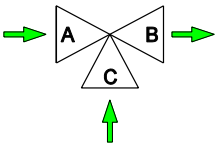


TYPE 5600 EP / 5600 AMS

DN 125/200

with tension opens and closes AB and CB

Face-to-face ASME / ANSI B16.10



DESCRIPTION

The "UNIWORLD" series type 5600 EP / 5600 AMS are equipped with "straight-through" pattern 3 way bodies having and EN – ANSI – JIS flanges.
Type 5600 EP is with linear actuator.
Type 5600 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 5600 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 5600 AMS : 4-20 mA / 0-10 V

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 150 RF 300 RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  Internal st. steel AISI316
- **Carbon st. ASTM A216 WCB PN16/40 ANSI1500/300 JIS10/20**
  Internal st. steel AISI316
- **St. steel AISI316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI316 - bonnet st. steel AISI316

PLUGS :

- **LV** = linear class IV°
- **VPT** = quick lift class IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5600 EP	5600 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5600EP	PSL214
Power VA	51 / 53
Velocity mm/s	0,45

5600 AMS	PSL214AMS12
Power VA	93
Velocity mm/s	0,65 – 1,3

ON REQUEST :

	5600 EP	5600 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat - plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV e KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Non Applicabile	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN125		DN150		DN200	
		Ø 5"		Ø 6"		Ø 8"	
PL	CV	290.9		357.3		578.1	
	KV	250.8		308		498.3	
PT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore*		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

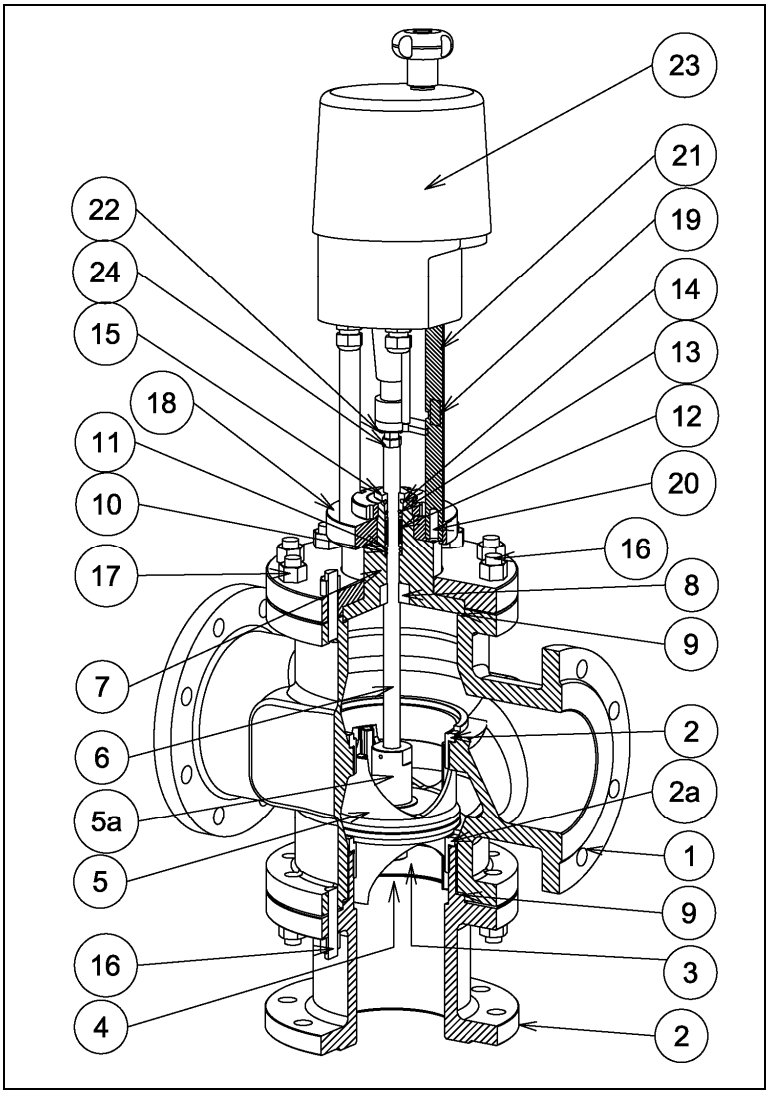
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			125	150	200
stroke mm			50	50	50
EP	PSL214	Kg/cm2	7.9	5.5	3.1
		Vel. sec	*84*	*84*	*84*
AMS	PSL214	Kg/cm2	7.9	5.5	3.1
		Vel. sec	*39*	*39*	*39*

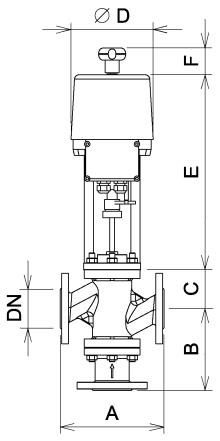
1. The values given are referred to the force of the actuator abd they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) l° pag.
1a. Stud pipe	1a. C40 Carbon steel
2. Upper seat	2. St. steel AISI 316
2a. Lower seat	2a. St. steel AISI 316
3. Plug locknuts	3. St. steel AISI 304
4. Spring washer	4. St. steel AISI 304
5. Plug	5. St. steel AISI 316
5a. Stem Joint	5a. St. steel AISI 316
6. Stem	6. St. steel AISI 316
7. Bonnet	7. See note (1) (2) l° pag.
8. Guide bush	8. St. steel AISI 304
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. St. steel AISI 302
11. Packing washer	11. St. steel AISI 304
12. Packing rings	12. See note (3) l° pag.
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nuts	15. St. steel AISI 303
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. Acc. zincato DIN 934
18. Upper bonnet flange	18. C40 nickel plated
19. Travel indicator plate	19. Polycarbonate
20. N° 2 column fixing screwes	20. Galv. steel DIN 912
21. Actuator columns	21. St. steel AISI 430
22. Flange + locking screws	22. St. steel A2
23. Electric actuator	23. See technical data
	24. at page 1
24. Stem nut	25. Galv. steel DIN 936

DIMENSIONS in mm.



BODY GROUP

DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
125	5”	403	425	296	252	435	435
150	6”	450	472	307	258	442	442
200	8”	543	568	333	283	465	465

ACTUATOR

PSL214		
Ø D	E	F
180	490	55
180	490	55
180	490	55

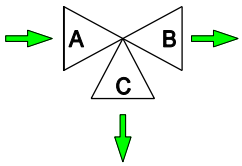
A(1) cast iron = PN16 – ANSI150 - JIS10K A(2) steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE-WAY DIVERTING CONTROL VALVES CE



TYPE 5700 EP / 5700 AMS
DN15/100
with tension opens and closes AB and AC
Face-to-face ASME / ANSI B16.10



DESCRIPTION

The "UNIWORLD" series Type 5700 EP / 5700 AMS are equipped with EN "straight-through" pattern 3 way bodies having EN – ANSI – JIS flanges.
Type 5700 EP is with linear actuator.
Type 5700 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 5700 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 5700 AMS : 4-20 mA / 0-10 V

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 150 RF 300 RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  Internal st. steel AISI 316
- **Acc.Carb. ASTM A216 WCB PN16/40 ANSI 1500/300 JIS10/20**
  Internal st. steel AISI 316
- **St. Steel AISI316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI 316 - bonnet Internal st. steel AISI 316

TIPI DI OTTURATORE :
- **PL** (DN15-20) **LV** (DN25-100) = linear class IV°
- **PT** (DN15-20) **VPT** (DN25-100) = quick lift class IV°

BONNET (2) :
- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :
- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5700 EP	5700 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5700EP	PSL201	PSL202	PSL204	PSL210
Power VA	25,9	37 / 40	44 / 47	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45

5700 AMS	PSL202AMS11	PSL204AMS11	PSL210AMS11
Power VA	30	30	30
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 - 0,35

ON REQUEST :

	5700 EP	5700 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat - Plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
		Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77.0	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	107.3	129.3	175.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	92.5	111.5	151.2
Reduced bore*		n.a.	1/2 "	1/2 " 3/4"	3/4 " 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

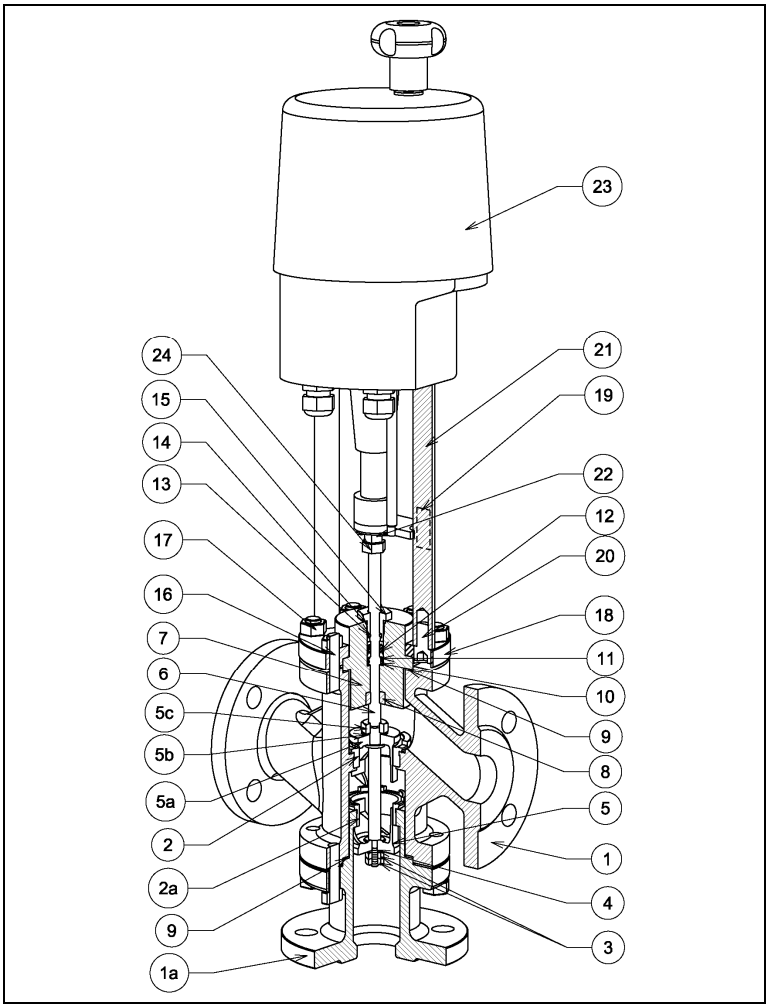
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Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			15	20	25	32	40	50	65	80	100
stroke mm			11			19			28		
EP	PSL201	Kg/cm2	**50**	**31,3**	**17,6**	**11,3**	**8**	**4,6**	n.a.	n.a.	n.a.
		Vel. sec	*44*	*44*	*44*	*76*	*76*	*76*			
	PSL202	Kg/cm2	n.a.	**62,7**	**35,2**	**22,6**	**15,7**	**9,1**	**5,2**	**3,6**	**2**
		Vel. sec		*22*	*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL204	Kg/cm2	n.a.	n.a.	**70,3**	**45,2**	**31,5**	**18,2**	**10,3**	**7,1**	**4**
		Vel. sec			*22*	*38*	*38*	*38*	*56*	*56*	*56*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78,7**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*38*	*57*	*84*	*84*	*84*
AMS	PSL202	Kg/cm2	**115**	**72**	**40**	**26**	**18**	**9,5**	**5,9**	**4,1**	**2,3**
		Vel. sec	*25 ..12,5*	*25 ..12,5*	*25 ..12,5*	*42 ..21*	*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL204	Kg/cm2	n.a.	n.a.	n.a.	**50**	**35**	**18,6**	**11,6**	**10,8**	**4,5**
		Vel. sec					*42 ..21*	*42 ..21*	*62 ..31*	*62 ..31*	*62 ..31*
	PSL210	Kg/cm2	n.a.	n.a.	n.a.	n.a.	**78**	**45,5**	**25,8**	**17,8**	**10,1**
		Vel. sec					*95 ..54*	*95 ..54*	*140 ..80*	*140 ..80*	*140 ..80*

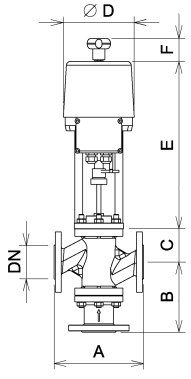
1. The values given are referred to the force of the actuator abd they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) l° pag.
1a. Upper seat	1a. C40 Carbon steel
2. Upper seat	2. St. steel AISI 316
2a. Lower seat	2a. St. steel AISI 316
3. Lower plug locknuts	3. St. steel AISI 304
4. Lower plug washer	4. St. steel AISI 304
5. Lower plug	5. St. steel AISI 316
5a. Upper plug	5a. St. steel AISI 316
5b. Upper plug washer	5b. St. steel AISI 304
5c. Upper plug locknuts	5c. St. steel AISI 304
6. Stem	6. St. steel AISI 316
7. Bonnet	7. See note (1) (2) l° pag.
8. Guide bush	8. St. steel AISI 304
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. St. steel AISI 302
11. Packing washer	11. St. steel AISI 304
12. Packing rings	12. See note (3) l° pag.
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nuts	15. St. steel AISI 303
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. Galv. steel DIN 934
18. Upper bonnet flange	18. C40 nickel plated
19. Travel indicator plate	19. Polycarbonate
20. N° 2 column fixing screwes	20. Galv. steel DIN 912
21. Actuator columns	21. St. steel AISI 430
22. Flange + locking screws	22. St. steel A2
23. Electric actuator	23. See technical data at page 1
24. Stem nut	24. Galv. steel DIN 936

DIMENSIONS in mm.



BODY GROUP

DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
15	1/2”	184	196	132	49	181	181
20	3/4”	184	196	134	58	190	190
25	1”	184	196	135	68	200	200
32	1.1/4”	200	212	134	70	202	202
40	1.1/2”	222	234	165	82	214	214
50	2”	254	266	185	86	218	218
65	2.1/2”	276	292	220	111	309	309
80	3”	298	317	222	135	333	333
100	4”	352	368	241	160	363	363

ACTUATOR

PSL201-202-204-210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50

A(1) cast iron = PN16 – ANSI150 - JIS10K A(2) steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE-WAY DIVERTING CONTROL VALVES CE

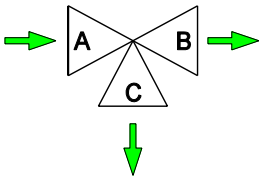


TYPE 5700 EP / 5700 AMS

DN 125/200

with tension opens and closes AB and AC

Face-to-face ASME / ANSI B16.10



DESCRIPTION

The "UNIWORLD" series Type 5700 EP / 5700 AMS are equipped with EN "straight-through" pattern 3 way bodies having EN – ANSI – JIS flanges.
Type 5700 EP is with linear actuator.
Type 5700 AMS is with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 5700 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 5700 AMS : 4-20 mA / 0-10 V

SIZES : from DN 125 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 150 RF 300 RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  Internal st. steel AISI 316
- **Carbon st. ASTM A216 WCB PN16/40 ANSI1500/300 JIS10/20**
  Internal st. steel AISI 316
- **St. Steel AISI316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI 316 - bonnet st. steel AISI 316

PLUGS :

- **LV** (DN125-200) = linear class IV°
- **LVPT** (DN 125-200) = quick lift class IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5700 EP	5700 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5700EP	PSL214
Power VA	51 / 53
Velocity mm/s	0,45

5700 AMS	PSL214AMS12
Power VA	93
Velocity mm/s	0,65 – 1,3

ON REQUEST :

	5700 EP	5700 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat - Plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN125		DN150		DN200	
		Ø 5"		Ø 6"		Ø 8"	
PL	CV	290.9		357.3		578.1	
	KV	250.8		308		498.3	
PT	CV	355.3		429.8		658.6	
	KV	306.3		370.5		567.7	
Reduced bore*		3"	4"	4"	5"	5"	6"

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

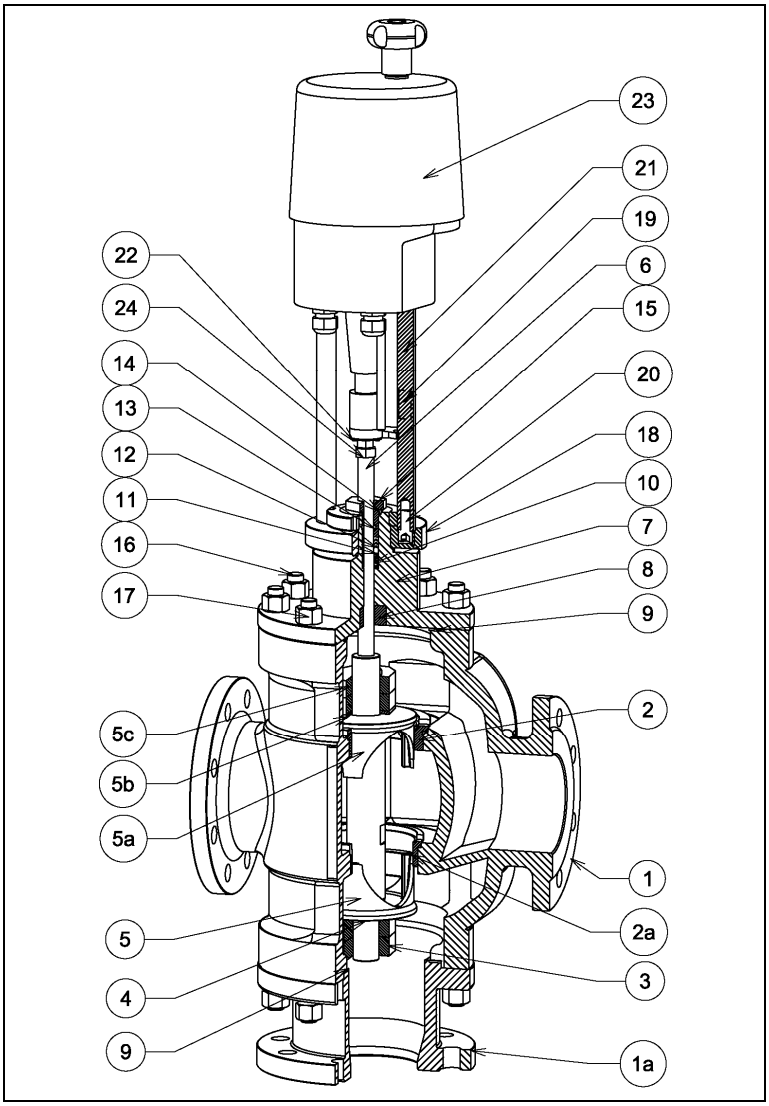
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Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			125	150	200
stroke mm			50	50	50
EP	PSL214	Kg/cm2	7,9	5,5	3,1
		Vel. sec	*84*	*84*	*84*
AMS	PSL214	Kg/cm2	7,9	5,5	3,1
		Vel. sec	*39*	*39*	*39*

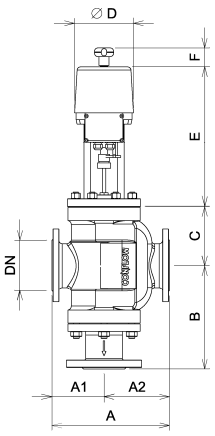
1. The values given are referred to the force of the actuator abd they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) l° pag.
1a. Stud pipe	1a. C40 Carbon steel
2. Upper seat	2. St. steel AISI 316
2a. Lower seat	2a. St. steel AISI 316
3. Lower plug locknuts	3. St. steel AISI 304
4. Lower plug washer	4. St. steel AISI 304
5. Lower plug	5. St. steel AISI 316
5a. Upper plug	5a. St. steel AISI 316
5b. Upper plug washer	5b. St. steel AISI 304
5c. Upper plug locknuts	5c. St. steel AISI 304
6. Stem	6. St. steel AISI 316
6a. Plug shaft	6a. St. steel AISI 316
7. Bonnet	7. See note (1) e (2) l° pag.
8. Guide bush	8. St. steel AISI 304
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. St. steel AISI 302
11. Packing washer	11. St. steel AISI 304
12. Packing rings	12. See note (3) l° pag.
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Ghiera premistoppa	15. St. steel AISI 303
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. Galv. steel DIN 934
18. Upper bonnet flange	18. C40 nickel plated
19. Travel indicator plate	19. Polycarbonate
20. N° 2 column fixing screwes	20. Galv. steel DIN 912
21. Actuator columns	21. St. steel AISI 430
22. Flange + locking screws	22. St. steel A2
23. Electric actuator	23. See technical data at page 1
24. Stem nut	24. Galv. steel DIN 936

DIMENSIONS in mm.



BODY GROUP

DN	Ø	A	A1	A2	B	C - Bonnet		
						Std	Finned	Bellows
125	5”	425	186	239	344	252	435	435
150	6”	473	206	267	375	258	442	442
200	8”	568	234	334	430	283	465	465

ACTUATOR

PSL 214		
Ø D	E	F
180	490	55
180	490	55
180	490	55

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

DOUBLE SEAT TWO WAY CONTROL VALVES CE

TYPE 5800 EP / 5800 AMS

with tension opens and closes

Face-to-face ASME / ANSI B16.10



DESCRIPTION

The "UNIWORLD" series Type 5800 EP / 5800 AMS are equipped with EN "straight-through" pattern double seat bodies having EN – ANSI – JIS flanges.
Type 5800 EP is with linear actuator.
Type 5800 AMS with SMART actuator.
Modulating plug is suitable for control of virtually all pipeline media.
Compact construction, assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
Signals Type 5800 EP : 3 points modulating / 4-20 mA / 0-10 V
Signals Type 5800 AMS : 4-20 mA / 0-10 V

SIZES : from DN 50 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16…PN40
: flanged ANSI B 16.5 150 RF 300 RF
: flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  (Cast iron version available from DN125 to DN200 only)
  Internal st. steel AISI 316
- **Carbon st. ASTM A216 WCB PN16/40 ANSI1500/300 JIS10/20**
  Internal st. steel AISI 316
- **Acc.Inox AISI316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  Internal st. steel AISI 316 - bonnet st. steel AISI 316

PLUGS :

- **EQP** (DN50-100) **EQV** (DN125-200) = eq. percentage class II°
- **PL** (DN50-200) = linear class II°
- **PT** (DN50-200) = quick lift class II°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < -5 °C
- Bellow sealed for thermal oil or hazardous media
  PN16 – 25 - 40 and safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) :

- PTFE 100% rings for temperatures ≤150 °C
- PTFE 85% + graphite 15% for temperatures ≤ 200 °C
- 100% pure graphite rings for temperatures from 200 to 400 °C with finned bonnet

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : see leaflet 101/VP
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATORS :

	5800 EP	5800 AMS
Std power supply	220 V AC	
Protection degree	IP65 EN 60529	
Control signal	3 points modulating	4-20 mA / 0-10 V
Ambient temp.	-20 / +60 °C	
Cover material	Polycarbonate	
Electric connections	2 x PG13	

5800EP	PSL201	PSL202	PSL204	PSL210	PSL214
Power VA	25,9	37 / 40	44 / 47	51 / 53	51 / 53
Velocity mm/s	0,25	0,5	0,5	0,45	0,45

5800 AMS	PSL202 AMS11	PSL204 AMS11	PSL210 AMS11	PSL214 AMS12
Power VA	30	30	30	93
Velocity mm/s	0,45 – 0,9	0,45 – 0,9	0,2 - 0,35	0,65 – 1,3

ON REQUEST :

	5800 EP	5800 AMS
Seal	PTFE/GR ≤190°C class VI°	
	PTFE ≤150°C class VI°	
Lapping	Seat - Plug class V°	
Stellite	degree 6 on seat-plug and bush	
Reduced bores	(see table CV and KV)	
Power supply	24Vdc – 2VAC – 110 V AC	
Potentiometer	1000 Ohm 1 o 2	Included
Positioner	4-20 mA / 0-10 V	Included
Trasmitter	4-20 mA	Included
Protection degree	IP67	
Limit switches	2 x SPDT mechanical – silver contacts	
Wire and Software	Not applicable	Required

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs		DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"	DN100 Ø 4"	DN125 Ø 5"	DN150 Ø 6"	DN200 Ø 8"
EQP	CV	58.5	81.1	122.5	215.4	301	440	770
	KV	50.4	69.9	105.6	185.7	259.4	379.3	663.7
PL	CV	58.5	98.9	149.9	234.2	366	527	937
	KV	50.4	85.3	129.2	201.9	315.5	454.3	807.7
PT	CV	58.5	98.9	149.9	234.2	366	527	937
	KV	50.4	85.3	129.2	201.9	315.5	454.3	807.7
Reduced bore *		n.a.	2"	2" 2.1/2"	2.1/2" 3"	3" 4"	4" 5"	5" 6"

n.a. = not applicable * CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL only)

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

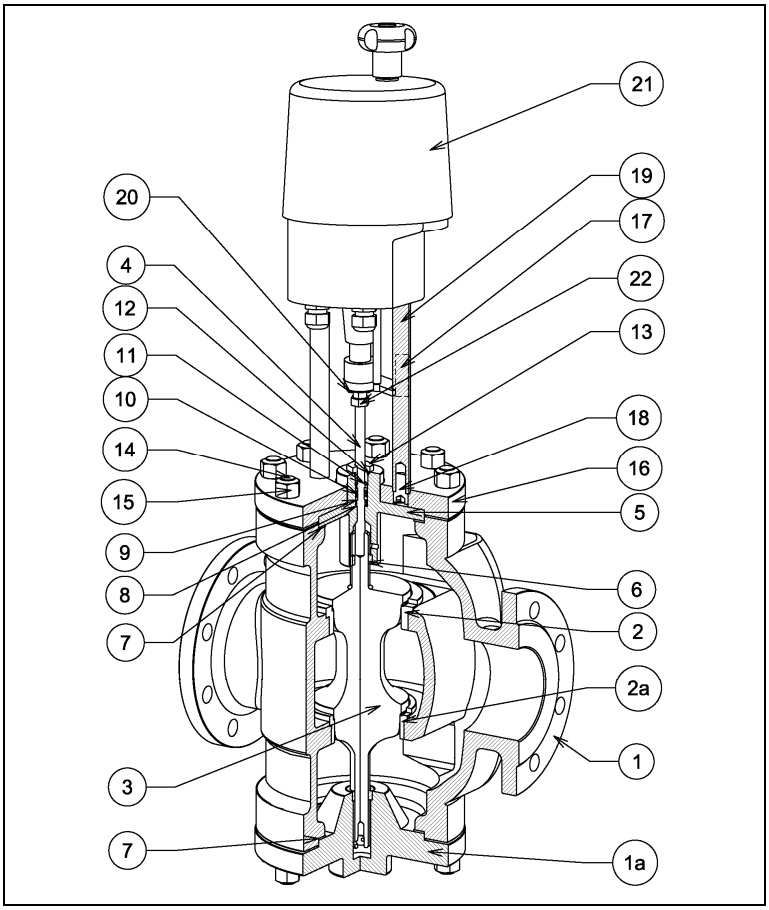
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Fax 039/654.01 - www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Speed in second for total stroke in mm

DN			50	65	80	100	125	150	200
stroke mm			19	28			50		
PSL	PSL201	Kg/cm2	29	n.a.					
		Vel. sec	76						
	PSL202	Kg/cm2	58	27	25	22	n.a.		
		Vel. sec	38	56	56	56			
	PSL204	Kg/cm2	117	55	52,0	44	n.a.		
		Vel. sec	38	56	56	56			
	PSL210	Kg/cm2	n.a.	138	129	110	n.a.		
		Vel. sec		84	84	84			
	PSL214	Kg/cm2	n.a.	n.a.	n.a.	n.a.	70	65	60
		Vel. sec					84	84	84
AMS	PSL202	Kg/cm2	67	31	29	25	n.a.	n.a.	n.a.
		Vel. sec	42 ..21	62 ..31	62 ..31	62 ..31			
	PSL204	Kg/cm2	n.a.	62	58	49	n.a.	n.a.	n.a.
		Vel. sec		62 ..31	62 ..31	62 ..31			
	PSL210	Kg/cm2	n.a.	n.a.	129	110	n.a.	n.a.	n.a.
		Vel. sec			140 ..80	140 ..80			
	PSL214	Kg/cm2	n.a.	n.a.	n.a.	n.a.	70	65	60
		Vel. sec					140 ..80	140 ..80	140 ..80

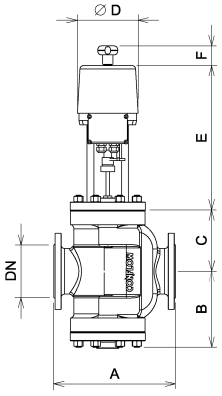
1. The values given are referred to the force of the actuator abd they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) I° pag.
1a. Lower flange	1a. C40 Carbon steel
2. Upper seat	2. St. steel AISI 316
2a. Lower seat	2a. St. steel AISI 316
3. Plug	3. St. steel AISI 316
4. Stem	4. St. steel AISI 316
5. Bonnet	5. See note (1) e (2) I° pag.
6. Guide bush	6. St. steel AISI 304
7. Body gasket	7. Europil WS 3640 or PTFE
8. Packing spring	8. St. steel AISI 302
9. Packing washer	9. St. steel AISI 304
10. Packing rings	10. See note (3) I° pag.
11. Internal “O” ring	11. Viton FPM 70
12. External “O” ring	12. Viton FPM 70
13. Packing adjusting nut	13. St. steel AISI 303
14. Stud-bolts	14. Galvanized steel
15. Body locknuts	15. Galv. steel DIN 934
16. Upper bonnet flange	16. C40 nickel plated
17. Travel indicator plate	17. Polycarbonate
18. N° 2 column fixing screwes	18. Galv. steel DIN 912
19. Actuator columns	19. St. steel AISI 430
20. Flange + locking screws	20. St. steel A2
21. Electric actuator	21. See technical data at page 1
22. Stem nut	22. Galv. steel DIN 936

DIMENSIONI in mm.



BODY GROUP

DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
50	2”	254	266	144	86	218	218
65	2.1/2”	276	292	184	111	309	309
80	3”	298	317	194	135	333	333
100	4”	352	368	224	160	363	363
125	5	403	425	271	252	435	435
150	6”	450	472	297	258	442	442
200	8”	543	568	351	283	465	465

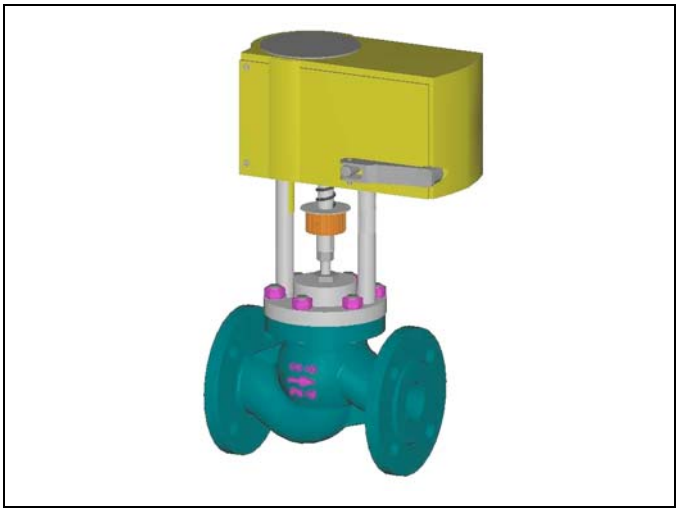
ACTUATOR

PSL202-204-210-214		
Ø D	E	F
176	410	50
176	417	50
176	417	50
176	419	50
180	490	55
180	490	55
180	490	55

A(1) cast iron = PN16 – ANSI150 - JIS10K A(2) steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY CONTROL VALVES CE



TYPE 2000 EPR

Closes without supply

Face to face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2000 EPR are equipped with DIN "straight-through" pattern bodies with EN flanges and an electric powered actuator which closes without supply.
Modulating plug suitable for control of virtually all line media.
Compact construction assembled with a linear spring return electric actuator fixed to the body by means of two steel columns.
The electric actuator works with standard 3 points modulating control signal or 4 - 20 mA or 0 - 10 V control signal.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

BODY GROUP MATERIALS (1) :

- **Cast Iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **Carbon Steel 1.0619 PN 16 … PN 40**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **Stainless Steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st.st. trim – AISI 316 bonnet

PLUGS :

- **EQP** (DN15-50) **EQV** (DN65-100) = equal percentage class. IV°
- **PL** (DN15-50 **LV** (DN65-100) = linear classe IV°
- **PT** (DN15-50) **VPT** (DN65-100)= quick lift cl. IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATOR

- Standard supply : 24V AC – 24V DC
- Degree of protection : IP 66 EN 60529
- Control signal : Three points modulating
  : 4-20 mA
  : 0-10 V
- Ambient temperature : -10 ... +55 °C
- Actuator case : yellow plastic
- Manual handweel : included std
- Electrical connections : 2 x PG13 not included (connection M20x1.5 n°2 M16x1.5 n°1)

MAX WORKING CONDITIONS :

- Max inlet pressure : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft seal PTFE/GR ≤190°C class VI°
- Soft seal PTFE ≤150°C class VI°
- Lapping plug-seat class V°
- Lapping gr. 6 on seat, plug, bush
- Reduced bores (see table CV e KV)
- Supply 220 V AC or 110 V

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plugs Class IV°		DIAMETER								
		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
		Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
	KV	2.9	5.7	9.3	14.7	20.5	43	60.5	75.2	102.1
PL	CV	3.4	6.6	11.2	17.6	23.9	51.2	72.7	89.3	123.8
	KV	2.9	5.7	9.6	15.2	20.6	44	62.7	77.0	106.7
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2
Pass.Ridotti*		•	• 1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

• DN 15	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear..MFS = Equal percentage * CV and KV values are referred to the selected diameter and plug type (EQP/EQV–PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

Via Lecco, 69/71
20041 AGRATE BRIANZA (MI)
Tel. 039/651.705 - 650.397
Fax 039/654.018

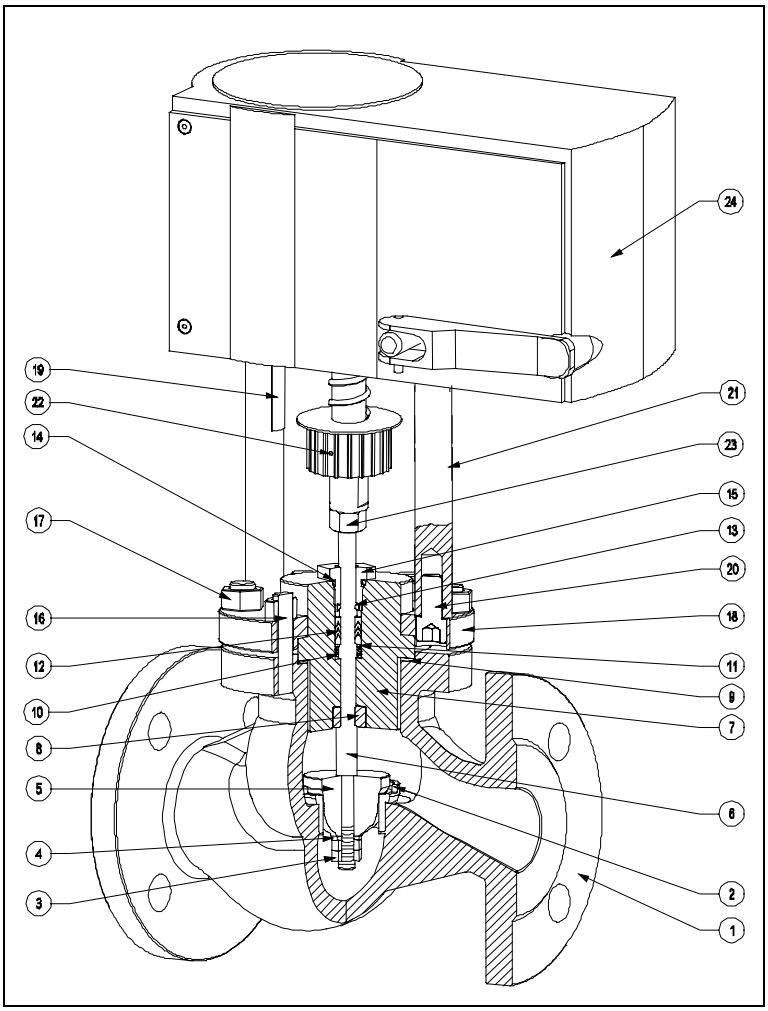
Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor
Power and Current absorbed – Speed in second for total stroke in mm

Actuator Type		DIAMETER								
Power absorbed		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
AVF234SF232 18 VA	Kg/cm2	**102.0**	**64.0**	**36.0**	**23.0**	**16.0**	**9.3**	**5.8**	**4.0**	**2.3**
	Speed sec	22	22	22	38	38	38	56	56	56
	Stroke mm	11	11	11	19	19	19	28	28	28

Actuator Type		DIAMETERS – REDUCED BORES			
Power absorbed		Ø 1/8”	Ø 3/16”	Ø 1/4”	Ø 3/8”
AVF234SF232 18 VA	Kg/cm2	**2150.0**	**936.0**	**554.0**	**259.0**
	Speed sec	22	22	22	22
	Stroke mm	11	11	11	11

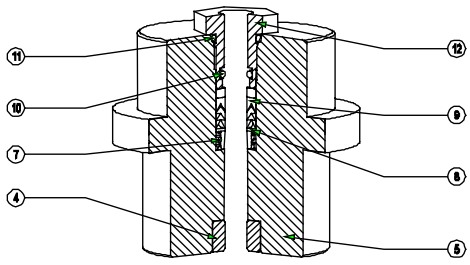
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.

COMPONENTS LIST and MATERIALS

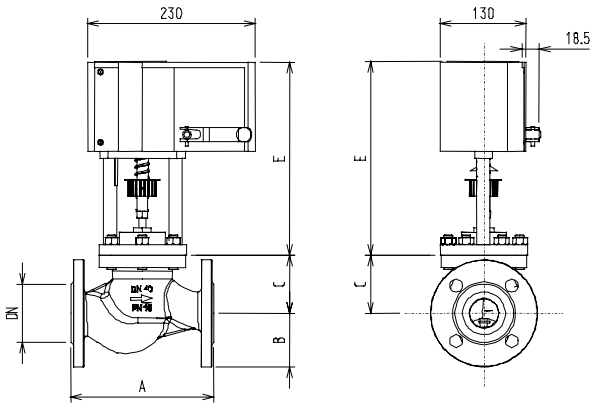


	ELENCO COMPONENTI	MATERIALI
1.	Body	See note (1) I° pag.
2.	Seat	Stainless steel AISI 316
3.	Plug locknuts	Stainless steel AISI 304
4.	Plug washer	Stainless steel AISI 304
5.	Plug	Stainless steel AISI 316
6.	Steam	Stainless steel AISI 316
7.	Bonnet	See note (1) (2) I° pag.
8.	Bush	Stainless steel AISI 304
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	Stainless steel AISI 302
11.	Packing washer	Stainless steel AISI 304
12.	Packing rings	See note (3) I° pag.
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	Stainless steel AISI 303
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	Galvanized steel DIN 934
18.	Upper bonnet flange	C40 polycarbonate
19.	Travel indicator plate	Galvanized steel DIN 912
20.	Columns fixing screws	Stainless steel AISI 430
21.	Columns	Galvanized steel DIN 914
22.	Grub screw	Galvanized steel 934
23.	Stem locknut	Galvanized steel 934
24.	Actuator	See I° pag.

BONNET DETAIL



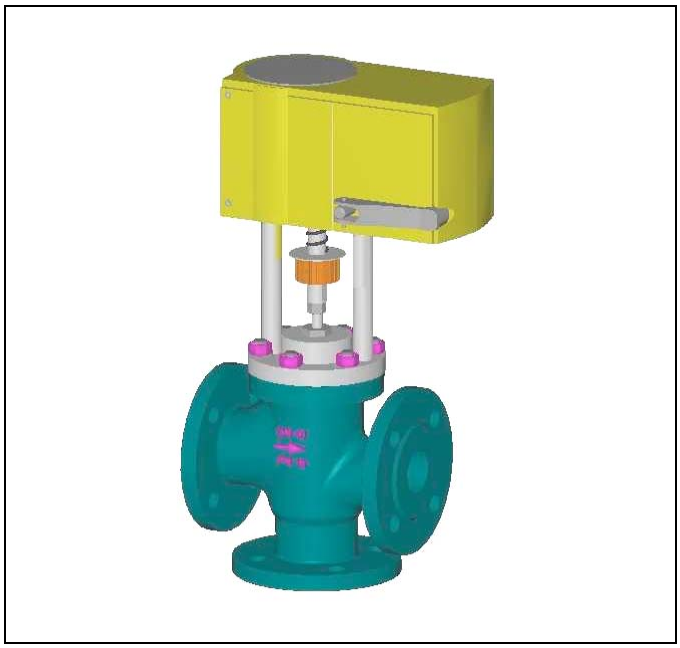
DIMENSIONS in mm.



DN	Ø	A	B	E	C - Bonnet		
					Std	finned	bellows
15	**1/2”**	130	47.5	280	49	181	181
20	**3/4”**	150	52.5	280	58	190	190
25	**1”**	160	57.5	280	68	200	200
32	**1.1/4”**	180	70	280	70	202	202
40	**1.1/2”**	200	75	280	82	214	214
50	**2”**	230	82.5	280	86	218	218
65	**2.1/2”**	290	92.5	280	111	309	309
80	**3”**	310	100	280	135	333	333
100	**4”**	350	118	280	160	363	363

Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modification deemed necessary without prior notice.

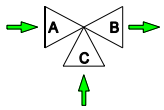
THREE WAY MIXING CONTROL VALVES CE



TYPE 2600 EPR

Without supply closes "A"
With supply opens and closes AB and CB

Face to face EN 558-1



DESCRIPTION

The "UNIWORLD" series type 2600 EPR are equipped with EN "straight-through" pattern bodies with EN flanges and and an electric powered actuator which closes without power (without power colses "A").
Type 2600 EP three-way mixing control valves (two inlet ports and one outlet port with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with a linear spring return electric actuator fixed to the body by means of two steel columns.
The electric actuator works with standard 3 points modulating or 4 - 20 mA or 0 - 10 V control signal.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

TIPI DI MATERIALE GRUPPO CORPO (1) :

- **Cast Iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **SG Iron EN-GJS400-18LT (GGG 40.3) PN 16**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **Carbon Steel 1.0619 PN 16 … PN 40**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **Stainless Steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st.st. trim – AISI 316 bonnet

PLUGS :

- **EQP** (DN15-50) **EQV** (DN65-100) = equal percentage class. IV°
- **PL** (DN15-50 **LV** (DN65-100) = linear classe IV°
- **PT** (DN15-50) **VPT** (DN65-100)= quick lift cl. IV°

TIPI DI BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < 5 °C
  Bellows sealed : for thermal oil or hazardous media with
  (PN 16 - 25 - 40) standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C
  to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATOR :

- Standard supply : 24V AC – 24V DC
- Degree of protection : IP 66 EN 60529
- Control signal : Three points modulating
  : 4-20 mA
  : 0-10 V
- Ambient temperature : -10 ... +55 °C
- Actuator case : yellow plastic
- Manual handweel : included std
- Electrical connections : 2 x PG13 not inclided
  (connections M20x1.5 n°2
  M16x1.5 n°1)

MAX WORKING CONDITIONS :

- Max inlet pressure : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft seal PTFE/GR ≤190°C class VI°
- Soft seal PTFE ≤150°C class VI°
- Lapping plug-seat class V°
- Lapping gr. 6 on seat, plug, bush
- Reduced bores (see table CV e KV)
- Supply 220 V AC or 110 V

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plug		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
		Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
PL	CV	3.4	6.6	10	23.4	28	36.4	72.7	89.3	123.8
	KV	2.9	5.7	8.6	20.1	24.1	31.4	62.7	77.0	106.7
PT	CV	3.4	6.6	13.8	30.3	38.7	52	99.6	116.2	162.4
	KV	2.9	5.7	11.9	26.1	33.4	44.8	85.8	100.1	140
Red. bore		n.a.	1/2"	1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

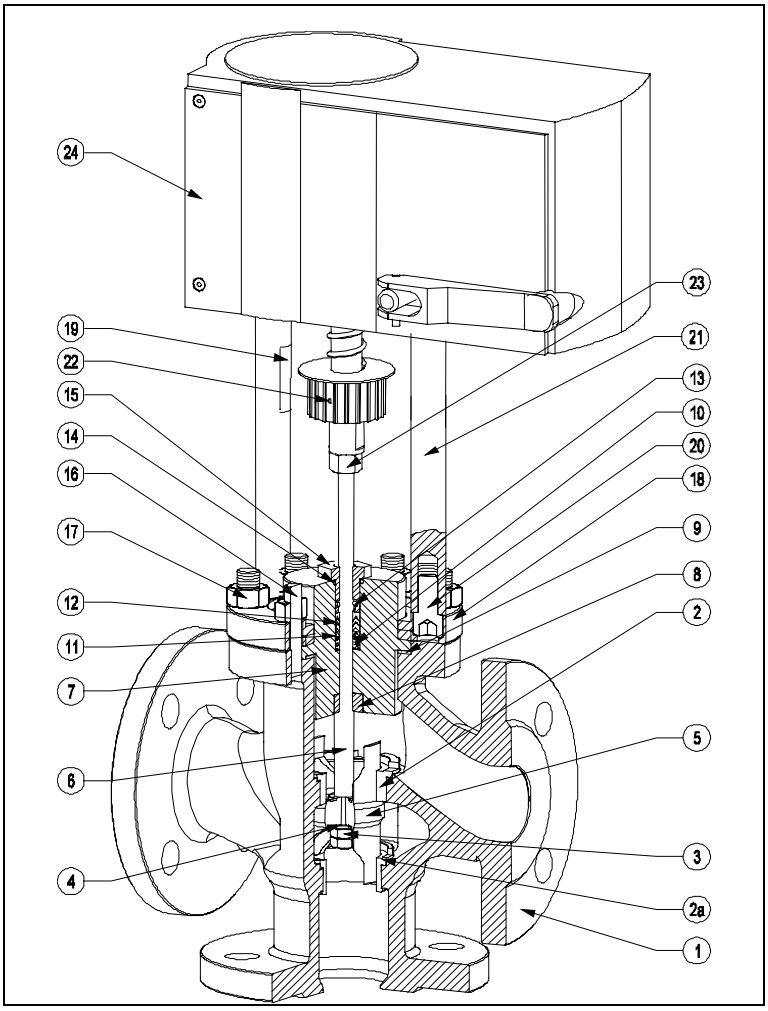
Via Lecco, 69/71
20041 AGRATE BRIANZA (MI)
Tel. 039/651.705 - 650.397
Fax 039/654.018

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor Power and Current absorbed – Speed in second for total stroke in mm

Actuator Type / Power absorbed		DIAMETER								
		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
AVF234SF132 18 VA	Kg/cm2	102.0	64.0	36.0	23.0	16.0	9.3	5.8	4.0	2.3
	Speed sec	22	22	22	38	38	38	56	56	56
	Stroke mm	11	11	11	19	19	19	28	28	28

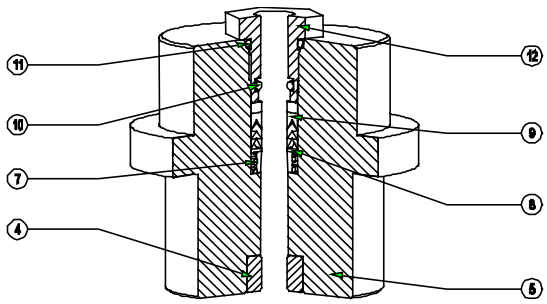
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.

COMPONENTS LIST and MATERIALS

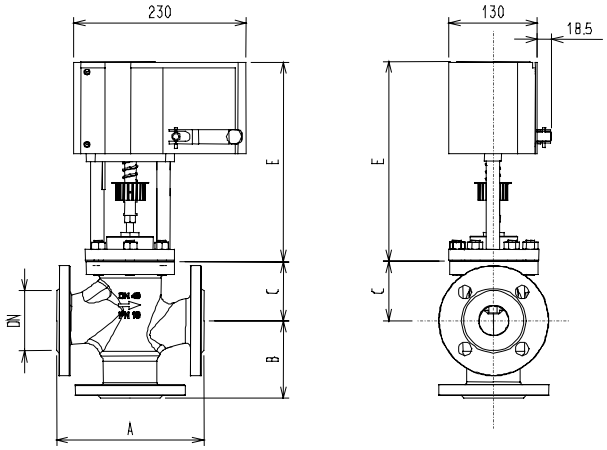


	COMPONENTS	MATERIALS
1.	Body	Vedi nota (1) I° pag.
2.	Upper seat	Acc. Inox AISI 316
2a.	Lower seat	Acc. Inox AISI 316
3.	Plug locknuts	Stainless steel AISI 304
4.	Plug washer	Stainless steel AISI 304
5.	Plug	Stainless steel AISI 316
6.	Steam	Stainless steel AISI 316
7.	Bonnet	See note (1) (2) I° pag.
8.	Bush	Stainless steel AISI 304
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	Stainless steel AISI 302
11.	Packing washer	Stainless steel AISI 304
12.	Packing rings	See note (3) I° pag.
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	Stainless steel AISI 303
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	Galvanized steel DIN 934
18.	Upper bonnet flange	C40 polycarbonate
19.	Travel indicator plate	Galvanized steel DIN 912
20.	Columns fixing screws	Stainless steel AISI 430
21.	Columns	Galvanized steel DIN 914
22.	Grub screw	Galvanized steel 934
23.	Stem locknut	Galvanized steel 934
24.	Actuator	See I° pag.

BONNET DETAILS



DIMENSIONS in mm.



DN	Ø	A	B	E	C - Bonnet		
					Std	finned	bellows
15	1/2”	130	70	280	49	181	181
20	3/4”	150	80	280	58	190	190
25	1”	160	85	280	68	200	200
32	1.1/4”	180	100	280	70	202	202
40	1.1/2”	200	105	280	82	214	214
50	2”	230	120	280	86	218	218
65	2.1/2”	290	130	280	111	309	309
80	3”	310	140	280	135	333	333
100	4”	350	150	280	160	363	363

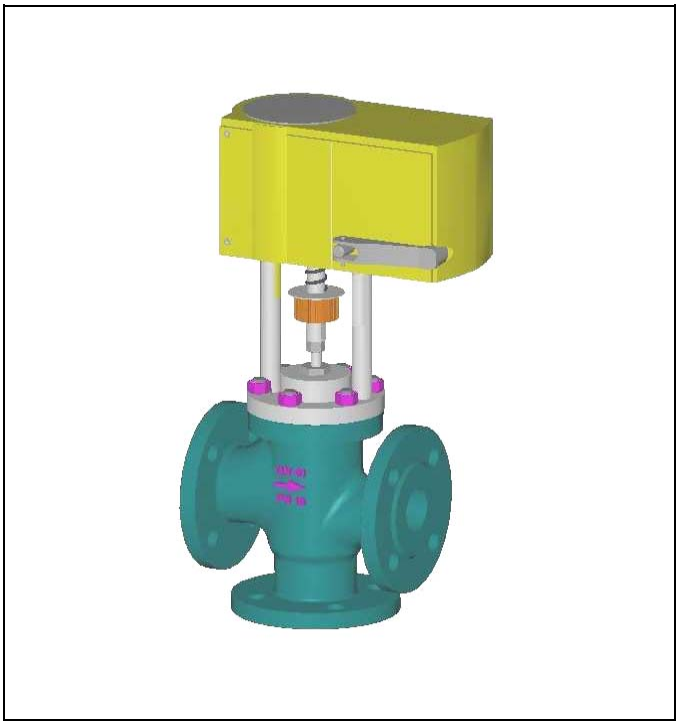
Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modification deemed necessary without prior notice.

SPRING RETURN ELECTRIC POWERED VALVES

UNIWORLD series

2700EPR/E	
10	2013

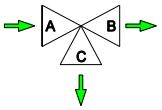
THREE WAY DIVERTING CONTROL VALVES CE



TYPE 2700 EPR

Without supply closes "B"
DN 15 – DN 20 actuator AVF234SF132
DN 25 – DN 100 actuator AVF234SF232

Face to face EN 558-1



DESCRIPTION

The "UNIWORLD" series type 2700 EPR are equipped with EN "straight-through" pattern bodies with EN flanges and and an electric powered actuator which closes without power (without power closes "B").
Type 2700 EPR three-way diverting control valves (one inlet port and two outlet ports with fluid opens) have a modulating plug suitable for control of virtually all line media.
Compact construction assembled with a linear spring return electric actuator fixed to the body by means of two steel columns.
The electric actuator works with standard 3 points modulating or 4 - 20 mA or 0 - 10 V control signal.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

BODY GROUP MATERIAL (1) :

- **Cast Iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **SG Iron EN-GJS400-18LT (GGG 40.3) PN 16**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **Carbon Steel 1.0619 PN 16 … PN 40**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **Stainless Steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st.st. trim – AISI 316 bonnet

PLUGS :

- **PL** (DN15-50 **LV** (DN65-100) = linear classe IV°
- **PT** (DN15-50) **VPT** (DN65-100)= quick lift cl. IV°

BONNET (2) :

- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < 5 °C
- Bellows sealed : for thermal oil or hazardous media with (PN 16 - 25 - 40) standard safety gland arrangement

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATOR :

- Standard supply : 24V AC – 24V DC
- Degree of protection : IP 66 EN 60529
- Control signal : Three points modulating
  : 4-20 mA
  : 0-10 V
- Ambient temperature : -10 ... +55 °C
- Actuator case : yellow plastic
- Manual handweel : included std.
- Electrical connections : 2 x PG13 not included (connections M20x1.5 n°2 M16x1.5 n°1)

MAX WORKING CONDITIONS :

- Max inlet pressure : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft seal PTFE/GR ≤190°C class VI°
- Soft seal PTFE ≤150°C class VI°
- Lapping plug-seat class V°
- Lapping gr. 6 on seat, plug, bush
- Reduced bores (see table CV e KV)
- Supply 220 V AC or 110 V

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Full bore plug		DN 15	DN 20	DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100	
		Ø 1/2"	Ø 3/4"	Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"		Ø 2.1/2"		Ø 3"		Ø 4"	
PL	CV	3.4	6.6	10		23.4		28		36.4		72.7		89.3		123.8	
	KV	2.9	5.7	8.6		20.1		24.1		31.4		62.7		77.0		106.7	
PT	CV	3.4	6.6	13.8		30.3		38.7		52		107.3		129.3		175.4	
	KV	2.9	5.7	11.9		26.1		33.4		44.8		92.5		111.5		151.2	
Red.bores*		n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable

* CV and KV values are referred to the selected diameter and plug type (PL/LV only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

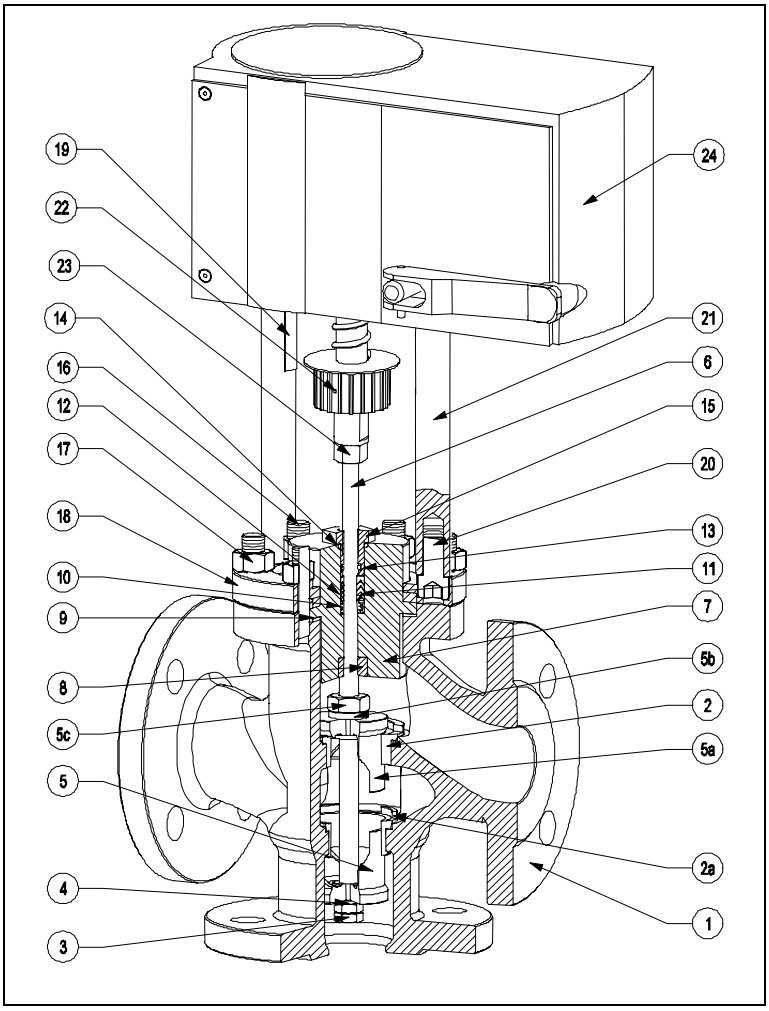
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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor Power and Current absorbed – Speed in second for total stroke in mm

Actuator Type Power absorbed		DIAMETER								
		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
AVF234SF132 18 VA	Kg/cm2	**102.0**	**64.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Speed sec	22	22	-	-	-	-	-	-	-
	Stroke mm	11	11	-	-	-	-	-	-	-
AVF234SF232 18 VA	Kg/cm2	-	-	**36.0**	**23.0**	**16.0**	**9.3**	**5.8**	**4.0**	**2.3**
	Speed sec	-	-	22	38	38	38	56	56	56
	Stroke mm	-	-	11	19	19	19	28	28	28

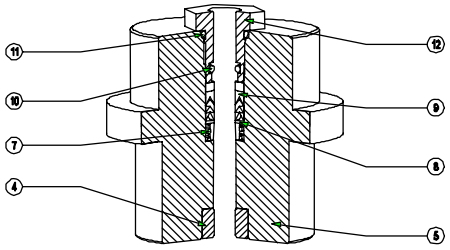
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.

COMPONENTS LIST and MATERIALS

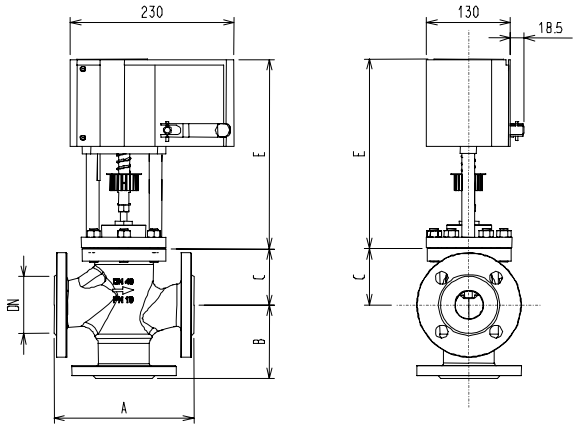


	COMPONENTS	MATERIALS
1.	Body	See note (1) I° pag.
2.	Upper seat	Stainless Steel AISI 316
2a.	Lower seat	Stainless Steel AISI 316
3.	Plug locknuts	Stainless Steel AISI 304
4.	Plug washer	Stainless Steel AISI 304
5.	Lower plug profile	Stainless Steel AISI 316
5a.	Upper plug profile	Stainless Steel AISI 316
5b.	Upper plug washer	Stainless Steel AISI 304
5c.	Upper plug locknut	Stainless Steel AISI 304
6.	Stem	Stainless Steel AISI 316
7.	Bonnet	See note (1) (2) I° pag.
8.	Bush	Stainless Steel AISI 304
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	Stainless Steel AISI 302
11.	Packing washer	Stainless Steel AISI 304
12.	Packing rings	See note (3) I° pag.
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	Stainless Steel AISI 303
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	Galvanized steel DIN 934
18.	Upper bonnet flange	C40
19.	Travel indicator plate	Polycarbonate
20.	N° 2 screws columns for actuator	Galvanized steel DIN 912
21.	Columns	Stainless Steel AISI 430
22.	Grub screw	Galvanized steel DIN 914
23.	Stem locknut	Galvanized steel DIN 934
24.	Actuator	See I°pag

BONNET DETAIL



DIMENSIONS in mm.



DN	Ø	A	B	E	C - Bonnet		
					Std	finned	bellows
15	**1/2”**	130	70	280	49	181	181
20	**3/4”**	150	80	280	58	190	190
25	**1”**	160	85	280	68	200	200
32	**1.1/4”**	180	100	280	70	202	202
40	**1.1/2”**	200	105	280	82	214	214
50	**2”**	230	120	280	86	218	218
65	**2.1/2”**	290	130	280	111	309	309
80	**3”**	310	140	280	135	333	333
100	**4”**	350	150	280	160	363	363

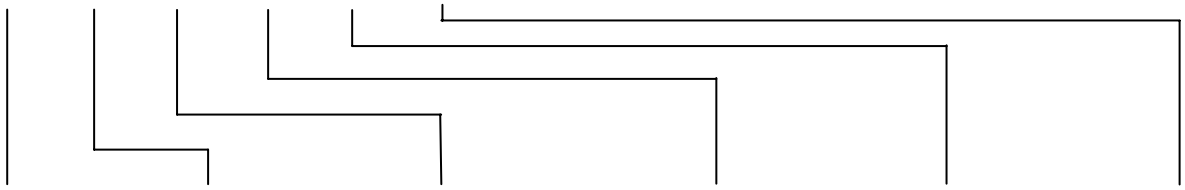
Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

Sistema Codifica Prodotti Serie HP60

Products Codification System HP60 Series

Codice Esempio / Example Code

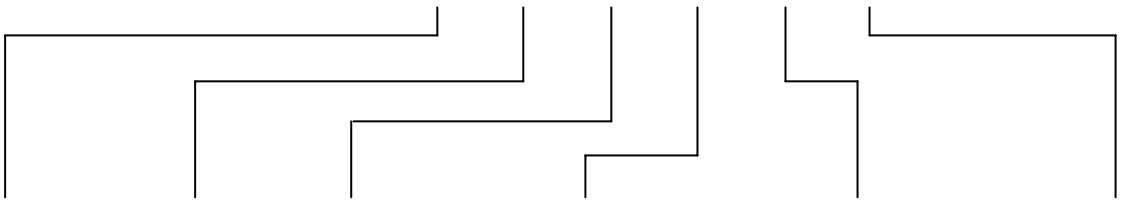
60	025	B	16B	FB	1L	0	0	0	0	0	R	T2	0	19	A



Tipo Type		DN		Materiale Material		Flangiatura Connections		Passaggio Bore		Otturatore Plug	
60	HP60	024	Ø 1"	B	Carbon Steel	63B	PN 63 form B	FB	Full Bore	1E	1 Cage %
		025	DN25	C	AISI 316	63C	PN 63 form C	03	Ø1/8"	1L	1 Cage Linear
		031	Ø1.1/4"	E	AISI 316L	63D	PN 63 form D	05	Ø3/16"	2L	2 Cages Linear
		032	DN32	L	A352-LCB	63E	PN 63 form E	06	Ø1/4"	2E	1 Cage 1%+1L
		039	Ø 1.1/2"	W	Super Duplex	63F	PN 63 form F	10	Ø3/8"	3L	3 Cages Linear
		040	DN40	Y	Special	10B	PN100 form B	15	Ø1/2"	3E	1 Cage 1%+2L
		049	Ø 2"			10C	PN100 form C	20	Ø3/4"	CE	% (EQP-EQV)
		050	DN50			10D	PN100 form D	25	Ø1"	CL	Linear (PL-LV)
		064	Ø2.1/2"			10E	PN100 form E	32	Ø1.1/4"	CT	On-Off (PT-VPT)
		065	DN65			10F	PN100 form F	40	Ø1.1/2"	MF	Microflow Linear
		079	Ø 3"			30J	ANSI 300 RJ	50	Ø2"	1S	Microflow 1SG %
		080	DN80			30R	ANSI 300 RF	65	Ø2.1/2"	2S	Microflow 2SG %
		099	Ø 4"			60J	ANSI 600 RJ	80	Ø3"		
		100	DN100			60R	ANSI 600 RF				
						6LT	ANSI 600 LT				
						6LG	ANSI 600 LG				
						6ST	ANSI 600 ST				
						6SG	ANSI 600 SG				
						6LM	ANSI 600 LM				
						6SM	ANSI 600 SM				
						6SF	ANSI 600 SF				
						BWE	BUt Weld				
						NPT	NPT				
						RCI	RC-ISO7				
						RPI	RP-ISO7				
						SWE	Socket Weld				

Segue Codice Esempio / Follow Example Code

60	025	B	16B	FB	1L	0	0	0	0	0	R	T2	0	19	A



Tenuta Seal		Guarnizioni Gaskets		Bulloneria Bolts		Bonnet		Bussola guida Guide bush		Premistoppa /Packing	
R	PTFE/GR Cl. VI°	0	STD	0	STD	0	STD Finned	0	STD	C	STD
S	Stellite Gr.6	T	PTFE	1	AISI 304	E	Extended	H	Stellite Gr.6	G	Graphite
T	PTFE Cl. VI°			2	AISI 316	S	Bellows PN16	R	Rasch./Scraper	I	Lubricator+Graphite
V	Cl.V°					T	Bellows PN25			L	Labirinth *
						U	Bellows PN40			R	PTFE+GR
						Y	Cryogenic Extended			T	PTFE

* + Lubricator/Graph.

Sistema Codifica Prodotti Serie HP60
Products Codification System HP60 Series

Segue Codice Esempio / Follow Example Code

60	025	B	16B	FB	1L	0	0	0	0	0	R	T2	0	19	A

Servomotore Actuator	
K2	Pneum.T250 A304 Low Temp.
K3	Pneum.T310 A304 Low Temp.
K4	Pneum.T400 A304 Low Temp.
K5	Pneum.T500 A304 Low Temp.
L2	Pneum.T250 Painted Low Temp.
L3	Pneum.T310 Painted Low Temp.
L4	Pneum.T400 Painted Low Temp.
L5	Pneum.T500 Painted Low Temp.
M2	Electric PSL AMS02
M4	Electric PSL AMS04
M5	Electric PSL AMS214
M6	Electric PSL AMS210
M7	Electric PSL AMS320
M8	Electric PSL AMS325
P1	Electric PSL201
P2	Electric PSL202
P4	Electric PSL204
P5	Electric PSL210
P6	Electric PSL214
P7	Electric PSL320
P8	Electric PSL325
T2	Pneum. T250 Painted
T3	Pneum. T310 Painted
T4	Pneum. T400 Painted
T5	Pneum. T500 Painted
X2	Pneum. T250 A304
X3	Pneum. T310 A304
X4	Pneum. T400 A304
X5	Pneum. T500 A304
X5	Pneum. T500 A304

Extra	
0	STD
1	220V AC *
2	110V AC *
3	24V AC *
4	24V DC *
5	380V AC *
D	Handwheel AD
R	Handwheel AR

* Solo Valv. Elettrica
Only Electric Valve

Corsa Stroke	
19	19 mm
28	28 mm
50	50 mm

Segnale Signal	
A	3-15 psi
B	6-18 psi
C	6-30 psi
D	35 psi
0	Electric Valve

HP60/I/E	
07	2016

HP 60 series

PNEUMATIC & ELECTRIC CONTROL and ON-OFF VALVES
SINGLE SEAT TWO WAY 600 ClassLOW NOISE and ANTI-CAVITATION

VALVOLE DI REGOLAZIONE e ON-OFF PNEUMATICHE ed ELETTRICHE
SEGGIO SINGOLO DUE VIE classe 600 ANTIRUMORE e ANTICAVITAZIONE



TYPE - TIPO HP60 RA

Pneumatic version
Normally close – air opens
Versione pneumatica
Normalmente chiusa – aria apre

TYPE - TIPO HP60 DA

Pneumatic version
Normally open – air closes
Versione pneumatica
Normalmente aperta – aria chiude

TYPE - TIPO HP60 EP

Electric version
Tension opens and closes
Versione elettrica
Tensione apre e chiude

High Performance - Alte Prestazioni

PED 2014/68/UE	*ATEX 2014/34/UE*
MODULE A2 *– MODULO A2* CE ***1214***	***II 2 G/D Tx*** CE ***0398*** ***TYPE - TIPO HP60 RA / HP60 DA***

TA-Luft 07/2002 – VDI 2440 11/2000 Approved

Complete data sheet on request – Richiedete il data sheet completo

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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HP 60 Series

DESCRIPTION

HP 60 series are with a straight body single seat class ANSI 600, with cage guided balanced plug or contoured plug designed to withstand the most severe process conditions.
On cage version the flow is mainly controlled by the special drilled cage, wich acts as a continuos and full plug guide along the whole valve travel.
The special plug design allows improving valve rangeability by reducing minimum controllable flow and plug erosion.
The high pressure recovery factor value on cage system compared with contoured plug ensure higher flow rate on compressible fluid service and reduces cavitation risk and effects on liquid service.
All versions have quick change trim.
There are different versions :
Microflow passages on Ø 1".
Contoured unbalanced plug from Ø 1" to Ø 2"
Simple-Double-Triple cage unbalanced plug Ø 1"
Simple-Double-Triple cage balanced plug > Ø 1".
On request all reduced bores are available
Bonnet style, finned and extended is specially designed to comply with all warking conditions.
All valves can be equipped by CONFLOW pneumatic control or on-off diaphragm actuators spring return or electric control and on-off actuators tension opens & closes.

DESCRIZIONE

La serie HP 60 è costruita con corpo a globo seggio singolo via diritta classe ANSI 600 , trim a gabbia con pistone bilanciato o otturatore parabolico, è consigliata per severe condizioni di processo industriale.
Nella versione a gabbia il fluido è controllato da uno o più stadi multiforo che guidano costantemente il pistone lungo tutta la corsa.
La configurazione particolare del trim consente alti valori di "rangeability" riducendo anche i fenomeni di erosione degli interni.
Il fattore di recupero dell'alta pressione sul sistema trim a gabbia in comparazione con gli otturatori parabolici assicura una più alta portata su fluidi comprimibili e riduce i rischi legati alla cavitazione sui liquidi.
Tutte le versioni dispongono del sistema cambio veloce del "trim" – interno.
Sono disponibili diverse versioni :
Otturatori microflusso su Ø 1"
Otturatore parabolico da Ø 1" a Ø 2"
Semplice – Doppia – Tripla gabbia con pistone non bilanciato su Ø 1"
Semplice – Doppia – Tripla gabbia con pistone bilanciato da Ø 1.1/2" fino a Ø 4".
A richiesta sono disponibili i passaggi ridotti.
La configurazione del bonnet è del tipo esteso – alettato di serie in grado di lavorare in tutte le condizioni di esercizio previste dal rating.
Tutte le valvole sono equipaggiate con attuatori pneumatici a diaframma di regolazione con molla di ritorno ed on-off originali CONFLOW e con attuatori elettrici tensione apre e chiude.

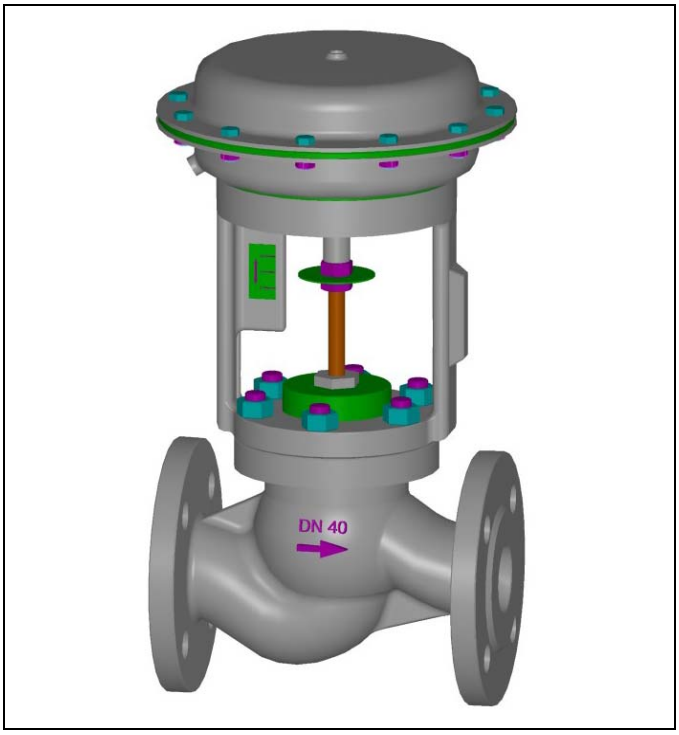
MAIN FEATURES

- *Size* **from DN 1" to DN 4"**
  Wide operating temperature – 45 °C to + 425 °C
  Up to – 196 °C with optional special extended bonnet
- *Ratings*
  ANSI 600 according ASME B16.34
  PN 63 – PN 100 according EN 12516-1
- *Standard Connections*
  ANSI B16.5 - 600 RF – RJ
  EN1092-1 PN 63 form B-C-D-E-F
  EN 1092-1 PN 100 form B-C-D-E-F
  On request :
  ANSI B16.5 -150 / 300 RF – RJ
  BW ANSI B16.25
  SW up to Ø 2"
- *Finned bonnet as base*
  On request extended type for low temperature < - 75 °C
  On request bellows seal PN100 for dangerous fluids
- *Stem Packing*
  PTFE "V" rings up to 190 °C (Approvato TA-Luft su ric.)
  PTFE/GR "V" rings up to 220 °C
  (85% PTFE + 15% GRAPHITE)
  PURE GRAPHITE up to 300 °C (over 270 °C with lubricator)
- *Special stem packing*
  PURE GRAPHITE with labyrinth and lubrificator up to 427 °C
- *Trim* **quick change – seat & plug with satellite Gr. 6**
- *Leakage class* **ANSI B16.104 std class IV°**
  On request class V° and class VI°

CARATTERISTICHE PRINCIPALI

- *Diametri* da DN 1" a DN 4"
  Ampia gamma di temperature di esercizio da -45 °C a + 425 °C
  fino a – 196 °C con prolunga allungata speciale
- *Ratings*
  ANSI 600 secondo ASME B16.34
  PN 63 – PN 100 secondo EN 12516-1
- *Connessioni standard*
  ANSI B16.5 - 600 RF - RJ
  EN 1092-1 PN 63 forma B-C-D-E-F
  EN 1092-1 PN 100 forma B-C-D-E-F
  A richiesta :
  ANSI B16.5 – 150 / 300 RF - RJ
  BW ANSI B16.25
  SW fino a Ø 2"
- *Bonnet alettato di serie*
  A richiesta bonnet allungato per basse temperature < - 75 °C
  A richiesta prolunga con soffietto PN100 per fluidi pericolosi
- *Premistoppa*
  PTFE "V" rings fino a 190 °C (TA-Luft Approved on request)
  PTFE/GR "V" rings fino a 220 °C
  (85% PTFE – 15% GRAFITE PURA)
  GRAFITE PURA fino a 300 °C (sopra 270 °C con lubrificatore)
- *Premistoppa Speciale*
  GRAFITE PURA con labirinto e lubrificatore fino a 427 °C
- *Interni* con cambio veloce – sede e otturatore stellitati Gr. 6
- *Classificazione perdite* ANSI B16.104 classe IV°
  A richiesta classe V° - classe VI°

SINGLE SEAT TWO WAY ON-OFF VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2100 AD

Normally open – air closes

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2100 AD are equipped with EN "straight-through" pattern bodies with EN flanges.
Quick lift plug with soft seal class VI or with metal seal class V.
Compact construction assembled with multisprings pneumatic actuator
The pneumatic actuator is suitable for 2-6 bar pneumatic signal.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG : PT (DN15-50) - VPT (DN 65-100):

- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temperatures ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temperatures ≤ 190 °C

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Signal : min.2 … max 6 bar
- Ambient temperature : 70 °C ≤ 3 bar *see on request
- Ambient temperature : 50 °C > 3 bar *see on request
- Actuator casing material : P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure : see leaflet n° 101/VP
- Max temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

CONFLOW s.p.a.

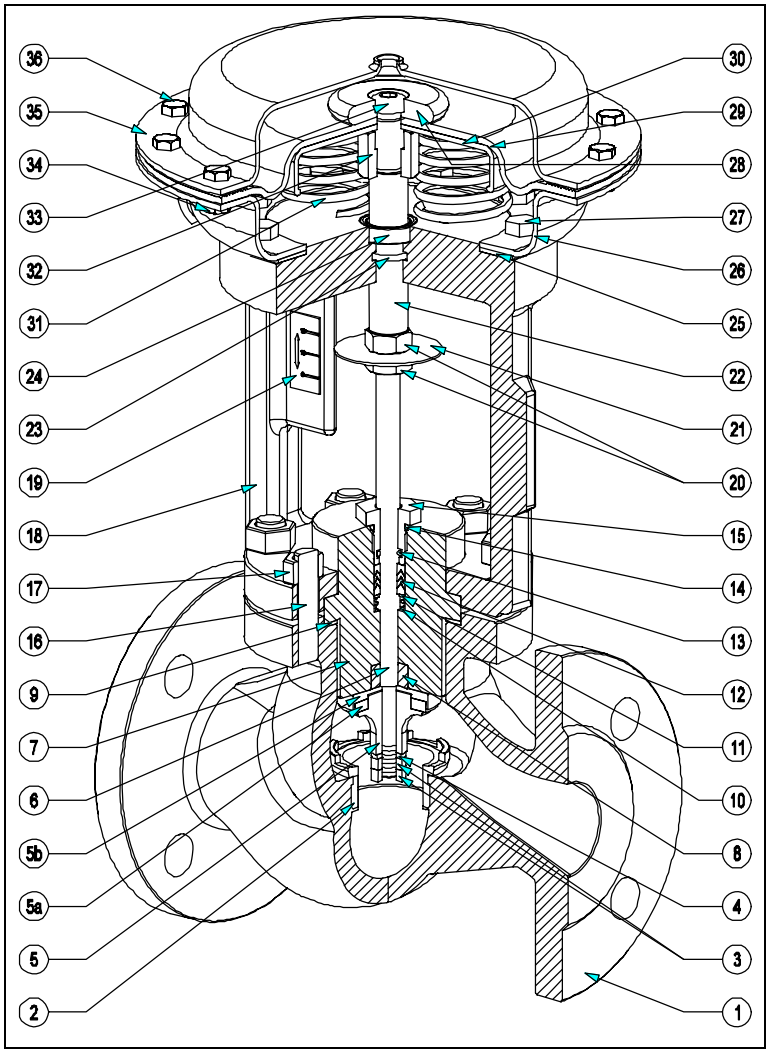
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Maximum permissible pressure drops in Kg/cm2

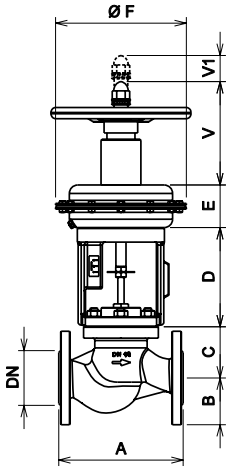
Function			NORMALLY OPENS ON AIR FAILURE				
Fluid direction			OPEN (under the plug)				
Air pressure in bar			2	3	4	5	6
DN	Stroke in mm	Actuator	Δp permissible				
15	11	T200	35	40	40	40	40
20	11	T200	30	40	40	40	40
25	11	T200	20	40	40	40	40
32	19	T200	17	30	35	40	40
40	19	T200	7	18	22	36	40
50	19	T200	3	15	20	30	38
65	19	T250	3	6.5	9	13	18
80	19	T250	1.5	4	5.5	8	11
100	19	T250	0.9	2.1	3	4.5	7

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	1. MATERIALI
1. Body	1. See note (1) at page 1
2. Seat	2. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Lower plug profile	5. AISI 316 stainless steel
5a. Soft ring	5a. PTFE or PTFE/graphite
5b. Upper plug profile	5b. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See notes (1)-(2) at page1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.

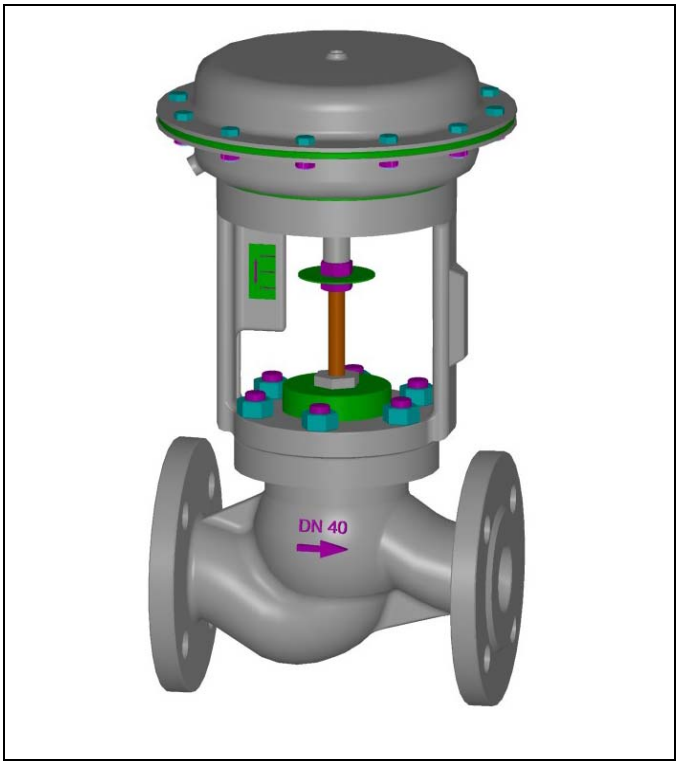


DN	Ø	A	B	C - Bonnet			D	V	V1
				Std	Finned	Bellows			
15	1/2 “	130	47.5	49	181	181	147	166	11
20	3/4 “	150	52.5	58	190	190	147	166	11
25	1 “	160	57.5	68	200	200	147	166	11
32	1.1/4 “	180	70	70	202	202	147	166	19
40	1.1/2 “	200	75	82	214	214	160	166	19
50	2 “	230	82.5	86	218	218	160	166	19
65	2.1/2 “	290	92.5	111	309	309	160	166	19
80	3 “	310	100	135	333	333	160	166	19
100	4“	350	118	160	363	363	204	166	19

Actuator.	E	Ø F
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T250	70	292
T250	70	292
T250	70	292

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY ON-OFF VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2100 AR

Normally closed – air opens

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2100 AR are equipped with EN "straight-through" pattern bodies with EN flanges.
Quick lift plug with soft seal class VI or with metal seal class V.
Compact construction assembled with multisprings pneumatic actuator
The pneumatic actuator is suitable for 2-6 bar pneumatic signal.

Type 2100 AR valves are produced for two different applications :

- for steam, air and gases with fluid direction CLOSE (F.C.) over the plug
- for water and liquid with fluid direction OPEN (F.O.) under the plug

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG : PT (DN15-50) - VPT (DN 65-100):

- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temperatures ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temperatures ≤ 190 °C

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Signal : min.2 … max 6 bar
- Ambient temperature : 70 °C ≤ 3 bar *see on request
- Ambient temperature : 50 °C > 3 bar *see on request
- Actuator casing material : P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure : see leaflet n° 101/VP
- Max temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

CONFLOW s.p.a.

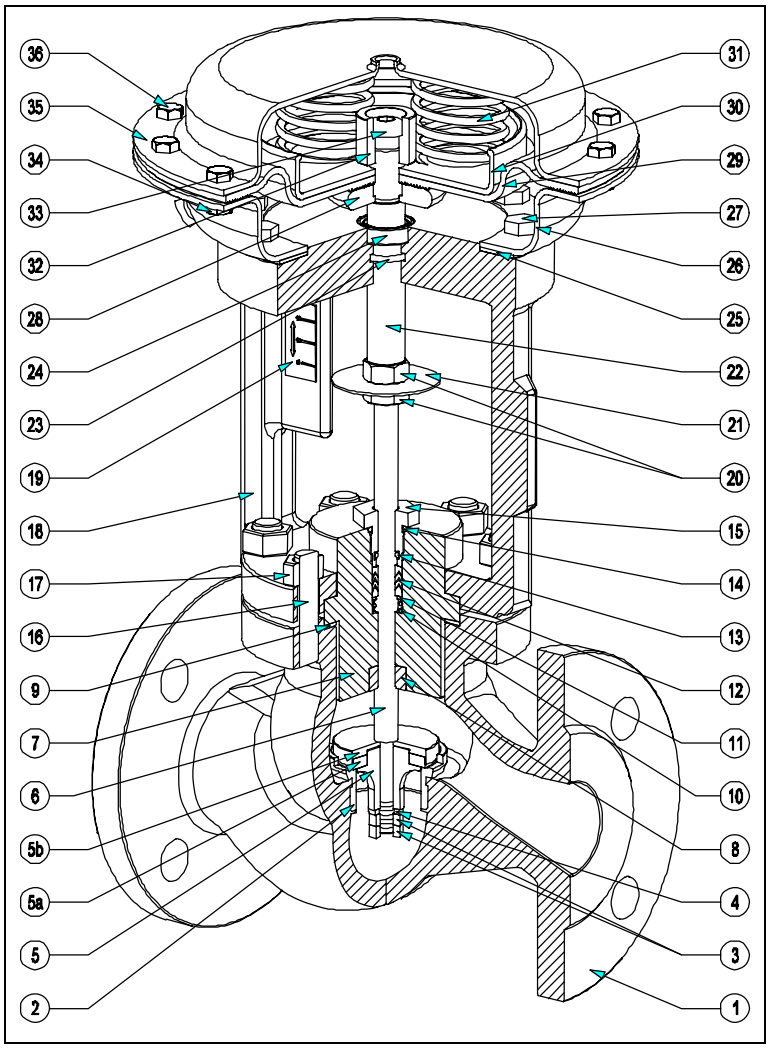
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2

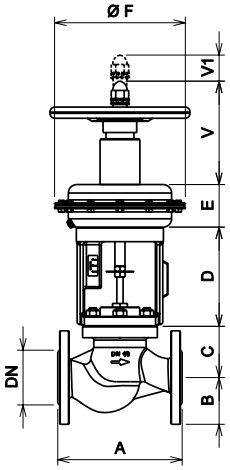
Function			NORMALLY CLOSED ON AIR FAILURE					NORMALLY CLOSED ON AIR FAILURE				
Fluid direction			CLOSE (over the plug)					OPEN (under the plug)				
Air pressure in bar			2	3	4	5	6	2	3	4	5	6
DN	Stroke in mm	Actuator	Δp permissible					Δp permissible				
15	11	T200	40	40	40	40	40	65	65	65	65	65
20	11	T200	40	40	40	40	40	40	40	40	40	40
25	11	T200	35	40	40	40	40	22	22	22	22	22
32	19	T200	27	40	40	40	40	11	11	11	11	11
40	19	T200	18	28	40	40	40	8	8	8	8	8
50	19	T200	11	16	21	27	32	6	6	6	6	6
65	19	T250	14	22	29	36	40	5.7	5.7	5.7	5.7	5.7
80	19	T250	10	15	20	25	30	4	4	4	4	4
100	19	T250	4.5	7	8.3	10	12	2.2	2.2	2.2	2.2	2.2

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	1. MATERIALI
1. Body	1. See note (1) at page 1
2. Seat	2. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Lower plug profile	5. AISI 316 stainless steel
5a. Soft ring	5a. PTFE or PTFE/graphite
5b. Upper plug profile	5b. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See notes (1)-(2) at page1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.

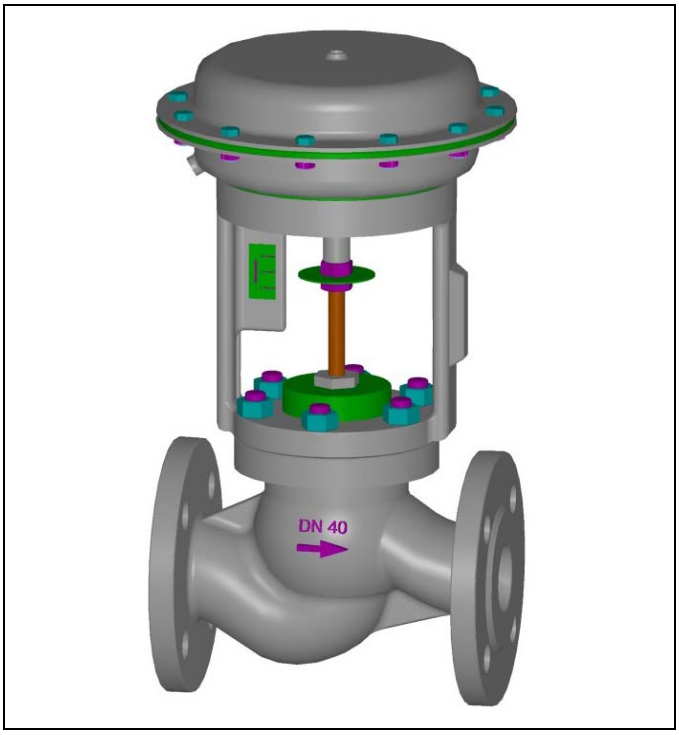


DN	Ø	A	B	C - Bonnet			D	V	V1
				Std	Finned	Bellows			
15	1/2 “	130	47.5	49	181	181	147	166	11
20	3/4 “	150	52.5	58	190	190	147	166	11
25	1 “	160	57.5	68	200	200	147	166	11
32	1.1/4 “	180	70	70	202	202	147	166	19
40	1.1/2 “	200	75	82	214	214	160	166	19
50	2 “	230	82.5	86	218	218	160	166	19
65	2.1/2 “	290	92.5	111	309	309	160	166	19
80	3 “	310	100	135	333	333	160	166	19
100	4“	350	118	160	363	363	204	166	19

Actuator	E	Ø F
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T250	70	292
T250	70	292
T250	70	292

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY ON-OFF VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 2100 DE

Double acting – air closes – air opens

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2100 DE are equipped with EN "straight-through" pattern bodies with EN flanges.
Quick lift plug with soft seal class VI or with metal seal class V.
Compact construction assembled with double acting pneumatic actuator : air closes, air opnes
The pneumatic actuator is suitable for 2-6 bar pneumatic signal from DN 15 to DN 50 and for 2-4 bar pneumatic signal from DN 65 to DN 100.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG : PT (DN15-50) - VPT (DN 65-100):
- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temperatures ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temperatures ≤ 190 °C

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Signal : min.2 max.6 bar DN15..DN50
- Signal : min.2 max.4 bar DN65..DN100
- Ambient temperature : 70 °C ≤ 3 bar *see on request
- Ambient temperature : 50 °C > 3 bar *see on request
- Actuator casing material : P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure : see leaflet n° 101/VP
- Max temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

CONFLOW s.p.a.

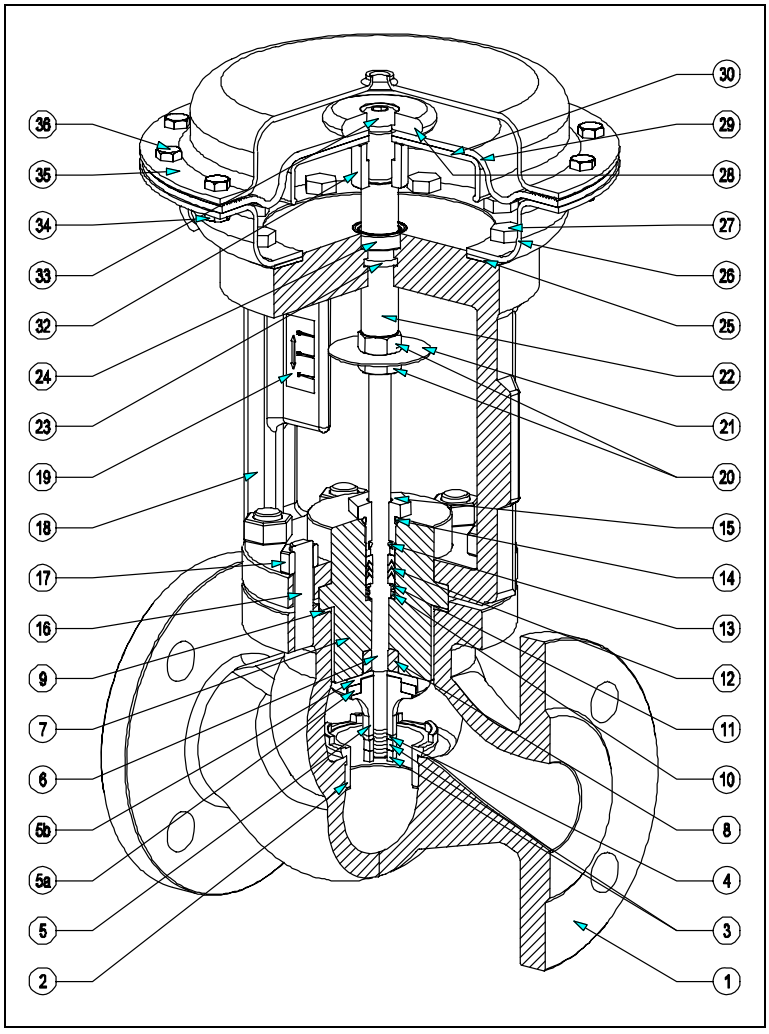
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2

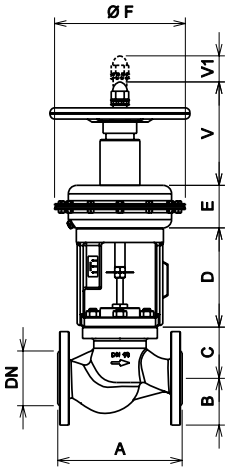
Function			DOUBLE ACTING				
Fluid direction			OPEN (under the plug)				
Air pressure in bar			2	3	4	5	6
DN	Stroke in mm	Actuator	Δp permissible				
15	11	T200	40	40	40	40	40
20	11	T200	40	40	40	40	40
25	11	T200	40	40	40	40	40
32	19	T200	25	40	40	40	40
40	19	T200	18	28	37	40	40
50	19	T200	11	16	21	27	32
65	19	T250	14	22	29	-	-
80	19	T250	10	15	20	-	-
100	19	T250	5	8	11	-	-

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	1. MATERIALI
1. Body	1. See note (1) at page 1
2. Seat	2. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Lower plug profile	5. AISI 316 stainless steel
5a. Soft ring	5a. PTFE or PTFE/graphite
5b. Upper plug profile	5b. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See notes (1)-(2) at page1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.

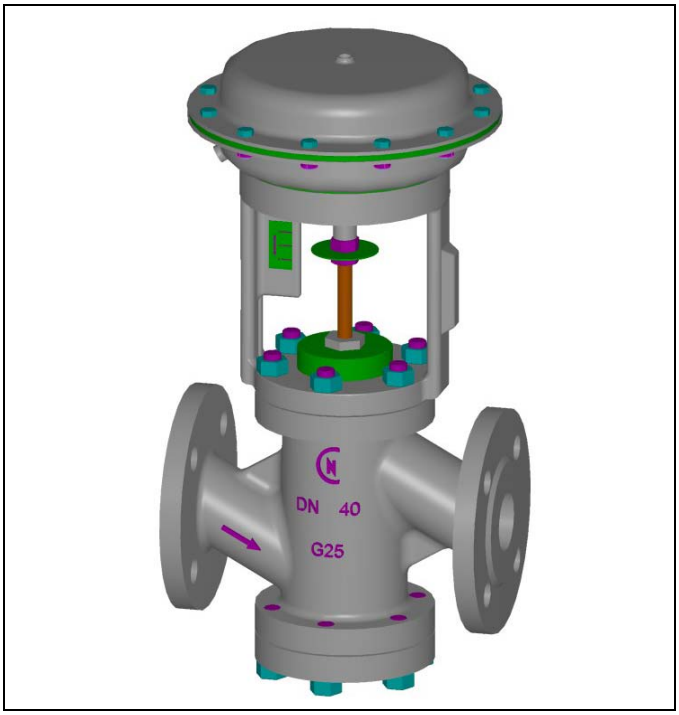


DN	Ø	A	B	C - Bonnet			D	V	V1
				Std	Finned	Bellows			
15	1/2 “	130	47.5	49	181	181	147	166	11
20	3/4 “	150	52.5	58	190	190	147	166	11
25	1 “	160	57.5	68	200	200	147	166	11
32	1.1/4 “	180	70	70	202	202	147	166	19
40	1.1/2 “	200	75	82	214	214	160	166	19
50	2 “	230	82.5	86	218	218	160	166	19
65	2.1/2 “	290	92.5	111	309	309	160	166	19
80	3 “	310	100	135	333	333	160	166	19
100	4“	350	118	160	363	363	204	166	19

Actuator.	E	Ø F
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T250	70	292
T250	70	292
T250	70	292

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY ON-OFF VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5100 AD

Normally open – air closes

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5100 AD are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Quick lift plug with soft seal class VI or with metal seal class V.
Compact construction assembled with multisprings pneumatic actuator
The pneumatic actuator is suitable for 2-6 bar pneumatic signal.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG : PT (DN15-50) - VPT (DN 65-100):
- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temperatures ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temperatures ≤ 190 °C

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Signal : min.2 … max 6 bar
- Ambient temperature : 70 °C ≤ 3 bar *see on request
- Ambient temperature : 50 °C > 3 bar *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure : see leaflet n° 101/VP
- Max temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

CONFLOW s.p.a.

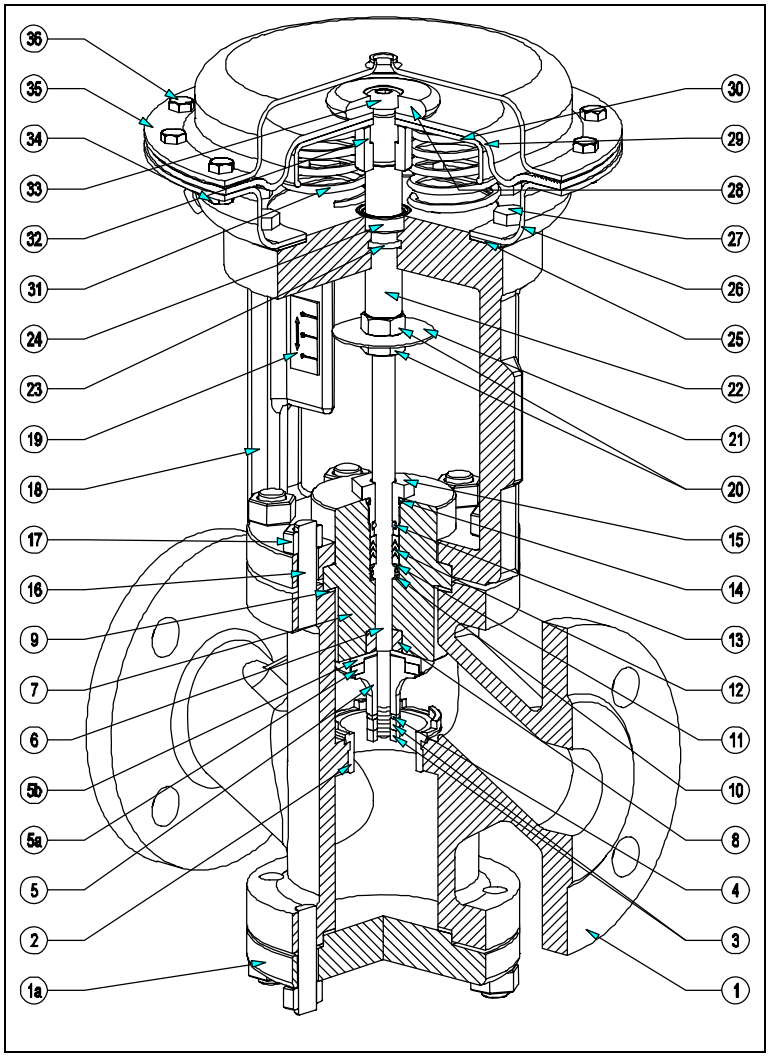
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Maximum permissible pressure drops in Kg/cm2

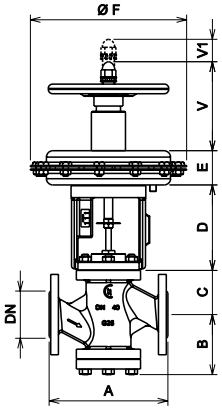
Function			NORMALLY OPENS ON AIR FAILURE				
Fluid direction			OPEN (under the plug)				
Air pressure in bar			2	3	4	5	6
DN	Stroke in mm	Actuator	Δp permissible				
15	11	T200	35	40	40	40	40
20	11	T200	30	40	40	40	40
25	11	T200	20	40	40	40	40
32	19	T200	17	30	35	40	40
40	19	T200	7	18	22	36	40
50	19	T200	3	15	20	30	38
65	19	T250	3	6.5	9	13	18
80	19	T250	1.5	4	5.5	8	11
100	19	T250	0.9	2.1	3	4.5	7

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST		1. MATERIALI	
1.	Body	1.	See note (1) at page 1
1a.	Bottom flange	1a.	C40 carbon steel
2.	Seat	2.	AISI 316 stainless steel
3.	Plug locknuts	3.	AISI 304 stainless steel
4.	Spring washer	4.	AISI 304 stainless steel
5.	Lower plug profile	5.	AISI 316 stainless steel
5a.	Soft ring	5a.	PTFE or PTFE/graphite
5b.	Upper plug profile	5b.	AISI 316 stainless steel
6.	Stem	6.	AISI 316 stainless steel
7.	Bonnet	7.	See notes (1)-(2) at page1
8.	Guide bush	8.	AISI 304 stainless steel
9.	Body gasket	9.	Europil WS 3640 or PTFE
10.	Packing spring	10.	AISI 302 stainless steel
11.	Packing washer	11.	AISI 304 stainless steel
12.	Packing rings	12.	See note (3) at page 1
13.	Internal “O” ring	13.	Viton FPM 70
14.	External “O” ring	14.	Viton FPM 70
15.	Packing adjusting nut	15.	AISI 303 stainless steel
16.	Stud-bolts	16.	Galvanized steel
17.	Body locknuts	17.	DIN 934 galvanized steel
18.	Yoke	18.	GGG50 spheroidal c. iron
19.	Travel indicator plate	19.	Policarbonate
20.	Position indicator locknuts	20.	DIN 936 galvanized steel
21.	Position indicator	21.	Aluminium
22.	Diaphragm rod	22.	AISI 303 stainless steel
23.	“O” ring	23.	NBR
24.	Airtight	24.	NBR
25.	Yoke gasket	25.	Cork – rubber
26.	Lower diaphragm casing	26.	P11 steel
27.	Lower diaphragm casing internal bolts	27.	DIN 933 galvanized steel
28.	Diaphragm spacer	28.	Galvanized steel
29.	Diaphragm	29.	EPDM 70
30.	Diaphragm plate	30.	P01 steel
31.	Springs	31.	C98 UNI 3823
32.	Diaphragm bush	32.	AISI 303 stainless steel
33.	Diaphragm locknut	33.	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	34.	DIN 934 galvanized steel
35.	Upper diaphragm casing	35.	P11 steel
36.	Diaphragm casing locknuts	36.	DIN 933 galvanized steel

DIMENSIONS in mm.



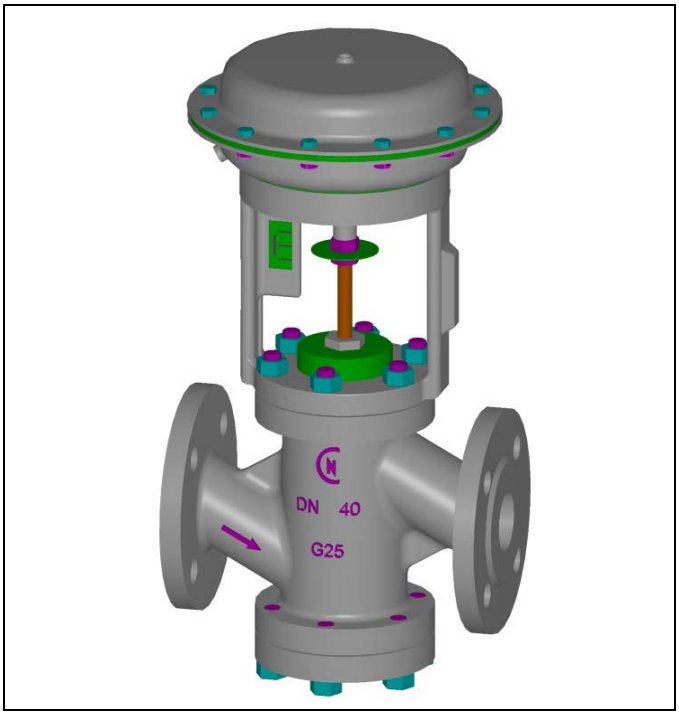
DN	Ø	A(1)	A(2)	B	C - Bonnet			D	V	V1
					Std	Finned	Bellows			
15	1/2 “	184	190	67	49	181	181	147	166	11
20	3/4 “	184	194	67	58	190	190	147	166	11
25	1 “	184	197	90	68	200	200	147	166	11
32	1.1/4 “	200	212	92	70	202	202	147	166	19
40	1.1/2 “	222	235	108	82	214	214	160	166	19
50	2 “	254	267	108	86	218	218	160	166	19
65	2.1/2 “	276	292	148	111	309	309	160	166	19
80	3 “	298	317	148	135	333	333	160	166	19
100	4 “	352	368	176	160	363	363	204	166	19

Actuator	E	Ø F
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T250	70	292
T250	70	292
T250	70	292

A(1) cast iron = PN16 – ANSI150 – JIS10K
A(2) carbon steel and stainless steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY ON-OFF VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5100 AR

Normally closed – air opens

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5100 AR are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Quick lift plug with soft seal class VI or with metal seal class V.
Compact construction assembled with multisprings pneumatic actuator
The pneumatic actuator is suitable for 2-6 bar pneumatic signal.

Type 5100 AR valves are produced for two different applications :

- for steam, air and gases with fluid direction CLOSE (F.C.) over the plug
- for water and liquid with fluid direction OPEN (F.O.) under the plug

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG : PT (DN15-50) - VPT (DN 65-100):

- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temperatures ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temperatures ≤ 190 °C

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :

- Actuator : diaphragm type
- Signal : min.2 … max 6 bar
- Ambient temperature : 70 °C ≤ 3 bar *see on request
- Ambient temperature : 50 °C > 3 bar *see on request
- Actuator casings material : Fe P11 carbon steel
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure : see leaflet n° 101/VP
- Max temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

CONFLOW s.p.a.

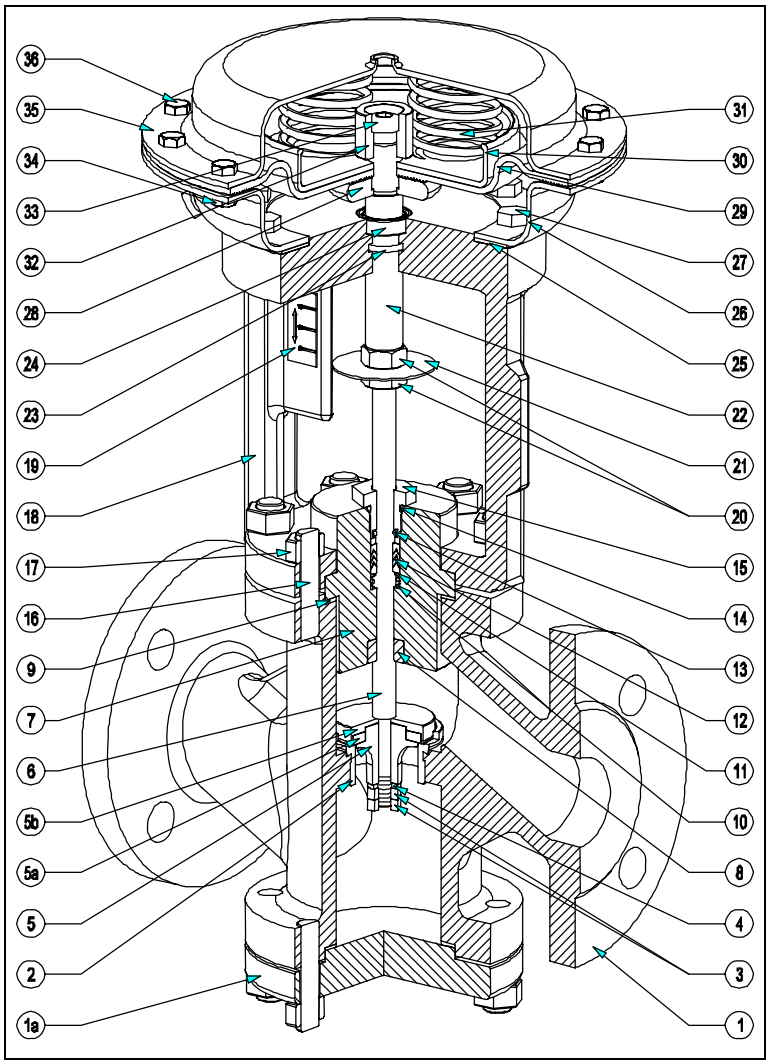
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Maximum permissible pressure drops in Kg/cm2

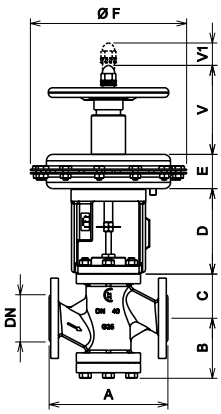
Function			NORMALLY CLOSED ON AIR FAILURE					NORMALLY CLOSED ON AIR FAILURE				
Fluid direction			CLOSE (over the plug)					OPEN (under the plug)				
Air pressure in bar			2	3	4	5	6	2	3	4	5	6
DN	Stroke in mm	Actuator	Δp permissible					Δp permissible				
15	11	T200	40	40	40	40	40	65	65	65	65	65
20	11	T200	40	40	40	40	40	40	40	40	40	40
25	11	T200	35	40	40	40	40	22	22	22	22	22
32	19	T200	27	40	40	40	40	11	11	11	11	11
40	19	T200	18	28	40	40	40	8	8	8	8	8
50	19	T200	11	16	21	27	32	6	6	6	6	6
65	19	T250	14	22	29	36	40	5.7	5.7	5.7	5.7	5.7
80	19	T250	10	15	20	25	30	4	4	4	4	4
100	19	T250	4.5	7	8.3	10	12	2.2	2.2	2.2	2.2	2.2

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST		1. MATERIALI	
1.	Body	1.	See note (1) at page 1
1a.	Bottom flange	1a.	C40 carbon steel
2.	Seat	2.	AISI 316 stainless steel
3.	Plug locknuts	3.	AISI 304 stainless steel
4.	Spring washer	4.	AISI 304 stainless steel
5.	Lower plug profile	5.	AISI 316 stainless steel
5a.	Soft ring	5a.	PTFE or PTFE/graphite
5b.	Upper plug profile	5b.	AISI 316 stainless steel
6.	Stem	6.	AISI 316 stainless steel
7.	Bonnet	7.	See notes (1)-(2) at page1
8.	Guide bush	8.	AISI 304 stainless steel
9.	Body gasket	9.	Europil WS 3640 or PTFE
10.	Packing spring	10.	AISI 302 stainless steel
11.	Packing washer	11.	AISI 304 stainless steel
12.	Packing rings	12.	See note (3) at page 1
13.	Internal “O” ring	13.	Viton FPM 70
14.	External “O” ring	14.	Viton FPM 70
15.	Packing adjusting nut	15.	AISI 303 stainless steel
16.	Stud-bolts	16.	Galvanized steel
17.	Body locknuts	17.	DIN 934 galvanized steel
18.	Yoke	18.	GGG50 spheroidal c. iron
19.	Travel indicator plate	19.	Policarbonate
20.	Position indicator locknuts	20.	DIN 936 galvanized steel
21.	Position indicator	21.	Aluminium
22.	Diaphragm rod	22.	AISI 303 stainless steel
23.	“O” ring	23.	NBR
24.	Airtight	24.	NBR
25.	Yoke gasket	25.	Cork – rubber
26.	Lower diaphragm casing	26.	P11 steel
27.	Lower diaphragm casing internal bolts	27.	DIN 933 galvanized steel
28.	Diaphragm spacer	28.	Galvanized steel
29.	Diaphragm	29.	EPDM 70
30.	Diaphragm plate	30.	P01 steel
31.	Springs	31.	C98 UNI 3823
32.	Diaphragm bush	32.	AISI 303 stainless steel
33.	Diaphragm locknut	33.	ISO 7380 galvanized steel
34.	Diaphragm casing bolts	34.	DIN 934 galvanized steel
35.	Upper diaphragm casing	35.	P11 steel
36.	Diaphragm casing locknuts	36.	DIN 933 galvanized steel

DIMENSIONS in mm.



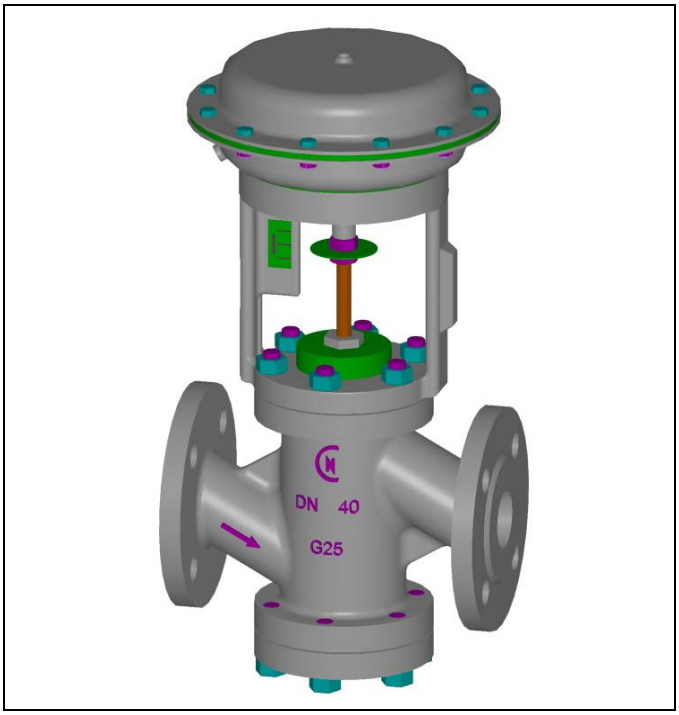
DN	Ø	A(1)	A(2)	B	C - Bonnet			D	V	V1
					Std	Finned	Bellows			
15	1/2 “	184	190	67	49	181	181	147	166	11
20	3/4 “	184	194	67	58	190	190	147	166	11
25	1 “	184	197	90	68	200	200	147	166	11
32	1.1/4 “	200	212	92	70	202	202	147	166	19
40	1.1/2 “	222	235	108	82	214	214	160	166	19
50	2 “	254	267	108	86	218	218	160	166	19
65	2.1/2 “	276	292	148	111	309	309	160	166	19
80	3 “	298	317	148	135	333	333	160	166	19
100	4 “	352	368	176	160	363	363	204	166	19

Actuator	E	Ø F
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T250	70	292
T250	70	292
T250	70	292

A(1) cast iron = PN16 – ANSI150 – JIS10K
A(2) carbon steel and stainless steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY ON-OFF VALVES CE
PED 2014/68/UE / ATEX 2014/34/UE / MACHINERY DIRECTIVE 2006/42/CE



TYPE 5100 DE

Double acting – air closes – air opens

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5100 DE are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Quick lift plug with soft seal class VI or with metal seal class V.
Compact construction assembled with double acting pneumatic actuator : air closes, air opnes
The pneumatic actuator is suitable for 2-6 bar pneumatic signal from DN 15 to DN 50 and for 2-4 bar pneumatic signal from DN 65 to DN 100.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS 10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG : PT (DN15-50) - VPT (DN 65-100):
- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temperatures ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temperatures ≤ 190 °C

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR :
- Actuator : diaphragm type
- Signal : min.2 max.6 bar DN15..DN50
- Signal : min.2 max.4 bar DN65..DN100
- Ambient temperature : 70 °C ≤ 3 bar *see on request
- Ambient temperature : 50 °C > 3 bar *see on request
- Actuator casing material : Fe P11
- Diaphragm material : EPDM 70
- Yoke material : EN-GJS500-7 spheroidal cast iron
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure : see leaflet n° 101/VP
- Max temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Lubrificator on finned bonnet for temperatures ≥ 250 °C
- Top-work manual handwheel
- ATEX 94/9/CE dedicated configuration according to the fluid
- Kit diaphragm and actuator seals certified for a.t. ≥ - 50 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

CONFLOW s.p.a.

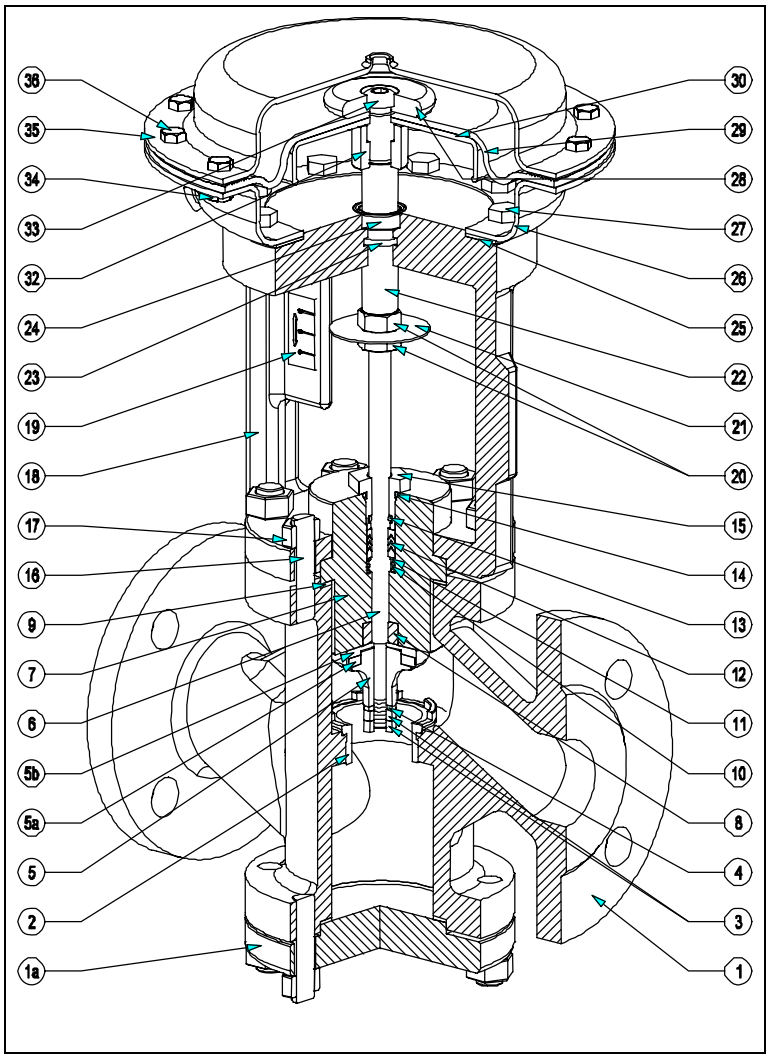
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Maximum permissible pressure drops in Kg/cm2

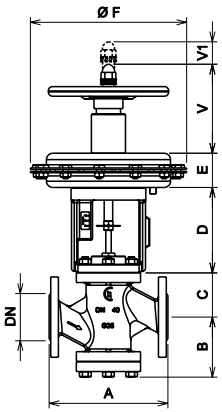
Function			DOUBLE ACTING				
Fluid direction			OPEN (under the plug)				
Air pressure in bar			2	3	4	5	6
DN	Stroke in mm	Actuator	Δp permissible				
15	11	T200	40	40	40	40	40
20	11	T200	40	40	40	40	40
25	11	T200	40	40	40	40	40
32	19	T200	25	40	40	40	40
40	19	T200	18	28	37	40	40
50	19	T200	11	16	21	27	32
65	19	T250	14	22	29	-	-
80	19	T250	10	15	20	-	-
100	19	T250	5	8	11	-	-

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	1. MATERIALI
1. Body	1. See note (1) at page 1
1a. Bottom flange	1a. C40 carbon steel
2. Seat	2. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Lower plug profile	5. AISI 316 stainless steel
5a. Soft ring	5a. PTFE or PTFE/graphite
5b. Upper plug profile	5b. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See notes (1)-(2) at page1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O” ring	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Yoke	18. GGG50 spheroidal c. iron
19. Travel indicator plate	19. Policarbonate
20. Position indicator locknuts	20. DIN 936 galvanized steel
21. Position indicator	21. Aluminium
22. Diaphragm rod	22. AISI 303 stainless steel
23. “O” ring	23. NBR
24. Airtight	24. NBR
25. Yoke gasket	25. Cork – rubber
26. Lower diaphragm casing	26. P11 steel
27. Lower diaphragm casing internal bolts	27. DIN 933 galvanized steel
28. Diaphragm spacer	28. Galvanized steel
29. Diaphragm	29. EPDM 70
30. Diaphragm plate	30. P01 steel
31. Springs	31. C98 UNI 3823
32. Diaphragm bush	32. AISI 303 stainless steel
33. Diaphragm locknut	33. ISO 7380 galvanized steel
34. Diaphragm casing bolts	34. DIN 934 galvanized steel
35. Upper diaphragm casing	35. P11 steel
36. Diaphragm casing locknuts	36. DIN 933 galvanized steel

DIMENSIONS in mm.



DN	Ø	A(1)	A(2)	B	C - Bonnet			D	V	V1
					Std	Finned	Bellows			
15	1/2 “	184	190	67	49	181	181	147	166	11
20	3/4 “	184	194	67	58	190	190	147	166	11
25	1 “	184	197	90	68	200	200	147	166	11
32	1.1/4 “	200	212	92	70	202	202	147	166	19
40	1.1/2 “	222	235	108	82	214	214	160	166	19
50	2 “	254	267	108	86	218	218	160	166	19
65	2.1/2 “	276	292	148	111	309	309	160	166	19
80	3 “	298	317	148	135	333	333	160	166	19
100	4 “	352	368	176	160	363	363	204	166	19

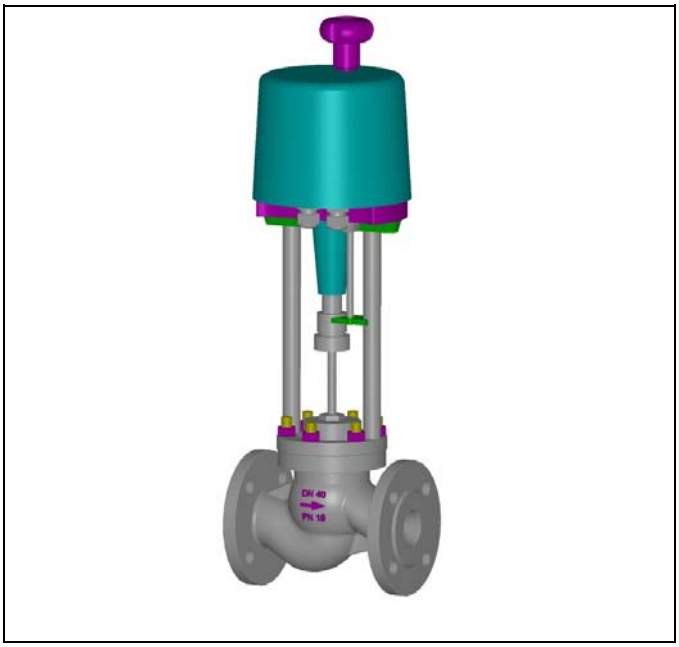
Actuator	E	Ø F
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T200	70	210
T250	70	292
T250	70	292
T250	70	292

A(1) cast iron = PN16 – ANSI150 – JIS10K
A(2) carbon steel and stainless steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series ELECTRIC POWERED VALVES

SINGLE SEAT TWO WAY ON-OFF VALVES CE



TYPE 2100 EP

with tension opens and closes

Face-to-face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2100 EP are equipped with EN "straight-through" pattern bodies with EN flanges.
Quick opening plug with both standard metal seal (leakage class V) and soft seal for perfect tightness (leakage class VI).
Compact construction assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
The standard on-off signal is a relay contact to open and close the valve.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 ... PN40

MATERIALS OF BODY GROUP (1) :
- **Cast iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel 1.0619 PN 16 … PN 40**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG : PT (DN15-50) - VPT (DN 65-100):
- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temperatures ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temperatures ≤ 190 °C

BONNET (2) :
- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATOR :
- Standard power supply : 220 V AC
- Degree of protection : IP 65 DIN 40050
- On-off signal : opens and closes
- Ambient temperature : -20 ... +60 °C
- Actuator case material : die cast aluminium
- Actuator cover material : polycarbonate
- Manual handwheel : standard included
- Electric connections : cable gland PG13 (2 off)

MAX WORKING CONDITIONS :
- Max inlet pressure : see leaflet n° 101/VP
- Max temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :
- Power supply 24 V DC – 24 V AC – 110 V AC
- Card with mechanical limit switches
- Potentiometer 1000 Ohm, simple or double
- IP 67 DIN 40050 protection
- Heating resistor for ambient temperature up-to - 30 °C

CV = american unit (flow rate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

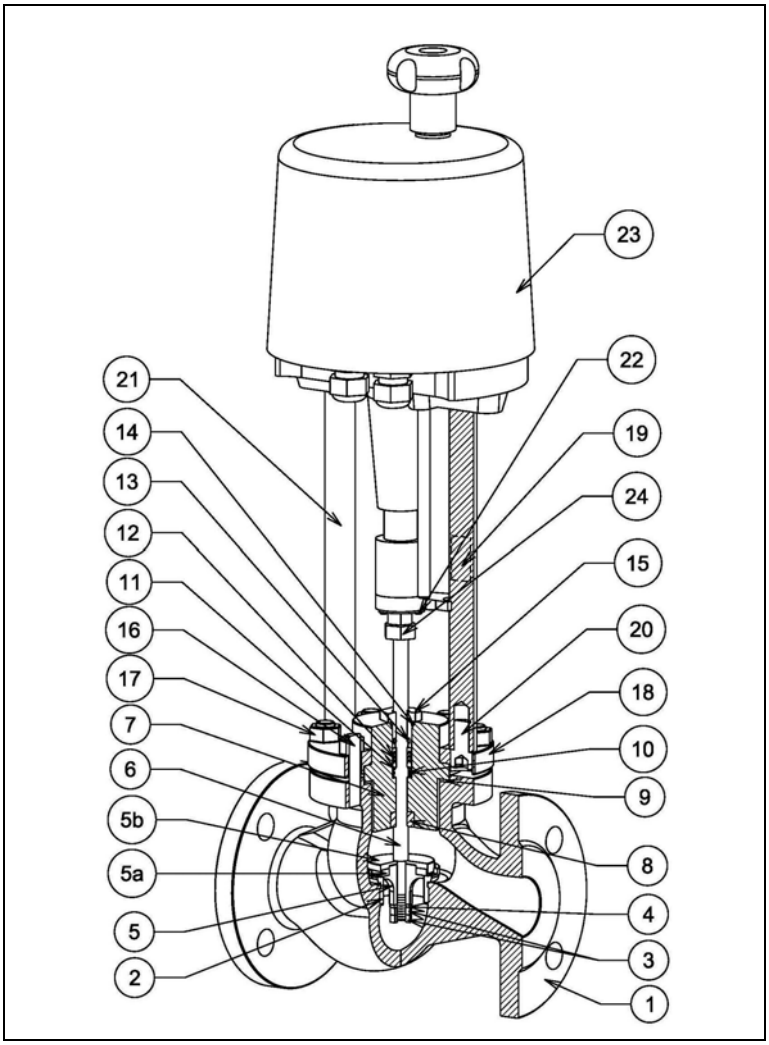
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor Power and Current absorbed – Speed in second for total stroke in mm

Actuator Type / Power absorbed		NOMINAL DIAMETER								
		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
PSL201	Kg/cm2	**50**	**31**	**18**	**12**	**8**	**4,5**	-	-	-
50/60 Hz	speed sec	44	44	44	76	76	76	-	-	-
26 VA	stroke mm	11	11	11	19	19	19	-	-	-
PSL202	Kg/cm2	**-**	**62**	**36**	**24**	**16**	**9**	**6**	**4**	**2,2**
50/60 Hz	speed sec	-	22	22	38	38	38	56	56	56
37/40 VA	stroke mm	-	11	11	19	19	19	28	28	28
PSL204	Kg/cm2	**-**	**-**	**85**	**55**	**38**	**22**	**13,5**	**9,5**	**5,2**
50/60 Hz	speed sec	-	-	22	38	38	38	56	56	56
44/47 VA	stroke mm	-	-	11	19	19	19	28	28	28
PSL210	Kg/cm2	**-**	**-**	**-**	**-**	**94**	**54**	**33.5**	**23.5**	**13**
50/60 Hz	speed sec	-	-	-	-	38	57	84	84	84
72/68 VA	stroke mm	-	-	-	-	19	19	28	28	28

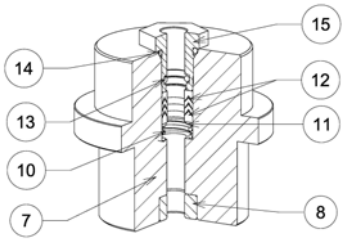
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS

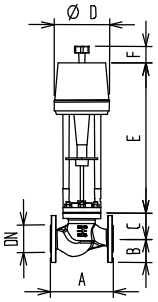


COMPONENTS LIST	MATERIALS
1. Body	1. See note (1) at page 1
2. Seat	2. AISI 316 stainless steel
3. Plug locknuts	3. AISI 304 stainless steel
4. Spring washer	4. AISI 304 stainless steel
5. Lower plug profile	5. AISI 316 stainless steel
5a. Soft ring	5a. PTFE or PTFE/graphite
5b. Upper plug profile	5b. AISI 316 stainless steel
6. Stem	6. AISI 316 stainless steel
7. Bonnet	7. See notes (1)(2) at page 1
8. Guide bush	8. AISI 304 stainless steel
9. Body gasket	9. Europil WS 3640 or PTFE on request
10. Packing spring	10. AISI 302 stainless steel
11. Packing washer	11. AISI 304 stainless steel
12. Packing rings	12. See note (3) at page 1
13. Internal “O” ring	13. Viton FPM 70
14. External “O”	14. Viton FPM 70
15. Packing adjusting nut	15. AISI 303 stainless steel
16. Stud-bolts	16. Galvanized steel
17. Body locknuts	17. DIN 934 galvanized steel
18. Upper bonnet flange	18. C40 nickel plated steel
19. Travel indicator plate	19. Polycarbonate
20. Column fixing screwes	20. DIN 912 galvanized steel
21. Actuator columns	21. AISI 430 stainless steel
22. Flange + locking screws	22. A2 stainless steel
23. Electric actuator	23. See technical data at page 1
24. Stem nut	24. DIN 936 galvanized steel

BONNET DETAILS



DIMENSIONS in mm.



BODY GROUP

DN	Ø	A	B	C - Bonnet		
				Std	Finned	Bellows
15	**1/2”**	130	47.5	49	181	181
20	**3/4”**	150	52.5	58	190	190
25	**1”**	160	57.5	68	200	200
32	**1.1/4”**	180	70	70	202	202
40	**1.1/2”**	200	75	82	214	214
50	**2”**	230	82.5	86	218	218
65	**2.1/2”**	290	92.5	111	309	309
80	**3”**	310	100	135	333	333
100	**4”**	350	118	160	363	363

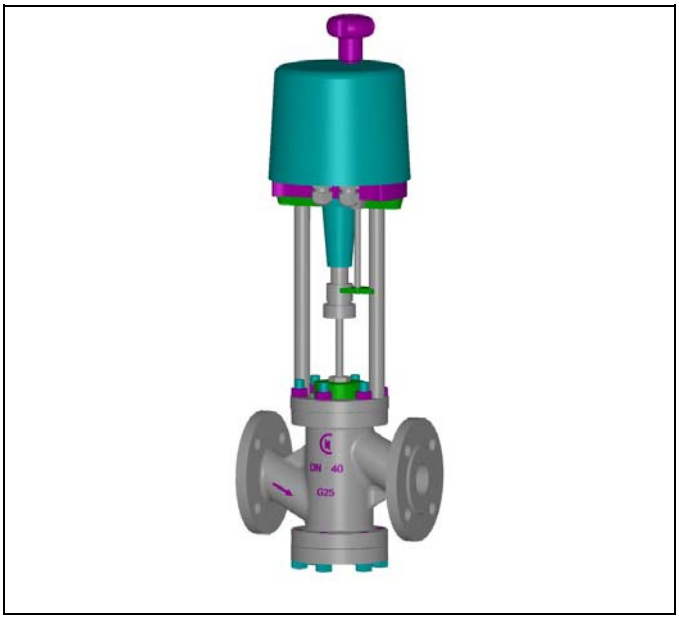
ACTUATOR

PSL201 - PSL202 PSL204 - PSL210		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

UNIWORLD series ELECTRIC POWERED VALVES

SINGLE SEAT TWO WAY ON-OFF VALVES CE



TYPE 5100 EP

with tension opens and closes

Face-to-face ASME / ANSI B16.10

DESCRIPTION

The "UNIWORLD" series type 5100 EP are equipped with "straight-through" pattern bodies having ANSI face-to-face dimensions and EN – ANSI – JIS flanges.
Quick opening plug with both standard metal seal (leakage class V) and soft seal for perfect tightness (leakage class VI).
Compact construction assembled with "made in Germany" linear electric actuator fixed to the body by means of two steel columns.
The standard on-off signal is a relay contact to open and close the valve.

SIZES : from DN 15 to DN 200

BODY CONNECTIONS : flanged EN 1092-1 PN16 … PN40
flanged ANSI B 16.5 150 RF 300 RF
flanged JIS B2220 10K 20K

MATERIALS OF BODY GROUP (1) :

- **Cast iron EN-GJL-250 UNI EN 1561 PN 16 ANSI 150 JIS10**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Carbon steel ASTM A216 WCB PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - C40 nickel plated steel bonnet
- **Stainless steel AISI 316 CF8M PN16/40 ANSI 150/300 JIS10/20**
  AISI 316 st. st. trim - AISI 316 st. st. bonnet

PLUG : PT (DN15-50, 125-200) - VPT (DN 65-100):

- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temperatures ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temperatures ≤ 190 °C

BONNET (2) :

- Standard : -5 to + 200 °C
- Finned : > 200 °C
- Extended : below - 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :

- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C
  to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATOR :

- Standard power supply : 220 V AC
- Degree of protection : IP 65 DIN 40050
- Control signal : opens and closes
- Ambient temperature : -20 ... +60 °C
- Actuator case material : die cast aluminium
- Actuator cover material : polycarbonate
- Manual handwheel : standard included
- Electric connections : cable gland PG13 (2 off)

MAX WORKING CONDITIONS :

- Max inlet pressure : see leaflet n° 101/VP
- Max temperature : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP

ON REQUEST :

- Power supply 24 V DC – 24 V AC – 110 V AC
- Card with mechanical limit switches
- Potentiometer 1000 Ohm, simple or double
- IP 67 DIN 40050 protection
- Heating resistor for ambient temperature up-to - 30 °C

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG Full bore		DN15 Ø 1/2"	DN 20 Ø 3/4"	DN25 Ø 1"	DN32 Ø 1.1/4"	DN40 Ø 1.1/2"	DN50 Ø 2"	DN65 Ø 2.1/2"	DN80 Ø 3"	DN100 Ø 4"	DN125 Ø 5"	DN150 Ø 6"	DN200 Ø 8"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4	354	517	929
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2	305	445	800

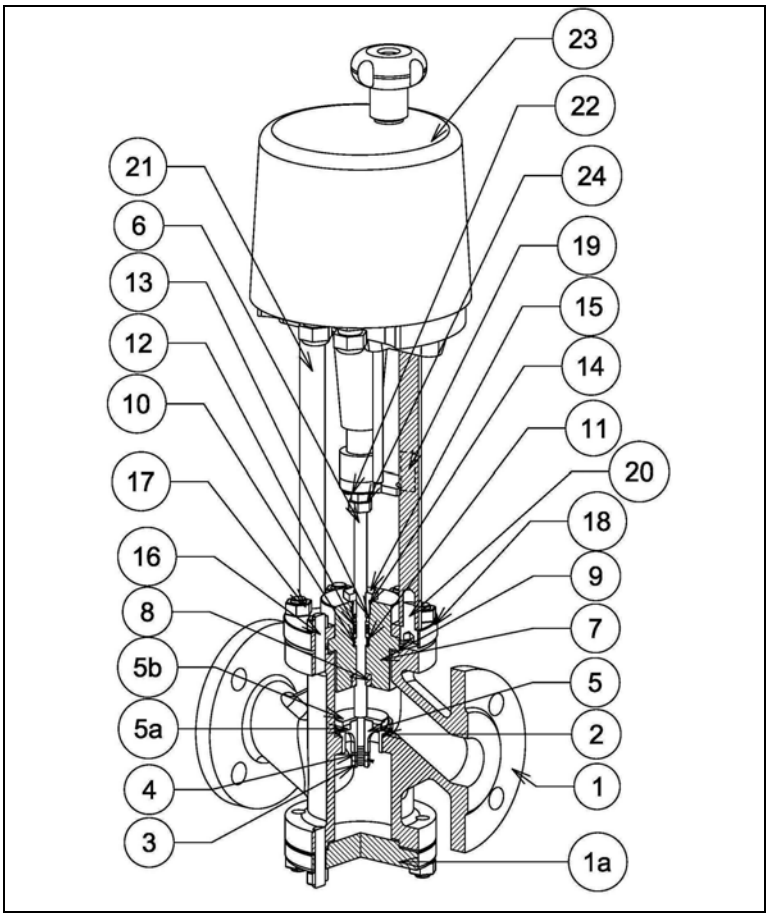
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20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor Power and Current absorbed – Speed in second for total stroke in mm

Actuator Type / Power absorbed		NOMINAL DIAMETER											
		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
PSL201	Kg/cm2	**50**	**31**	**18**	**12**	**8**	**4.5**	-	-	-	-	-	-
50/60 Hz	speed sec	44	44	44	76	76	76	-	-	-	-	-	-
26 VA	stroke mm	11	11	11	19	19	19	-	-	-	-	-	-
PSL202	Kg/cm2	**-**	**62**	**36**	**24**	**16**	**9**	**6**	**4**	**2.2**	**-**	**-**	**-**
50/60 Hz	speed sec	-	22	22	38	38	38	56	56	56	-	-	-
37/40 VA	stroke mm	-	11	11	19	19	19	28	28	28	-	-	-
PSL204	Kg/cm2	**-**	**-**	**85**	**55**	**38**	**22**	**13.5**	**9.4**	**5.3**	**3.4**	**2.3**	**1.3**
50/60 Hz	speed sec	-	-	22	38	38	38	56	56	56	100	100	100
44/47 VA	stroke mm	-	-	11	19	19	19	28	28	28	50	50	50
PSL210	Kg/cm2	**-**	**-**	**-**	**-**	**94**	**54**	**33.5**	**23.5**	**13**	**8.5**	**5.5**	**3.3**
50/60 Hz	speed sec	-	-	-	-	38	57	84	84	84	150	150	150
72/68 VA	stroke mm	-	-	-	-	19	19	28	28	28	50	50	50
PSL214	Kg/cm2	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**9.5**	**6.5**	**3.8**
50/60 Hz	speed sec	-	-	-	-	-	-	-	-	-	84	84	84
88/73 VA	stroke mm	-	-	-	-	-	-	-	-	-	50	50	50

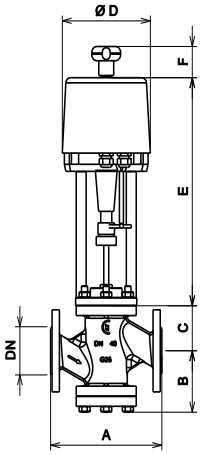
1. The values given are referred to the force of the actuator abd they can be used within the limit of the body rating.
2. Electric actuators suitable for operating force up-to 25 kN are available on request.

COMPONENTS LIST and MATERIALS



	COMPONENTS LIST	MATERIALS
1.	Body	See note (1) at page 1
1a	Bottom flange	C40 carbon steel
2.	Seat	AISI 316 stainless steel
3.	Plug locknuts	AISI 304 stainless steel
4.	Spring washer	AISI 304 stainless steel
5.	Lower plug profile	AISI 316 stainless steel
5a.	Soft ring	PTFE or PTFE/graphite
5b.	Upper plug profile	AISI 316 stainless steel
6.	Stem	AISI 316 stainless steel
7.	Bonnet	See notes (1)(2) at page 1
8.	Guide bush	AISI 304 stainless steel
9.	Body gasket	Europil WS 3640 or PTFE on request
10.	Packing spring	AISI 302 stainless steel
11.	Packing washer	AISI 304 stainless steel
12.	Packing rings	See note (3) at page 1
13.	Internal “O” ring	Viton FPM 70
14.	External “O”	Viton FPM 70
15.	Packing adjusting nut	AISI 303 stainless steel
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	DIN 934 galvanized steel
18.	Upper bonnet flange	C40 nickel plated steel
19.	Travel indicator plate	Polycarbonate
20.	Column fixing screwes	DIN 912 galvanized steel
21.	Actuator columns	AISI 430 stainless steel
22.	Flange + locking screws	A2 stainless steel
23.	Electric actuator	See technical data at page 1
24.	Stem nut	DIN 936 galvanized steel

DIMENSIONS in mm.



BODY GROUP

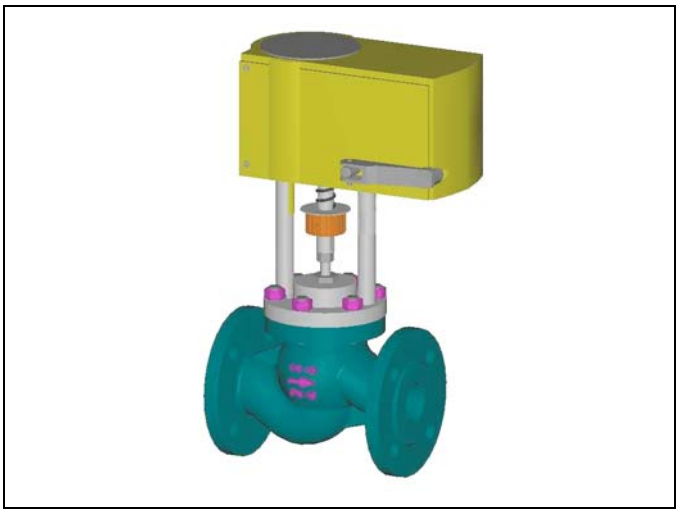
DN	Ø	A(1)	A(2)	B	C - Bonnet		
					Std	Finned	Bellows
15	1/2”	184	196	67	49	181	181
20	3/4”	184	196	67	58	190	190
25	1”	184	196	90	68	200	200
32	1.1/4”	200	212	92	70	202	202
40	1.1/2”	222	234	108	82	214	214
50	2”	254	266	108	86	218	218
65	2.1/2”	276	292	148	111	309	309
80	3”	298	317	148	135	333	333
100	4”	352	368	176	160	363	363
125	5	403	425	223	252	435	435
150	6”	450	472	229	258	442	442
200	8”	543	568	254	283	465	465

ACTUATOR

PSL201-202-204-210-214		
Ø D	E	F
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	410	50
176	417	50
176	417	50
176	419	50
176	430	50
176	430	50
176	430	50

A(1) cast iron = PN16 – ANSI150 – JIS10K
A(2) carbon and st. steel = PN16 – PN40 – ANSI150 – ANSI300 – JIS10K – JIS20K
Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

SINGLE SEAT TWO WAY ON-OFF VALVES CE



TYPE 2100 EPR

Closes without supply

Face to face EN 558-1

DESCRIPTION

The "UNIWORLD" series type 2100 EPR are equipped with DIN "straight-through" pattern bodies with EN flanges and an electric powered actuator which closes without power.
Quick opening plug with both standard metal seal (leakage class V) and soft seal for perfect tightness (leakage class VI).
Compact construction assembled with a linear spring return electric actuator fixed to the body by means of two steel columns.
The standard on-off signal is a relay contact to open and close the valve.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS : flanged EN 1092-1 PN16 PN40

BODY GROUP MATERIALS (1) :
- **Cast Iron EN-GJL-250 UNI EN 1561 PN 16**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **Carbon Steel 1.0619 PN 16 … PN 40**
  AISI 316 st.st. trim – C40 nickel plated steel bonnet
- **Stainless Steel AISI 316 1.4408 PN 16 … PN 40**
  AISI 316 st.st. trim – AISI 316 bonnet

PLUG :
- **PT** – metal seal class V°
- **PT/PTFE** – soft seal class VI° for temp. ≤ 150 °C
- **PT/PTFE/GR** – soft seal class VI° for temp. ≤ 190 °C

BONNET (2) :
- Standard for temperatures from -5 to + 200 °C
- Finned for temperatures > 200 °C
- Extended for temperatures < 5 °C
- Bellows sealed (PN 16 - 25 - 40) : for thermal oil or hazardous media with standard safety gland arrangement

GLAND ARRANGEMENT (PACKING) (3) with safety "0-rings" :
- PTFE 100% for temperatures ≤150 °C
- PTFE 85% + GRAPHITE 15% for temperatures ≤ 200 °C
- PURE GRAPHITE 100% for temperatures from 200° to 400 °C to be used with finned bonnet

TECHNICAL CHARACTERISTICS OF ELECTRIC ACTUATOR :
- Standard supply : 24V AC – 24V DC
- Degree of protection : IP 66 EN 60529
- On – off signal : Three points on-off
  : 4-20 mA
  : 0-10 V
- Ambient temperature : -10 ... +55 °C
- Actuator case : yellow plastic
- Manual handweel : included
- Electrical connections : 2 x PG13 not included (connections M20x1.5 n°2 M16x1.5 n°1)

MAX WORKING CONDITIONS :
- Max inlet pressure : see leaflet n° 101/VP
- Valve sizing : see leaflet n° 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :
- Soft seal PTFE/GR ≤190°C class VI°
- Soft seal PTFE ≤150°C class VI°
- Lapping plug-seat class V°
- Lapping gr. 6 on seat, plug, bush
- Reduced bores (see table CV e KV)
- Supply 220 V AC or 110 V

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

full bores plugs		DIAMETER								
		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
		Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
PT	CV	3.4	6.6	12.1	19	24	52.7	107.3	129.3	175.4
	KV	2.9	5.7	10.4	16.4	20.7	45.3	92.5	111.5	151.2

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

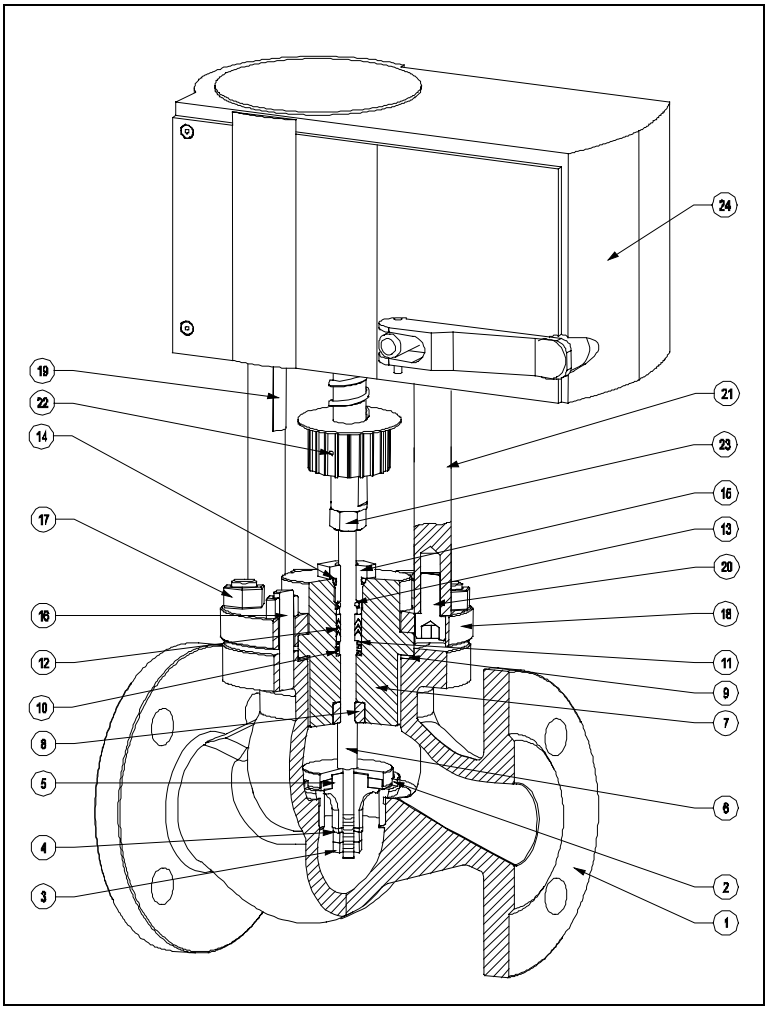
Via Lecco, 69/71
20041 AGRATE BRIANZA (MI)
Tel. 039/651.705 - 650.397
Fax 039/654.018

Maximum permissible pressure drops in Kg/cm2 (fluid opens) with alive motor Power and Current absorbed – Speed in second for total stroke in mm

Actuator Type / Power absorbed		DIAMETER								
		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
AVF234SF232 18 VA	Kg/cm2	**102.0**	**65.0**	**36.0**	**23.0**	**16.0**	**9.3**	**5.8**	**4.0**	**2.3**
	Speed sec	22	22	22	38	38	38	38	38	38
	Stroke mm	11	11	11	19	19	19	19	19	19

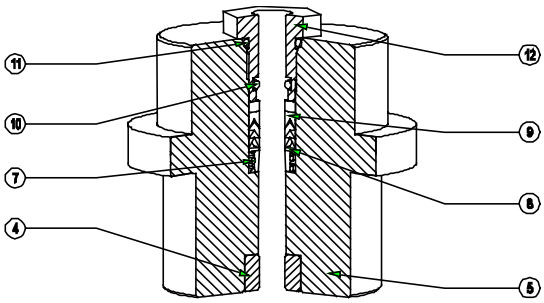
1. The values given are referred to the force of the actuator and they can be used within the limit of the body rating.

COMPONENTS LIST and MATERIALS

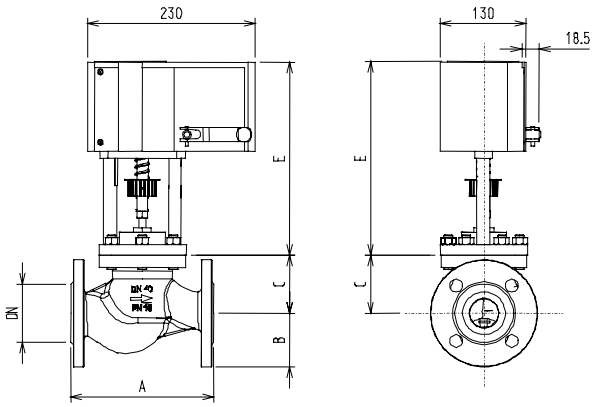


	COMPONENTS	MATERIALS
1.	Body	See note (1) l° pag.
2.	Seat	Stainless steel AISI 316
3.	Plug locknuts	Stainless steel AISI 304
4.	Plug washer	Stainless steel AISI 304
5.	Plug	Stainless steel AISI 316
6.	Steam	Stainless steel AISI 316
7.	Bonnet	See note (1) (2) l° pag.
8.	Bush	Stainless steel AISI 304
9.	Body gasket	Europil WS 3640 or PTFE
10.	Packing spring	Stainless steel AISI 302
11.	Packing washer	Stainless steel AISI 304
12.	Packing rings	See note (3) l° pag.
13.	Internal “O” ring	Viton FPM 70
14.	External “O” ring	Viton FPM 70
15.	Packing adjusting nut	Stainless steel AISI 303
16.	Stud-bolts	Galvanized steel
17.	Body locknuts	Galvanized steel DIN 934
18.	Upper bonnet flange	C40 polycarbonate
19.	Travel indicator plate	Galvanized steel DIN 912
20.	Columns fixing screws	Stainless steel AISI 430
21.	Columns	Galvanized steel DIN 914
22.	Grub screw	Galvanized steel 934
23.	Stem locknut	Galvanized steel 934
24.	Actuator	See l° pag.

BONNET DETAILS



DIMENSIONS in mm.



DN	Ø	A	B	E	C - Bonnet		
					Std	finned	bellows
15	**1/2”**	130	47.5	280	49	181	181
20	**3/4”**	150	52.5	280	58	190	190
25	**1”**	160	57.5	280	68	200	200
32	**1.1/4”**	180	70	280	70	202	202
40	**1.1/2”**	200	75	280	82	214	214
50	**2”**	230	82.5	280	86	218	218
65	**2.1/2”**	290	92.5	280	111	309	309
80	**3”**	310	100	280	135	333	333
100	**4”**	350	118	280	160	363	363

Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modification deemed necessary without prior notice.

TWO WAY – ON-OFF AND MODULATING CE





TYPE BWP SE (nc-na)

WAFER – cast iron body PN 10 / 16

TYPE BLP SE (nc-na)

LUG – cast iron body PN 16

Simple effect – air opens (Norm. closed)
Simple effect – air closes (Norm. open)

DESCRIPTION

BWP SE – BLP SE pneumatic valves are with wafer and lug butterfly body.
The AISI 316 disc guarantees a perfect tightness in class VI° EPDM (BUNA or PTFE on request) packing ring.
Compact construction assembled with a pneumatic piston actuator simple effect rotation 90 ° normally open or closed without air.
The pneumatic actuator is powered by the following signals:

- 4 … 10 bar for ON – OFF valves
- 3-15 psi with pneumatic pilot positioner on modulating valves
- 4-20 mA with electropneumaticpneumatic pilot positioner on modulating valves

NOMINAL DIAMETERS : from DN 40 to DN 300

BODY CONNECTIONS : Flanged PN 10 / 16 WAFER
Falnged PN 16 LUG

LIMIT WORKING CONDITIONS :

- Max inlet pressure and temperature : 16 bar 130 °C

BODY MATERIALS :

- **Cast Iron EN GJL-250 PN 10 / 16**
- **SG Iron EN-JIS400-15 (on request)**
- **Carbon steel ASTM A316 WCB (on request)**
- **Stainless streel 1.4408 (on request)**

Disc AISI 316
Stem AISI 416
Elastomer EPDM (on request BUNA o PTFE)

BODY TYPE : Full bore

PLUG : disc

STEM PACKING :

- EPDM ≤ 130 °C

PNEUMATIC ACTUATOR CHARACTERISTICS:

- Actuator : simple effect piston rotation 90 °
  ISO 5211 – DIN 3337
  NAMUR VDI / VDE 3845
- Input signal : from 4 to 10 bar depending on model
- Max air applicable : 10 bar
- Ambient temperature : -20 ... +70 °C
- Actuator box : Alluminium ASTM B210
- Right and left piston : die cast alluminium UNI 5076
- Yoke : galvanized carbon steel
- Pneumatic connections : ISO 7 Rp – ¼”

ON REQUEST :

- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20mA…4-12 mA…12-20 mA
- Proximity limit switches
- Feedback signal on positioners 4-20 mA
- Rotary switches with position monitoring by “Dome”
- Solenoid valve
- Air filter regulator

Maximum permissible pressure drops in Kg/cm2 – signals in bar – pistons type

		DN															
		40	50	65		80	100		125		150		200		250		300
ΔP Kg/cm2		16	16	10	16	16	10	16	10	16	10	16	10	16	10	16	10
AIR bar	>5	UT 15 S5	UT 15 S5	UT 17 S5	UT 20 S4	UT 30 S5	UT 30 S4	UT 30 S6	UT 35 S4	UT 40 S3	UT 45 S3	UT 45 S6	UT 50 S4	UT 55 S4	UT 55 S4	UT 55 S6	UT 55 S6

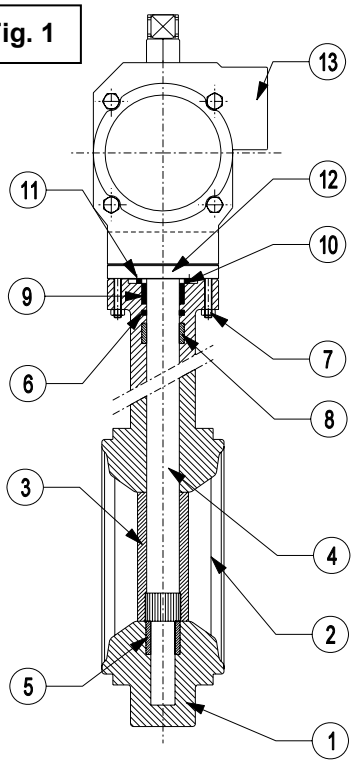
CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

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Components and materials list

Fig. 1



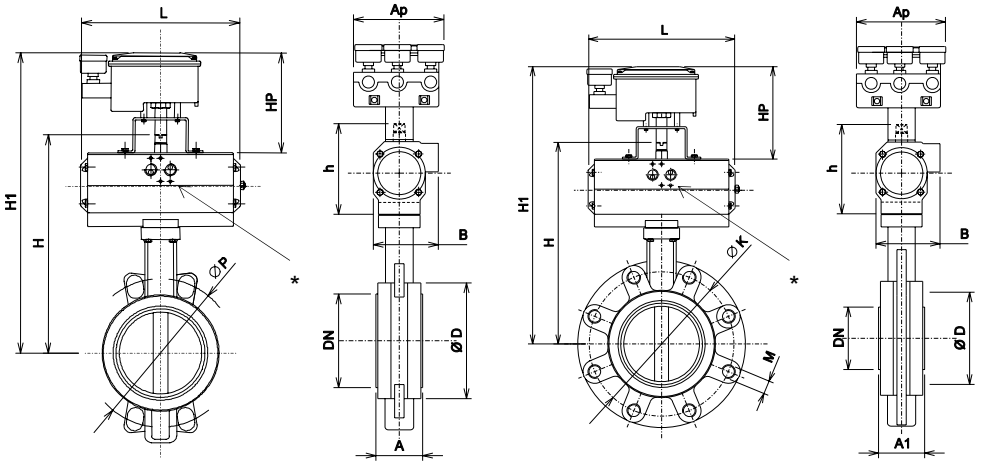
COMPONENTS LIST (fig. 1)

1. Body
2. Disc / Butterfly gasket
3. Disc / Gasket
4. Stem
5. Lower stem bush
6. Stem gasket
7. Locking screws
8. Middle stem bush
9. Upper stem bush
10. Washer
11. Sieger
12. Connection flange
13. Piston

MATERIALS (fig. 1)

1.	EN-GJL-250	9.	PTFE
2.	EPDM	10.	Steel
3.	CF8M 1.4408	11.	Steel
4.	AISI 416	12.	C40 nichel pl.
5.	PTFE	13.	Alluminium
6.	EPDM		
7.	Steel DIN993		
8.	PTFE		

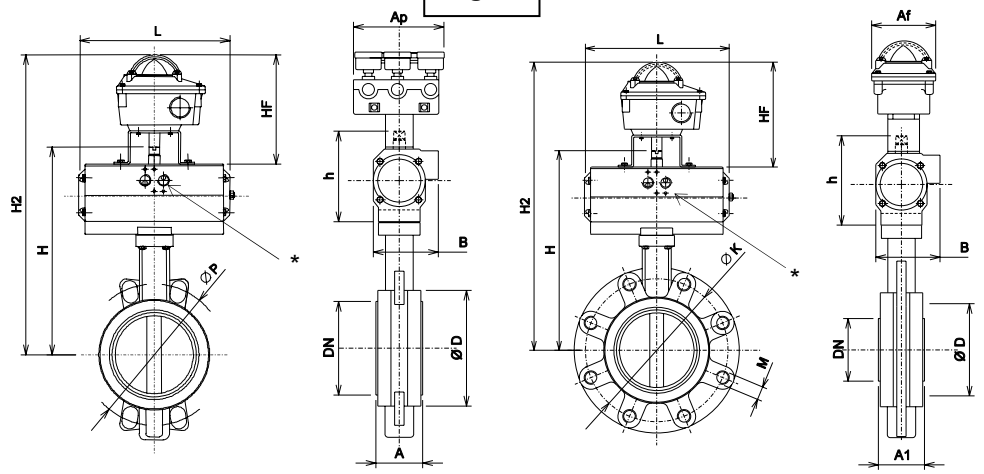
Model with pneumatic or electro-pneumatic positioner



Wafer Body **Lug Body**

Model with rotary switches

Fig. 2



Wafer Body **Lug Body**

*** n° 2 air connections Ø ¼" gas**

DN	DIN STD			
	PN 10		PN 16	
	ØP / ØK	M	ØP / ØK	M
40	110	N° 4 M16	110	N° 4 M16
50	125	N° 4 M16	125	N° 4 M16
65	145	N° 4 M16	145	N° 4 M16
80	160	N° 8 M16	160	N° 8 M16
100	180	N° 8 M16	180	N° 8 M16
125	210	N° 8 M16	210	N° 8 M16
150	240	N° 8 M20	240	N° 8 M20
200	295	N° 8 M20	295	N° 12 M20
250	350	N°12 M20	355	N° 12 M24
300	400	N°12 M20	410	N° 12 M24

Dimensions in mm (fig. 2)

DN	40	50	65	65	80	100	100	125	125	150	150	200	200	250	250	300
Pistone UT	15 S5	15 S5	17 S5	20 S4	30 S5	30 S4	30 S6	35 S4	40 S3	45 S3	45 S6	50 S4	55 S4	55 S4	55 S6	55 S6
H - versione base	251	258	263	285	320	342	342	388	388	441	423	490	490	528	528	558
H1–versione con posizionatore	416	423	428	450	485	507	507	553	553	576	588	655	655	693	693	723
H2–versione con box fine corsa	386	393	398	420	455	477	477	523	523	546	558	625	625	663	663	693
HP	165															
HF	135															
h	121	121	121	143	162	162	162	196	196	208	208	248	248	248	248	248
L	165	165	197	177	230	230	230	246	290	351	351	361	418	418	418	418
A – A1	33	43	46	46	46	52	52	56	56	56	56	60	60	68	68	78
B	85	85	85	96	113	113	113	138	138	151	151	185	185	185	185	185
Ø D	82	95	109	109	127	157	157	180	180	207	207	260	260	315	315	370
Ap	168															
Af	86															

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

DOUBLE EFFECT PNEUMATIC VALVES
WAFER AND LUG BUTTERFLY BODY

BWLPDE/E	
03	2014

TWO WAY – ON-OFF AND MODULATING CE





TYPE BWP DE
WAFER – cast iron body PN 10 / 16
TYPE BLP DE
LUG – cast iron body PN 16

Double effect – air opens and closes

DESCRIPTION

BWP DE – BLP DE pneumatic valves are with wafer and lug butterfly body.
The AISI 316 disc guarantees a perfect tightness in class VI° EPDM (BUNA or PTFE on request) seal.
Compact construction assembled with a pneumatic piston actuator double effect rotation 90 °
The pneumatic actuator is powered by the following signals:

- 4 … 10 bar for ON – OFF valves.
- 3-15 psi with pneumatic pilot positioner on modulating valves
- 4-20 mA with electropneumaticpneumatic pilot positioner on modulating valves

NOMINAL DIAMETERS : from DN 40 to DN 300

BODY CONNECTIONS : Flanged PN 10 / 16 WAFER
Falnged PN 16 LUG

LIMIT WORKING CONDITIONS :

- Max inlet pressure and temperature : 16 bar 130 °C

BODY MATERIALS :

- **Cast Iron EN GJL-250 PN 10 / 16**
- **SG Iron EN-JIS400-15 (on request)**
- **Carbon steel ASTM A316 WCB (on request)**
- **Stainless streel 1.4408 (on request)**

Disc AISI 316
Stem AISI 416
Elastomer EPDM (on request BUNA o PTFE)

BODY TYPE : Full bore

PLUG : disc

STEM PACKING :

- EPDM ≤ 130 °C

PNEUMATIC ACTUATOR CHARACTERISTICS:

- Actuator : double effect piston rotation 90 °
  ISO 5211 – DIN 3337
  NAMUR VDI / VDE 3845
- Input signal : from 4 to 10 bar depending on model
- Max air applicable : 10 bar
- Ambient temperature : -20 ... +70 °C
- Actuator box : Alluminium ASTM B210
- Right and left piston : die cast alluminium UNI 5076
- Yoke : galvanized carbon steel
- Pneumatic connections : ISO 7 Rp – ¼"

ON REQUEST :

- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20mA…4-12 mA…12-20 mA
- Proximity limit switches
- Feedback signal on positioners 4-20 mA
- Rotary switches with position monitoring by "Dome"
- Solenoid valve
- Air filter regulator

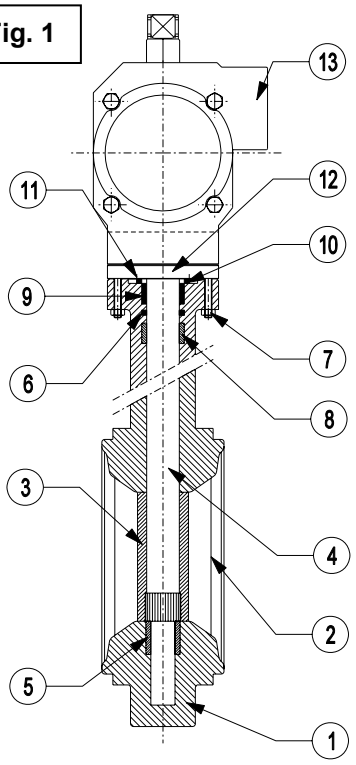
Maximum permissible pressure drops in Kg/cm2 – signals in bar – pistons type

		DN											
		40	50	65	80	100	125		150	200	250		300	
ΔP Kg/cm2		16	16	16	16	16	10	16	16	16	10	16	10	16
AIR bar	> 5	UT 15	UT 15	UT 15	UT 17	UT 25	UT 25	UT 30	UT 30	UT 40	UT 45	UT50	UT 50	UT 55

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Components and materials list

Fig. 1



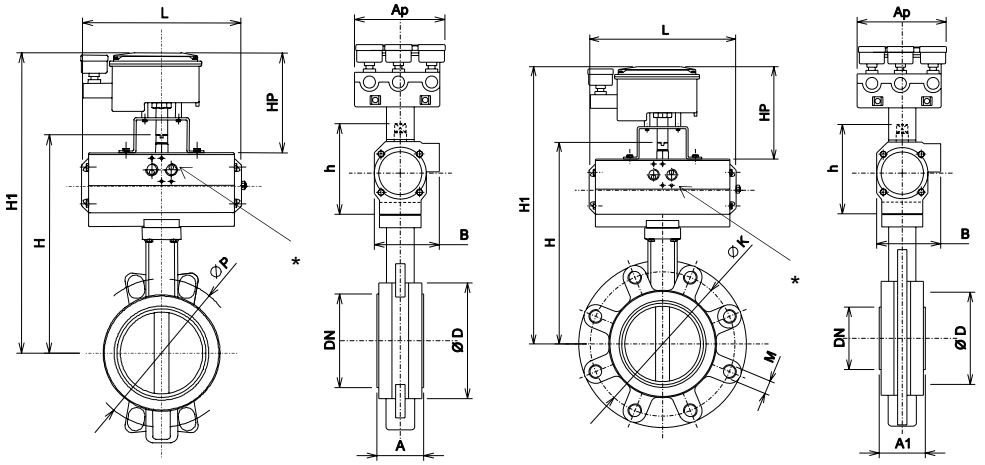
COMPONENTS LIST (fig. 1)

1. Body
2. Disc / Butterfly gasket
3. Disc / Gasket
4. Stem
5. Lower stem bush
6. Stem gasket
7. Locking screws
8. Middle stem bush
9. Upper stem bush
10. Washer
11. Sieger
12. Connection flange
13. Piston

MATERIALS (fig. 1)

1. EN-GJL-250
2. EPDM
3. CF8M 1.4408
4. AISI 416
5. PTFE
6. EPDM
7. Steel DIN993
8. PTFE
9. PTFE
10. Steel
11. Steel
12. C40 nichel pl.
13. Alluminium

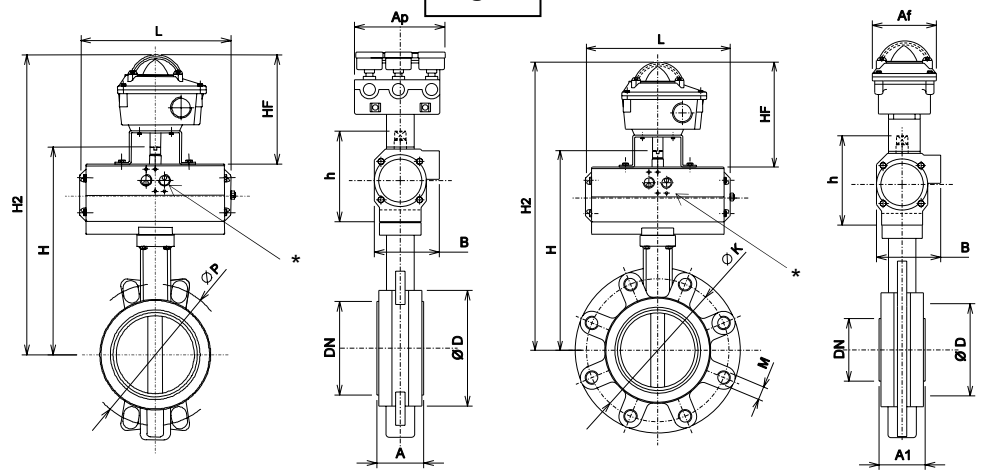
Model with pneumatic or electro-pneumatic positioner



Wafer Body **Lug Body**

Model with rotary switches

Fig. 2



Wafer Body **Lug Body**

*** n° 2 air connections Ø ¼" gas**

DN	DIN STD			
	PN 10		PN 16	
	ØP / ØK	M	ØP / ØK	M
40	110	N° 4 M16	110	N° 4 M16
50	125	N° 4 M16	125	N° 4 M16
65	145	N° 8 M16	145	N° 8 M16
80	160	N° 8 M16	160	N° 8 M16
100	180	N° 8 M16	180	N° 8 M16
125	210	N° 8 M16	210	N° 8 M16
150	240	N° 8 M20	240	N° 8 M20
200	295	N° 8 M20	295	N° 12 M20
250	350	N°12 M20	350	N° 12 M24
300	400	N°12 M20	410	N° 12 M24

Dimensions in mm (fig. 2)

DN	40	50	65	80	100	125	125	150	200	250	250	300	300
Pistone	UT 15	UT 15	UT 15	UT 17	UT 25	UT 25	UT 30	UT 30	UT 40	UT 45	UT 50	UT 50	UT 55
H - versione base	251	258	263	279	323	335	354	377	438	488	528	558	558
H1 – versione conposizionatore	416	423	428	444	488	500	519	542	603	653	693	723	723
H2 – versione con box fine corsa	386	393	398	414	458	470	489	512	573	623	663	693	693
HP	165												
HF	135												
h	121	121	121	121	143	143	162	162	196	208	248	248	248
L	165	165	165	197	239	239	230	230	290	351	361	361	418
A – A1	33	43	46	46	52	56	56	56	60	68	68	78	78
B	85	85	85	85	96	96	113	113	138	151	185	185	185
Ø D	82	95	109	127	150	180	180	207	260	315	315	370	370
Ap	168												
Af	86												

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

VALVOLE A SFERA PNEUMATICHE
PNEUMATIC BALL VALVES

VSCVL10SEDE/I/E	
02	2017



TIPO / Type VSCVL10 DE

Doppio Effetto – aria apre e chiude
Double Effect – air opens and closes

TIPO / Type VSCVL10 SE

Semplice Effetto – aria apre (N.C.)
Simple Effect – ari opens (N.C.)

Semplice Effetto – aria chiude (N.A.)
Simple Effect – air closes (N.O.)

Acciaio carbonio ASTM A105
EN 1092-1 PN16 wafer passaggio pieno
Carbon steel ASTM A105
EN 1092-1 PN16 wafer full bore
DN15 -150

PED 2014/68/UE CE

Versione ON-OFF con o senza accessori
ON-OFF Version with or without accessories

Versione di Regolazione con accessori
Control version with accessories

IMPIEGHI
Vapore, condensa, acqua, gas e fluidi non agressivi
Pressione e temperatura max ammissibili :
16 barg 120 °C / 13,4 barg 180 °C temp. min. impiego -20°C

CONNESSIONI
Flangiate EN1092-1 PN 16 wafer

MATERIALI

Corpo	ASTM A105
Stelo	AISI 316
Sfera	AISI 304
Seggio	PTFE
Guarnizione corpo	RPTFE
Guarnizione stelo	RPTFE
Castello	Acciaio zincato
Cassa Attuatore	Alluminio
Castello	Acciaio zincato

CARATTERISTICHE ATTUATORE
Pistone Doppio Effetto o Semplice Effetto rotazione 90°
ISO 5211 – DIN 3337 NAMUR VDI / VDE 3645
NAMUR VDI / VDE 3645

Segnale di azionamento	5 -10 bar
Massima aria/pressione	10 bar
Connessioni aria	1/4" Rp ISO 7

ACCESSORI
Posizionatori Pilota (tutta la gamma Power Genex)
Box Fine Corsa
Elettrovalvole Namur

APPLICATIONS
Steam, condensate, water, gas and non aggressive fluids
Maximum allowable pressure and temperature :
16 barg 120 °C / 13,4 barg 180 °C min. operating temp. -20°C

CONNECTIONS
Flanged EN1092-1 PN 16 wafer

MATERIALS

Body	ASTM A 105
Stem	AISI 316
Ball	AISI 304
Seat	PTFE
Body gasket	RPTFE
Stem gasket	RPTFE
Yoke	Zinc plated steel
Actuator case	Alluminium
Yoke	Zinc plated steel

ACTUATOR FEATURES
Pistone Doppio Effetto o Semplice Effetto rotazione 90°
ISO 5211 – DIN 3337 NAMUR VDI / VDE 3645
NAMUR VDI / VDE 3645

Segnale di azionamento	5 -10 bar
Massima aria/pressione	10 bar
Connessioni aria	1/4" Rp ISO 7

ACCESSORIES
Positioners (all range Power Genex)
Position monitoring box switches
Namur Solenoid Valve

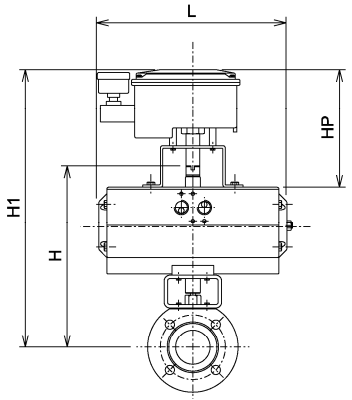
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E-mail: vendite@conflow.it / sales@conflow.it
Web: www.conflow.it

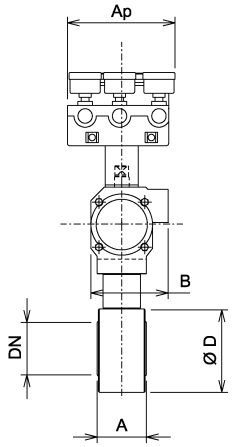
Massime pressioni differenziali ammissibili in Kg/cm2 – segnali di azionamento 6-10 bar

Maximum permissibile pressure drops in Kg/cm2 – signals 6-10 bar

DN	15	20	25	32	40	50	65	80	100	125	150
Actuator DE	MT07DE	MT07DE	MT15DE	MT20DE	MT20DE	MT20DE	MT25DE	MT35DE	MT40DE	MT45DE	MT50DE
Δp kg/cm²	16	16	16	16	16	16	16	16	16	16	16
Actuator SE	MT07S4	MT15S4	MT20S4	MT30S4	MT30S4	MT35S3	MT40S5	MT45S4	MT50S4	MT60S4	MT65S4
Δp kg/cm²	16	16	16	16	16	16	16	16	16	16	16

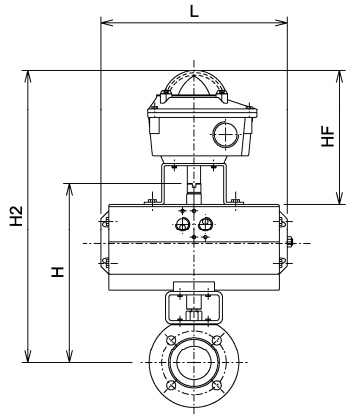
Versione con posizionatore

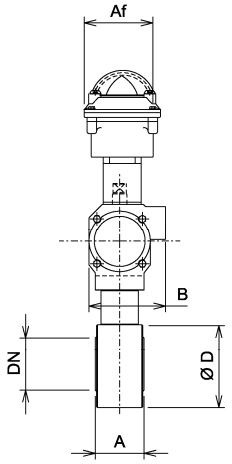




Version with positioner

Versione con box fine corsa





Version with position monitoring rotary switches

Dimensioni (in mm) Versione DE / DE Version Dimensions (in mm)

DN (PN16)	15	20	25	32	40	50	65	80	100	125	150
H	202	207	225	252	257	262	272	338	374	404	452
H1	337	342	360	387	392	397	407	473	509	539	587
H2	307	312	330	357	362	367	377	43	479	509	557
HP	165	165	165	165	165	165	165	165	165	165	165
HF	135	135	135	135	135	135	135	135	135	135	135
L	178	178	175	186	186	186	248	261	305	367	381
A	35	42	46	55	66	72	98	120	140	177	210
B	70	70	81	96	96	96	96	131	131	145	181
Ø D	88	98	108	128	138	148	168	188	220	250	280
Ap	168	168	168	168	168	168	168	168	168	168	168
Af	86	86	86	86	86	86	86	86	86	86	86

Dimensioni (in mm) Versione SE / SE Version Dimensions (in mm)

DN (PN16)	15	20	25	32	40	50	65	80	100	125	150
H	202	220	242	271	276	318	328	353	422	492	507
H1	337	355	377	406	411	453	463	488	557	627	642
H2	307	325	347	376	381	423	433	458	527	597	612
HP	165	165	165	165	165	165	165	165	165	165	165
HF	135	135	135	135	135	135	135	135	135	135	135
L	178	175	186	241	241	261	305	367	381	467	525
A	35	42	46	55	66	72	98	120	140	177	210
B	70	81	96	114	114	131	131	145	181	230	230
Ø D	88	98	108	128	138	148	168	188	220	250	280
Ap	168	168	168	168	168	168	168	168	168	168	168
Af	86	86	86	86	86	86	86	86	86	86	86

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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VALVOLE A SFERA PNEUMATICHE
PNEUMATIC BALL VALVES

VSV71SEDE/I/E	
02	2017



TIPO / Type VSV71 DE

Doppio Effetto – aria apre e chiude
Double Effect – air opens and closes

TIPO / Type VSV71 SE

Semplice Effetto – aria apre (N.C.)
Simple Effect – ari opens (N.C.)

Semplice Effetto – aria chiude (N.A.)
Simple Effect – air closes (N.O.)

Acciaio inox CF8M 1.4408
EN 1092-1 PN16 wafer passaggio pieno
Stainless steel CF8M 1.4408
EN 1092-1 PN16 wafer full bore
DN15 – 100 (a richiesta DN 125 -150)

PED 2014/68/UE CE

Versione ON-OFF con o senza accessori
ON-OFF Version with or without accessories

Versione di Regolazione con accessori
Control version with accessories

IMPIEGHI

Vapore, condensa, acqua, gas e fluidi agressivi
(verificare comunque la compatibilità del materiale)
Pressione e temperatura max ammissibili :
16 barg 120 °C / 13,4 barg 180 °C temp. min. impiego -20°C

CONNESSIONI

Flangiate EN1092-1 PN 16 wafer

MATERIALI

Corpo	CF8M 1.4408
Stelo	AISI 316
Sfera	AISI 316
Seggio	PTFE+15% fibra vetro
Guarnizione corpo	RPTFE
Guarnizione stelo	RPTFE
Castello	Acciaio zincato
Cassa Attuatore	Alluminio

CARATTERISTICHE ATTUATORE

Pistone Doppio Effetto o Semplice Effetto rotazione 90°
ISO 5211 – DIN 3337
NAMUR VDI / VDE 3645

Segnale di azionamento	5 -10 bar
Massima aria/pressione	10 bar
Connessioni aria	1/4" Rp ISO 7

ACCESSORI

Posizionatori Pilota (tutta la gamma Power Genex)
Box Fine Corsa
Elettrovalvole Namur

APPLICATIONS

Steam, condensate, water, gas and aggressive fluids
(still check the material compatibility)
Maximum allowable pressure and temperature :
16 barg 120 °C / 13,4 barg 180 °C min. operating temp. -20°C

CONNECTIONS

Flanged EN1092-1 PN 16 wafer

MATERIALS

Body	CF8M 1.4408
Stem	AISI 316
Ball	AISI 316
Seat	PTFE+15% fiber glass
Body gasket	RPTFE
Stem gasket	RPTFE
Yoke	Zinc plated steel
Actuator case	Alluminium

ACTUATOR FEATURES

Pistone Doppio Effetto o Semplice Effetto rotazione 90°
ISO 5211 – DIN 3337
NAMUR VDI / VDE 3645

Segnale di azionamento	5 -10 bar
Massima aria/pressione	10 bar
Connessioni aria	1/4" Rp ISO 7

ACCESSORIES

Positioners (all range Power Genex)
Position monitoring box switches
Namur Solenoid Valve

CONFLOW s.p.a.

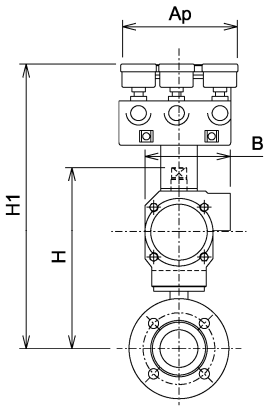
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

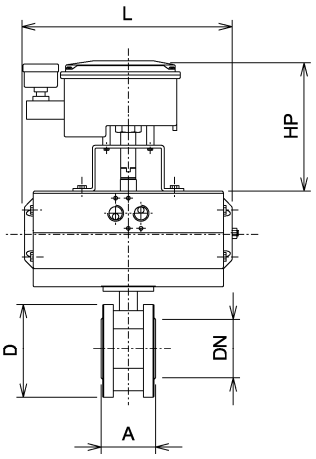
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Tel: +39 - (0)39.651705 Fax: +39 - (0)39.654018
E-mail: vendite@conflow.it / sales@conflow.it
Web: www.conflow.it

Massime pressioni differenziali ammissibili in Kg/cm2 – segnali di azionamento 6-10 bar
Maximum permissibile pressure drops in Kg/cm2 – signals 6-10 bar

DN	15	20	25	32	40	50	65	80	100	125	150
Actuator DE	MT07DE	MT07DE	MT15DE	MT20DE	MT20DE	MT20DE	MT25DE	MT35DE	MT40DE	A richiesta On request	
Δp kg/cm²	16	16	16	16	16	16	16	16	16		
Actuator SE	MT07S4	MT15S4	MT20S4	MT30S4	MT30S4	MT35S3	MT40S5	MT45S4	MT50S4		
Δp kg/cm²	16	16	16	16	16	16	16	16	16		

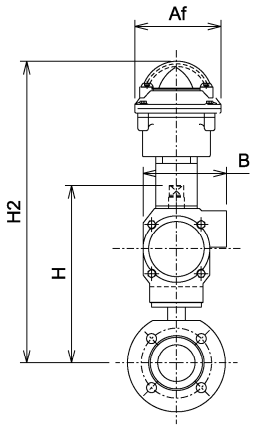
Versione con posizionatore

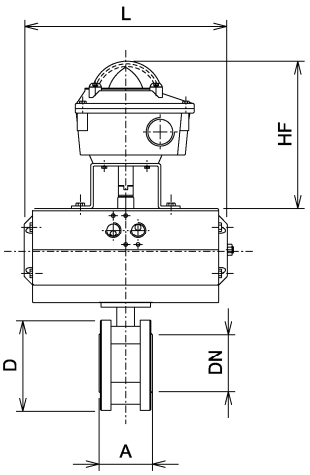




Version with positioner

Versione con box fine corsa





Version with position monitoring rotary switches

Dimensioni (in mm) Versione DE / DE Version Dimensions (in mm)

DN (PN16)	15	20	25	32	40	50	65	80	100	125	150
H	163	164	185,5	215	231	239	260	337	352	A richiesta - On request	
H1	298	299	320,5	350	366	374	395	472	487		
H2	268	269	290,5	320	336	344	365	442	457		
HP	165	165	165	165	165	165	165	165	165		
HF	135	135	135	135	135	135	135	135	135		
L	178	178	175	186	186	186	248	261	305		
A	36	38	50	53	65	78	98	118	140		
B	70	70	81	96	96	96	96	131	131		
D	95	105	115	140	150	165	185	200	220		
Ap	168	168	168	168	168	168	168	168	168		
Af	86	86	86	86	86	86	86	86	86		

Dimensioni (in mm) Versione SE / SE Version Dimensions (in mm)

DN (PN16)	15	20	25	32	40	50	65	80	100	125	150
H	163	177	202,5	234	250	295	316	352	400	A richiesta - On request	
H1	298	312	337,5	369	385	430	451	487	535		
H2	268	282	307,5	339	355	400	421	457	505		
HP	165	165	165	165	165	165	165	165	165		
HF	135	135	135	135	135	135	135	135	135		
L	178	175	186	241	241	261	305	367	380,5		
A	36	38	50	53	65	78	98	118	140		
B	70	81	96	114	114	131	131	145	181		
D	95	105	115	140	150	165	185	200	220		
Ap	168	168	168	168	168	168	168	168	168		
Af	86	86	86	86	86	86	86	86	86		

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SIMPLE EFFECT PNEUMATIC VALVES
THREE PIECES BALL BODY – FULL BORE

VS2200SE/E	
05	2015

TWO WAY – ON-OFF AND MODULATING CE







TYPE VS2200 SE (n.c. – n.a.)

Stainless Steel AISI 316

Simple Effect – air opens (Norm. Closed)
Simple Effect – air closes (Norm. open)

DESCRIPTION

VS2200 SE pneumatic valves are with three pieces body.
The AISI 316 ball guarantees a perfect tightness in class VI°.
Compact construction assembled with a pneumatic piston actuator SIMPLE effect with 90° rotation, made of alluminium or technopolymer for valves ≤ Ø 1.1/4".
The pneumatic actuator is powered by the following signals:

- 4 … 10 bar for ON – OFF valves with alluminium piston
- 4… 8 bar for ON – OFF valves with technopolymer piston
- 3-15 psi with pneumatic pilot positioner on modulating valves
- 4-20 mA with electropneumatic pilot positioner on modulating valves

NOMINAL DIAMETERS : from Ø 1/2 " to Ø 4 "

BODY CONNECTIONS : Screwed ISO 7 Rp
Socket Welding S.W.

LIMIT WORKING CONDITIONS :

- Max inlet pressure and temperature : 63 bar 180 °C

BODY MATERIALS (1) :

- **Stainless steel AISI 316 PN 63**
  Internal parts stainless steel AISI 316

BODY TYPE : Full bore

PLUG :

- Ball

STEM PACKING :

- PTFE ≤ 180 °C

PNEUMATIC ACTUATOR CHARACTERISTICS:

- Actuator : simple effect piston
  rotation 90 °
  ISO 5211 – DIN 3337
  NAMUR VDI / VDE 3845
- Input signal: : from 4 to 10 bar (alluminium piston)
  : from 4 to 8 bar (technopolymer piston)
- Max air applicable : 10 bar (alluminium piston)
  : 8 bar (technopolymer piston)
- Ambient temperature : -20 ... +70 °C
- Actuator box : Alluminium ASTM B210
  : Technopolymer
- Right and left piston : die cast alluminium UNI 5076
- Pneumatic connections : ISO 7 Rp – ¼"

ON REQUEST :

- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA…4-12 mA …12-20 mA
- Proximity limit switches
- Feedback signal on positioner 4-20 mA
- Rotary switches with position monitoring by "Dome"
- Solenoid valve
- Air filter regulator

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Maximum permissible pressure drops in Kg/cm2 – signals in bar

Ø	½"	¾"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
Δp Kg/cm²	**60**	**60**	**60**	**60**	**60**	**60**	**60**	**60**	**60**
Air bar	4/6	4/6	4/6	4/6	4/6	4/6	4/6	4/6	4/6
Alluminium piston	UT 15 S3	UT 15 S4	UT 20 S3	UT 20 S4	UT 25 S4	UT 30 S4	UT 35 S3	UT 40 S4	UT 45 S4
Technopolymer piston	PT 10 S3	PT 13 S4	PT 18 S3	PT 18 S4	n.a.	n.a.	n.a.	n.a.	n.a.

n.a. = not applicable

Fig. 1

COMPONENTS LIST (fig. 1)

1. Middle body
2. Body terminals
3. Ball gaskets
4. Ball
5. Stem
6. Packing
7. Stem gaskets
8. Packing bush
9. Locking packing bolt (or sieger)
10. Body locking srcrews
11. Locking bolts
12. Washer
13. Piston

ELENCO MATERIALI (fig. 1)

1. Stainless steel AISI 316
2. Stainless steel AISI 316
3. PTFE
4. Stainless steel AISI 316
5. Stainless steel AISI 316
6. PTFE
7. PTFE
8. Stainless steel AISI 304
9. Stainless steel AISI 304
10. Stainless steel AISI 304
11. Stainless steel AISI 304
12. Stainless steel AISI 304
13. Alluminium / Technopolymer

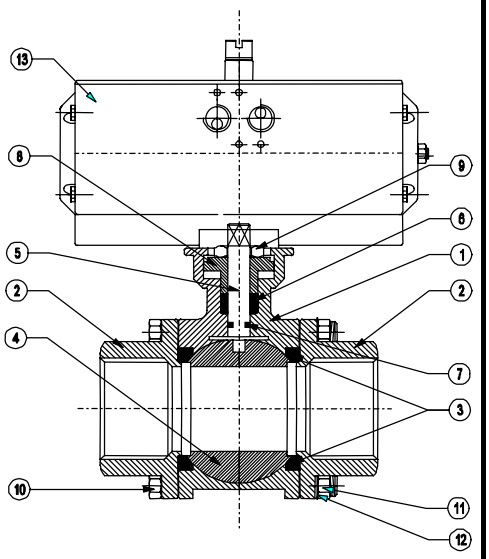
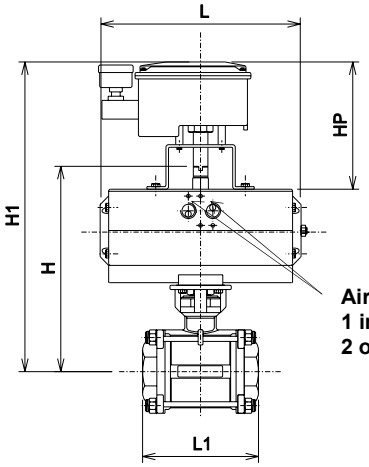
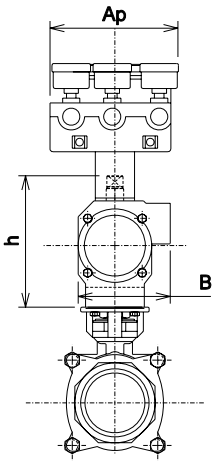


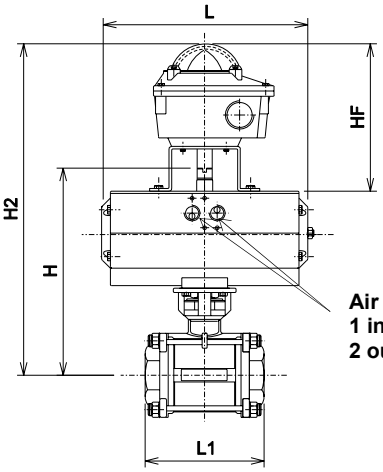
Fig. 2



Model with pneumatic or electropneumatic pilot positioner

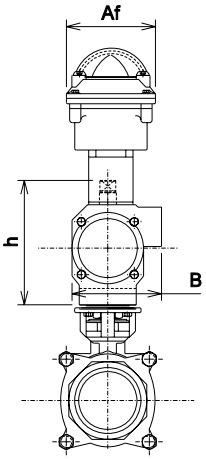
Air Connections
1 in
2 out





Model with rotary switches

Air connections
1 in
2 out



Dimensions in mm (fig. 2)

Ø	½"		¾"		1"		1.1/4"		1.1/2"	2"	2.1/2"	3"	4"
	UT 15	PT 10	UT 15	PT 13	UT 20	PT 18	UT 20	PT 18	UT 25	UT 30	UT 35	UT 40	UT 45
H – std version	159	149	163	153	187	176	196	185	201	228	297	308	411
H1 – version with positioners	294	294	298	298	322	231	331	330	336	363	423	443	576
H2 – model with rotary switches	264	264	268	268	292	291	301	300	306	333	402	413	546
HP	165		165		165		165		165	165	165	165	165
HF	135		135		135		135		135	135	135	135	135
L	165	160	165	160	177	175	177	175	239	230	246	290	351
h	121	111	121	111	143	132	143	132	143	162	196	196	208
B	85	86	85	86	96	101	96	101	96	113	138	138	151
L1	64		75		86		99		113	132	164	183	232
Ap	168		168		168		168		168	168	168	168	168
Af	86		86		86		86		86	86	86	86	86

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DOUBLE EFFECT – PNEUMATIC VALVES
THREE PIECES BALL BODY – FULL BORE

VS2200DE/E	
05	2015

TWO WAY – ON-OFF AND MODULATING CE







TYPE VS2200 DE

Stainless Steel AISI 316

Double effect – air opens and closes

DESCRIPTION

VS2200 DE pneumatic valves are with three pieces body.
The AISI 316 ball guarantees a perfect tightness in class VI°.
Compact construction assembled with a pneumatic piston actuator double effect rotation 90 ° made of alluminium or technopolymer for valves ≤ Ø 2.1/2".
The pneumatic actuator is powered by the following signals:

- 4 … 10 bar for ON – OFF valves.
- 3-15 psi with pneumatic pilot positioner on modulating valves
- 4-20 mA with electropneumatic pilot positioner on modulating valves

NOMINAL DIAMETERS : from Ø 1/2 " to Ø 4 "

BODY CONNECTIONS : Screwed ISO 7 Rp
Socket Welding S.W.

LIMIT WORKING CONDITIONS :

- Max inlet pressure and temperature : 63 bar 180 °C

BODY MATERIALS (1) :

- **Stainless steel AISI 316 PN 63**
  Internal parts stainless steel AISI 316

BODY TYPE : Full bore

PLUG :

- Ball

STEM PACKING :

- PTFE ≤ 180 °C

PNEUMATIC ACTUATOR CHARACTERISTICS:

• Actuator	:	double effect piston rotation 90 ° ISO 5211 – DIN 3337 NAMUR VDI / VDE 3845
• Input signal:	:	from 4 to 10 bar (alluminium piston)
	:	from 4 to 8 bar (technopolymer piston)
• Max air applicable	:	10 bar (alluminium piston)
	:	8 bar (technopolymer piston)
• Ambient temperature	:	-20 ... +70 °C
• Actuator box	:	Alluminium ASTM B210
	:	Technopolymer
• Right and left piston	:	die cast alluminium UNI 5076
• Pneumatic connections	:	ISO 7 Rp – ¼"

ON REQUEST :

- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA…4-12 mA …12-20 mA
- Proximity limit switches
- Feedback signal on positioner 4-20 mA
- Rotary switches with position monitoring by "Dome"
- Solenoid valve
- Air filter regulator

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ISO 9001

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Fax 039/654.018
e-mail : sales@conflow.it
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 – signals in bar

Ø	½"	¾"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
Δp Kg/cm²	**60**	**60**	**60**	**60**	**60**	**60**	**60**	**60**	**60**
Air bar	4/6	4/6	4/6	4/6	4/6	4/6	4/6	4/6	4/6
Alluminium piston	UT 05 DE	UT 05 DE	UT 05 DE	UT 15 DE	UT 15 DE	UT 20 DE	UT 20 DE	UT 25 DE	UT 30 DE
Technopolymer piston	PT 10 DE	PT 10 DE	PT 10 DE	PT 13 DE	PT 13 DE	PT 18 DE	PT 18 DE	n.a.	n.a.

n.a. = not applicable

Fig. 1

COMPONENTS LIST (fig. 1)

1. Middle body
2. Body terminals
3. Ball gaskets
4. Ball
5. Stem
6. Packing
7. Stem gaskets
8. Packing bush
9. Locking packing bolt (or sieger)
10. Body locking srcrews
11. Locking bolts
12. Washer
13. Piston

ELENCO MATERIALI (fig. 1)

1. Stainless steel AISI 316
2. Stainless steel AISI 316
3. PTFE
4. Stainless steel AISI 316
5. Stainless steel AISI 316
6. PTFE
7. PTFE
8. Stainless steel AISI 304
9. Stainless steel AISI 304
10. Stainless steel AISI 304
11. Stainless steel AISI 304
12. Stainless steel AISI 304
13. Alluminium / Technopolymer

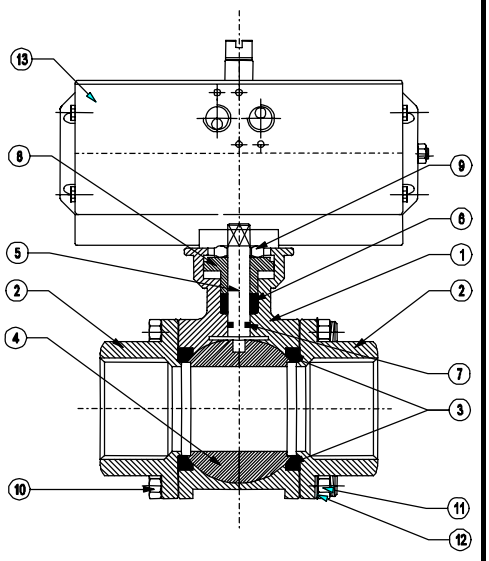
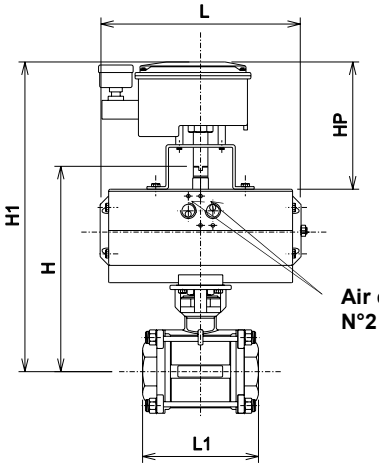
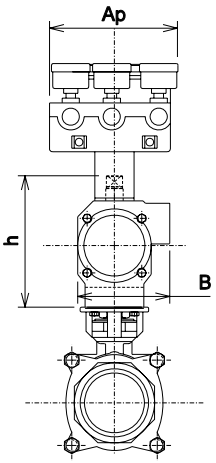


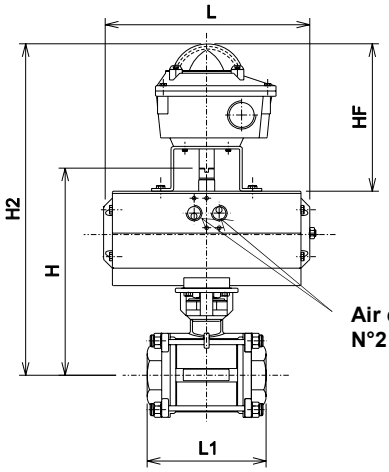
Fig. 2



Model with pneumatic or electropneumatic pilot positioner

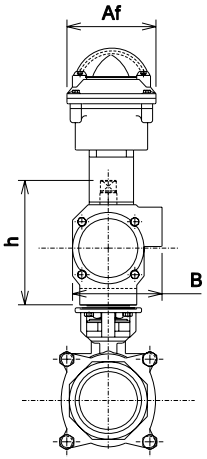
Air connections N°2 Ø ¼" gas





Model with rotary switches

Air connections N°2 Ø ¼" gas



Dimensions in mm (fig. 2)

Ø	½"		¾"		1"		1.1/4"		1.1/2"		2"		2.1/2"		3"	4"
	UT 05	PT 10	UT 05	PT 10	UT 05	PT 10	UT 15	PT 13	UT 15	PT 13	UT 20	PT 18	UT 20	PT 18	UT 25	PT 30
H – std version	139	129	143	133	145	135	174	164	179	169	209	198	244	233	255	336
H1 – version with positioners	274	274	278	278	280	280	309	309	314	314	344	343	379	378	390	471
H2 – model with rotary switches	244	244	248	248	250	250	279	279	284	284	314	313	349	348	360	441
HP	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165
HF	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135
L	119	119	119	119	119	119	165	160	165	160	177	175	177	175	239	230
h	101	91	101	91	101	91	121	111	121	111	143	132	143	132	143	162
B	67	67	67	67	67	67	85	86	85	86	96	101	96	101	96	113
L1	64		75		86		99		113		132		164		183	232
Ap	168		168		168		168		168		168		168		168	168
Af	86		86		86		86		86		86		86		86	86

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ON – OFF ACTION - PED 2014/68/UE



TYPE VPFL AR
Normally closed – air opens

TYPE VPFL AD
Normally open – air closes

TYPE VPFL DE
Double effect – air opens and closes

DESCRIPTION

The ON-OFF "VPFL" series pneumatic valves are with free flow body and full bore.
Compact construction assembled with PA pneumatic piston actuator by inlet air from 4 to 10 bar.

NOMINAL DIAMETERS : from Ø 1/2" to Ø 2"

BODY CONNECTIONS : screwed BSP ISO 7/1 Rp

BODY MATERIALS :

- **Stainless Steel AISI 316 PN 16**
  Internal parts stainless steel AISI 316 - bonnet AISI 316

PLUG :

- **PT** = quick opening (PTFE) cl. VI°

BONNET :

- Standard for temperatures from -10 to + 180 °C

PACKING :

- PTFE Rings
  For temperatures –10 / +180 °C

PNEUMATIC ACTUATOR CHARACTERISTICS :

- Actuator : piston with sight indicator
- Material : **PA**
- Ambient temperature : -10 … +60°C
- Input signal : 4 … 10 bar
- Max air pressure : 10 bar
- Pneumatic connection : ISO 7 Rp – 1/4"
- Rotation : 360°

LIMIT WORKING CONDITION – BODY GROUP :

- Max inlet pressure : 16 bar
- Maxworking temperature : –10 / + 190 °C

ON REQUEST :

- Solenoyd valve



- Proximity limit switches box



CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"
PT	CV	4,6	9,38	17,65	21,32	26,19	47,17
	KV	5,4	11,0	20,7	25	30,7	55,3

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

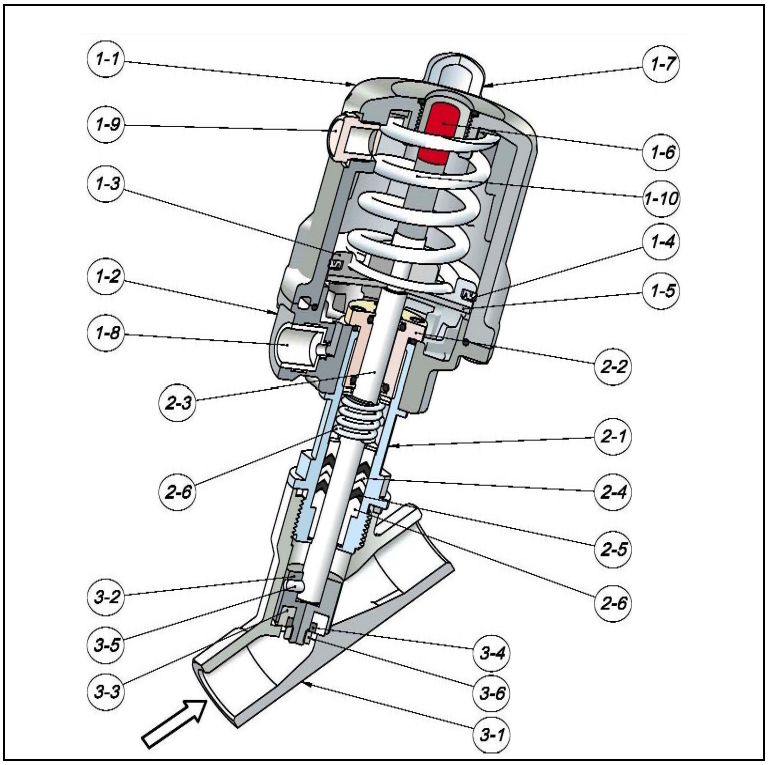
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
e-mail: sales@conflow.it
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)

Actuator Type	Ø 1/2" DN 15	Ø 3/4" DN 20	Ø 1" DN 25	Ø 1.1/4" DN 32	Ø 1.1/2" DN 40	Ø 2" DN 50
Ø 50	16	16	n.a.	n.a.	n.a.	n.a.
Ø 63	n.a.	n.a.	13	n.a.	n.a.	n.a.
Ø 80	n.a.	n.a.	n.a.	12	9	n.a.
Ø 100	n.a.	n.a.	n.a.	n.a.	n.a.	8 *

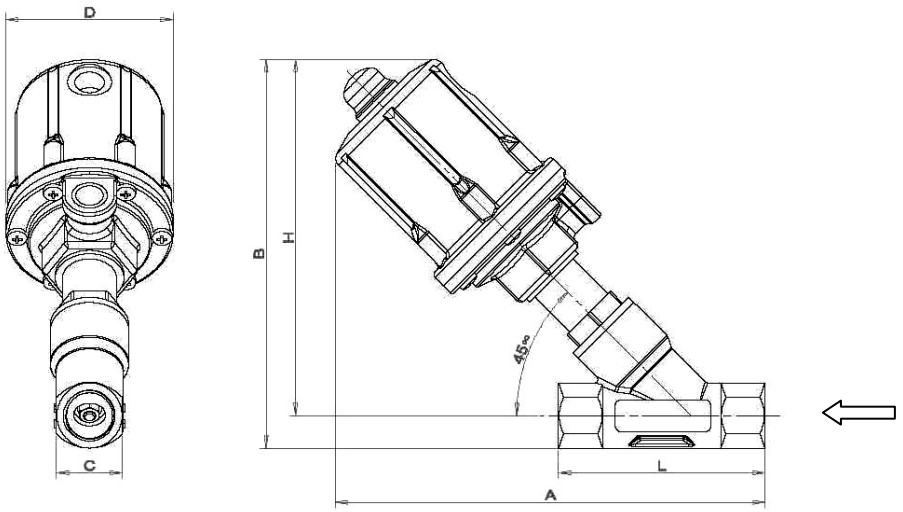
* with flow tries to close Delta/P = 10 Kg/cm²
n.a. = not applicable

COMPONENTS LIST AND MATERIALS



COMPONENTS LIST	MATERIALS
1-1. Actuator case (UP)	1-1. PA
1-2. Actuator case (DOWN)	1-2. PA
1-3. Piston	1-3. PA
1-4. Piston seal	1-4. Viton
1-5. Piston washer	1-5. Stainless Steel AISI316
1-6. Indicator rod	1-6. AL
1-7. Indicator cap	1-7. PC
1-8. Air inlet	1-8. Brass
1-9. Noise filter	1-9. Brass
1-10. Return spring	1-10. SPS4
2-1. Stuffing box	2-1. Stainless Steel AISI316
2-2. stuffing box joint crew	2-2. Brass
2-3. stem	2-3. Stainless Steel AISI316
2-4. V-packing	2-4. PTFE
2-5. V-packing	2-5. Viton
2-6. Packing spring	2-6. Stainless Steel AISI304
3-1. Body	3-1. Stainless Steel AISI316
3-2. Plug	3-2. Stainless Steel AISI316
3-3. Plug seal	3-3. PTFE
3-4. Plug washer	3-4. Stainless Steel AISI316
3-5. Plug ping	3-5. Stainless Steel AISI316
3-6. Lock nut	3-6. Stainless Steel AISI316

DIMENSIONS in mm.



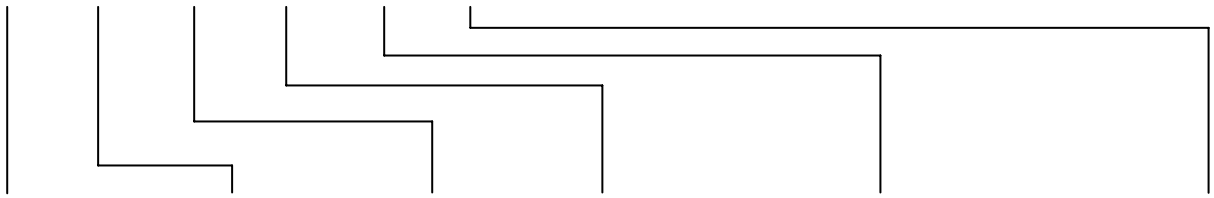
Size DN	Size BSP ISO 7/1 Rp	Ø actuator	A	B	C	D	H	L
15	1/2"	50	174.5	158	27	Ø68	144.5	84
20	3/4"	50	182	163.5	34	Ø68	146.5	94
25	1"	63	211	192.5	40	Ø84	172.5	104
32	1.1/4"	80	247.5	234	49	Ø105	209.5	120
40	1.1/2"	80	252	238.5	55	Ø105	211	130
50	2"	100	317	309	70	Ø126	274	150

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

Sistema Codifica Prodotti Serie HYGIENIC
Products Codification System HYGIENIC Series

Codice Esempio Serie HYGIENIC / Example Code HYGIENIC Series

12	S	015	E	FFD	FB	CE	0	0	0	0	T1	0	11	A



Tipo / Type		Esecuzione / Execution	
12	1200	C	Line
14	1400	D	Diffuser
15	1500	L	Lateral
18	1800	S	STD

DN	
003	Ø1/8"
005	Ø3/16"
006	Ø1/4"
010	Ø3/8"
015	DN15
020	DN20
025	DN25
032	DN32
040	DN40
050	DN50
065	DN65
080	DN80
100	DN100

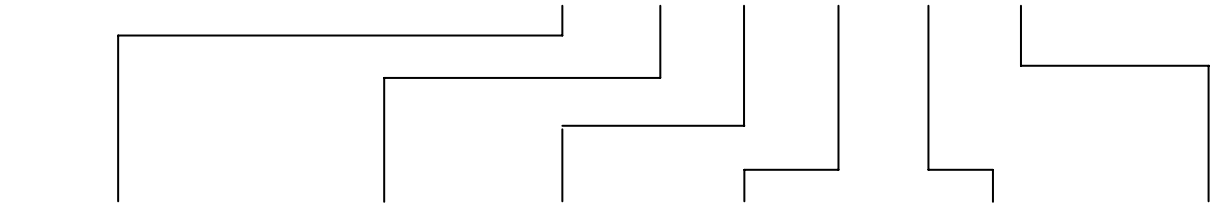
Materiale / Material	
E	AISI 316L

Flangiatura / Connections	
C6D	PN16 Clamp
CCD	PN10 Clamp
DDD	PN10 Complete DIN
F6D	PN16 Female
FFD	PN10 Female
L4D	PN40 Smooth
L6D	PN16 Smooth
LLD	PN10 Smooth
M6D	PN16 Male
MMD	PN10 Male
16B	PN16 form B

Passaggio / Bore	
FB	Full Bore
03	Ø1/8"
05	Ø3/16"
06	Ø1/4"
10	Ø3/8"
15	Ø1/2"
20	Ø3/4"
25	Ø1"
32	Ø1.1/4"
40	Ø1.1/2"
50	Ø2"
65	Ø2.1/2"
80	Ø3"

Segue Codice Esempio / Follow Example Code

12	S	015	E	FFD	FB	CE	0	0	0	0	T1	0	11	A



Otturatore / Plug	
CE	% (EQP-EQV)
CL	Linear (PL-LV)
CT	On-Off (PT-VPT)
1S	Microflow 1SG %
2S	Microflow 2SG %
MF	Microflow Linear

Tenuta / Seal	
0	Cl. IV°
R	PTFE/GR Cl. VI°
T	PTFE Cl. VI°
V	Cl.V°

Guarnizioni / Gaskets	
E	EPDM
F	FEP
T	PTFE

Bonnet	
0	STD
B	Steam barrier

Premistoppa / Packing	
0	STD
E	EPDM
F	FEP

Servomotore / Actuator	
T1	T200 Painted
T2	T250 Painted
T3	T310 Painted
T4	T400 Painted
T5	T500 Painted
X1	T200 A304
X2	T250 A304
X3	T310 A304
X4	T400 A304
X5	T500 A304

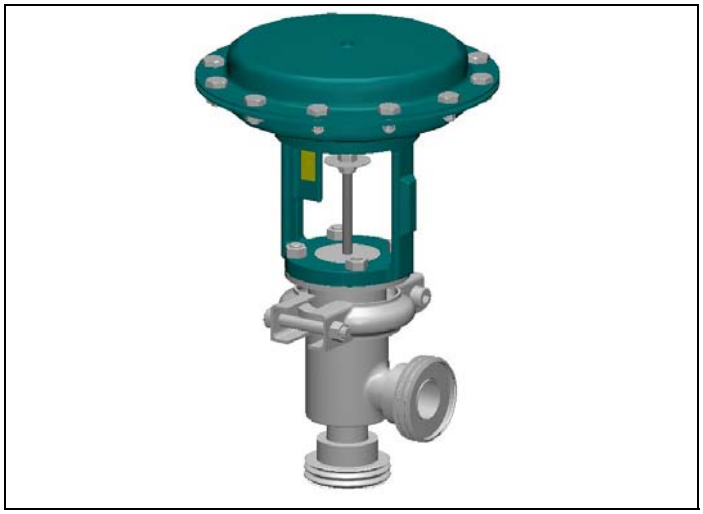
Sistema Codifica Prodotti Serie HYGIENIC
Products Codification System HYGIENIC Series

Segue Codice Esempio / Follow Example Code

12	S	015	E	FFD	FB	CE	0	0	0	0	T1	0	11	A

Extra		**Corsa** Stroke		**Segnale** Signal	
D	Handwheel AD	**11**	11 mm	**A**	3-15 PSI
R	Handwheel AR	**19**	19 mm	**B**	6-18 PSI
		28	28 mm	**C**	6-30 PSI
		40	40 mm	**D**	35 PSI
				H	DE
				K	5-6 BAR

SINGLE SEAT TWO WAYS PED 2014/68/UE



TYPE 1200 AD

Normally open – Air closes

DESCRIPTION

The 1200 "HYGIENIC" pneumatic control valves are with two square way body with revolving connections.
They are suggested for modulating service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. Modulating plug suitable for control of virtually all line media. All the valves can be supplied, on request, with viton soft seal on plug for a total shut-off. Compact construction assembled with "UNIWORLD" multisprings pneumatic actuator having 3 - 15 psi …6 – 30 psi standard control signals.
On request they can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- **Smooth welding caps according to DIN (Standard) A316 L**
- **Male tappared according to DIN 11851 A316L**
- **Female screwed according to DIN 11851 A316L**
- **Complete union according to DIN 11851 A316L**
- **Snap – clamp system according to DIN 405 A316L**
- **Flanged UNI 2277/78 PN 10-16 A316L**

MATERIALS OF BODY GROUP :

- **Stainless steel AISI 316 L – X2 Cr Ni Mo 1712 PN 10 (1)**
  Polished version or satin version
  (1) On request PN 16

PLUG :

- **PL** = linear class IV°
- On request EQP plug class IV°
- On request reduced bores and microflow (•)

BONNET : Standard for temperature from -5 to + 160 °C

PACKING : N° 2 "O" rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C
- Painted actuator casing mat. : Fe P11
- S.S. actuator casing material : Stainless steel AISI 304
- Diaphragm material : EPDM 70
- Painted yoke material : GGG 50
- S.S. yoke material : Stainless steel CF8 (AISI 304)
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature :10 bar –15°C….+ 160°C
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft viton insert ≤160°C classe VI°
- Reduced bores (see below table)
- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro pneumatic pilot positioner 4-20 mA.. 4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Top – work manual handweel

CV = american unit (flowrate in US GPM With 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PL	CV	5	8	13	18	26	45	72	105	160
	KV	4.3	6.8	11.1	15.4	22.2	38.4	61.4	89.6	136.5
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
	KV	2.9	5.7	9.3	14.7	20.5	43	60.5	75.2	102.1
Reduced bore*		•	• 1/2"	• 1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

• DN 15-20-25	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear..MFS = Equal percentage *CV and KV values are referred to the selected diameter and plug type PL / EQP only.

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Fax 039/654.018
www.conflow.it

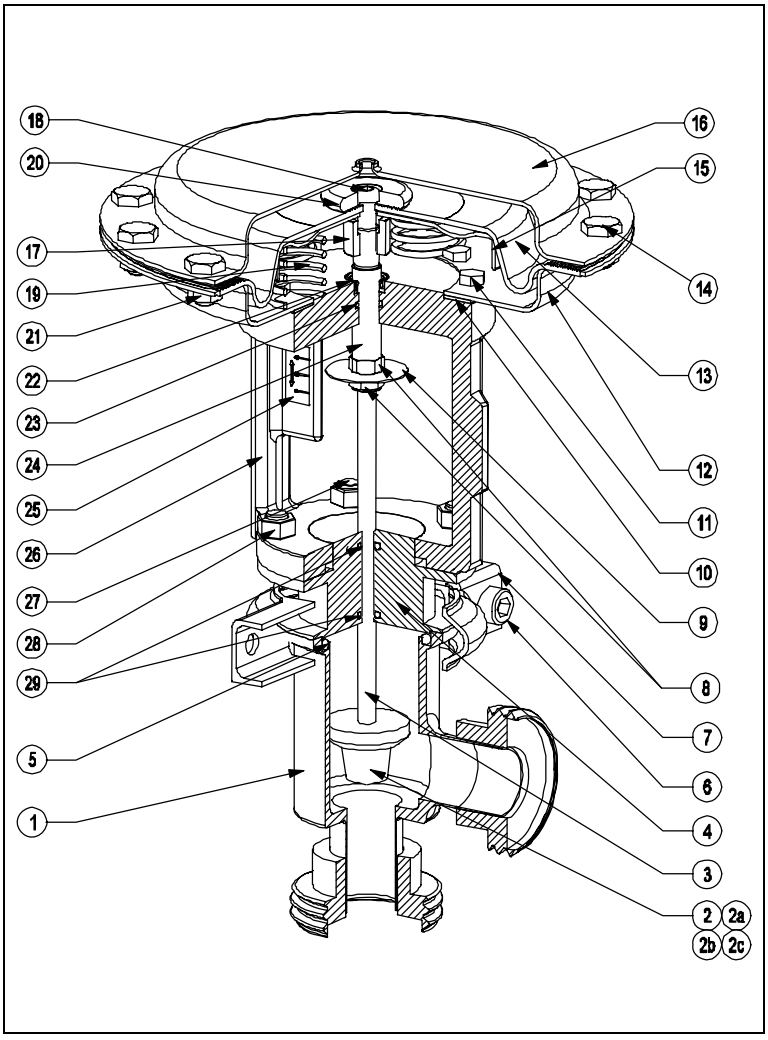
Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator Type	Signal psi	DN 15 Stroke 11	DN 20 Stroke 11	DN 25 Stroke 11	DN 32 Stroke 19	DN 40 Stroke 19	DN 50 Stroke 19	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-30 psi	52	32	18	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-30 psi	113	69	39	25	17	10	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-30 psi	-	-	63	41	28	16	10	7	4
T400	3-15 psi	-	-	-	14.5	10.5	5.5	3.8	2.5	1.4
	6-30 psi	-	-	-	60	42	24	15	10.5	5.9
T500	3-15 psi	-	-	-	24.5	17.5	9.5	6.2	4.2	2.4
	6-30 psi	-	-	-	101	70	40	25.3	17.5	9.9

T200 DN15-20 Microflow	Signal	MFP 1/8 "	MFP 3/16 "	MFP 1/4 "	MFP 3/8 "	MFS1SG 1/4 "	MFS2SG 1/4 "	MFS1SG 3/8 "	MFS2SG 3/8 "
	3-15 psi	200	90	50	30	50	50	30	30
	6-30 psi	1080	470	270	130	270	270	130	130

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating.
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 3-15 psi are obtained with a thrust of 18 psi
3. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) given in the column 6-30 psi are obtained with a thrust of 30 psi

COMPONENT LIST AND MATERIALS

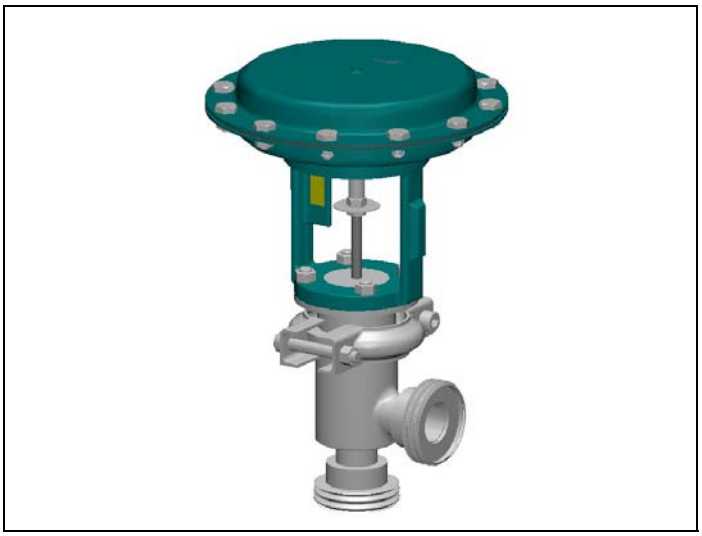


	COMPONENTS	MATERIALS
1.	Body	AISI 316 L St. steel
2.	Metal seal plug	AISI 316 L St. steel
2a.	Soft seal plug	AISI 316 L St. steel
2b.	Soft viton insert	Viton FPM 70
2c.	Upper plug profile	AISI 316 L St. steel
3.	Stem	AISI 316 L St. steel
4.	Bonnet	AISI 316 L St. steel
5.	Body gasket	Viton FPM 70
6.	Clamp bolts	AISI 304 L St. steel
7.	Clamp	AISI 304 L St. steel
8.	Indicator bolts	AISI 304 L St. steel
9.	Position indicator	AISI 304 L St. steel
10.	Yoke gasket	Cork-rubber
11.	Yoke bolts	DIN 933 galvanized steel or AISI 304 L St. steel
12.	Lower diaphragm casing	P11 steel or AISI 304 L St. steel
13.	Diaphragm	EPDM 70
14.	Diaphragm casing locknuts	DIN 933 galvanized steel or AISI 304 L St. steel
15.	Diaphragm plate	P01 steel
16.	Upper diaphragm casing	P11 steel or AISI 304 L St. steel
17.	Diaphragm bush	AISI 303 L St. steel
18.	Diaphragm locknut	ISO 7380 galvanized steel
19.	Springs	C98 UNI 3823
20.	Diaphragm spacer	Galvanized steel
21.	Diaphragm casing bolts	DIN 934 galvanized steel or AISI 304 L St. steel
22.	Airtight	NBR
23.	"O" ring	NBR
24.	Diaphragm rod	AISI 303 L St. steel
25.	Travel indicator plate	Policarbonate
26.	Yoke	GGG50 or AISI 304 L St. steel
27.	Stud-bolts	AISI 304 L St. steel
28.	Yoke bolts	DIN 934 galvanized steel or AISI 304 L St. steel
29.	"O" rings	Viton FPM 70

DIMENSIONS (See leflet DIMHY/I/E)

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

SINGLE SEAT TWO WAYS PED 2014/68/UE



TYPE 1200 AR

Normally closed – air opens

DESCRIPTION

The 1200 "HYGIENIC" pneumatic control valves are with two square way body with revolving connections.
They are suggested for modulating service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. Modulating plug suitable for control of virtually all line media. All the valves can be supplied, on request, with viton soft seal on plug for a total shut-off. Compact construction assembled with "UNIWORLD" multisprings pneumatic actuator having 3 - 15 psi …6 – 18 psi….6 – 30 psi standard control signals.
On request they can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- **Smooth welding caps according to DIN (Standard) A316 L**
- **Male tappared according to DIN 11851 A316L**
- **Female screwed according to DIN 11851 A316L**
- **Complete union according to DIN 11851 A316L**
- **Snap – clamp system according to DIN 405 A316L**
- **Flanged UNI 2277/78 PN 10-16 A316L**

MATERIALS OF BODY GROUP :

- **Stainless steel AISI 316 L – X2 Cr Ni Mo 1712 PN 10 (1)**
  Polished version or satin version
  (1) On request PN 16

PLUG :

- **PL** = linear class IV°
- On request EQP plug class IV°
- On request reduced bores and microflow (•)

BONNET : Standard for temperature from -5 to + 160 °C

PACKING : N° 2 "O" rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-18 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C
- Painted actuator casing mat. : Fe P11
- S.S. actuator casing material : Stainless steel AISI 304
- Diaphragm material : EPDM 70
- Painted yoke material : GGG 50
- S.S. yoke material : Stainless steel CF8 (AISI 304)
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature :10 bar –15°C….+ 160°C
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft viton insert ≤160°C classe VI°
- Reduced bores (see below table)
- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro pneumatic pilot positioner 4-20 mA…4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Top – work manual handweel

CV = american unit (flowrate in US GPM With 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Otturatori		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
Pass. pieno		Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
PL	CV	5	8	13	18	26	45	72	105	160
	KV	4.3	6.8	11.1	15.4	22.2	38.4	61.4	89.6	136.5
EQP	CV	3.4	6.6	10.8	17	23.8	50	70.2	87.9	118.5
	KV	2.9	5.7	9.3	14.7	20.5	43	60.5	75.2	102.1
Pass.Ridotti*		•	• 1/2"	• 1/2" 3/4"	3/4" 1"	1" 1.1/4"	1.1/4" 1.1/2"	1.1/2" 2"	2" 2.1/2"	2.1/2" 3"

• DN 15-20-25	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Lineare..MFS = Equipercentuale *I valori si riferiscono a CV e KV corrispondenti al Ø ed al tipo di otturatore scelto solo PL / EQP

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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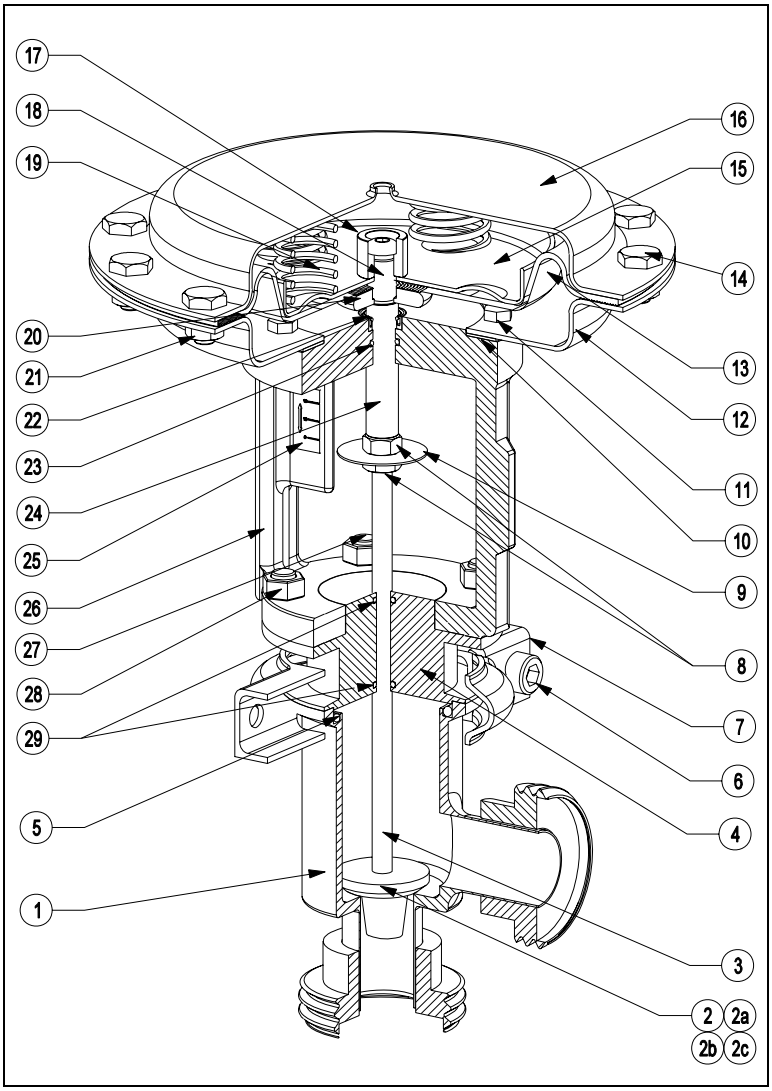
Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator Type	Signal psi	DN 15 Stroke 11	DN 20 Stroke 11	DN 25 Stroke 11	DN 32 Stroke 19	DN 40 Stroke 19	DN 50 Stroke 19	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	6	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

T200 DN15-20 Microflow	Signal	MFP 1/8 "	MFP 3/16 "	MFP 1/4 "	MFP 3/8 "	MFS1SG 1/4 "	MFS2SG 1/4 "	MFS1SG 3/8 "	MFS2SG 3/8 "
	3-15 psi	200	90	50	30	50	50	30	30
	6-18 psi	400	180	100	60	100	100	60	60
	6-30 psi	1300	580	340	160	340	340	160	160

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating.
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for on – off service with air supply at 30/35 psi

COMPONENT LIST AND MATERIALS

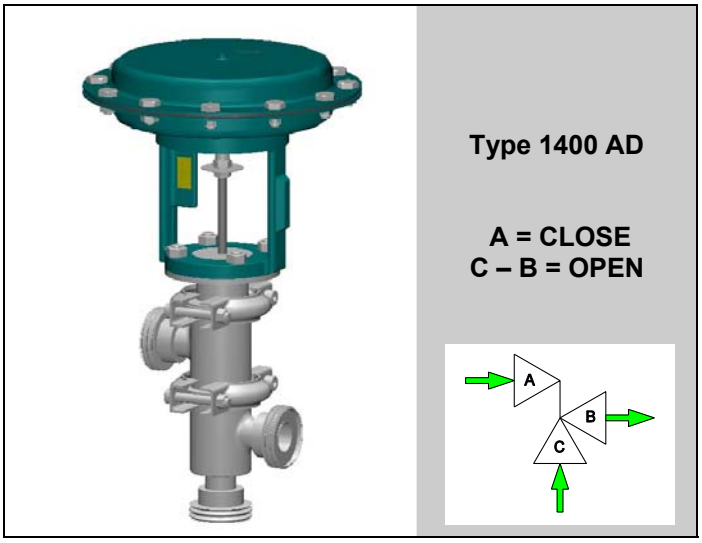


	COMPONENTS	MATERIALS
1.	Body	AISI 316 L St. steel
2.	Metal seal plug	AISI 316 L St. steel
2a.	Soft seal plug	AISI 316 L St. steel
2b.	Soft viton insert	Viton FPM 70
2c.	Upper plug profile	AISI 316 L St. steel
3.	Stem	AISI 316 L St. steel
4.	Bonnet	AISI 316 L St. steel
5.	Body gasket	Viton FPM 70
6.	Clamp bolts	AISI 304 L St. steel
7.	Clamp	AISI 304 L St. steel
8.	Indicator bolts	AISI 304 L St. steel
9.	Position indicator	AISI 304 L St. steel
10.	Yoke gasket	Cork-rubber
11.	Yoke bolts	DIN 933 galvanized steel or AISI 304 L St. steel
12.	Lower diaphragm casing	P11 steel or AISI 304 L St. steel
13.	Diaphragm	EPDM 70
14.	Diaphragm casing locknuts	DIN 933 galvanized steel or AISI 304 L St. steel
15.	Diaphragm plate	P01 steel
16.	Upper diaphragm casing	P11 steel or AISI 304 L St. steel
17.	Diaphragm bush	AISI 303 L St. steel
18.	Diaphragm locknut	ISO 7380 galvanized steel
19.	Springs	C98 UNI 3823
20.	Diaphragm spacer	Galvanized steel
21.	Diaphragm casing bolts	DIN 934 galvanized steel or AISI 304 L St. steel
22.	Airtight	NBR
23.	"O" ring	NBR
24.	Diaphragm rod	AISI 303 L St. steel
25.	Travel indicator plate	Policarbonate
26.	Yoke	GGG50 or AISI 304 L St. steel
27.	Stud-bolts	AISI 304 L St. steel
28.	Yoke bolts	DIN 934 galvanized steel or AISI 304 L St. steel
29.	"O" rings	Viton FPM 70

DIMENSIONS (See leaflet DIMHY/I/E)

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE WAY MIXING CONTROL VALVES PED 2014/68/UE



TIPO 1400 AD

Normally closed port "A" on air failure

DESCRIPTION

The 1400 "HYGIENIC" pneumatic control valves are with three way mixing body with revolving connections.
They are suggested for modulating service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. The three way mixing control valves are with two inlet ports and one outlet port with fluid opens. Modulating plug suitable for control of virtually all line media. Compact construction assembled with "UNIWORLD" multisprings pneumatic actuator having 3 - 15 psi …6 – 18 psi….6 – 30 psi standard control signals.
On request they can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- **Smooth welding caps according to DIN (Standard) A316 L**
- **Male tappared according to DIN 11851 A316L**
- **Female screwed according to DIN 11851 A316L**
- **Complete union according to DIN 11851 A316L**
- **Snap – clamp system according to DIN 405 A316L**
- **Flanged UNI 2277/78 PN 10-16 A316L**

MATERIALS OF BODY GROUP :

- **Stainless steel AISI 316 L – X2 Cr Ni Mo 1712 PN 10**
  Polished version or satin version

PLUG :

- **PL** = linear class IV°
- On request reduced bores and microflow

BONNET : Standard for temperature from -5 to + 160 °C

PACKING : N° 2 "O" rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-18 psi…6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C
- Painted actuator casing mat. : Fe P11
- S.S. actuator casing material : Stainless steel AISI 304
- Diaphragm material : EPDM 70
- Painted yoke material : GGG 50
- S.S. yoke material : Stainless steel CF8 (AISI 304)
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : 10 bar –15°C….+ 160°C
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft viton insert ≤160°C classe VI°
- Reduced bores (see below table)
- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro pneumatic pilot positioner 4-20 mA…4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Top – work manual handweel

CV = american unit (flowrate in US GPM With 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full Bore		DN 15	DN 20	DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100	
		Ø 1/2"	Ø 3/4"	Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"		Ø 2.1/2"		Ø 3"		Ø 4"	
PL	CV	5	8	13		18		26		45		72		105		160	
	KV	4.26	6.82	11.08		15.34		22.15		38.34		61.34		89.46		136.32	
Reduced bore*		n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable * CV and KV values are referred to the selected diameter and plug time (PL only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

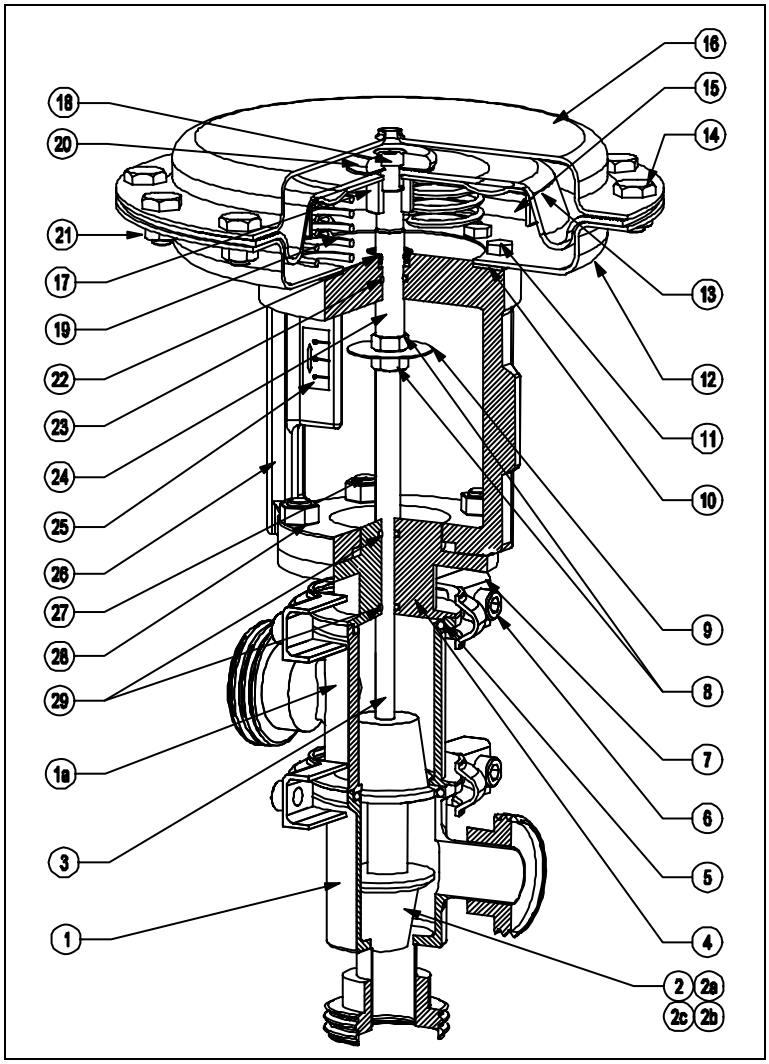
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20864 AGRATE BRIANZA (MI)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator Type	Signal psi	DN 15 Stroke 11	DN 20 Stroke 11	DN 25 Stroke 11	DN 32 Stroke 19	DN 40 Stroke 19	DN 50 Stroke 19	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	6	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating.
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENT LIST AND MATERIALS

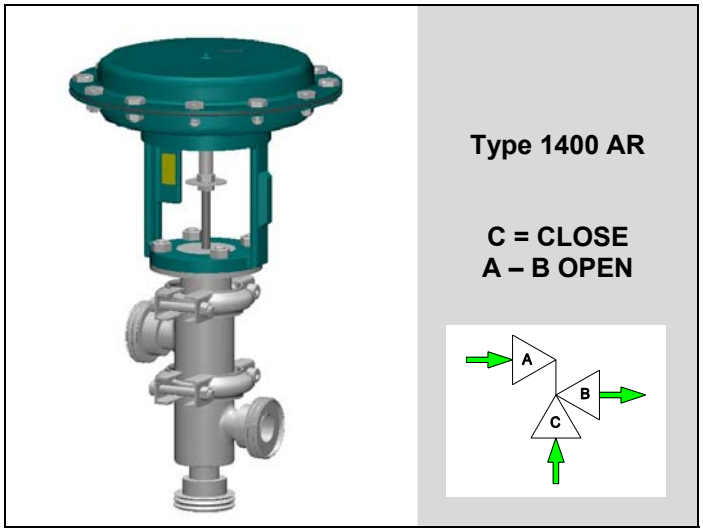


	COMPONENTS	MATERIALS
1.	Lower body	AISI 316 L St. steel
1a.	Upper body	AISI 316 L St. steel
2.	Metal seal plug	AISI 316 L St. steel
2a.	Soft seal plug	AISI 316 L St. steel
2b.	Soft viton insert	Viton FPM 70
2c.	Upper plug profile	AISI 316 L St. steel
3.	Stem	AISI 316 L St. steel
4.	Bonnet	AISI 316 L St. steel
5.	Body gasket	Viton FPM 70
6.	Clamp bolts	AISI 304 L St. steel
7.	Clamp	AISI 304 L St. steel
8.	Indicator bolts	AISI 304 L St. steel
9.	Position indicator	AISI 304 L St. steel
10.	Yoke gasket	Cork-rubber
11.	Yoke bolts	DIN 933 galvanized steel or AISI 304 L St. steel
12.	Lower diaphragm casing	P11 steel or AISI 304 L St. steel
13.	Diaphragm	EPDM 70
14.	Diaphragm casing locknuts	DIN 933 galvanized steel or AISI 304 L St. steel
15.	Diaphragm plate	P01 steel
16.	Upper diaphragm casing	P11 steel or AISI 304 L St. steel
17.	Diaphragm bush	AISI 303 L St. steel
18.	Diaphragm locknut	ISO 7380 galvanized steel
19.	Springs	C98 UNI 3823
20.	Diaphragm spacer	Galvanized steel
21.	Diaphragm casing bolts	DIN 934 galvanized steel or AISI 304 L St. steel
22.	Airtight	NBR
23.	"O" ring	NBR
24.	Diaphragm rod	AISI 303 L St. steel
25.	Travel indicator plate	Policarbonate
26.	Yoke	SG Iron GGG50 o AISI 304 L St. steel
27.	Stud-bolts	AISI 304 L St. steel
28.	Yoke bolts	DIN 934 galvanized steel or AISI 304 L St. steel
29.	"O" rings	Viton FPM 70

DIMENSIONS (See leaflet DIMHY/I/E)

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE WAY MIXING CONTROL VALVES PED 2014/68/UE



TYPE 1400 AR

Normally closed port "C" on air failure

DESCRIPTION

The 1400 "HYGIENIC" pneumatic control valves are with three way mixing body with revolving connections.
They are suggested for modulating service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. The three way mixing control valves are with two inlet ports and one outlet port with fluid opens. Modulating plug suitable for control of virtually all line media. Compact construction assembled with "UNIWORLD" multisprings pneumatic actuator having 3 - 15 psi …6 – 18 psi….6 – 30 psi standard control signals.
On request they can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- **Smooth welding caps according to DIN (Standard) A316 L**
- **Male tappared according to DIN 11851 A316L**
- **Female screwed according to DIN 11851 A316L**
- **Complete union according to DIN 11851 A316L**
- **Snap – clamp system according to DIN 405 A316L**
- **Flanged UNI 2277/78 PN 10-16 A316L**

MATERIALS OF BODY GROUP :

- **Stainless steel AISI 316 L – X2 Cr Ni Mo 1712 PN 10**
  Polished version or satin version

PLUG :

- **PL** = linear class IV°
- On request reduced bores and microflow

BONNET : Standard for temperature from -5 to + 160 °C

PACKING : N° 2 "O" rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-18 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C
- Painted actuator casing mat. : Fe P11
- S.S. actuator casing material : Stainless steel AISI 304
- Diaphragm material : EPDM 70
- Painted yoke material : GGG 50
- S.S. yoke material : Stainless steel CF8 (AISI 304)
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : 10 bar –15°C….+ 160°C
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft viton insert ≤160°C classe VI°
- Reduced bores (see below table)
- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro pneumatic pilot positioner 4-20 mA…4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Top – work manual handweel

CV = american unit (flowrate in US GPM With 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"		DN 32 Ø 1.1/4"		DN 40 Ø 1.1/2"		DN 50 Ø 2"		DN 65 Ø 2.1/2"		DN 80 Ø 3"		DN 100 Ø 4"	
PL	CV	5	8	13		18		26		45		72		105		160	
	KV	4.26	6.82	11.08		15.34		22.15		38.34		61.34		89.46		136.32	
Reduced bore*		n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable * CV and KV values are referred to the selected diameter and plug time (PL only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

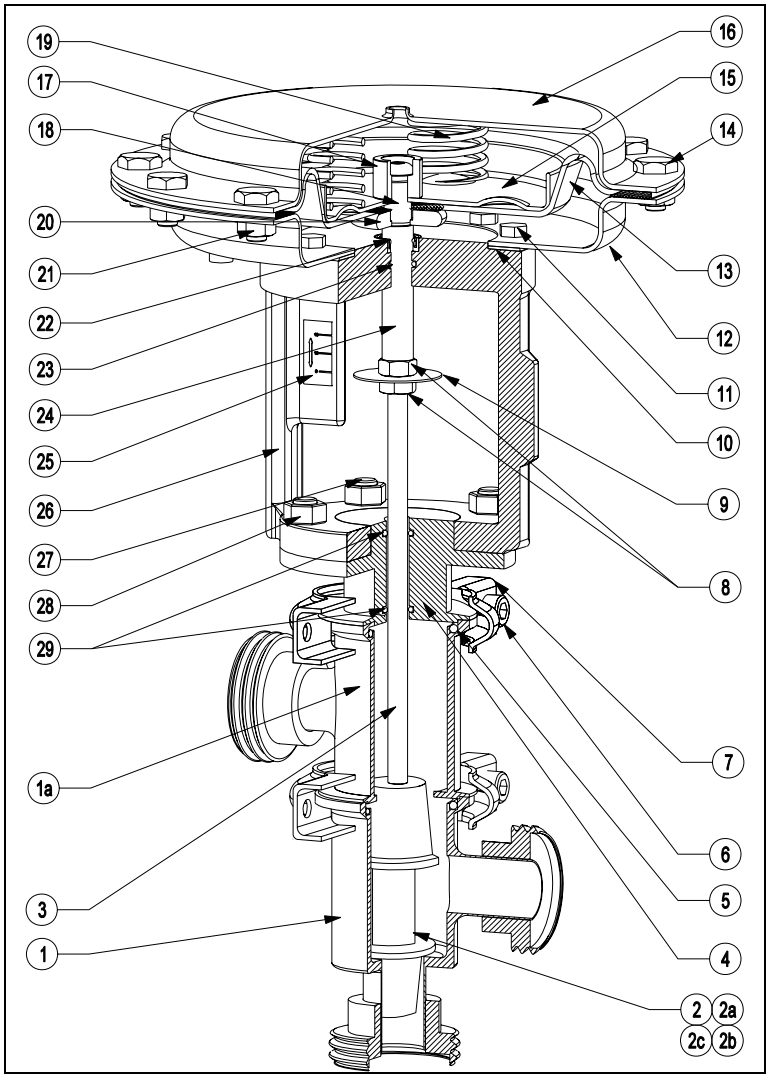
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator Type	Signal psi	DN 15 Stroke 11	DN 20 Stroke 11	DN 25 Stroke 11	DN 32 Stroke 19	DN 40 Stroke 19	DN 50 Stroke 19	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	6	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating.
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENT LIST AND MATERIALS

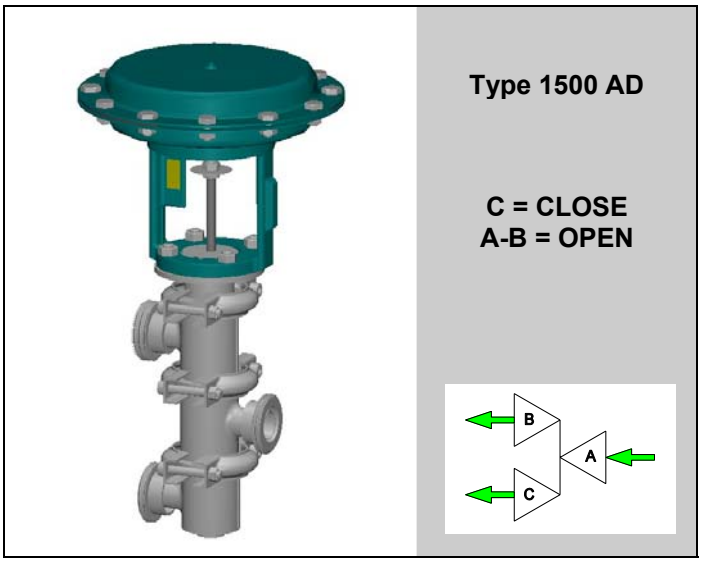


	COMPONENTS	MATERIALS
1.	Lower body	AISI 316 L St. steel
1a.	Upper body	AISI 316 L St. steel
2.	Metal seal plug	AISI 316 L St. steel
2a.	Soft seal plug	AISI 316 L St. steel
2b.	Soft viton insert	Viton FPM 70
2c.	Upper plug profile	AISI 316 L St. steel
3.	Stem	AISI 316 L St. steel
4.	Bonnet	AISI 316 L St. steel
5.	Body gasket	Viton FPM 70
6.	Clamp bolts	AISI 304 L St. steel
7.	Clamp	AISI 304 L St. steel
8.	Indicator bolts	AISI 304 L St. steel
9.	Position indicator	AISI 304 L St. steel
10.	Yoke gasket	Cork-rubber
11.	Yoke bolts	DIN 933 galvanized steel or AISI 304 L St. steel
12.	Lower diaphragm casing	P11 steel or AISI 304 L St. steel
13.	Diaphragm	EPDM 70
14.	Diaphragm casing locknuts	DIN 933 galvanized steel or AISI 304 L St. steel
15.	Diaphragm plate	P01 steel
16.	Upper diaphragm casing	P11 steel or AISI 304 L St. steel
17.	Diaphragm bush	AISI 303 L St. steel
18.	Diaphragm locknut	ISO 7380 galvanized steel
19.	Springs	C98 UNI 3823
20.	Diaphragm spacer	Galvanized steel
21.	Diaphragm casing bolts	DIN 934 galvanized steel or AISI 304 L St. steel
22.	Airtight	NBR
23.	"O" ring	NBR
24.	Diaphragm rod	AISI 303 L St. steel
25.	Travel indicator plate	Policarbonate
26.	Yoke	GGG50 or AISI 304 L St. steel
27.	Stud-bolts	AISI 304 L St. steel
28.	Yoke bolts	DIN 934 galvanized steel or AISI 304 L St. steel
29.	"O" rings	Viton FPM 70

DIMENSIONS (See leaflet DIMHY/I/E)

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE WAY DIVERTING CONTROL VALVES PED 2014/68/UE



TYPE 1500 AD

Normally closed port "C" on air failure

DESCRIPTION

The 1500 "HYGIENIC" pneumatic control valves are with three way diverting body with revolving connections.
They are suggested for modulating service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. The three way diverting control valves are with one inlet port and two outlet ports with fluid opens. Modulating plug suitable for control of virtually all line media. Compact construction assembled with "UNIWORLD" multisprings pneumatic actuator having 3 - 15 psi …6 – 18 psi… 6 – 30 psi standard control signals.
On request they can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- **Smooth welding caps according to DIN (Standard) A316 L**
- **Male tappared according to DIN 11851 A316L**
- **Female screwed according to DIN 11851 A316L**
- **Complete union according to DIN 11851 A316L**
- **Snap – clamp system according to DIN 405 A316L**
- **Flanged UNI 2277/78 PN 10-16 A316L**

MATERIALS OF BODY GROUP :

- **Stainless steel AISI 316 L – X2 Cr Ni Mo 1712 PN 10**
  Polished version or satin version

PLUG :

- **PL** = linear class IV°
- On request reduced bores and microflow

BONNET : Standard for temperature from -5 to + 160 °C

PACKING : N° 2 "O" rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : diaphragm type
- Control signals : 3-15 psi …6-18 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C
- Painted actuator casing mat. : Fe P11
- S.S. actuator casing material : Stainless steel AISI 304
- Diaphragm material : EPDM 70
- Painted yoke material : GGG 50
- S.S. yoke material : Stainless steel CF8 (AISI 304)
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : 10 bar –15°C….+ 160°C
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft viton insert ≤160°C classe VI°
- Reduced bores (see below table)
- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro pneumatic pilot positioner 4-20 mA…4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Top – work manual handweel

CV = american unit (flowrate in US GPM With 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15	DN 20	DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100	
		Ø 1/2"	Ø 3/4"	Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"		Ø 2.1/2"		Ø 3"		Ø 4"	
PL	CV	5	8	13		18		26		45		72		105		160	
	KV	4.26	6.82	11.08		15.34		22.15		38.34		61.34		89.46		136.32	
Reduced bore*		n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable * CV and KV values are referred to the selected diameter and plug time (PL only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

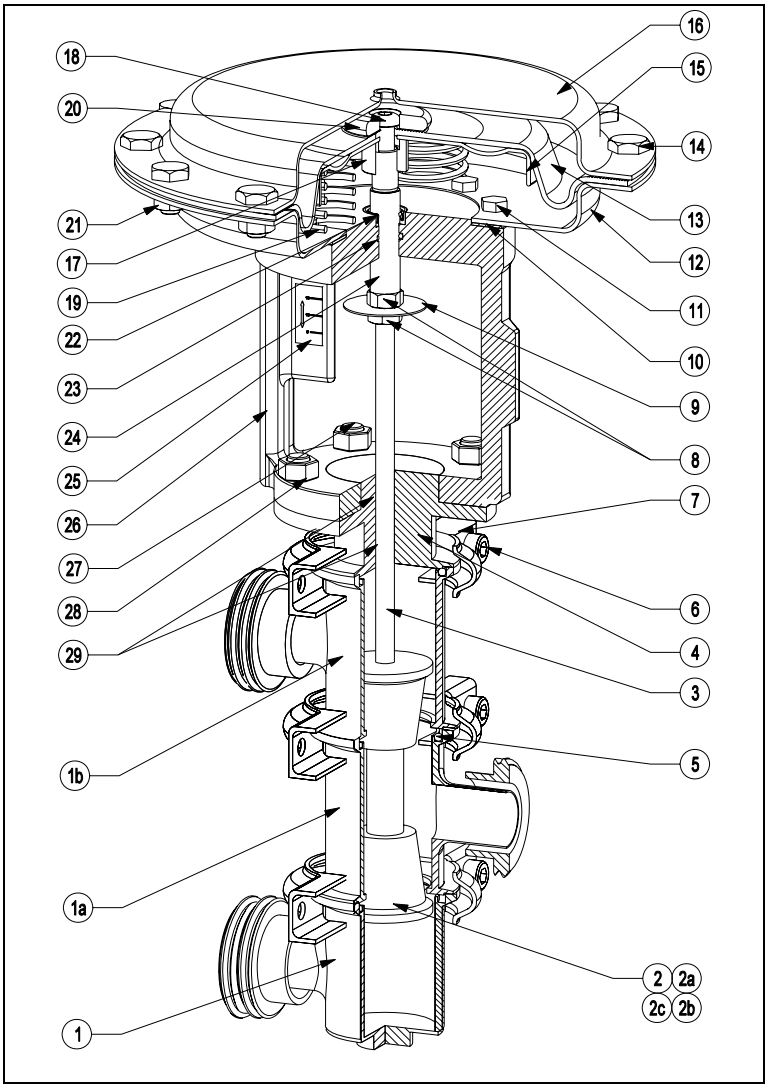
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Fax 039/654.018
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator Type	Signal psi	DN 15 Stroke 11	DN 20 Stroke 11	DN 25 Stroke 11	DN 32 Stroke 19	DN 40 Stroke 19	DN 50 Stroke 19	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	6	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	10	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating.
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENT LIST AND MATERIALS

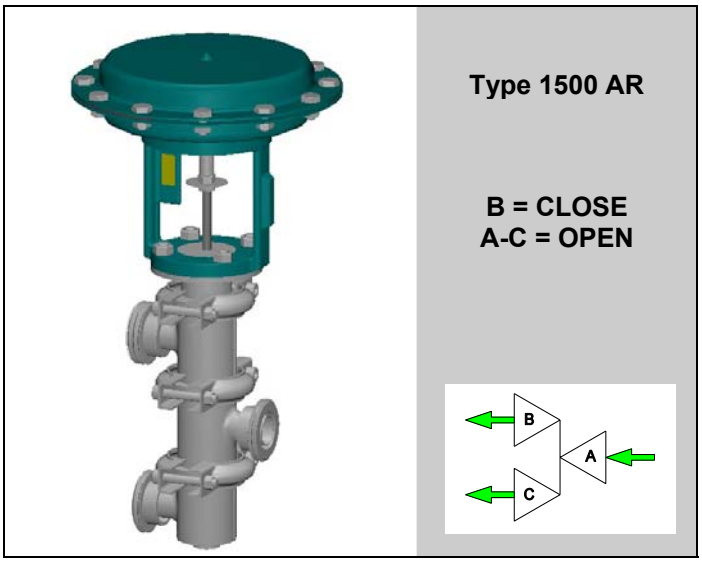


COMPONENTS	MATERIALS
1. Lower body	1. AISI 316 L St. steel
1a. Middle body	1a. AISI 316 L St. steel
1b. Upper body	1b. AISI 316 L St. steel
2. Metal seal plug	2. AISI 316 L St. steel
2a. Soft seal plug	2a. AISI 316 L St. steel
2b. Soft viton insert	2b. Viton FPM 70
2c. Upper plug profile	2c. AISI 316 L St. steel
3. Stem	3. AISI 316 L St. steel
4. Bonnet	4. AISI 316 L St. steel
5. Body gasket	5. Viton FPM 70
6. Clamp bolts	6. AISI 304 L St. steel
7. Clamp	7. AISI 304 L St. steel
8. Indicator bolts	8. AISI 304 L St. steel
9. Position indicator	9. AISI 304 L St. steel
10. Yoke gasket	10. Cork-rubber
11. Yoke bolts	11. DIN 933 galvanized steel or AISI 304 L St. steel
12. Lower diaphragm casing	12. P11 steel or AISI 304 L St. steel
13. Diaphragm	13. EPDM 70
14. Diaphragm casing locknuts	14. DIN 933 galvanized steel or AISI 304 L St. steel
15. Diaphragm plate	15. P01 steel
16. Upper diaphragm casing	16. P11 steel or AISI 304 L St. steel
17. Diaphragm bush	17. AISI 303 L St. steel
18. Diaphragm locknut	18. ISO 7380 galvanized steel
19. Springs	19. C98 UNI 3823
20. Diaphragm spacer	20. Galvanized steel
21. Diaphragm casing bolts	21. DIN 934 galvanized steel or AISI 304 L St. steel
22. Airtight	22. NBR
23. "O" ring	23. NBR
24. Diaphragm rod	24. AISI 303 L St. steel
25. Travel indicator plate	25. Policarbonate
26. Yoke	26. GGG50 or AISI 304 L St. steel
27. Stud-bolts	27. AISI 304 L St. steel
28. Yoke bolts	28. DIN 934 galvanized steel or AISI 304 L St. steel
29. "O" rings	29. Viton FPM 70

DIMENSIONS (See leaflet DIMHY/I/E)

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE WAY DIVERTING CONTROL VALVES PED 2014/68/UE



TYPE 1500 AR

Normally closed port "B" on air failure

DESCRIPTION

The 1500 "HYGIENIC" pneumatic control valves are with three way diverting body with revolving connections.
They are suggested for modulating service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. The three way diverting control valves are with one inlet port and two outlet ports with fluid opens. Modulating plug suitable for control of virtually all line media. Compact construction assembled with "UNIWORLD" multisprings pneumatic actuator having 3 - 15 psi …6 –18 psi… 6 – 30 psi standard control signals.
On request they can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- **Smooth welding caps according to DIN (Standard) A316 L**
- **Male tappared according to DIN 11851 A316L**
- **Female screwed according to DIN 11851 A316L**
- **Complete union according to DIN 11851 A316L**
- **Snap – clamp system according to DIN 405 A316L**
- **Flanged UNI 2277/78 PN 10-16 A316L**

MATERIALS OF BODY GROUP :

- **Stainless steel AISI 316 L – X2 Cr Ni Mo 1712 PN 10**
  Polished version or satin version

PLUG :

- **PL** = linear class IV°
- On request reduced bores and microflow

BONNET : Standard for temperature from -5 to + 160 °C

PACKING : N° 2 "O" rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : diaphragm type
- Control signals : 3-15 psi…6-18 psi …6-30 psi
- Max air supply pressure : 35 psi (2,5 bar)
- Ambient temperature : -20 ... +70 °C
- Painted actuator casing mat. : Fe P11
- S.S. actuator casing material : Stainless steel AISI 304
- Diaphragm material : EPDM 70
- Painted yoke material : GGG 50
- S.S. yoke material : Stainless steel CF8 (AISI 304)
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : 10 bar –15°C….+ 160°C
- Valve sizing : see leaflet 100/VP
- Rangeability : see leaflet GRAFICI/I

ON REQUEST :

- Soft viton insert ≤160°C class VI°
- Reduced bores (see below table)
- Pneumatic pilot positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro pneumatic pilot positioner 4-20 mA…4-12 mA..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve
- Top – work manual handweel

CV = american unit (flowrate in US GPM With 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15	DN 20	DN 25		DN 32		DN 40		DN 50		DN 65		DN 80		DN 100	
		Ø 1/2"	Ø 3/4"	Ø 1"		Ø 1.1/4"		Ø 1.1/2"		Ø 2"		Ø 2.1/2"		Ø 3"		Ø 4"	
PL	CV	5	8	13		18		26		45		72		105		160	
	KV	4.26	6.82	11.08		15.34		22.15		38.34		61.34		89.46		136.32	
Reduced bore*		n.a.	1/2"	1/2"	3/4"	3/4"	1"	1"	1.1/4"	1.1/4"	1.1/2"	1.1/2"	2"	2"	2.1/2"	2.1/2"	3"

n.a. = not applicable * CV and KV values are referred to the selected diameter and plug time (PL only)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

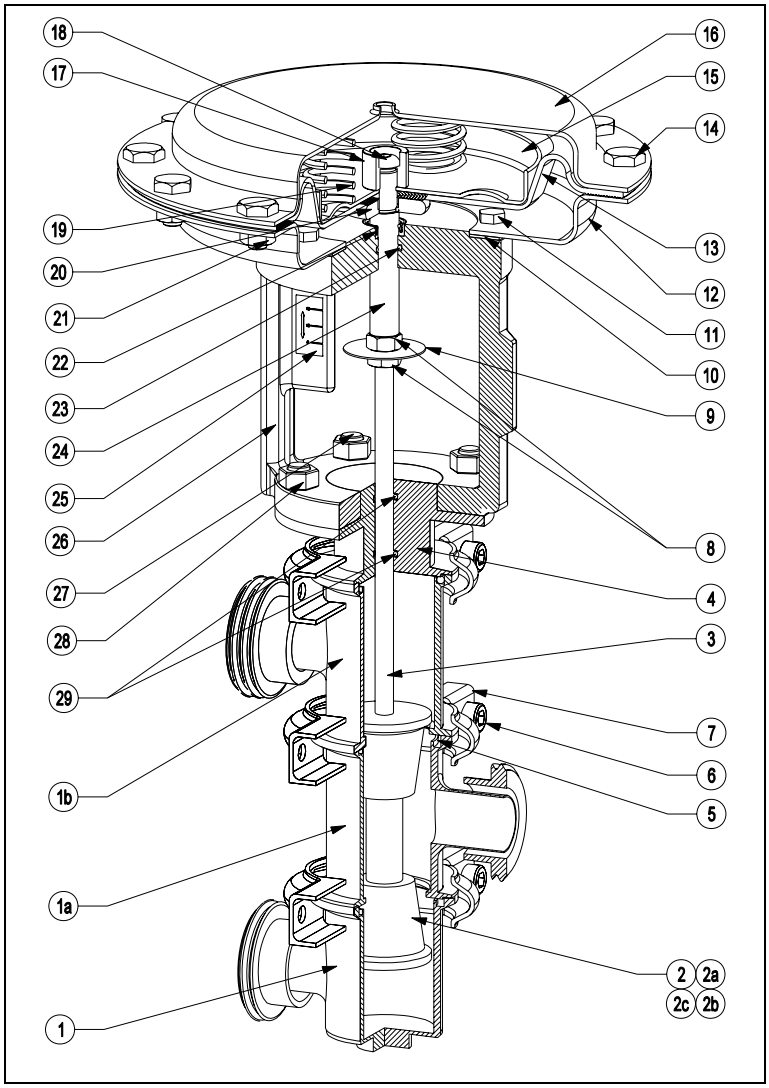
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Fax 039/654.018
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

Actuator Type	Signal psi	DN 15 Stroke 11	DN 20 Stroke 11	DN 25 Stroke 11	DN 32 Stroke 19	DN 40 Stroke 19	DN 50 Stroke 19	DN 65 Stroke 28	DN 80 Stroke 28	DN 100 Stroke 28
T200	3-15 psi	12	8	5	3	-	-	-	-	-
	6-18 psi	25	16	9	6	-	-	-	-	-
	6-30 psi	65	40	22	11	-	-	-	-	-
T250	3-15 psi	27	17	9	6	4	2.4	-	-	-
	6-18 psi	55	34	19	12	8	3	-	-	-
	6-30 psi	110	68	38	20	14.5	7	-	-	-
T310	3-15 psi	-	-	15.5	10	7	3.5	2.5	1.7	0.9
	6-18 psi	-	-	31	20	14	7	4.2	2.8	1.3
	6-30 psi	-	-	62	30	21	12	6.5	4.7	2.6
T400	3-15 psi	-	-	-	14.5	10.5	5	3.8	2.5	1.4
	6-18 psi	-	-	-	29.5	20.5	12	6.7	4	2.8
	6-30 psi	-	-	-	45	31.5	18	16	11	6.3
T500	3-15 psi	-	-	-	24.5	17.5	9.5	5.5	4.2	2.4
	6-18 psi	-	-	-	49	34.5	19.5	12.2	7	4.9
	6-30 psi	-	-	-	75	52.5	30.3	26	16	10.5

1. The values given are referred to the force of actuator and they can be used within the limit of the body rating.
2. The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
3. The actuator DELTA-PI given in the column 6-30 psi are also valid for ON-OFF service with air supply at 30/35 psi

COMPONENT LIST AND MATERIALS

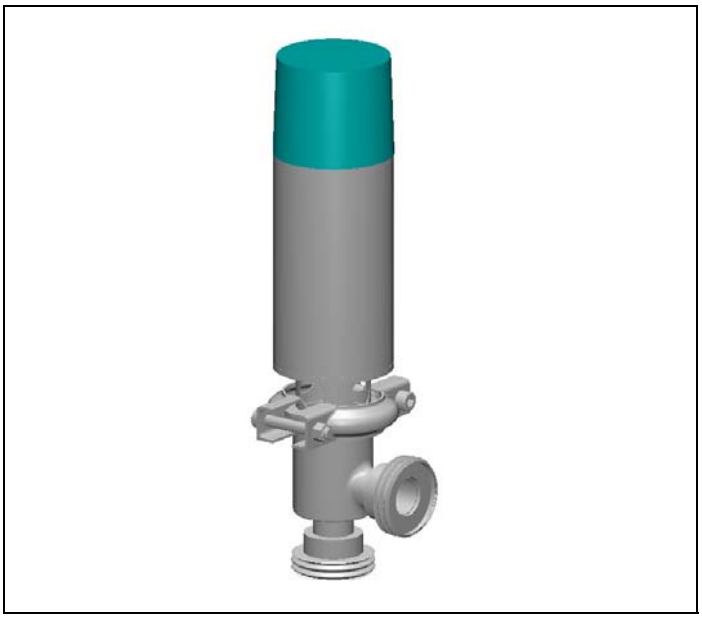


	COMPONENTS	MATERIALS
1.	Lower body	AISI 316 L St. steel
1a.	Middle body	AISI 316 L St. steel
1b.	Upper body	AISI 316 L St. steel
2.	Metal seal plug	AISI 316 L St. steel
2a.	Soft seal plug	AISI 316 L St. steel
2b.	Soft viton insert	Viton FPM 70
2c.	Upper plug profile	AISI 316 L St. steel
3.	Stem	AISI 316 L St. steel
4.	Bonnet	AISI 316 L St. steel
5.	Body gasket	Viton FPM 70
6.	Clamp bolts	AISI 304 L St. steel
7.	Clamp	AISI 304 L St. steel
8.	Indicator bolts	AISI 304 L St. steel
9.	Position indicator	AISI 304 L St. steel
10.	Yoke gasket	Cork-rubber
11.	Yoke bolts	DIN 933 galvanized steel or AISI 304 L St. steel
12.	Lower diaphragm casing	P11 steel or AISI 304 L St. steel
13.	Diaphragm	EPDM 70
14.	Diaphragm casing locknuts	DIN 933 galvanized steel or AISI 304 L St. steel
15.	Diaphragm plate	P01 steel
16.	Upper diaphragm casing	P11 steel or AISI 304 L St. steel
17.	Diaphragm bush	AISI 303 L St. steel
18.	Diaphragm locknut	ISO 7380 galvanized steel
19.	Springs	C98 UNI 3823
20.	Diaphragm spacer	Galvanized steel
21.	Diaphragm casing bolts	DIN 934 galvanized steel or AISI 304 L St. steel
22.	Airtight	NBR
23.	“O” ring	NBR
24.	Diaphragm rod	AISI 303 L St. steel
25.	Travel indicator plate	Policarbonate
26.	yoke	GGG50 or AISI 304 L St. steel
27.	Stud-bolts	AISI 304 L St. steel
28.	Yoke bolts	DIN 934 galvanized steel or AISI 304 L St. steel
29.	“O” rings	Viton FPM 70

DIMENSIONS (See leaflet DIMHY/I/E)

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SINGLE SEAT TWO WAYS – ON - OFF PED 2014/68/UE



TYPE 1300 AD Direct Action
Opens on air failure

TYPE 1300 AR Reverse Action
Closes on air failure

TYPE 1300 DE Double Action
No air failure position

DESCRIPTION

Type 1300 "HYGIENIC" two ways pneumatic on – off valves are with two square ways with revolving connections.
They are suggested for ON - OFF service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. They are fitted with plug for on – off service (quick opening) with viton soft insert for a total shut-off. Compact construction assembled with a cylinder actuator with a signal range of 5 to 6 bar.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- **Smooth welding caps according to DIN (Standard) A316 L**
- **Male tappared according to DIN 11851 A316L**
- **Female screwed according to DIN 11851 A316L**
- **Complete union according to DIN 11851 A316L**
- **Snap – clamp system according to DIN 405 A316L**
- **Flanged UNI 2277/78 PN 10-16 A316L**

MATERIALS OF BODY GROUP :

- **Stainless steel AISI 316 L – X2 Cr Ni Mo 1712 PN 10**
  Polished version or satin version

PLUG :

- **PT** = quick lift for on – off service with viton FPM 70 soft insert

PACKING : N° 2 "O" rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : piston
- Control signals : 5-6 bar
- Max air supply pressure : 8 bar
- Ambient temperature : -20°C…..+70°C
- Actuator material : Stainless steel 1.3401
- Cylinder upper cover : PVC
- Pneumatic connections : 1/8" NPT

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : 10 bar –15°C….+ 160°C
- Valve sizing : see leaflet 100/VP

ON REQUEST :

- Proximity limit switches
- 3-way solenoid valve

CV = american unit (flowrate in US GPM With 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2"	DN 20 Ø 3/4"	DN 25 Ø 1"	DN 32 Ø 1.1/4"	DN 40 Ø 1.1/2"	DN 50 Ø 2"	DN 65 Ø 2.1/2"	DN 80 Ø 3"	DN 100 Ø 4"
PT	CV	6	9	14	20	29	48	82	117	187
	KV	5.2	7.8	12.0	17.2	24.9	41.3	70.5	100.6	160.8

CONFLOW s.p.a.

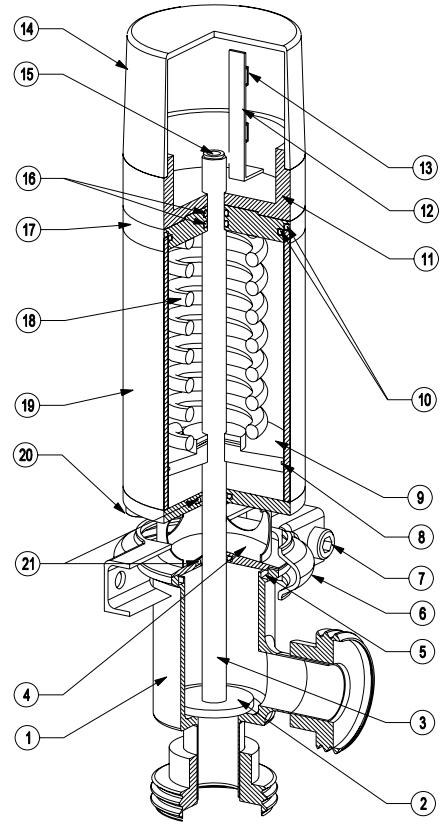
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Fax 039/654.018
www.conflow .it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)

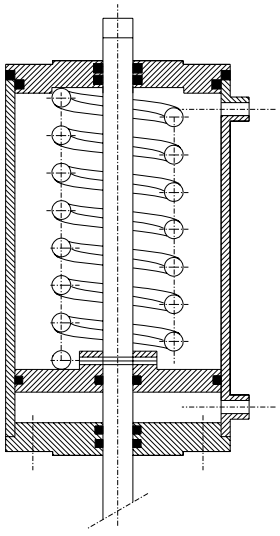
TYPE OF FUNCTION		NORMALLY OPEN	NORMALLY CLOSED	DOUBLE ACTION
Air Pressure (bar)		5 - 6		
DN	CYLINDER ACTUATOR SIZE	Maximum permissible pressure drops in Kg/cm2		
15	70	19	19	19
20	70	13	13	13
25	70	7	7	7
32	90	9	9	9
40	90	6	6	6
50	90	5.5	5.5	5.5
65	100	5.5	5.5	5.5
80	140	5	5	5
100	140	4	4	4

COMPONENT LIST AND MATERIALS



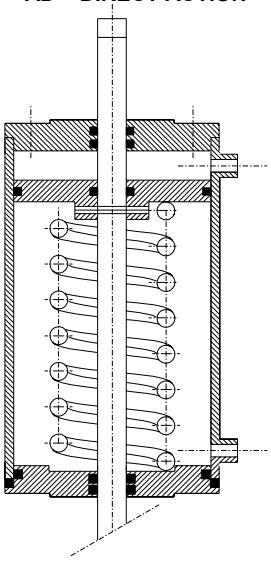
	COMPONENTS	MATERIALS
1.	Body	AISI 316 L St. Steel
2.	Soft seal plug	AISI 316 L St. Steel + Viton FPM 70
3.	Stem	AISI 316 L St. Steel
4.	Upper body	AISI 316 L St. Steel
5.	Body gasket	Viton FPM 70
6.	Clamp	AISI 304 St. Steel
7.	Clamp bolts	AISI 304 St. Steel
8.	Cylinder O-Rings	NBR
9.	Piston	Anticorodal
10.	External O-Rings	Viton FPM 70
11.	Cover basis	AISI 316 L St. Steel
12.	Limit switches bracket	Anticorodal
13.	Limit switches	/
14.	Cylinder upper cover	PVC
15.	Feeler	PVC
16.	Internal O-Rings upper stem	Viton FPM 70
17.	Upper flange	AISI 304 St. Steel
18.	Spring	C98 UNI 3823
19.	Cylinder	AISI 304 St. Steel
20.	Cylinder locknuts	AISI 304 St. Steel
21.	O-rings aseptic room	Viton FPM 70

AR – REVERSE ACTION



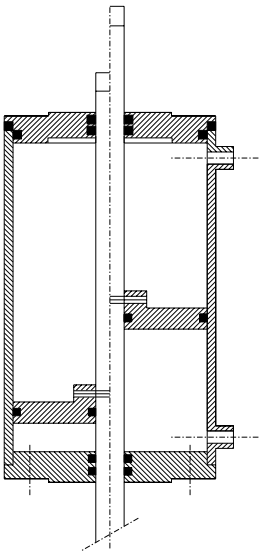
Air connection 1/8" NPT

AD – DIRECT ACTION



Air connection 1/8" NPT

DE – DOUBLE EFFECT

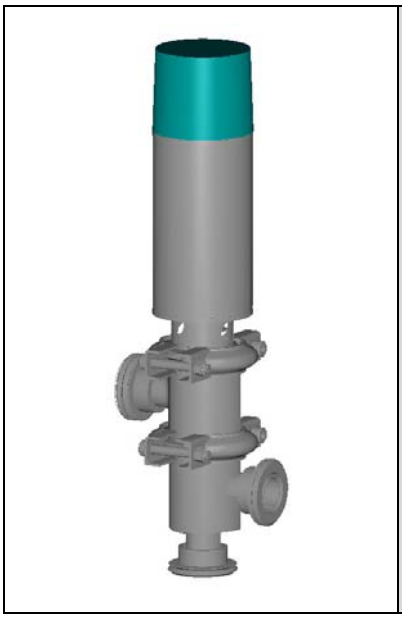


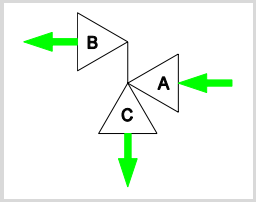
Air connection 1/8" NPT

DIMENSIONS (See leaflet DIMHY/I/E)

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.

THREE WAYS ON – OFF DIVERTING SERVICE PED 2014/68/UE





TYPE 1800 AD Direct action

n.c. B and open A - C

TYPE 1800 AR Reverse action

n.o. A - B and closed C

TYPE 1800 DE Double effect

No air failure position

DESCRIPTION

Type 1800 diverting service on – off valves are with three square ways with revolving connections.
They are suggested for ON - OFF service in food and pharmaceutical where very high levels of flexibility and hygienic conditions are normally required. They are fitted with plug for on – off service (quick opening) with viton soft insert for a total shut-off. Compact construction assembled with a cylinder actuator with a signal range of 5 to 6 bar.

SIZES : from DN 15 to DN 100

BODY CONNECTIONS :

- **Smooth welding caps according to DIN (Standard) A316 L**
- **Male tappared according to DIN 11851 A316L**
- **Female screwed according to DIN 11851 A316L**
- **Complete union according to DIN 11851 A316L**
- **Snap – clamp system according to DIN 405 A316L**
- **Flanged UNI 2277/78 PN 10-16 A316L**

MATERIALS OF BODY GROUP :

- **Stainless steel AISI 316 L – X2 Cr Ni Mo 1712 PN 10**
  Polished version or satin version

PLUG :

- **PT** = quick lift for on – off service with viton FPM 70 soft insert

PACKING : N° 2 “O” rings FPM 70 ≤ 160°C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:

- Actuator : piston
- Control signals : 5-6 bar
- Max air supply pressure : 8 bar
- Ambient temperature : -20°C…..+70°C
- Actuator material : Stainless steel 1.3401
- Cylinder upper cover : PVC
- Connessioni pneumatiche : 1/8” NPT

MAX WORKING CONDITIONS :

- Max inlet pressure and temperature : 10 bar –15°C….+ 160°C
- Valve sizing : see leaflet 100/VP

ON REQUEST :

- Proximity limit switches
- 3-way solenoid valve

CV = american unit (flowrate in US GPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plug Full bore		DN 15 Ø 1/2”	DN 20 Ø 3/4”	DN 25 Ø 1”	DN 32 Ø 1.1/4”	DN 40 Ø 1.1/2”	DN 50 Ø 2”	DN 65 Ø 2.1/2”	DN 80 Ø 3”	DN 100 Ø 4”
PT	CV	6	9	14	20	29	48	82	117	187
	KV	5.2	7.8	12.0	17.2	24.9	41.3	70.5	100.6	160.8

CONFLOW s.p.a.

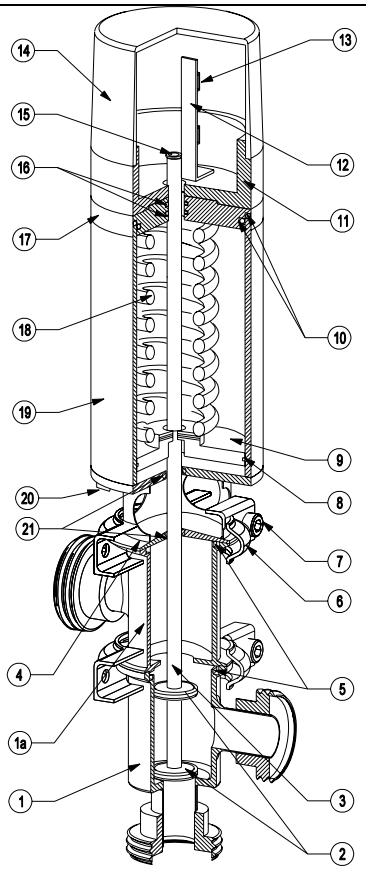
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Fax 039/654.018
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Maximum permissible pressure drops in Kg/cm2 (fluid opens)

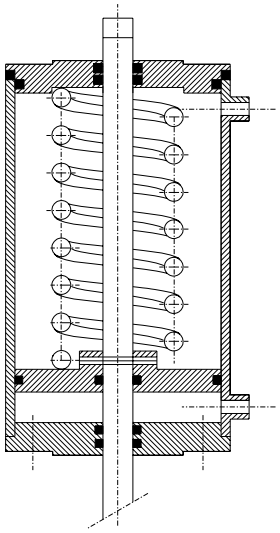
TYPE OF FUNCTION		NORMALLY OPEN	NORMALLY CLOSED	DOUBLE ACTION
Air Pressure (bar)		5 - 6		
DN	CYLINDER ACTUATOR SIZE	Maximum permissible pressure drops in Kg/cm2		
15	70	19	19	19
20	70	13	13	13
25	70	7	7	7
32	90	9	9	9
40	90	6	6	6
50	90	5.5	5.5	5.5
65	100	5.5	5.5	5.5
80	140	5	5	5
100	140	4	4	4

COMPONENT LIST AND MATERIALS



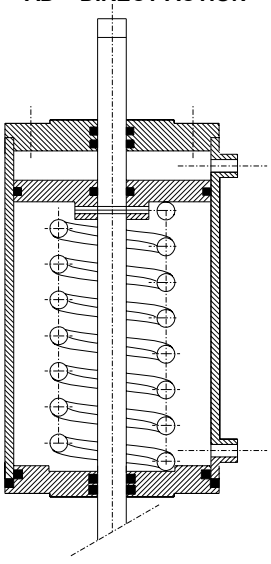
	COMPONENTS	MATERIALS
1.	Lower body	AISI 316 L St. Steel
1a.	Upper body	AISI 316 L St. Steel
2.	Soft seal plug	AISI 316 L St. Steel + Viton FPM 70
3.	Stem	AISI 316 L St. Steel
4.	Upper body	AISI 316 L St. Steel
5.	Body gasket	Viton FPM 70
6.	Clamp	AISI 304 St. Steel
7.	Clamp bolts	AISI 304 St. Steel
8.	Cylinder O-Rings	NBR
9.	Piston	Anticorodal
10.	External O-Rings	Viton FPM 70
11.	Cover basis	AISI 316 L St. Steel
12.	Limit switches bracket	Anticorodal
13.	Limit switches	/
14.	Cylinder upper cover	PVC
15.	Feeler	PVC
16.	Internal O-Rings upper stem	Viton FPM 70
17.	Upper flange	AISI 304 St. Steel
18.	Spring	C98 UNI 3823
19.	Cylinder	AISI 304 St. Steel
20.	Cylinder locknuts	AISI 304 St. Steel
21.	O-rings aseptic room	Viton FPM 70

AR – REVERSE ACTION



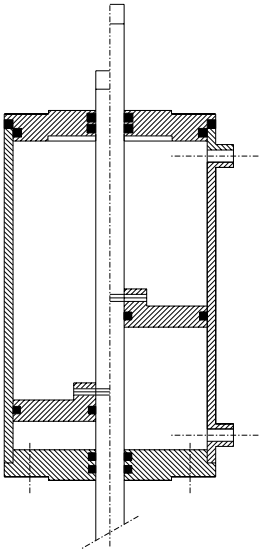
Air connection 1/8” NPT

AD – DIRECT ACTION



Air connection 1/8” NPT

DE – DOUBLE EFFECT



Air connection 1/8” NPT

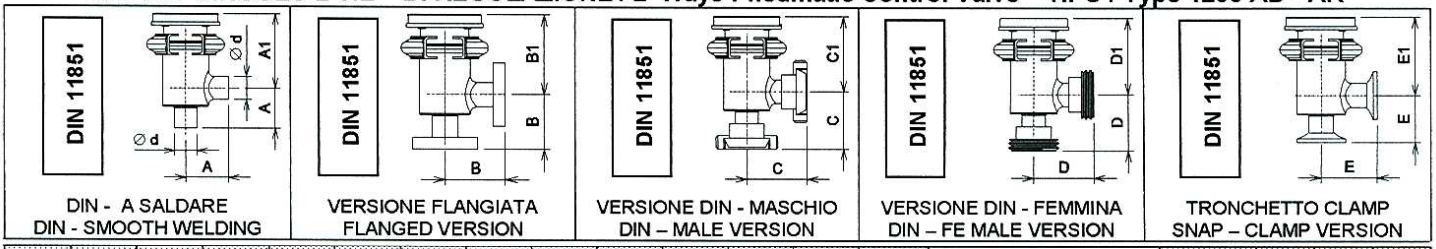
DIMENSIONS (See leaflet DIMHY/I/E)

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it

DIMENSIONI DI INGOMBRO / Dimensions (mm)

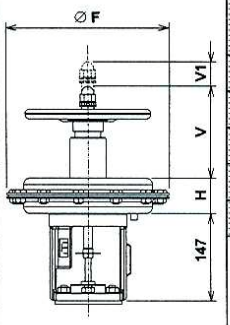
DIMHY/I/E	
01	2004

SEGGIO SINGOLO 2 VIE – DI REGOLAZIONE / 2 Ways Pneumatic Control Valve TIPO / Type 1200 AD - AR



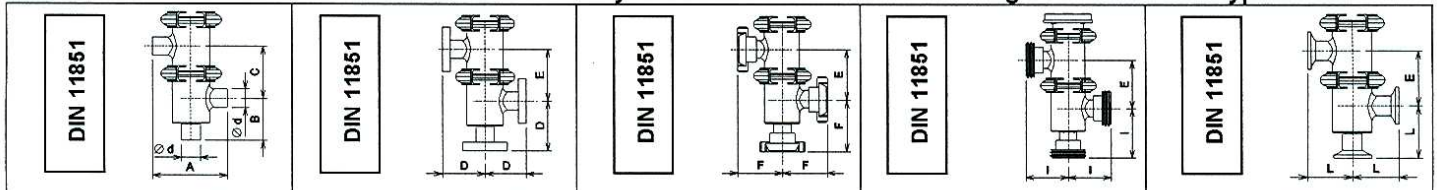
DIN - A SALDARE / DIN - SMOOTH WELDING | VERSIONE FLANGIATA / FLANGED VERSION | VERSIONE DIN - MASCHIO / DIN – MALE VERSION | VERSIONE DIN - FEMMINA / DIN – FE MALE VERSION | TRONCHETTO CLAMP / SNAP – CLAMP VERSION

DN	Ø	A	A1	Ø d	B	B1	C	C1	D	D1	E	E1	V1
15	½"	38	66	18	65	66	43	66	47	66	50.7	66	11
20	¾"	38	66	22	70	66	44	66	50	66	50.7	66	11
25	1"	52	68	28	75	68	59	68	66	68	64.7	68	11
32	1 ¼"	56	71	34	90	71	63	71	70	71	68.7	71	19
40	1 ½"	64	75.5	40	95	75.5	70	75.5	77	75.5	76.7	75.5	19
50	2"	72	76	52	105	66	78	66	85	66	84.7	66	19
65	2 ½"	86	78	70	115	78	93	78	101	78	98.7	78	28
80	3"	109	89.5	85	125	89.5	116	89.5	125	89.5	121.7	89.5	28
100	4"	119	98	101.6	135	98	126	98	137	98	131.7	98	28



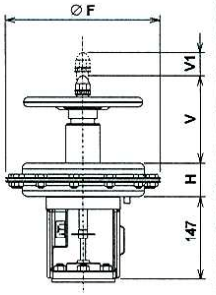
Servom.	H	V	Ø F
T200	70	166	210
T250	70	166	292
T310	95	166	336
T400	119	166	408
T500	119	166	520

TRE VIE MISCELATRICE–DI REGOLAZIONE / 3 Ways Pneumatic Control Valve Mixing Service TIPO / Type 1400 AD-AR



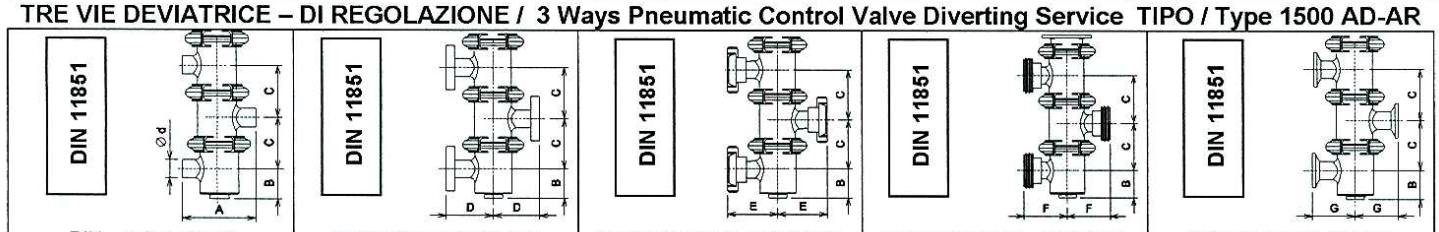
DIN - A SALDARE / DIN - SMOOTH WELDING | VERSIONE FLANGIATA / FLANGED VERSION | VERSIONE DIN - MASCHIO / DIN – MALE VERSION | VERSIONE DIN - FEMMINA / DIN – FE MALE VERSION | TRONCHETTO CLAMP / SNAP – CLAMP VERSION

DN	Ø	A	B	C	Ø d	D	E	F	I	L	V1
15	½"	76	38	66	18	65	66	43	47	50.7	11
20	¾"	76	38	66	22	70	66	44	50	50.7	11
25	1"	104	52	72	28	75	72	59	66	64.7	11
32	1 ¼"	112	56	76	34	90	76	63	70	68.7	19
40	1 ½"	128	64	86	40	95	86	70	77	76.7	19
50	2"	144	72	96	52	105	96	78	85	84.7	19
65	2 ½"	172	86	114	70	115	114	93	101	98.7	28
80	3"	218	109	135	85	125	135	116	125	121.7	28
100	4"	238	119	152	101.6	135	152	126	137	131.7	28



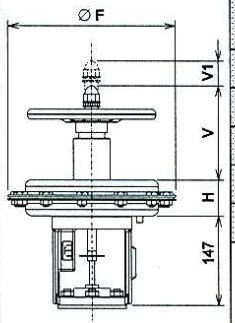
Servom.	H	V	Ø F
T200	70	166	210
T250	70	166	292
T310	95	166	336
T400	119	166	408
T500	119	166	520

TRE VIE DEVIATRICE – DI REGOLAZIONE / 3 Ways Pneumatic Control Valve Diverting Service TIPO / Type 1500 AD-AR



DIN - A SALDARE / DIN - SMOOTH WELDING | VERSIONE FLANGIATA / FLANGED VERSION | VERSIONE DIN - MASCHIO / DIN – MALE VERSION | VERSIONE DIN - FEMMINA / DIN – FE MALE VERSION | TRONCHETTO CLAMP / SNAP – CLAMP VERSION

DN	Ø	A	B	C	Ø d	D	E	F	G	V1
15	½"	76	14	66	18	65	43	47	50.7	11
20	¾"	76	16	66	22	70	44	50	50.7	11
25	1"	104	22	72	28	75	59	66	64.7	11
32	1 ¼"	112	25	78	34	90	63	70	68.7	19
40	1 ½"	128	28	86	40	95	70	77	76.7	19
50	2"	144	34	96	52	105	78	85	84.7	19
65	2 ½"	172	45	114	70	115	93	101	98.7	28
80	3"	218	54	135	85	125	116	125	121.7	28
100	4"	238	61	152	101.6	135	126	137	131.7	28



Servom.	H	V	Ø F
T200	70	166	210
T250	70	166	292
T310	95	166	336
T400	119	166	408
T500	119	166	520

CONFLOW s.p.a.

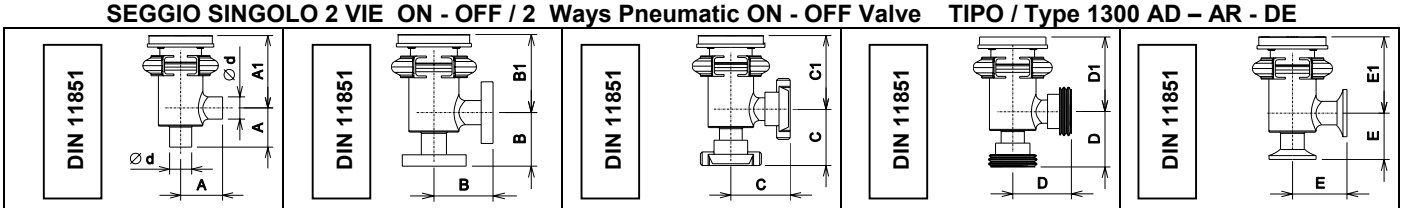
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

Via Lecco, 69/71
20041 AGRATE BRIANZA (MI)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Serie **HYGIENIC** Series **DIMENSIONI DI INGOMBRO / Dimensions (mm)**

DIMHY/I/E	
01	2004

SEGGIO SINGOLO 2 VIE ON - OFF / 2 Ways Pneumatic ON - OFF Valve TIPO / Type 1300 AD – AR - DE



DIN - A SALDARE
DIN - SMOOTH WELDING

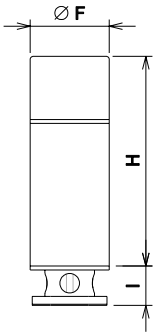
VERSIONE FLANGIATA
FLANGED VERSION

VERSIONE DIN - MASCHIO
DIN – MALE VERSION

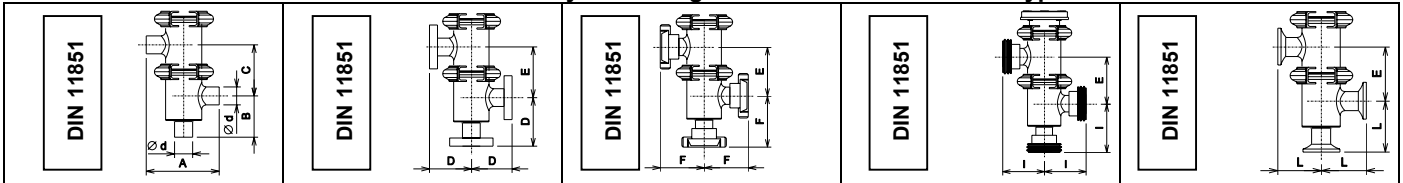
VERSIONE DIN - FEMMINA
DIN – FE MALE VERSION

TRONCHETTO CLAMP
SNAP – CLAMP VERSION

DN	Ø	A	A1	Ø d	B	B1	C	C1	D	D1	E	E1	Ø F	H	I
15	½"	38	66	18	65	66	43	66	47	66	50.7	66	70	230	25
20	¾"	38	66	22	70	66	44	66	50	66	50.7	66	70	230	25
25	1"	52	68	28	75	68	59	68	66	68	64.7	68	70	230	29
32	1 ¼"	56	71	34	90	71	63	71	70	71	68.7	71	88.9	272	42
40	1 ½"	64	75.5	40	95	75.5	70	75.5	77	75.5	76.7	75.5	88.9	272	42
50	2"	72	76	52	105	66	78	66	85	66	84.7	66	88.9	272	42
65	2 ½"	86	78	70	115	78	93	78	101	78	98.7	78	101.6	291	42
80	3"	109	89.5	85	125	89.5	116	89.5	125	89.5	121.7	89.5	141.3	315	55
100	4"	119	98	101.6	135	98	126	98	137	98	131.7	98	141.3	315	55



TRE VIE DEVIATRICE ON - OFF / 3 Ways Diverting Service ON - OFF TIPO / Type 1800 AD - AR - DE



DIN - A SALDARE
DIN - SMOOTH WELDING

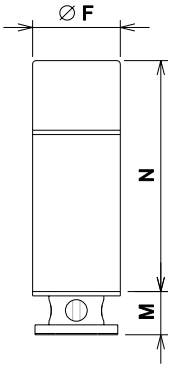
VERSIONE FLANGIATA
FLANGED VERSION

VERSIONE DIN - MASCHIO
DIN – MALE VERSION

VERSIONE DIN - FEMMINA
DIN – FE MALE VERSION

TRONCHETTO CLAMP
SNAP – CLAMP VERSION

DN	Ø	A	B	C	Ø d	D	E	F	I	L	Ø F	M	N
15	½"	76	38	66	18	65	66	43	47	50.7	70	230	25
20	¾"	76	38	66	22	70	66	44	50	50.7	70	230	25
25	1"	104	52	72	28	75	72	59	66	64.7	70	230	29
32	1 ¼"	112	56	76	34	90	76	63	70	68.7	88.9	272	42
40	1 ½"	128	64	86	40	95	86	70	77	76.7	88.9	272	42
50	2"	144	72	96	52	105	96	78	85	84.7	88.9	272	42
65	2 ½"	172	86	114	70	115	114	93	101	98.7	101.6	291	42
80	3"	218	109	135	85	125	135	116	125	121.7	141.3	315	55
100	4"	238	119	152	101.6	135	152	126	137	131.7	141.3	315	55



SINGLE SEAT TWO WAY CONTROL VALVES PED 2014/68/UE



TYPE 2500 AR
Normally closed – Air opens

TIPO 2500 AD
Normally open – Air closes

DESCRIPTION

The PTFE series type 2500 AD/Arare made of PTFE rod, are equipped with two ways "straight-through" pattern body with NPT connections.
Are recommended in chemical applications as the body is a strong acid resistant.
Modulating PTFE plug suitable for control of virtually all line media.
Compact construction available in Ø ½" – ¾" – 1" diameters, and assembled with multispring pneumatic actuator having 3-15 psi standard control signal. On request the valve can be equipped with a pneumatic or electro-pneumatic pilot positioner.

SIZES : from Ø 1/2" to Ø 1"

BODY CONNECTIONS :
- NPT Female Screwed

BODY and INSIDE PARTS MATERIAL :
- PTFE 100 %

PLUGS :
- **PL** = linear class VI°
- **EQP** = equal percentage class VI°
- On request reduced bore or microflow (•)

BONNET : Standard for temperature from –5 to + 99 °C screwed on body valve to ensure a perfect seal independently of the tightening of the castle

PREMISTOPPA : PTFE 100% rings for temperature ≤ 99 °C

TECHNICAL CHARACTERISTICS OF PNEUMATIC ACTUATOR:
- Actuator : diaphragm type
- Control signal : 3-15 psi
- Max air supply pressure : 18 psi (1,28 bar)
- Ambient temperature : -20 ... +70 °C
- Actuator casing materials : Stainless Steel AISI 304
- Diaphragm material : EPDM 70
- Yoke material : St. Steel CF8 (AISI 304)
- Pneumatic connections : ISO 7 Rp – 1/8"

MAX WORKING CONDITIONS :
- Max inlet pressure and temperature : 6 bar - 5°C….+ 99 °C
- Valve sizing : see spec. 100/VP
- Rangeability : see spec. GRAFICI/I

ON REQUEST :
- Reduced bore (see below table)
- Pneumatic Pilot Positioner 3-15 psi … 3-9 psi … 9-15 psi
- Electro-pneumatic pilot positioner 4-20 mA ..4-12 mA ..12-20 mA
- Air filter regulator
- Proximity limit switches
- 3-way solenoid valve

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

Plugs Full bore		Ø 1/2"	Ø 3/4"	Ø 1"
PL	CV	3,01	4,70	5,39
	KV	2,59	4,05	4,65
EQP	CV	3,01	4,70	5,39
	KV	2,59	4,05	4,65
Red. bore*		See below	See below	See below

(•) MICROFLOW BORE TABLE

Ø1/2 – 3/4 – 1"	MFP 1/8"	MFP 3/16"	MFP 1/4"	MFP 3/8"	MFS1SG 1/4"	MFS2SG 1/4"	MFS1SG 3/8"	MFS2SG 3/8"
CV	0.26	0.71	1.28	2.62	0.65	1.21	1.22	2.25
KV	0.22	0.61	1.10	2.26	0.56	1.04	1.05	1.94

MFP = Linear.MFS = equal percentage * CV and KV values are referred to the selected diameter and plug type PL / EQP only.

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

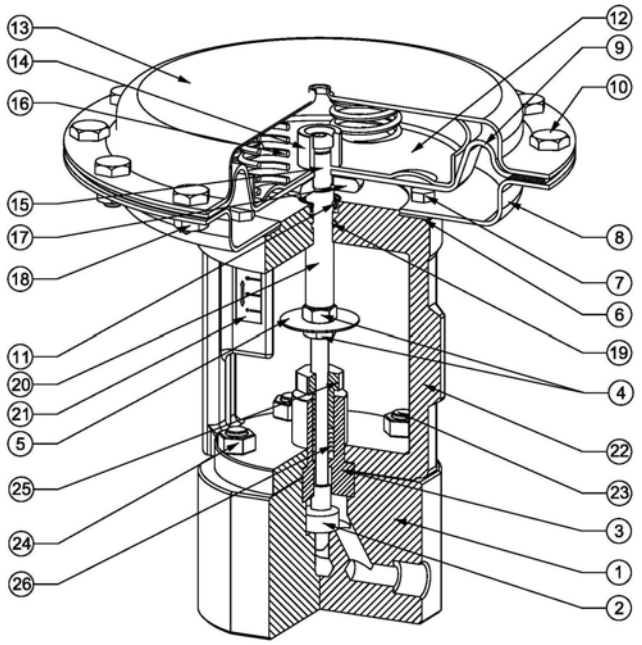
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
e-mail : sales@conflow.it
www.conflow.it

Maximum permissible pressure drops in Kg/cm2 (fluid opens)
Strokes in mm – Signals in psi

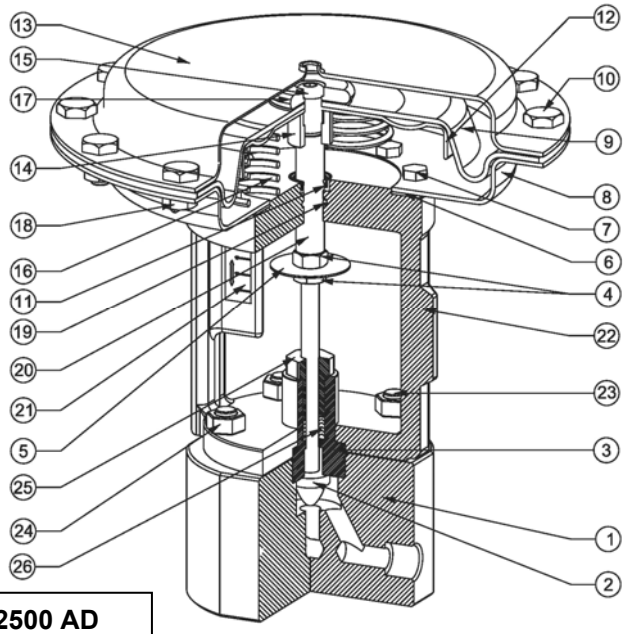
Actuator type	Signal psi	Ø 1/2 “ Stroke 11	Ø 3/4 “ Stroke 11	Ø 1 “ Stroke 11
T200	3-15 psi	12	8	6

1 The actuator DELTA-PI (PRESSURE DROPS with CLOSED VALVE) are obtained without a residual thrust of air into the actuator
2. The actuator DELTA-PI “AD” version (PRESSURE DROPS with CLOSED VALVE) into the 3-15 psi column are obteined by a thrust of 18 psi.
3. The values given are referred to the force of actuator and they can be used within the limit of the body rating

COMPONENTS LIST AND MATERIAL



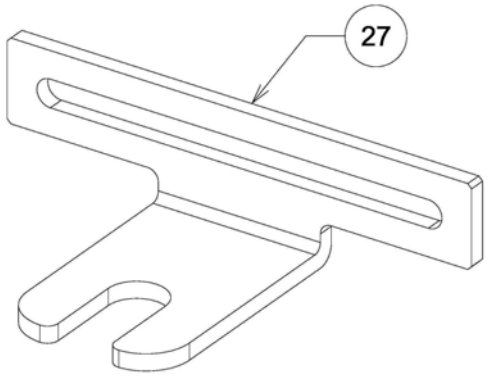
2500 AR



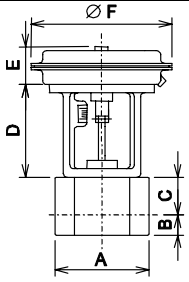
2500 AD

COMPONENTS LIST		MATERIALS	
1.	Body	1.	PTFE
2.	Plug with integrated stem	2.	PTFE
3.	Bonnet	3.	PTFE
4.	Position indicator bolts	4.	St. Steel AISI 304
5.	Position indicator	5.	Alluminium
6.	Yoke gasket	6.	Cork - Rubber
7.	Lower diaphragm casing internal bolts	7.	St. Steel AISI 304
8.	Lower diaphragm casing	8.	St. Steel AISI 304
9.	Diaphragm	9.	EPDM 70
10.	Diaphragm casing locknuts	10.	St. Steel AISI 304
11.	Airtight	11.	NBR
12.	Diaphragm plate	12.	Fe P01
13.	Upper diaphragm casing	13.	St. Steel AISI 304
14.	Diaphragm bush	14.	St. Steel AISI 303
15.	Diaphragm locknut	15.	St. Steel AISI 304
16.	Springs	16.	C98 UNI 3823
17.	Diaphragm spacer	17.	Galvanized steel
18.	Diaphragm casing bolts	18.	St. Steel AISI 304
19.	“O” ring	19.	NBR
20.	Diaphragm rod	20.	St. Steel AISI 303
21.	Travel indicator plate	21.	Policarbonate
22.	Yoke	22.	St. Steel AISI 304
23.	Stud-bolts	23.	St. Steel AISI 304
24.	Yoke locknuts	24.	St. Steel AISI 304
25.	Packing adjusting nut	25.	PTFE
26.	Packing rings	26.	“V” PTFE
27.	Positioner bracket	27.	St. Steel AISI 304

VALVES TYPE 2500 AD/AR ARE EQUIPPED WITH BRACKET POSITIONER



DIMENSIONS in mm.



Ø	A	B	C	D
1/2 “	130	26	59	147
3/4 “	130	26	59	147
1 “	130	26	59	147

Actuator	E	Ø F
T 200	70	210

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice
All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it .

POSIZIONATORI PNEUMATICI LINEARI
PNEUMATIC LINEAR POSITIONERS

PPL/I/E	
11	2006

Power Genex ®



TIPO / TYPE PPL CE

TIPO / TYPE PPL-EX Ex

DESCRIZIONE

Si tratta di un posizionatore a semplice e doppio effetto con segnale in entrata 3-15 psi per il controllo proporzionale di attuatori lineari. L' apparecchio confronta il segnale proveniente dall'unità regolante con la posizione della leva di feedback collegata allo stelo dell'otturatore. La comparazione tra queste due forze genera una pressione di uscita che agisce direttamente sulla membrana dell'attuatore.

DESCRIPTION

It's a simple or double acting positioner with input signal 3-15 psi for proportional control of pneumatic linear actuators. The positioners operate by comparision of the signal, coming from the control unit, with the position of feedback lever joined to the valves stem. An amplified pressure, generates by the comparision of these two forces, operates directly on actuator diaphragm.

CARATTERISTICHE :

- Facile manutenzione
- Calibrazione precisa con aggiustaggio dello ZERO e dello SPAN
- Semplice inversione dell'azione diretta e/o rovescia
- Esecuzione universale per tutti i tipi di corsa
- Split range aggiustabile senza cambio molla
- Design resistente alle vibrazioni
- Valvola pilota con kit di orifizi per piccoli attuatori

FEATURES :

- Easy maintenance
- Precise calibration with simple SPAN and ZERO adjustments
- Simple conversion to direct acting or reverse acting
- Universal execution for all types of stroke
- Split range adjustable with same spring
- Vibration resistant design
- Restricted pilot valve orifice kit for small actuators included

MATERIALI :

Cassa	Alluminio pressofuso verniciata epoxy colore nero
Coperchio	Alluminio pressofuso verniciato epoxy colore grigio chiaro
Staffa Posizionatore NAMUR IEC 534	Acciaio carbonio verniciato epoxy colore nero
Manometri	Acciaio Inox

MATERIALS :

Body	Die casting alluminium epoxy painted black colour
Cover	Die casting alluminium epoxy painted light grey colour
NAMUR mounting bracket IEC 534	Carbon steel epoxy painted black colour
Pressure Gauges	Stainless Steel

DATI TECNICI :

Protezione Std Tipo PPL	CE Waterproof IP 66
ATEX 94/9/CE Tipo PPL-EX	CE II2GDc IICX Ex -20°C≤Ta≤+80°C
Segnale di Ingresso	3 - 15 psi … 0.2 – 1.0 bar
Split range	Disponibile
Alimentazione Aria	1.4 … 7 bar (20 … 100 psi)
Corsa Nominale	10 … 80 mm Unica molla
Connessioni Pneumatiche	1/4" NPT
Temperatura Ambiente	-20 ° … +80 °C
Linearità	Entro +/- 1.0 % fondo scala
Sensibilità	Entro 0.2 % fondo scala
Isteresi	Entro 0.5 % fondo scala
Ripetibilità	Entro +/- 0.5 % fondo scala
Consumo d'aria	5 LPM (supply 1.4 bar)
Capacità	80 LPM (supply 1.4 bar)
Peso	2.1 Kg

TECHINICAL DATA :

Standard Protection Type PPL	CE Waterproof IP 66
ATEX 94/9/CE Type PPL-EX	CE II2GDc IICX Ex -20°C≤Ta≤+80°C
Input Signal	3 - 15 psi … 0.2 – 1.0 bar
Split range	Available
Supply Air Pressure	1.4 … 7 bar (20 … 100 psi)
Standard stroke	10 … 80 mm Unic spring
Pneumatic connections	1/4" NPT
Ambient Temperature	-20 ° … +80 °C
Linearity	Within +/- 1.0 % F.S.
Sensitivity	Within 0.2 % F.S.
Hysteresis	Within 0.5 % F.S.
Repeatibility	Within +/- 0.5 % F.S.
Air consumption	5 LPM (supply 1.4 bar)
Flow capacity	80 LPM (supply 1.4 bar)
Weight	2.1 Kg

ACCESSORI (* inclusi • a richiesta) :

Staffa / Blocchetto per valvola *	Acciaio Inox AISI 304
Leva corsa 80-150 mm *	Acciaio Inox AISI 304
Trasmettitore di posizione • Solo versione standd Tipo PPL-T	4-20 mA (Supply Volt 24 V cc)

ACCESSORIES (* included • on request):

Valve stem Joint *	Stainless steel AISI 304
Lever stroke 80-150 mm *	Stainless steel AISI 304
Position Transmitter • Only std version Type PPL-T	4-20 mA (Supply Volt 24 Vdc)

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

Via Lecco 69/71
20041 AGRATE BRIANZA (MI)
Tel. +39 - 039.656790/650397
Fax. +39 - 039.654018
www.conflow.it

INVERSIONE AZIONE - SEGNALE :

I posizi onatori vengo no forniti pe r il funzi onamento in azione diretta, qualora si voglia invertire l'a zione è sufficiente togliere il tappo dall'uscita "OUT2" e inserirlo nell'uscita "OUT1".

REVERSE SIGNAL ACTING :

The positioners are normally supplied for direct action. In ca se the reverse a ction is re quired, remove the pl ug from "OUT 2" and put it on the "OUT 1"

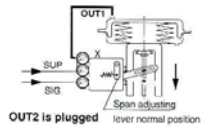
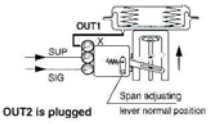
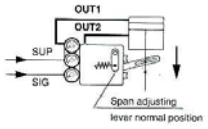
FUNZIONAMENTO A DOPPIO EFFETTO :

E' possi bile utilizzare i po sizionatori sia come semplice effetto sia come do ppio effetto. Usa ndo la fu nzione doppio effetto su valvole sem plice eff etto è po ssibile aumentare la spinta sul servomotore.

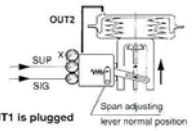
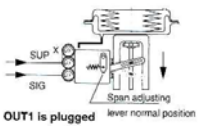
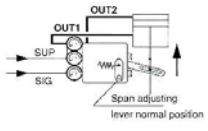
DOUBLE ACTING OPERATION :

The po sitioners a re engi neered to ope rate as sin gle or double acting operation.
Using the d ouble effect on simple effect valves it's possible to improve the control valves operations.

POSIZIONATORE - ATTUATORE

All'aumentare del segnale in ingresso lo stelo valvola si muove dall'alto verso il basso Attuatore : **AD** Connessione : **Out 1**		As the input signal increases valve stem moves downwards Actuator : **AD** Connection : **Out 1**
All'aumentare del segnale in ingresso lo stelo valvola si muove dal basso verso l'alto Attuatore : **AR** Connessione : **Out 1**		As the input signal increases valve stem moves upwards Actuator : **AR** Connection : **Out 1**
All'aumentare del segnale in ingresso lo stelo valvola si muove dall'alto verso il basso		As the input signal increases valve stem moves downwards

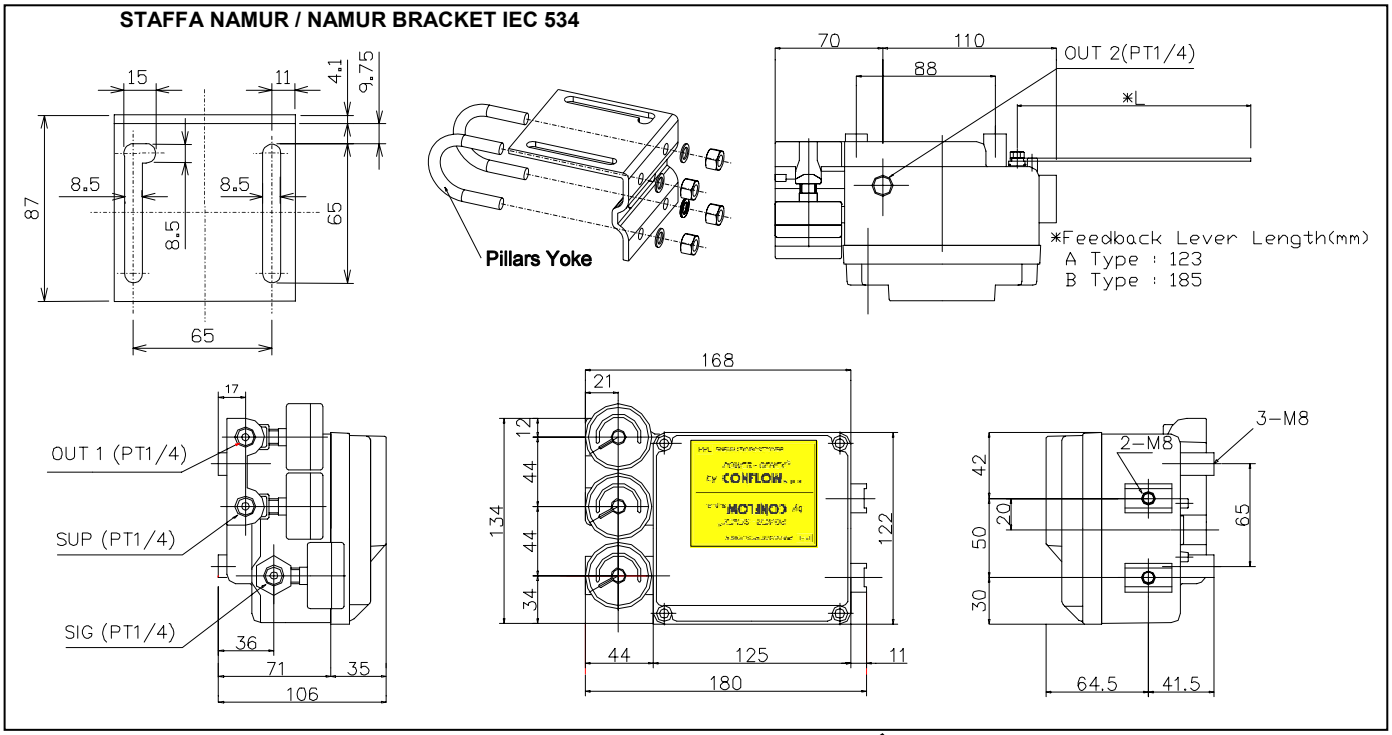
POSITIONER - ACTUATOR

All'aumentare del segnale in ingresso lo stelo valvola si muove dal basso verso l'alto Attuatore : **AD** (Segnale Inverso) Connessione : **Out 2**		As the input signal increases valve stem moves upwards Actuator : **AD** (Reverse Signal Acting) Connection : **Out 2**
All'aumentare del segnale in ingresso lo stelo valvola si muove dall'alto verso il basso Attuatore : **AR** (Segnale Inverso) Connessione : **Out 2**		As the input signal increases valve stem moves downwards Actuator : **AR** (Reverse Signal Acting) Connection : **Out 2**
All'aumentare del segnale in ingresso lo stelo valvola si muove dal basso verso l'alto		As the input signal increases valve stem moves upwards

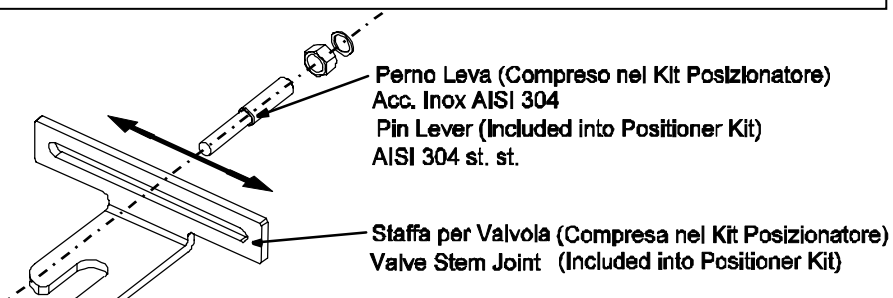
DIMENSIONI DI INGOMBRO in mm :

DIMENSIONS in mm :

STAFFA NAMUR / NAMUR BRACKET IEC 534



:ACCESSORI / ACCESSORIES



I dati te cnici forni ti hanno solo v alore indicativ o e non sono impegna tivi p er il costruttore che si riserva la facoltà di cambiarli i n qu alsiasi momento senza obbligo di preavviso.

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice.

POSIZIONATORI ELETTRO-PNEUMATICI LINEARI
ELECTRO-PNEUMATIC LINEAR POSITIONERS

EPL/I/E	
02	2015

Power Genex ®



Photo EPL / EPL-EXATEX

TIPO/TYPE EPL CE
TIPO/TYPE EPL-EXATEX Ex IECEx
TIPO/TYPE EPL-EXD Ex

DESCRIZIONE

Si tratta di un posizionatore a semplice e doppio effetto con segnale in entrata 4-20 mA per il controllo proporzionale di attuatori lineari. L' apparecchio confronta il segnale proveniente dall'unità regolante con la posizione della leva di feedback collegata allo stelo dell'otturatore. La comparazione tra queste due forze genera una pressione di uscita che agisce direttamente sulla membrana dell'attuatore.

DESCRIPTION

It's a simple or double acting positioner with input signal 4-20 mA for proportional control of pneumatic linear actuators. The positioners operate by comparision of the signal, coming from the control unit, with the position of feedback lever joined to the valves stem. An amplified pressure, generates by the comparision of these two forces, operates directly on actuator diaphragm.

CARATTERISTICHE :

- Facile manutenzione
- Calibrazione precisa con aggiustaggio dello ZERO e dello SPAN
- Semplice inversione dell'azione diretta e/o rovescia
- Esecuzione universale per tutti i tipi di corsa
- Split range aggiustabile senza cambio molla
- Design resistente alle vibrazioni

FEATURES :

- Easy maintenance
- Precise calibration with simple SPAN and ZERO adjustments
- Simple conversion to direct acting or reverse acting
- Universal execution for all types of stroke
- Split range adjustable with same spring
- Vibration resistant design

MATERIALI :

Cassa	Alluminio pressofuso verniciata epoxy colore nero
Coperchio	Alluminio pressofuso verniciato epoxy colore grigio chiaro
Staffa NAMUR IEC 534	Acciao Inox AISI 304
Manometri	Acciaio Inox

MATERIALS :

Body	Die casting alluminium epoxy painted black colour
Cover	Die casting alluminium epoxy painted light grey colour
NAMUR bracket IEC 534	Stainless Steel AISI 304
Pressure Gauges	Stainless Steel

DATI TECNICI :

Protezione standard Tipo EPL	CE Waterproof IP 66
Tipo EPL - IECEx	Ex II 2G Exia IIC T6 Ga -20/70°C
Tipo EPL-EXATEX	Ex II 2G Exia IIC T6 Ga c IIC T6 - Ta -20 °C / 70°C
Tipo EPL-EXD ATEX	Ex II 2G Ex d mb IIC T6 o T5 Ta T6 -40 ..+55°C T5 -20..+70°C
Segnale di Ingresso	4 – 20 mA
Impedenza entrata	235 +/- 15 Ω
Split range	Disponibile
Alimentazione Aria	1.4 … 7 bar (20 … 100 psi)
Corsa Nominale	10 … 80 mm Unica molla
Connessioni Pneumatiche	¼" NPT
Connessioni Elettriche	PG16 su attacco ½" NPT
Temperatura Ambiente	-20 ° … +70 °C
Linearità	Entro +/- 1.0 % fondo scala
Sensibilità	Entro 0.2 % fondo scala
Isteresi	Entro 0.5 % fondo scala
Ripetibilità	Entro +/- 0.5 % fondo scala
Consumo d'aria	5 LPM (supply 1.4 bar)
Capacità	80 LPM (spply 1.4 bar)
Peso EPL / EPL-EXATEX	2.1 Kg
Peso EPL-EXD	2.9 Kg

TECHINICAL DATA :

Standard protection Type EPL	CE Waterproof IP 66
Type EPL - IECEx	Ex II 2G Exia IIC T6 Ga -20/70°C
Type EPL-EXATEX	Ex II 2G Exia IIC T6 Ga c IIC T6 - Ta -20 °C / 70°C
Type EPL-EXD ATEX	Ex II 2G Ex d mb IIC T6 or T5 Ta T6 -40 ..+55°C T5 -20..+70°C
Input Signal	4 – 20 mA
Input resistance - impedance	235 +/- 15 Ω
Split range	Available
Supply Air Pressure	1.4 … 7 bar (20 … 100 psi)
Standard stroke	10 … 80 mm Unic spring
Pneumatic connections	¼" NPT
Electric Connections	PG16 on connection ½" NPT
Ambient Temperature	-20 ° … +70 °C
Linearity	Within +/- 1.0 % F.S.
Sensitivity	Within 0.2 % F.S.
Hysteresis	Within 0.5 % F.S.
Repeatibility	Within +/- 0.5 % F.S.
Air consumption	5 LPM (supply 1.4 bar)
Flow capacity	80 LPM (supply 1.4 bar)
Weight EPL / EPL-EXATEX	2.1 Kg
Weight EPL-EXD	2.9 Kg

ACCESSORI (* inclusi • a richiesta) :

Staffa / Blocchetto per valvola *	Acciaio Inox AISI 304
Leva corsa 80-150 mm *	Acciaio Inox AISI 304
Trasmettitore di posizione • Solo versione std Tipo EPL-T (no ATEX)	4-20 mA nessuna alimentazione aggiuntiva richiesta

ACCESSORIES (* included • on request) :

Valve stem Joint *	Stainless steel AISI 304
Lever stroke 80-150 mm *	Stainless steel AISI 304
Position Transmitter • Only std version Type EPL-T (no ATEX)	4-20 mA no additional supply Voltage required

CONFLOW s.p.a.

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INVERSIONE DELL´AZIONE :

I posizionatori vengono forniti per il funzionamento in azione diretta, qualora si voglia invertire l'azione è sufficiente togliere il tappo dall'uscita "OUT2" e inserirlo nell'uscita "OUT1".

REVERSE SIGNAL ACTING :

The positioners are normally supplied for direct action. In case the reverse action is required, remove the plug from "OUT 2" and put it on the "OUT 1"

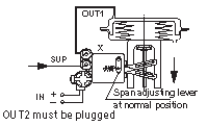
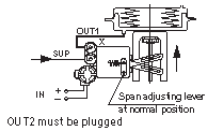
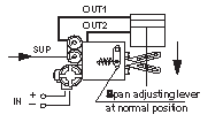
FUNZIONAMENTO A DOPPIO EFFETTO :

E' possibile utilizzare i posizionatori sia come semplice effetto sia come doppio effetto. Usando la funzione doppio effetto su valvola semplice effetto è possibile aumentare la spinta sul servomotore.

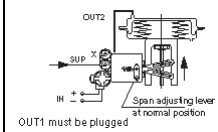
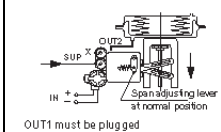
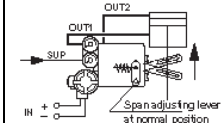
DOUBLE ACTING OPERATION :

The positioners are engineered to operate as single or double acting operation.
Using the double effect on simple effecty valves it's possible to improve the control valves operations.

POSIZIONATORE - ATTUATORE

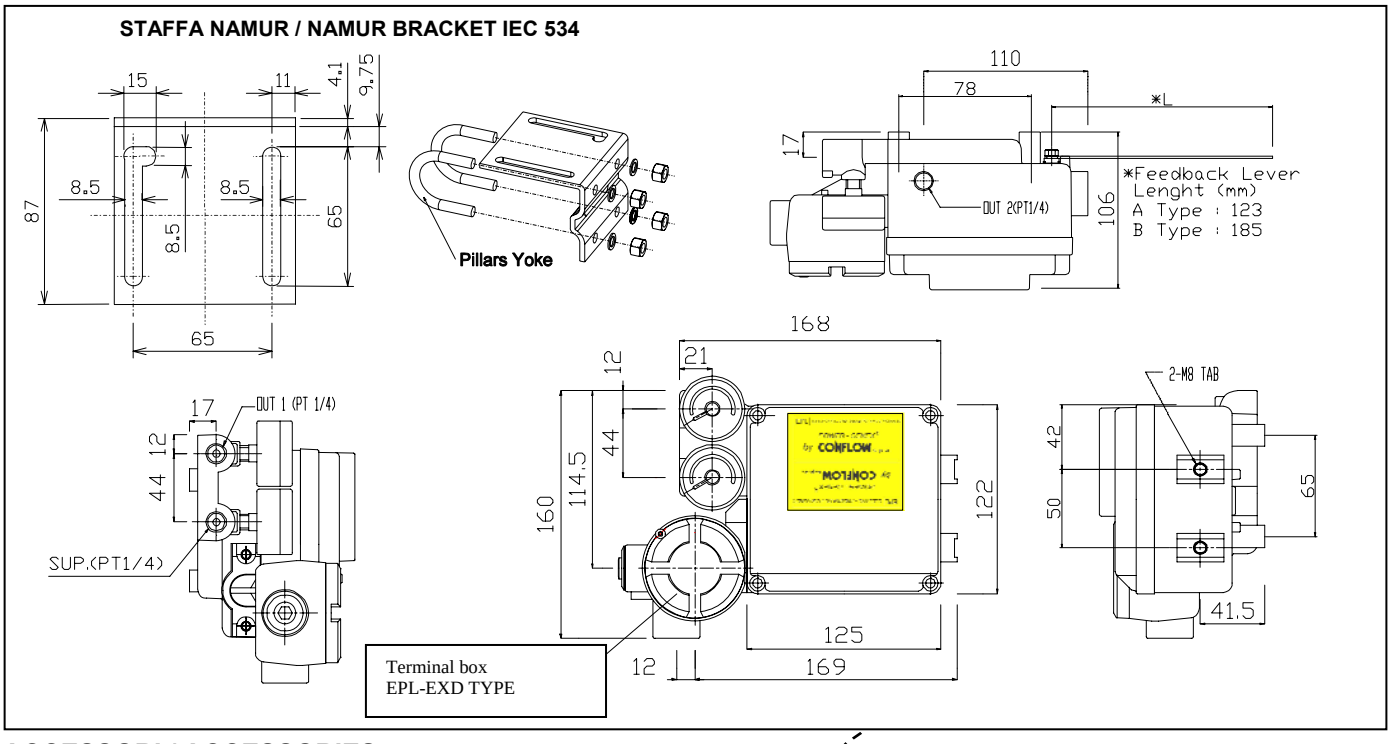
All'aumentare del segnale in ingresso lo stelo valvola si muove dall'alto verso il basso Attuatore : **AD** Connessione : **Out 1**		As the input signal increases valve stem moves downwards Actuator : **AD** Connection : **Out 1**
All'aumentare del segnale in ingresso lo stelo valvola si muove dal basso verso l'alto Attuatore : **AR** Connessione : **Out 1**		As the input signal increases valve stem moves upwards Actuator : **AR** Connection : **Out 1**
All'aumentare del segnale in ingresso lo stelo valvola si muove dall'alto verso il basso		As the input signal increases valve stem moves downwards

POSITIONER - ACTUATOR

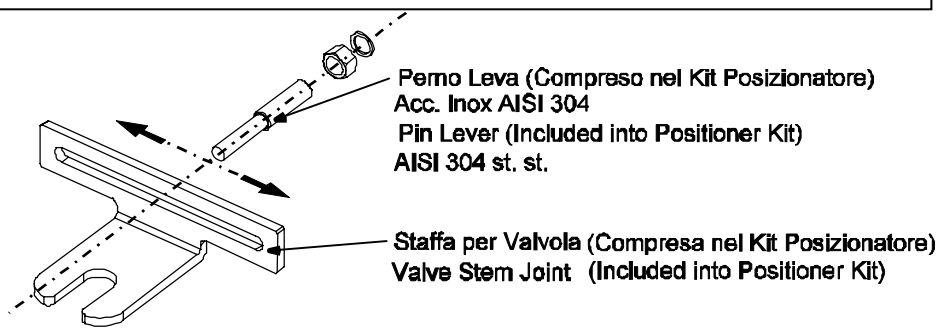
All'aumentare del segnale in ingresso lo stelo valvola si muove dal basso verso l'alto Attuatore : **AD** (Segnale Inverso) Connessione : **Out 2**		As the input signal increases valve stem moves upwards Actuator : **AD** (Reverse Signal Acting) Connection : **Out 2**
All'aumentare del segnale in ingresso lo stelo valvola si muove dall'alto verso il basso Attuatore : **AR** (Segnale Inverso) Connessione : **Out 2**		As the input signal increases valve stem moves downwards Actuator : **AR** (Reverse Signal Acting) Connection : **Out 2**
All'aumentare del segnale in ingresso lo stelo valvola si muove dal basso verso l'alto		As the input signal increases valve stem moves upwards

DIMENSIONI DI INGOMBRO in mm :

DIMENSIONS in mm :



ACCESSORI / ACCESSORIES:



I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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POSIZIONATORI LINEARI SMART-VALVE
SMART VALVE LINEAR POSITIONERS

SS2L/I/E	
11	2016



SERIE/Series SS2L-EXATEX

CE Ex IECEx

PRINCIPIO DI FUNZIONAMENTO

Il segnale 4-20 mA passa attraverso un micro-controller dove avviene la comparazione con la posizione dello stelo-valvola.
Il micro-controller produce un segnale in uscita alla bobina elettronica, la quale comanda la valvola pilota.
La valvola pilota controlla l'aria all'attuatore. Come la valvola raggiunge la posizione desiderata la differenza tra posizione comandata e posizione misurata diventa più piccola e l'uscita alla bobina elettronica diminuisce. La valvola pilota chiude e mantiene stabile la valvola di regolazione.

PRINCIPLE OF OPERATION

Input signal (4-20mA) is passed to the micro-controller, where it is compared to the measured valve stem position. The micro-controller produces an output command to the electronic coil, which drives the pilot diaphragm.
The pilot vale unit controls the airflow to the actuator.
As the valve approaches the desired position, the difference between the commanded position and the measured position becomes smaller and the output to the electronic coil decreases.
This causes the pilot valve to close and the valve to be holden in a constant position.

CARATTERISTICHE :

- AUTO CALIBRAZIONE
- Localizzatore automatico RA (azione rovescia) o DA (azione diretta)
- Predisposto per l'uso semplice o doppio effetto
- Design compatto, adatto per l'installazione anche su piccoli attuatori
- Display con messaggi di errore per eventuali anomalie
- Funzione test attuatore con vari programmi
- Temperatura ambiente -30 / + 85 °C
- Funzione per valvole "High Friction" per eliminare problemi di frizione e pendolamento
- Basso consumo d'aria
- Staffa NAMUR IEC 60534-6-1 + staffa per valvola

FEATURES :

- Easy and quick AUTO-TUNING function
- Automatic detection of RA (reverse acting) or DA (direct acting)
- Ready to use for single or double acting without any additional adjustment
- Compact design for easy installation on small actuators
- Providing error messages against performance failures
- Stroke test function, without any fixed signal, under test mode
- Wide operating temperature range -30 / +85 °C
- Improved control for high-friction globe valves to eliminate overshooting and hunting
- Low air consumption
- Mounting bracket in line with IEC 60534-6 + valve stem joint

Modelli / Models : Certificati / Certified : ATEX II 2G Ex ia IIC T5/T6 - IECEx Ex ia IIC T5/T6

SS2L-EXATEX	Modello Standard IP66	Standard Model IP66
SS2L-TFEXATEX	Con Trasmettitore di posizione 4-20 mA + N° 2 Fine Corsa SPDT IP66	WIth Position Transmitter 4-20 mA + 2 x alarm micro switches SPDT IP66
SS2L-HEXATEX	Con Protocollo di Comunic. HART IP66	With HART communication IP66
SS2L-TFHEXATEX	Con HART + Trasmettitore 4-20 mA + N° 2 Fine Corsa SPDT IP66	With HART + Position Transmitter 4-20mA + 2 x alarm micro switches SPDT IP66
SS2L-PEXATEX	Con Protocollo PROFIBUS IP66	With PROFIBUS communication IP66
SS2L-TFPEXATEX	Con PROFIBUS + Trasmett. 4-20 mA + N° 2 Fine Corsa SPDT IP66	With PROFIBUS+Position Transm.4-20mA + 2 x alarm micro switches SPDT IP66

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71 - 20864 AGRATE BRIANZA (MB)
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E-mail: vendite@conflow.it / sales@conflow.it
Web: www.conflow.it

DATI TECNICI :

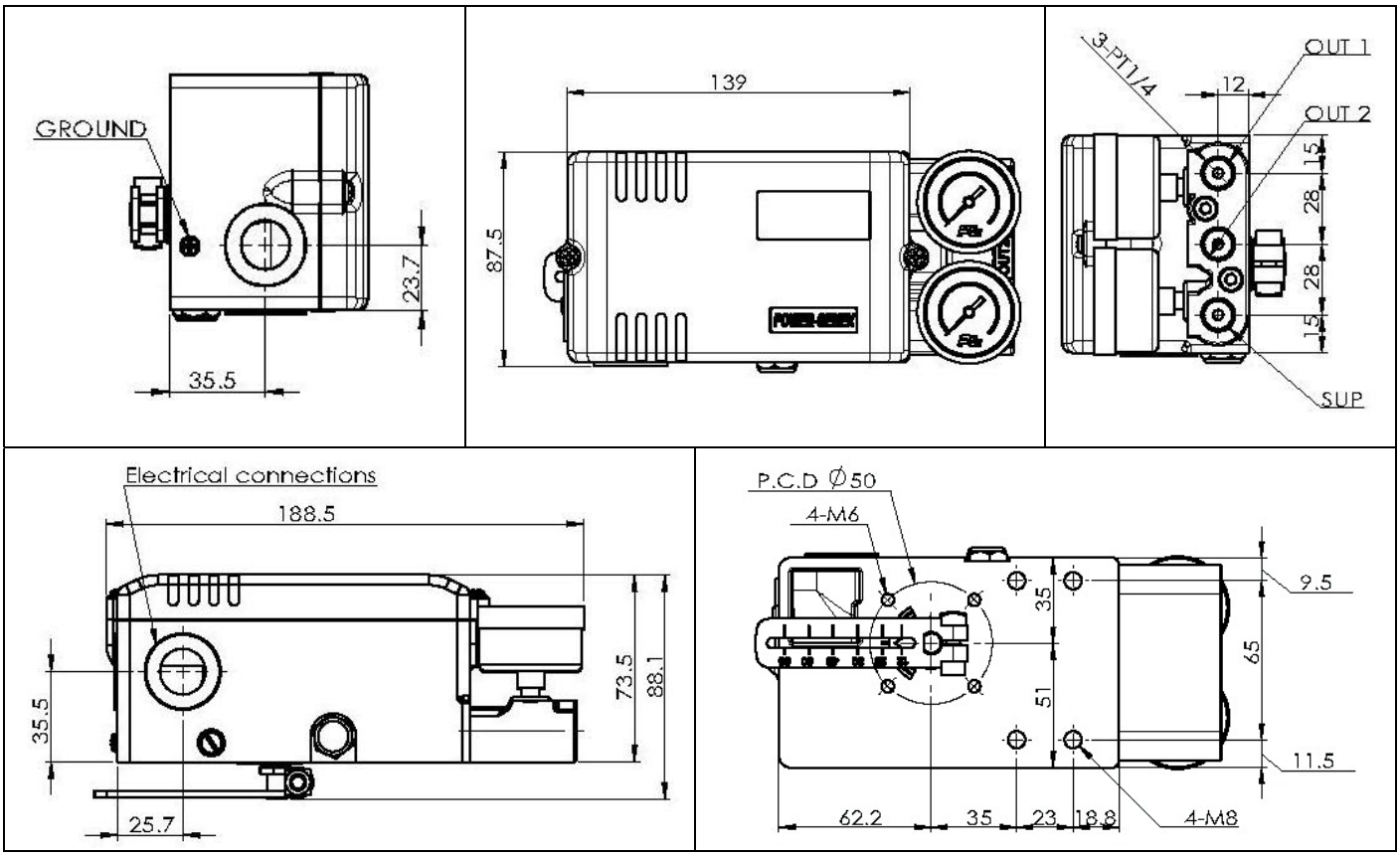
Segnale di Ingresso	4-20 mA @ 24 VDC
Min. / Max Corrente	3.6 mA / 50 mA
Caduta di tensione (Resistenza)	Senza HART : 8.7 VDC (435 Ω @ 20 Ma) Con HART : 9.4 VDC (470 Ω @ 20 Ma)
Corsa	8-130 mm
Alimentazione Aria	1.4 … 7 bar (20 … 100 psi)
Campo del segnale in uscita	0-100% dell'alimentazione
Capacità aria	80 ℓ/min = 4.8 Nm³/h = 2.8 scfm (Alimentazione = 1.4 bar) 233 ℓ/min = 14 Nm³/h = 8.2 scfm (Alimentazione = 6 bar)
Consumo aria	2.8 ℓ/min = 0.17 Nm³/h = 0.1 scfm (Sup = 1.4 ~ 6 bar)
Caratteristiche – Performance	Linearità < ±0.3% F.S Sensibilità < 0.2% F.S Isteresi < 0.2% F.S Ripetibilità < 0.2% F.S
Indicatore LCD	4-digit
Velocità aggiustabile	1-1000 (+ bassa1,+ alta 1000)
Tempo di scansione	2ms
Valore di taglio chiusura	Campo 0-10 % del segnale
Azione Valvola	Azione Diretta DA Azione Rovescia RA
Temperatura Ambiente	-30 / + 80 °C
Connessioni Pneumatiche	Rc ¼" o ¼" NPT
Connessioni Elettriche	2 x G ½ or ½ NPT
Materiale corpo-coperchio	Alluminio pressofuso Vernciati a polvere epoxy NERO
Materiale staffe	Acc. Inox AISI 304
Peso con staffa	1,9 Kg

TECHINICAL DATA :

Input Signal	4-20 mA @ 24 VDC
Min. / Max Current	3.6 mA / 50 mA
Voltage Drop (Resistance)	Without HART : 8.7 VDC (435 Ω @ 20 Ma) With HART : 9.4 VDC (470 Ω @ 20 Ma)
Stroke	8-130 mm
Supply Air Pressure	1.4 … 7 bar (20 … 100 psi)
Output Pressure Range	0-100 % of supply air pressure
Air Capacity	80 ℓ/min = 4.8 Nm³/h = 2.8 scfm (Supply = 1.4 bar) 233 ℓ/min = 14 Nm³/h = 8.2 scfm (Supply = 6 bar)
Air Consumption	2.8 ℓ/min = 0.17 Nm³/h = 0.1 scfm (Sup = 1.4 ~ 6 bar)
Performance Characteristic	Linearity < ±0.3% F.S Sensitivity < 0.2% F.S Hysteresis < 0.2% F.S Repeatability < 0.2% F.S
LCD Indication	4-digit
Adjustable Speed	1-1000 (lowest 1, highest 1000)
Scan Time	2ms
Shut-off Value	Range 0-10% of position signal
Valve action	Direct Action DA Reverse Action RA
Ambient temperature	-30 / + 80 °C (-22 / +176 °F)
Pneumatic connections	Rc ¼ " or ¼" NPT
Electric Connections	2 x G ½ or ½ NPT
Body and Cover Material	Alluminium die-cast Black powder painted
Brackets material	S.S. AISI 304
Weight with bracket	1,9 Kg

DIMENSIONI mm :

DIMENSIONS mm:



I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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POSIZIONATORI LINEARI SMART-VALVE
Custodia Explosion proof
SMART VALVE LINEAR POSITIONERS
Sturdy Explosion proof housing

SS3L/I/E	
07	2017



SERIE/Series SS3L Ex d II C T6

PRINCIPIO DI FUNZIONAMENTO

Il segnale 4-20 mA passa attraverso un micro-controller dove avviene la comparazione con la posizione dello stelo-valvola.
Il micro-controller produce un segnale in uscita alla bobina elettronica, la quale comanda la valvola pilota.
La valvola pilota controlla l'aria all'attuatore. Come la valvola raggiunge la posizione desiderata la differenza tra posizione comandata e posizione misurata diventa più piccola e l'uscita alla bobina elettronica diminuisce. La valvola pilota chiude e mantiene stabile la valvola di regolazione.

PRINCIPLE OF OPERATION

Input signal (4-20mA) is passed to the micro-controller, where it is compared to the measured valve stem position. The micro-controller produces an output command to the electronic coil, which drives the pilot diaphragm.
The pilot vale unit controls the airflow to the actuator.
As the valve approaches the desired position, the difference between the commanded position and the measured position becomes smaller and the output to the electronic coil decreases.
This causes the pilot valve to close and the valve to be holden in a constant position.

CARATTERISTICHE :

- AUTO CALIBRAZIONE
- Localizzatore automatico RA (azione rovescia) o DA (azione diretta)
- Predisposto per l'uso semplice o doppio effetto
- Design robusto con custodia Explosion proof
- Display con messaggi di errore per eventuali anomalie
- Funzione test attuatore con vari programmi
- Temperatura ambiente -30 / + 75 °C
- Funzione per valvole "High Friction" per eliminare problemi di frizione e pendolamento
- Basso consumo d'aria
- Staffa NAMUR IEC 60534-6-1 + staffa per valvola

FEATURES :

- Easy and quick AUTO-TUNING function
- Automatic detection of RA (reverse acting) or DA (direct acting)
- Ready to use for single or double acting without any additional adjustment
- Sturdy Explosion proof housing
- Providing error messages against performance failures
- Stroke test function, without any fixed signal, under test mode
- Wide operating temperature range -30 / +75 °C
- Improved control for high-friction globe valves to eliminate overshooting and hunting
- Low air consumption
- Mounting bracket in line with IEC 60534-6 + valve stem joint

Tutti i Modelli certificati / All Models certified :

ATEX II 2G Ex d IIC T6 Gb - T.A. -30 /+75 °C **IECEx Ex d IIC T6 Gb - T.A. -30 /+75 °C**

SS3L	Modello Standard IP66	Standard Model IP66
SS3L-TL	Modello Standard IP66 Bassa Temper.	Standard Model IP66 Low Temp.
SS3L-TS	Con Trasmettitore di posizione 4-20 mA + N° 2 Contatti allarme NPN/PNP	WIth Position Transmitter 4-20 mA + 2 x alarm limit NPN/PNP
SS3L-H	Con Protocollo di Comunic. HART IP66	With HART communication IP66
SS3L-TSH	Con HART + Trasmettitore 4-20 mA + N° 2 Contatti allarme NPN/PNP	With HART + Position Transmitter 4-20mA 2 x alarm limit NPN/PNP
SS3L-TSHLT	Con HART + Trasmettitore 4-20 mA + N° 2 Contatti all.NPN/PNP – Bassa Temp.	With HART + Position Transmitter 4-20mA 2 x alarm limit NPN/PNP – Low Temp.
SS3L-P	Con Protocollo PROFIBUS IP66	With PROFIBUS communication IP66
SS3L-TSP	Con PROFIBUS + Trasmett. 4-20 mA + N° 2 Contatti allarme NPN/PNP	With PROFIBUS+Position Transm.4-20mA 2 x alarm limit NPN/PNP

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71 - 20864 AGRATE BRIANZA (MB)
Tel: +39 - (0)39.651705 Fax: +39 - (0)39.654018
E-mail: vendite@conflow.it / sales@conflow.it
Web: www.conflow.it

DATI TECNICI :

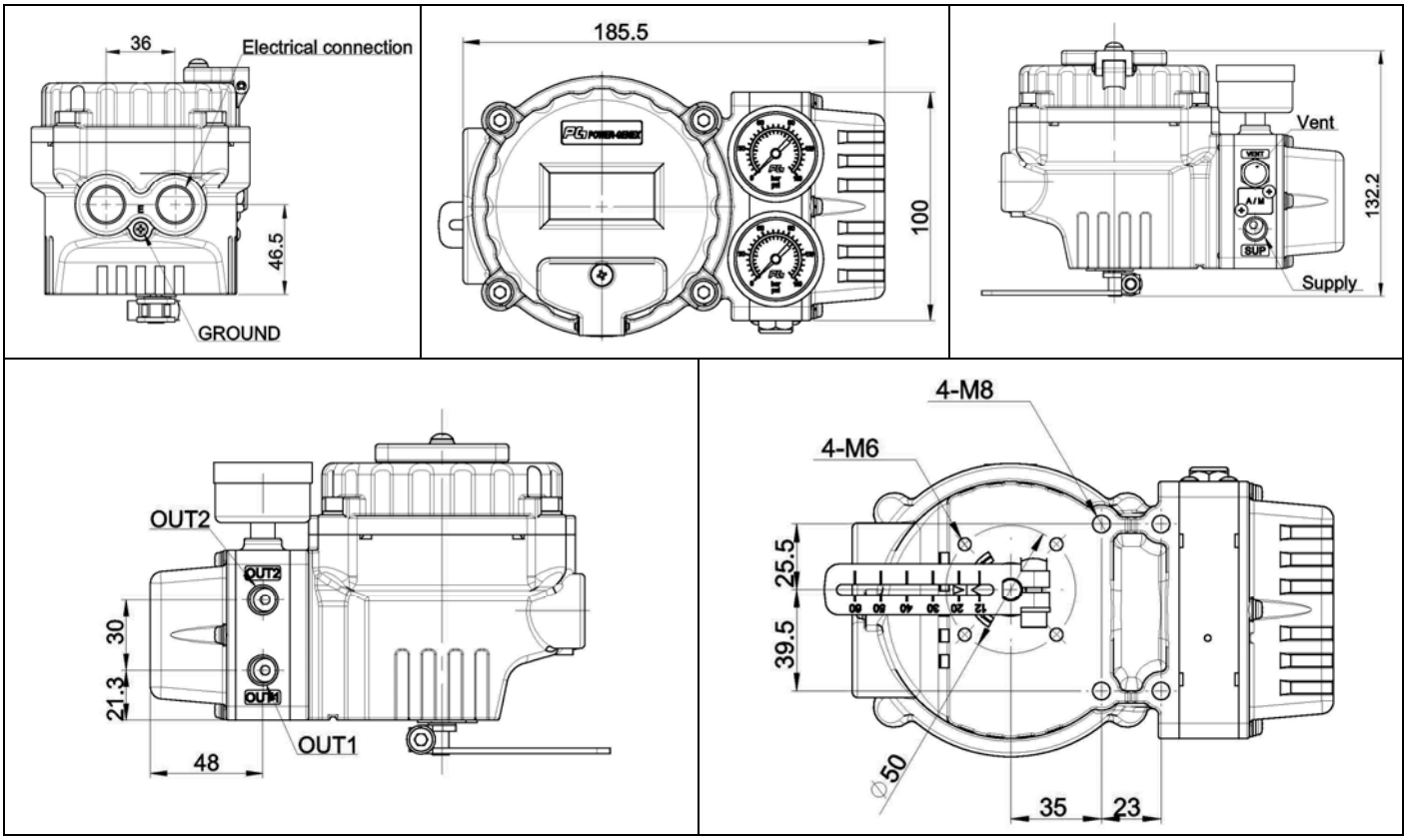
Segnale di Ingresso	4-20 mA @ 24 VDC
Min. / Max Corrente	3.6 mA / 50 mA
Caduta di tensione (Resistenza)	Senza HART : 8.7 VDC (435 Ω @ 20 mA) Con HART : 9.4 VDC (470 Ω @ 20 mA)
Corsa	5-130 mm
Alimentazione Aria	1.4 … 7 bar (20 … 100 psi)
Campo del segnale in uscita	0-100% dell'alimentazione
Capacità aria	80 ℓ/min = 4.8 Nm³/h = 2.8 scfm (Alimentazione = 1.4 bar) 233 ℓ/min = 14 Nm³/h = 8.2 scfm (Alimentazione = 6 bar)
Consumo aria	2.8 ℓ/min = 0.17 Nm³/h = 0.1 scfm (Sup = 1.4 ~ 6 bar)
Caratteristiche – Performance	Linearità < ±0.3% F.S Sensibilità < 0.2% F.S Isteresi < 0.2% F.S Ripetibilità < 0.2% F.S
Indicatore LCD	4-digit
Velocità aggiustabile	1-1000 (+ bassa1,+ alta 1000)
Tempo di scansione	2ms
Valore di taglio chiusura	Campo 0-10 % del segnale
Azione Valvola	Azione Diretta DA Azione Rovescia RA
Temperatura Ambiente	-30 / + 75 °C
Connessioni Pneumatiche	Rc ¼" o ¼" NPT
Connessioni Elettriche	2 x G ½ or ½ NPT
Materiale corpo-coperchio	Alluminio pressofuso Vernciati a polvere epoxy NERO
Materiale staffe	Acc. Inox AISI 304
Peso con staffa	2,8 Kg

TECHINICAL DATA :

Input Signal	4-20 mA @ 24 VDC
Min. / Max Current	3.6 mA / 50 mA
Voltage Drop (Resistance)	Without HART : 8.7 VDC (435 Ω @ 20 mA) With HART : 9.4 VDC (470 Ω @ 20 mA)
Stroke	5-130 mm
Supply Air Pressure	1.4 … 7 bar (20 … 100 psi)
Output Pressure Range	0-100 % of supply air pressure
Air Capacity	80 ℓ/min = 4.8 Nm³/h = 2.8 scfm (Supply = 1.4 bar) 233 ℓ/min = 14 Nm³/h = 8.2 scfm (Supply = 6 bar)
Air Consumption	2.8 ℓ/min = 0.17 Nm³/h = 0.1 scfm (Sup = 1.4 ~ 6 bar)
Performance Characteristic	Linearity < ±0.3% F.S Sensitivity < 0.2% F.S Hysteresis < 0.2% F.S Repeatability < 0.2% F.S
LCD Indication	4-digit
Adjustable Speed	1-1000 (lowest 1, highest 1000)
Scan Time	2ms
Shut-off Value	Range 0-10% of position signal
Valve action	Direct Action DA Reverse Action RA
Ambient temperature	-30 / + 75 °C (-22 / +176 °F)
Pneumatic connections	Rc ¼ " or ¼" NPT
Electric Connections	2 x G ½ or ½ NPT
Body and Cover Material	Alluminium die-cast Black powder painted
Brackets material	S.S. AISI 304
Weight with bracket	2,8 Kg

DIMENSIONI mm :

DIMENSIONS mm:



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POSIZIONATORI PNEUMATICI ROTANTI
PNEUMATIC ROTARY POSITIONERS

PPR/I/E	
11	2006

Power Genex ®



TIPO / TYPE PPR CE

TIPO / TYPE PPR-EX

DESCRIZIONE

Si tratta di un posizionatore a semplice e doppio effetto con segnale in entrata 3-15 psi per il controllo proporzionale di attuatori rotanti. L' apparecchio confronta il segnale proveniente dall'unità regolante con l'angolo di rotazione dello stelo inviando un segnale amplificato che agisce sulle camere dell'attuatore.

DESCRIPTION

It's a simple or double acting positioners with input signal 3-15 psi for proportional control of pneumatic rotary actuators. The positioners operate by comparision of the signal, coming from the control unit, with the angular rotation of the stem, and conveys a positioning amplified pressure to the valve actuator.

CARATTERISTICHE :

- Facile manutenzione
- Calibrazione precisa con aggiustaggio dello ZERO e dello SPAN
- Semplice inversione dell'azione diretta e/o rovescia
- Split range aggiustabile senza cambio molla
- Design resistente alle vibrazioni
- Valvola pilota con kit di orifizi per piccoli attuatori

FEATURES :

- Easy maintenance
- Precise calibration with simple SPAN and ZERO adjustments
- Simple conversion to direct acting or reverse acting
- Split range adjustable with same spring
- Vibration resistant design
- Restricted pilot valve orifice kit for small actuators included

MATERIALI :

Cassa	Alluminio pressofuso verniciata epoxy colore nero
Coperchio	Alluminio pressofuso verniciato epoxy colore grigio chiaro
Staffa Posizionatore NAMUR	Acciaio carbonio verniciato epoxy colore nero
Manometri	Acciaio Inox

MATERIALS :

Body	Die casting alluminium epoxy painted black colour
Cover	Die casting alluminium epoxy painted light grey colour
NAMUR mounting bracket	Carbon steel epoxy painted black colour
Pressure Gauges	Stainless Steel

DATI TECNICI :

Protezione std Tipo PPR	CE Waterproof IP 66
ATEX 94/9/CE Tipo PPR-EX	CE II2GDc IICX -20°C≤Ta≤+80°C
Split range	Disponibile
Alimentazione Aria	1.4 … 7 bar (20 … 100 psi)
Corsa Nominale	0 … 100 ° Unica molla
Connessioni Pneumatiche	1/4" NPT
Temperatura Ambiente	-20 ° … +80 °C
Linearità	Entro +/- 1.5 % fondo scala
Sensibilità	Entro 0.5 % fondo scala
Isteresi	Entro 1.0 % fondo scala
Ripetibilità	Entro +/- 0.5 % fondo scala
Consumo d'aria	5 LPM (supply 1.4 bar)
Capacità	80 LPM (supply 1.4 bar)
Peso	2.1 Kg

TECHINICAL DATA :

Standard protection Type PPR	CE Waterproof IP 66
ATEX 94/9/CE Type PPR-EX	CE II2GDc IICX -20°C≤Ta≤+80°C
Split range	Available
Supply Air Pressure	1.4 … 7 bar (20 … 100 psi)
Standard stroke	0 … 100 ° Unic spring
Pneumatic connections	1/4" NPT
Ambient Temperature	-20 ° … +80 °C
Linearity	Within +/- 1.5 % F.S.
Sensitivity	Within 0.5 % F.S.
Hysteresis	Within 1.0 % F.S.
Repeatibility	Within +/- 0.5 % F.S.
Air consumption	5 LPM (supply 1.4 bar)
Flow capacity	80 LPM (supply 1.4 bar)
Weight	2.1 Kg

ACCESSORI (* inclusi • a richiesta) :

Staffa VDI / VDE 3845 *	Acciaio Inox AISI 304
Trasmettitore di posizione • Solo versione std Tipo PPR-T	4-20 mA (Supply Volt 8 – 30 V cc)

ACCESSORIES (* included • on request) :

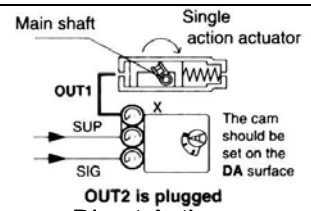
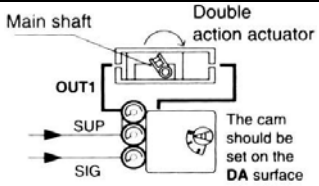
Bracket VDI / VDE 3845 *	Stainless steel AISI 304
Position Transmitter • Only std version Type PPR-T	4-20 mA (Supply Volt 8 –30 Vdc)

CONFLOW s.p.a.

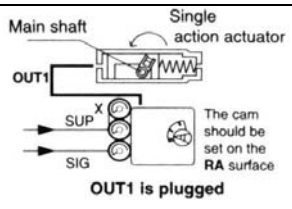
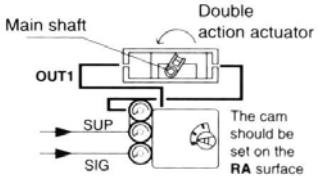
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

Via Lecco 69/71
20041 AGRATE BRIANZA (MI)
Tel. +39 - 039.656790/650397
Fax. +39 - 039.654018
www.conflow.it

POSIZIONATORE - ATTUATORE

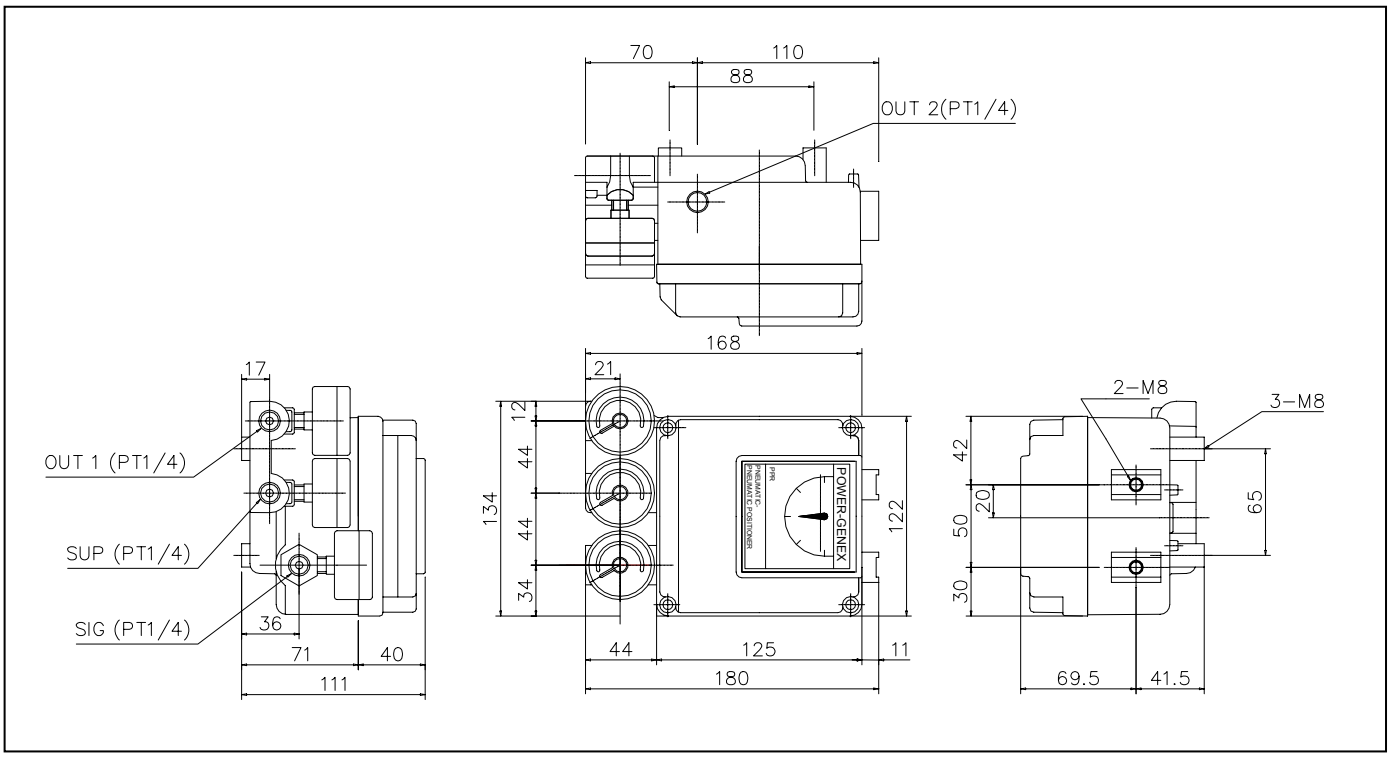
Semplice effetto All'aumentare del segnale in ingresso lo stelo ruota in senso orario	 Direct Action	**Simple effect** As the imput signal increases actuator stem rotates clockwise
Doppio effetto All'aumentare del segnale in ingresso lo stelo ruota in senso orario	 Direct Action	**Double effect** As the imput signal increases actuator stem rotates clockwise

POSITIONER - ACTUATOR

Semplice effetto All'aumentare del segnale in ingresso lo stelo ruota in senso antiorario	 Reverse Action	**Simple effect** As the imput signal increases actuator stem rotates anti - clockwise
Doppio effetto All'aumentare del segnale in ingresso lo stelo ruota in senso antiorario	 Reverse Action	**Double effect** As the imput signal increases actuator stem rotates anti - clockwise

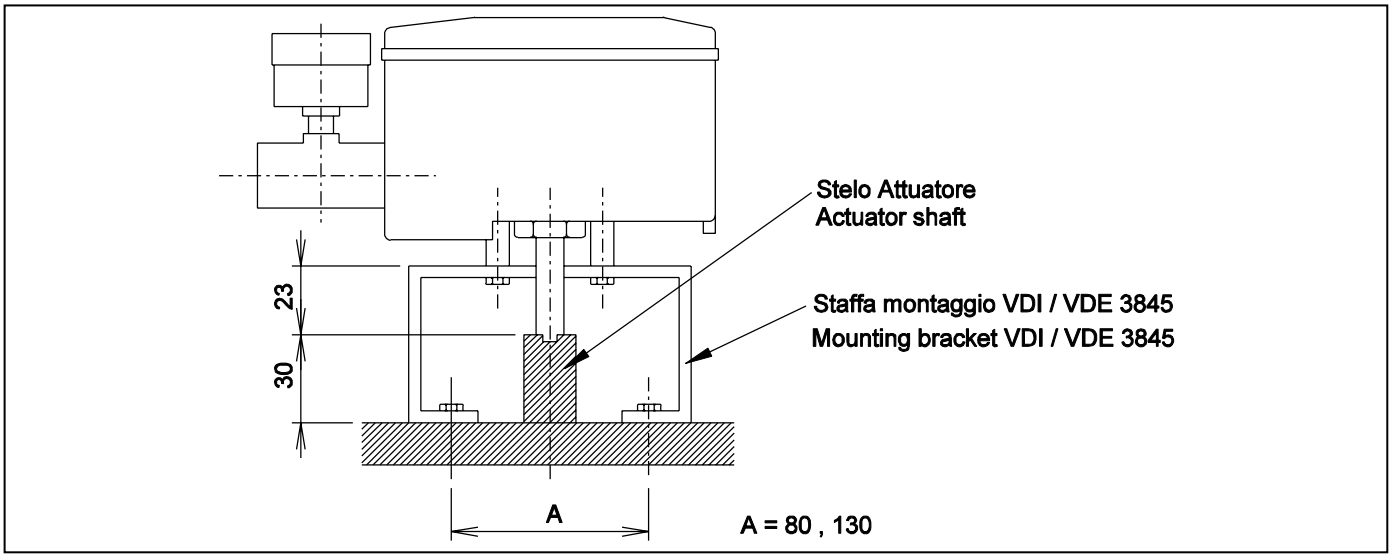
DIMENSIONI DI INGOMBRO in mm :

DIMENSIONS in mm :



MONTAGGIO :

MOUNTING :



i dati te cnici fo rniti hanno solo v alore indica tivo e non sono impegnativ i per il costruttore che si riserva la fa coltà di cambiarli i n qual siasi momento senza obbligo di preavviso.

Specifications given are only indicative and not bi nding for the mani facturer who reserve the right to carry-out any modi fications deemed necessary without prior notice.

POSIZIONATORI ELETTRO-PNEUMATICI ROTANTI
ELECTRO-PNEUMATIC ROTARY POSITIONERS

EPR/I/E	
02	2015

Power Genex ®



Photo EPR-EXD

TIPO/TYPE EPR CE
TIPO/TYPE EPR-EXATEX Ex IECEx
TIPO/TYPE EPR-EXD Ex

DESCRIZIONE

Si tratta di un posizionatore a semplice e doppio effetto con segnale in entrata 4-20 mA per il controllo proporzionale di attuatori rotanti. L' apparecchio confronta il segnale proveniente dall'unità regolante con l'angolo di rotazione dello stelo inviando un segnale amplificato che agisce sulle camere dell'attuatore.

DESCRIPTION

It's a simple or double acting positioners with input signal 4-20 mA for proportional control of pneumatic rotary actuators. The positioners operate by comparision of the signal, coming from the control unit, with the angular rotation of the stem, and conveys a positioning amplified pressure to the valve actuator.

CARATTERISTICHE :

- Facile manutenzione
- Calibrazione precisa con aggiustaggio dello ZERO e dello SPAN
- Semplice inversione dell'azione
- Split range aggiustabile senza cambio molla
- Design resistente alle vibrazioni

FEATURES :

- Easy maintenance
- Precise calibration with simple SPAN and ZERO adjustments
- Simple conversion to direct acting or reverse acting
- Split range adjustable with same spring
- Vibration resistant design

MATERIALI :

Cassa	Alluminio pressofuso verniciata epoxy colore nero
Coperchio	Alluminio pressofuso verniciato epoxy colore grigio chiaro
Staffa NAMUR IEC 534	Acc. Carb. Verniciata epoxy nera
Manometri	Acciaio Inox

MATERIALS :

Body	Die casting alluminium epoxy painted black colour
Cover	Die casting alluminium epoxy painted light grey colour
NAMUR bracket IEC 534	Carb. steel epoxy painted black
Pressure Gauges	Stainless Steel

DATI TECNICI :

Protezione standard Tipo EPR	CE Waterproof IP 66
Tipo EPR- IECEx	Ex II 2G Exia IIC T6 Ga -20/70°C
Tipo EPR - EXATEX	Ex II 2G Exia IIC T6 Ga c IIC T6 - Ta -20 °C / 70°C
Tipo EPR-EXD ATEX	Ex II 2G Ex d mb IIC T6 o T5 Ta T6 -40 ..+55°C T5 -20..+70°C
Segnale di Ingresso	4 – 20 mA
Impedenza entrata	235 +/- 15 Ω
Split range	Disponibile
Alimentazione Aria	1.4 … 7 bar (20 … 100 psi)
Corsa Nominale	0 … 100 % Unica molla
Connessioni Pneumatiche	¼" NPT
Connessioni Elettriche	PG16 su attacco ½" NPT
Temperatura Ambiente	-20 ° … +70 °C
Linearità	Entro +/- 1.5 % fondo scala
Sensibilità	Entro 0.5 % fondo scala
Isteresi	Entro 1.0 % fondo scala
Ripetibilità	Entro +/- 0.5 % fondo scala
Consumo d'aria	5 LPM (supply 1.4 bar)
Capacità	80 LPM (supply 1.4 bar)
Peso EPR / EPR-EXATEX	2.1 Kg
Peso EPR-EXD	2.9 Kg

TECHNICAL DATA :

Standard protection Type EPR	CE Waterproof IP 66
Type EPR - IECEx	Ex II 2G Exia IIC T6 Ga -20/70°C
Type EPR - EXATEX	Ex II 2G Exia IIC T6 Ga c IIC T6 -Ta -20 °C / 70°C
Type EPR-EXD ATEX	Ex II 2G Ex d mb IIC T6 or T5 Ta T6 -40 ..+55°C T5 -20..+70°C
Input Signal	4 – 20 mA
Input resistance - impedance	235 +/- 15 Ω
Split range	Available
Supply Air Pressure	1.4 … 7 bar (20 … 100 psi)
Standard stroke	0 … 100 % Unic spring
Pneumatic connections	¼" NPT
Electric Connections	PG16 on connection ½" NPT
Ambient Temperature	-20 ° … +70 °C
Linearity	Within +/- 1.5 % F.S.
Sensitivity	Within 0.5 % F.S.
Hysteresis	Within 1.0 % F.S.
Repeatibility	Within +/- 0.5 % F.S.
Air consumption	5 LPM (supply 1.4 bar)
Flow capacity	80 LPM (supply 1.4 bar)
Weight EPR / EPR-EXATEX	2.1 Kg
Weight EPR-EXD	2.9 Kg

ACCESSORI (* inclusi • a richiesta) :

Staffa VDI / VDE 3845 *	Acciaio Inox AISI 304
Trasmettitore di posizione • Solo Tipo EPR-T (no ATEX)	4-20 mA nessuna alimentazione aggiuntiva richiesta
N°2 fine corsa Solo Tipo EPR-F (no ATEX)	**SPDT**

ACCESSORIES (* included • on request) :

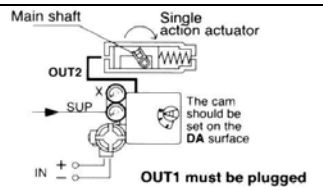
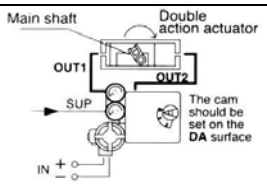
Bracket VDI / VDE 3845 *	Stainless steel AISI 304
Position Transmitter • Type EPR-T only (no ATEX)	4-20 mA no additional supply Voltage required
N°2 limit switches Type EPR-F only (no ATEX)	**SPDT**

CONFLOW s.p.a.

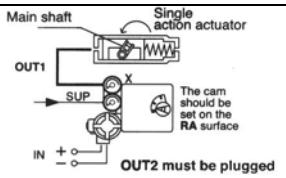
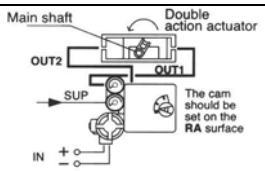
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

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20864 AGRATE BRIANZA (MB)
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Fax. +39 - 039.654018
www.conflow.it

POSIZIONATORE - ATTUATORE

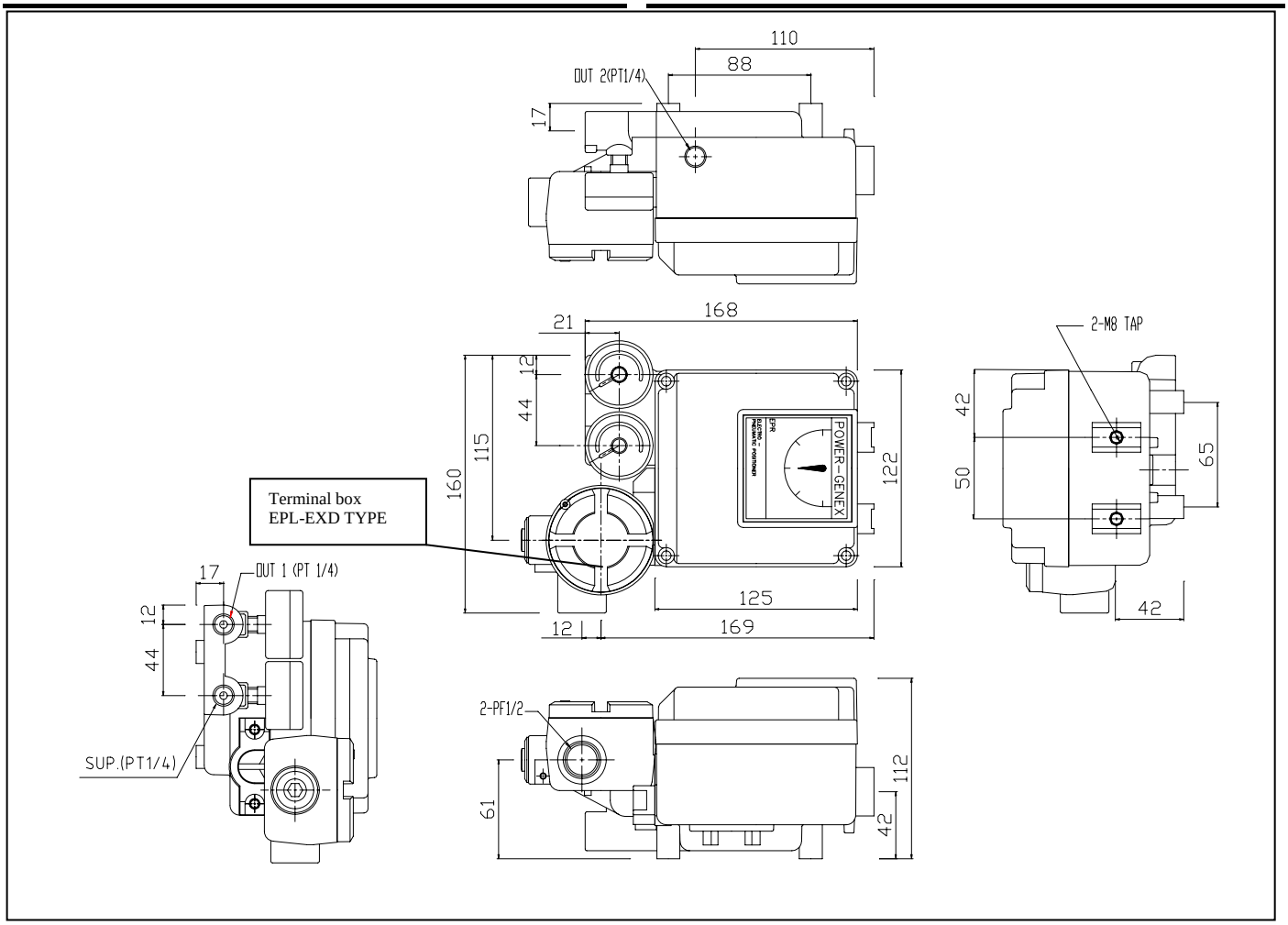
Semplice effetto All'aumentare del segnale in ingresso lo stelo ruota in senso orario	 Direct Action	**Simple effect** As the imput signal increases actuator stem rotates clockwise
Doppio effetto All'aumentare del segnale in ingresso lo stelo ruota in senso orario	 Direct Action	**Double effect** As the imput signal increases actuator stem rotates clockwise

POSITIONER - ACTUATOR

Semplice effetto All'aumentare del segnale in ingresso lo stelo ruota in senso antiorario	 Reverse Action	**Simple effect** As the imput signal increases actuator stem rotates anti - clockwise
Semplice effetto All'aumentare del segnale in ingresso lo stelo ruota in senso antiorario	 Reverse Action	**Double effect** As the imput signal increases actuator stem rotates anti - clockwise

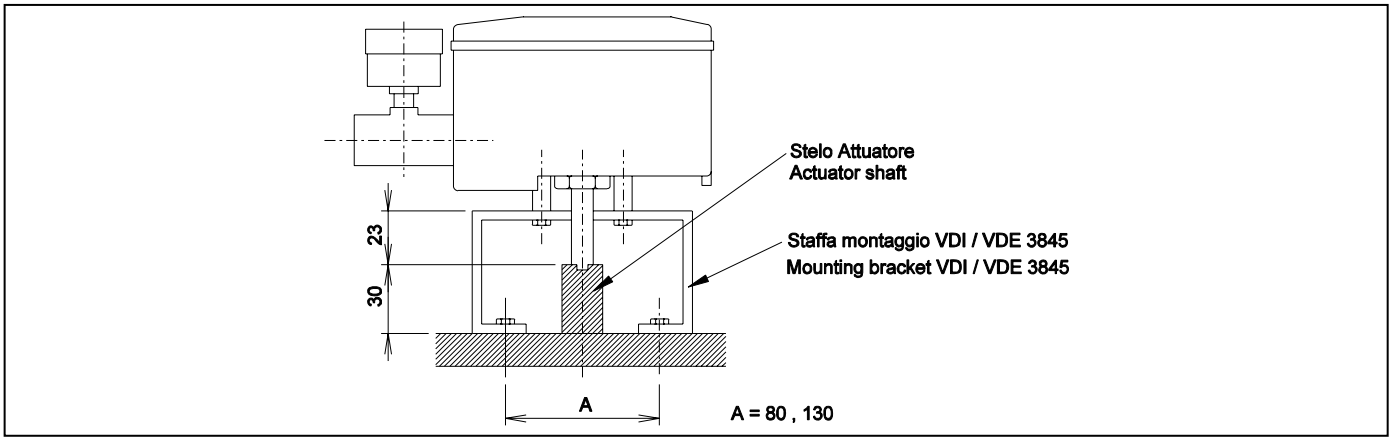
DIMENSIONI DI INGOMBRO in mm :

DIMENSIONS in mm :



MONTAGGIO :

MOUNTING :



I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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POSIZIONATORI ROTANTI SMART-VALVE
SMART VALVE ROTARY POSITIONERS

SS2R/I/E	
11	2016



SERIE/Series SS2R-EXATEX

CE Ex IECEx

PRINCIPIO DI FUNZIONAMENTO

Il segnale 4-20 mA passa attraverso un micro-controller dove avviene la comparazione con la posizione dello stelo-valvola.
Il micro-controller produce un segnale in uscita alla bobina elettronica, la quale comanda la valvola pilota.
La valvola pilota controlla l'aria all'attuatore. Come la valvola raggiunge la posizione desiderata la differenza tra posizione comandata e posizione misurata diventa più piccola e l'uscita alla bobina elettronica diminuisce. La valvola pilota chiude e mantiene stabile la valvola di regolazione.

PRINCIPLE OF OPERATION

Input signal (4-20mA) is passed to the micro-controller, where it is compared to the measured valve stem position. The micro-controller produces an output command to the electronic coil, which drives the pilot diaphragm.
The pilot vale unit controls the airflow to the actuator.
As the valve approaches the desired position, the difference between the commanded position and the measured position becomes smaller and the output to the electronic coil decreases.
This causes the pilot valve to close and the valve to be holden in a constant position.

CARATTERISTICHE :

- AUTO CALIBRAZIONE
- Localizzatore automatico RA (azione rovescia) o DA (azione diretta)
- Predisposto per l'uso semplice o doppio effetto senza ulteriori aggiustamenti
- Design compatto, adatto per l'installazione anche su piccoli attuatori
- Display con messaggi di errore per eventuali anomalie
- Funzione test attuatore con vari programmi
- Temperatura ambiente -30 / + 85 °C
- Funzione per valvole "High Friction" per eliminare problemi di frizione e pendolamento
- Basso consumo d'aria
- Staffa universale VDI/VDE 3845 NAMUR IEC 60534-6-2

FEATURES :

- Easy and quick AUTO-TUNING function
- Automatic detection of RA (reverse acting) or DA (direct acting)
- Ready to use for single or double acting without any additional adjustment
- Compact design for easy installation on small actuators
- Providing error messages against performance failures
- Stroke test function, without any fixed signal, under test mode
- Wide operating temperature range -30 / +85 °C
- Improved control for high-friction globe valves to eliminate overshooting and hunting
- Low air consumption
- Multi-purpose bracket VDI/VDE 3845 NAMUR IEC 60534-6-2

Modelli / Models : Certificati / Certified : ATEX II 2G Ex ia IIC T5/T6 - IECEx Ex ia IIC T5/T6

SS2R – EXATEX	Modello Standard IP66	Standard Model IP66
SS2R-TFEXATEX	Con Trasmettitore di posizione 4-20 mA + N° 2 Fine Corsa SPDT IP66	WIth Position Transmitter 4-20 mA + 2 x alarm micro switches SPDT IP66
SS2R-HEXATEX	Con Protocollo di Comunic. HART IP66	With HART communication IP66
SS2R-TFHEXATEX	Con HART + Trasmettitore 4-20 mA + N° 2 Fine Corsa SPDT IP66	With HART + Position Transmitter 4-20mA + 2 x alarm micro switches SPDT IP66
SS2R-PEXATEX	Con Protocollo PROFIBUS IP66	With PROFIBUS communication IP66
SS2R-TFPEXATEX	Con PROFIBUS + Trasmett. 4-20 mA + N° 2 Fine Corsa SPDT IP66	With PROFIBUS+Position Transm.4-20mA + 2 x alarm micro switches SPDT IP66

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71 - 20864 AGRATE BRIANZA (MB)
Tel: +39 - (0)39.651705 Fax: +39 - (0)39.654018
E-mail: vendite@conflow.it / sales@conflow.it
Web: www.conflow.it

DATI TECNICI :

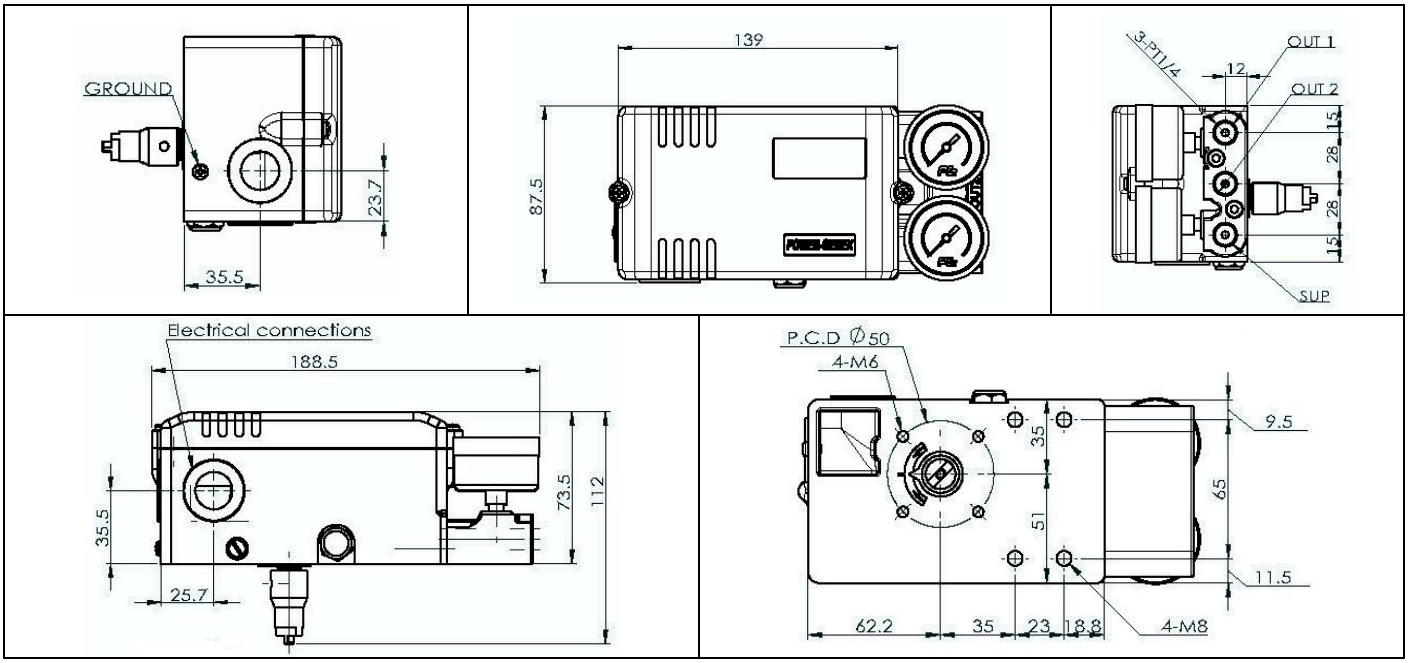
Segnale di Ingresso	4-20 mA @ 24 VDC
Min. / Max Corrente	3.6 mA / 50 mA
Caduta di tensione (Resistenza)	Senza HART : 8.7 VDC (435 Ω @ 20 Ma) Con HART : 9.4 VDC (470 Ω @ 20 Ma)
Angolo di rotazione	25 - 120 °
Alimentazione Aria	1.4 … 7 bar (20 … 100 psi)
Campo del segnale in uscita	0-100% dell'alimentazione
Capacità aria	80 ℓ/min = 4.8 Nm³/h = 2.8 scfm (Alimentazione = 1.4 bar) 233 ℓ/min = 14 Nm³/h = 8.2 scfm (Alimentazione = 6 bar)
Consumo aria	2.8 ℓ/min = 0.17 Nm³/h = 0.1 scfm (Sup = 1.4 ~ 6 bar)
Caratteristiche – Performance	Linearità < ±0.3% F.S Sensibilità < 0.2% F.S Isteresi < 0.2% F.S Ripetibilità < 0.2% F.S
Indicatore LCD	4-digit
Velocità aggiustabile	1-1000 (+ bassa1,+ alta 1000)
Tempo di scansione	2ms
Valore di taglio chiusura	Campo 0-10 % del segnale
Azione Valvola	Azione Diretta DA Azione Rovescia RA
Temperatura Ambiente	-30 / + 80 °C
Connessioni Pneumatiche	Rc ¼" o ¼" NPT
Connessioni Elettriche	2 x G ½ or ½ NPT
Materiale corpo-coperchio	Alluminio pressofuso Vernciati a polvere epoxy NERO
Materiale staffa universale	Acc. Inox AISI 304
Peso con staffa	1,9 Kg

TECHINICAL DATA :

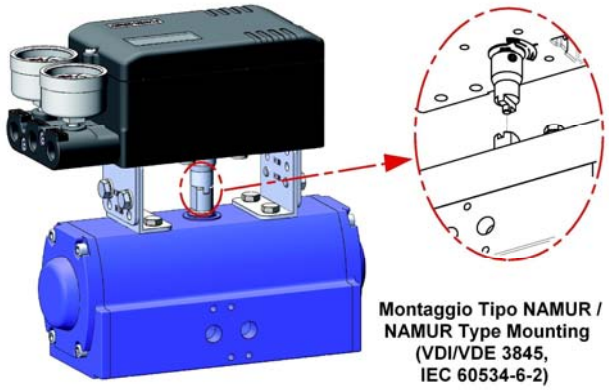
Input Signal	4-20 mA @ 24 VDC
Min. / Max Current	3.6 mA / 50 mA
Voltage Drop (Resistance)	Without HART : 8.7 VDC (435 Ω @ 20 Ma) With HART : 9.4 VDC (470 Ω @ 20 Ma)
Angle	25 - 120 °
Supply Air Pressure	1.4 … 7 bar (20 … 100 psi)
Output Pressure Range	0-100 % of supply air pressure
Air Capacity	80 ℓ/min = 4.8 Nm³/h = 2.8 scfm (Supply = 1.4 bar) 233 ℓ/min = 14 Nm³/h = 8.2 scfm (Supply = 6 bar)
Air Consumption	2.8 ℓ/min = 0.17 Nm³/h = 0.1 scfm (Sup = 1.4 ~ 6 bar)
Performance Characteristic	Linearity < ±0.3% F.S Sensitivity < 0.2% F.S Hysteresis < 0.2% F.S Repeatability < 0.2% F.S
LCD Indication	4-digit
Adjustable Speed	1-1000 (lowest 1, highest 1000)
Scan Time	2ms
Shut-off Value	Range 0-10% of position signal
Valve action	Direct Action DA Reverse Action RA
Ambient temperature	-30 / + 80 °C (-22 / +176 °F)
Pneumatic connections	Rc ¼ " or ¼" NPT
Electric Connections	2 x G ½ or ½ NPT
Body and Cover Material	Alluminium die-cast Black powder painted
Multi-size Bracket Material	S.S. AISI 304
Weight with bracket	1,9 Kg

DIMENSIONI mm :

DIMENSIONS mm:

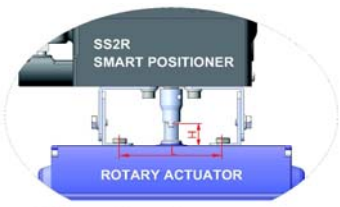


STAFFA UNIVERSALE DI MONTAGGIO :



Montaggio Tipo NAMUR / NAMUR Type Mounting (VDI/VDE 3845, IEC 60534-6-2)

MULTI-SIZE BRACKET :



Misure Combinate Staffa
Size Variation of Multi-Size Bracket

1) 80 x 30 x 20 (H) , 4) 130 x 30 x 20 (H)
2) 80 x 30 x 30 (H) , 5) 130 x 30 x 30 (H)
3) 80 x 30 x 50 (H) , 6) 130 x 30 x 50 (H)

H : Altezza Albero Attuatore
L : Interasse (80 o 130 mm)
H : Rotary Actuator Shaft Height
L : Length (80 or 130mm)

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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POSIZIONATORI ROTANTI SMART-VALVE
Custodia Explosion proof
SMART VALVE ROTARY POSITIONERS
Sturdy Explosion proof housing

SS3R/I/E	
11	2013



SERIE/Series SS3R Ex d II C T6

CE Ex IECEx

PRINCIPIO DI FUNZIONAMENTO

Il segnale 4-20 mA passa attraverso un micro-controller dove avviene la comparazione con la posizione dello stelo-valvola.
Il micro-controller produce un segnale in uscita alla bobina elettronica, la quale comanda la valvola pilota.
La valvola pilota controlla l'aria all'attuatore. Come la valvola raggiunge la posizione desiderata la differenza tra posizione comandata e posizione misurata diventa più piccola e l'uscita alla bobina elettronica diminuisce. La valvola pilota chiude e mantiene stabile la valvola di regolazione.

PRINCIPLE OF OPERATION

Input signal (4-20mA) is passed to the micro-controller, where it is compared to the measured valve stem position. The micro-controller produces an output command to the electronic coil, which drives the pilot diaphragm.
The pilot vale unit controls the airflow to the actuator.
As the valve approaches the desired position, the difference between the commanded position and the measured position becomes smaller and the output to the electronic coil decreases.
This causes the pilot valve to close and the valve to be holden in a constant position.

CARATTERISTICHE :

- AUTO CALIBRAZIONE
- Localizzatore automatico RA (azione rovescia) o DA (azione diretta)
- Predisposto per l'uso semplice o doppio effetto
- Design robusto con custodia Explosion proof
- Display con messaggi di errore per eventuali anomalie
- Funzione test attuatore con vari programmi
- Temperatura ambiente -30 / + 75 °C
- Funzione per valvole "High Friction" per eliminare problemi di frizione e pendolamento
- Basso consumo d'aria
- Staffa Universale NAMUR IEC 60534-6-2 , VDI/VDE 3845

FEATURES :

- Easy and quick AUTO-TUNING function
- Automatic detection of RA (reverse acting) or DA (direct acting)
- Ready to use for single or double acting without any additional adjustment
- Sturdy Explosion proof housing
- Providing error messages against performance failures
- Stroke test function, without any fixed signal, under test mode
- Wide operating temperature range -30 / +75 °C
- Improved control for high-friction globe valves to eliminate overshooting and hunting
- Low air consumption
- Multi-size bracket NAMUR IEC 60534-6-2 , VDI/VDE 3845

Tutti i Modelli certificati / All Models certified :

ATEX II 2G Ex d IIC T6 Gb - T.A. -30 /+75 °C
IECEx Ex d IIC T6 Gb - T.A. -30 /+75 °C

SS3R	Modello Standard IP66	Standard Model IP66
SS3R-TF	Con Trasmettitore di posizione 4-20 mA + N° 2 Fine Corsa SPDT IP66	WIth Position Transmitter 4-20 mA + 2 x alarm micro switches SPDT IP66
SS3R-H	Con Protocollo di Comunic. HART IP66	With HART communication IP66
SS3R-TFH	Con HART + Trasmettitore 4-20 mA + N° 2 Fine Corsa SPDT IP66	With HART + Position Transmitter 4-20mA + 2 x alarm micro switches SPDT IP66
SS3R-P	Con Protocollo PROFIBUS IP66	With PROFIBUS communication IP66
SS3R-TFP	Con PROFIBUS + Trasmett. 4-20 mA + N° 2 Fine Corsa SPDT IP66	With PROFIBUS+Position Transm.4-20mA + 2 x alarm micro switches SPDT IP66

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

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DATI TECNICI :

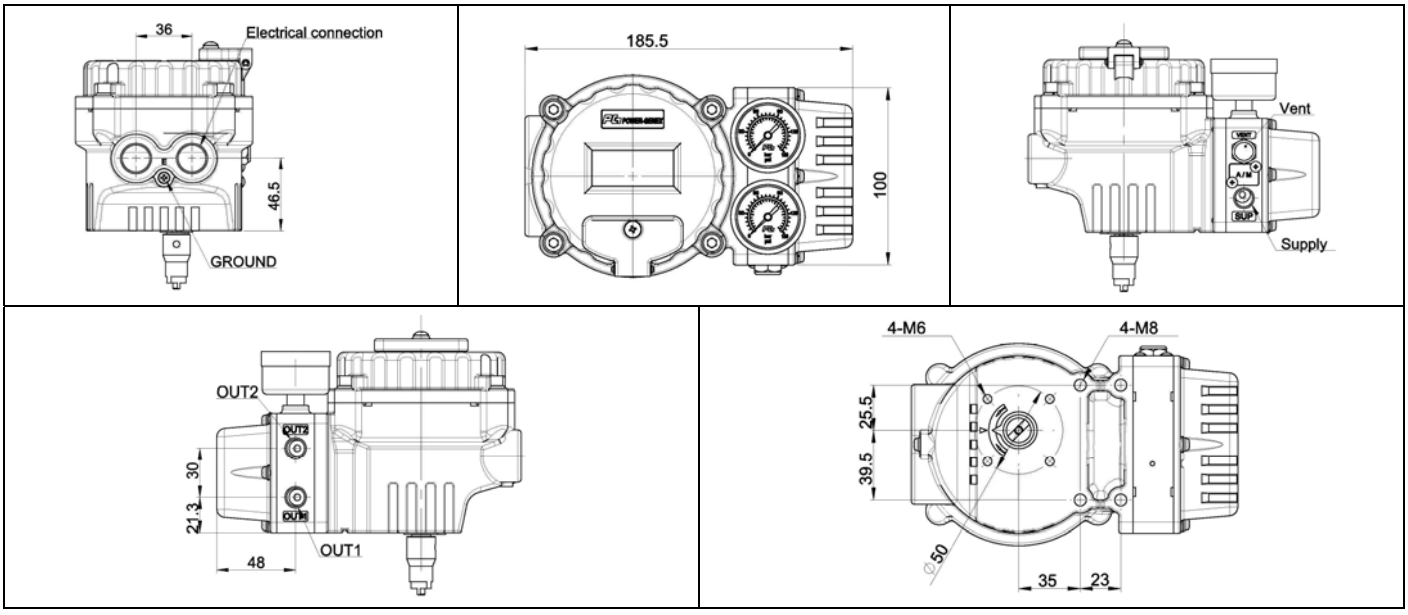
Segnale di Ingresso	4-20 mA @ 24 VDC
Min. / Max Corrente	3.6 mA / 50 mA
Caduta di tensione (Resistenza)	Senza HART : 8.7 VDC (435 Ω @ 20 mA) Con HART : 9.4 VDC (470 Ω @ 20 mA)
Corsa	25 – 120 °
Alimentazione Aria	1.4 … 7 bar (20 … 100 psi)
Campo del segnale in uscita	0-100% dell'alimentazione
Capacità aria	80 ℓ/min = 4.8 Nm³/h = 2.8 scfm (Alimentazione = 1.4 bar) 233 ℓ/min = 14 Nm³/h = 8.2 scfm (Alimentazione = 6 bar)
Consumo aria	2.8 ℓ/min = 0.17 Nm³/h = 0.1 scfm (Sup = 1.4 ~ 6 bar)
Caratteristiche – Performance	Linearità < ±0.3% F.S Sensibilità < 0.2% F.S Isteresi < 0.2% F.S Ripetibilità < 0.2% F.S
Indicatore LCD	4-digit
Velocità aggiustabile	1-1000 (+ bassa1,+ alta 1000)
Tempo di scansione	2ms
Valore di taglio chiusura	Campo 0-10 % del segnale
Azione Valvola	Azione Diretta DA Azione Rovescia RA
Temperatura Ambiente	-30 / + 75 °C
Connessioni Pneumatiche	Rc ¼" o ¼" NPT
Connessioni Elettriche	2 x G ½ or ½ NPT
Materiale corpo-coperchio	Alluminio pressofuso Vernciati a polvere epoxy NERO
Materiale staffa Universale	Acc. Inox AISI 304
Peso con staffa	2,8 Kg

TECHINICAL DATA :

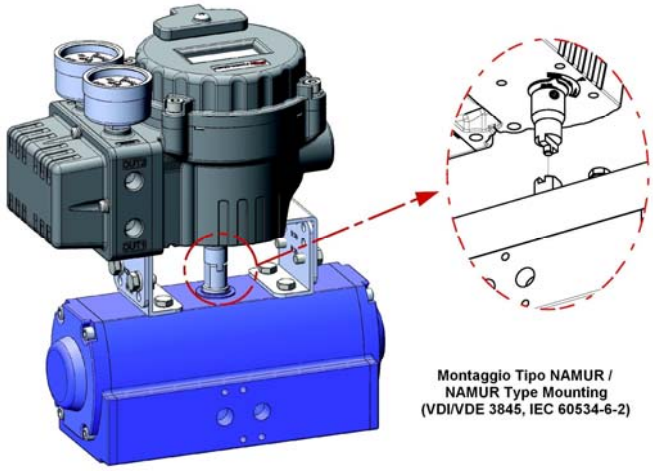
Input Signal	4-20 mA @ 24 VDC
Min. / Max Current	3.6 mA / 50 mA
Voltage Drop (Resistance)	Without HART : 8.7 VDC (435 Ω @ 20 mA) With HART : 9.4 VDC (470 Ω @ 20 mA)
Stroke	25 – 120 °
Supply Air Pressure	1.4 … 7 bar (20 … 100 psi)
Output Pressure Range	0-100 % of supply air pressure
Air Capacity	80 ℓ/min = 4.8 Nm³/h = 2.8 scfm (Supply = 1.4 bar) 233 ℓ/min = 14 Nm³/h = 8.2 scfm (Supply = 6 bar)
Air Consumption	2.8 ℓ/min = 0.17 Nm³/h = 0.1 scfm (Sup = 1.4 ~ 6 bar)
Performance Characteristic	Linearity < ±0.3% F.S Sensitivity < 0.2% F.S Hysteresis < 0.2% F.S Repeatability < 0.2% F.S
LCD Indication	4-digit
Adjustable Speed	1-1000 (lowest 1, highest 1000)
Scan Time	2ms
Shut-off Value	Range 0-10% of position signal
Valve action	Direct Action DA Reverse Action RA
Ambient temperature	-30 / + 75 °C (-22 / +176 °F)
Pneumatic connections	Rc ¼ " or ¼" NPT
Electric Connections	2 x G ½ or ½ NPT
Body and Cover Material	Alluminium die-cast Black powder painted
Multi-size bracket mat.	S.S. AISI 304
Weight with bracket	2,8 Kg

DIMENSIONI mm :

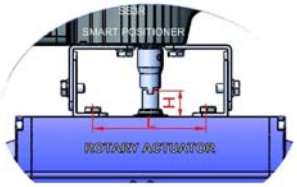
DIMENSIONS mm:



STAFFA UNIVERSALE DI MONTAGGIO :



MULTI-SIZE BRACKET :



Misure Combinate Staffa
Size Variation of Multi-Size Bracket

1) 80 x 30 x 20 (H) , 4) 130 x 30 x 20 (H)
2) 80 x 30 x 30 (H) , 5) 130 x 30 x 30 (H)
3) 80 x 30 x 50 (H) , 6) 130 x 30 x 50 (H)

H : Altezza Albero Attuatore
L : Interasse (80 o 130 mm)
H : Rotary Actuator Shaft Height
L : Length (80 or 130mm)

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CONVERTITORE ELETTROPNEUMATICO DIGITALE
DIGITAL ELECTROPNEUMATIC CONVERTER

IPC/I/E	
03	2014



TIPO / TYPE IPC
CON VALVOLA PIEZOELETTRICA
WITH PIEZOELECTRIC VALVE

DESCRIZIONE
Il convertitore IPC è utilizzato per la trasformazione di un segnale in corrente continua in un segnale pneumatico.
Il convertitore IPC è provvisto di una valvola piezoelettrica ad alta velocità **con possibilità di azzerare il segnale in uscita** per un corretto controllo di valvole di regolazione senza posizionatore pilota.

DESCRIPTION
IPC converter is employed for conversion of a standard DC current signal into a standard pneumatic signal.
IPC converter is provided of high speed piezoelectric valve **with the possibility to obtain zero output signal** for a correct control of pneumatic control valves without pilot positioner.

CARATTERISTICHE :
- **Versione Universale tarabile in campo**
- Custodia in alluminio pressofusa IP 55 molto compatta
- Esente da manutenzione
- Molto veloce (con valvola piezoelettrica)
- Altissima affidabilità
- Campo del segnale in uscita regolabile
- **Zero setting – SENZA SEGNALE RESIDUO**
- Molto resistente alle vibrazioni

FEATURES :
- **Universal version setting on field**
- Die Casting body and cover IP 55 compact design
- Free of maintenance
- High speed (with piezoelectric valve)
- Very High affidability
- Adjustable output measuring span
- **Zero setting – WITHOUT RESIDUAL OUTPUT SIGNAL**
- Very strong against to mechanical vibrations

MATERIALI :

Corpo e Coperchio	Alluminio pressofuso verniciato epoxy colore nero
Staffa DIN EN 50022	Acc. inox AISI 304

MATERIALS :

Body and cover	Die casting alluminium epoxy black colour painted
DIN bracket EN 50022	AISI 304 St. St.

DATI TECNICI :

Connessioni pneum. IN-OUT	1/8 " NPT femmina
Connessione elettrica	PG9
Montaggio	Su canalina 35 mm DIN EN 50022
Grado di protezione	IP 55
Ingresso	4 – 20 mA tecnica 2 fili
Tensione	24V DC
Corrente continua	≤ 100 mA
Consumo energia	≤ 0,50 W
Linearità – Isteresi – ripetibilità	+ / - 0,3 % del campo
Impedenza	425 Ω a 20 mA
Campi disponibili standard	0 – 15 psi … 0 – 1 bar 0 – 18 psi … 0 – 1,2 bar 3 – 15 psi … 0,2 – 1 bar 6 – 30 psi … 0,4 – 2 bar
Campi configurabili	A scelta es. 3-9 psi o 9-12 psi o 10-20 psi
Massima pressione operativa	1,4 – 3,5 bar
Consumo Aria	1,3 l/min
Temperatura Ambiente	-20 °C … + 70 °C
Peso	0,82 Kg

TECHNICAL DATA :

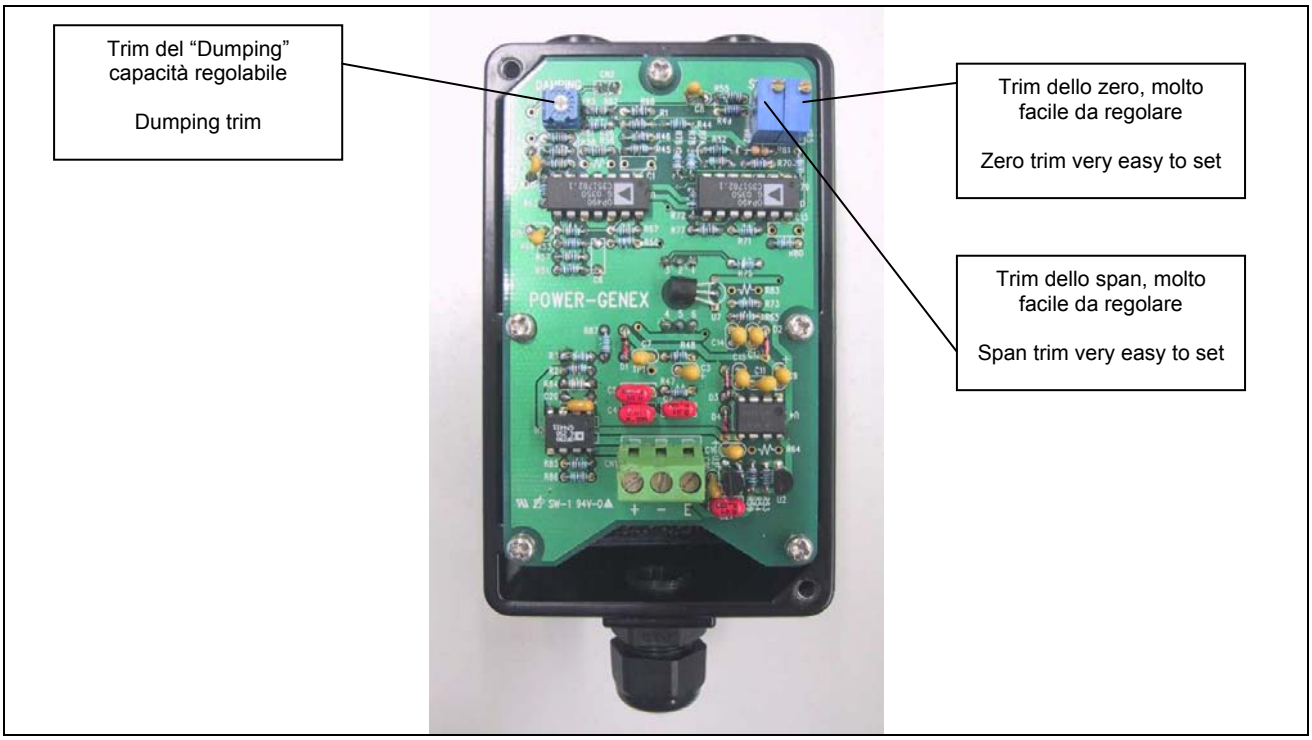
IN-OUT pneum. Connections	1/8 " NPT female
Electric connection	PG9
Mounting	35 mm Rail DIN EN 50022
Protection	IP 55
Input	4 – 20 mA 2-wire
D.C. Voltage	24 V DC
D.C. Current	≤ 100 mA
Power consumption	≤ 0,50 W
Linearity – Hysteresis – repeat.	+ / - 0,3 % of span
Impedance	425 Ω at 20 mA
Standard range	0 – 15 psi … 0 – 1 bar 0 – 18 psi … 0 – 1,2 bar 3 – 15 psi … 0,2 – 1 bar 6 – 30 psi … 0,4 – 2 bar
Configurable range	On Your Own choice i.e. 3-9 psi .. 9-12 psi ..10-20 psi
Max Operating pressure	1,4 – 3,5 bar
Air consumption	1,3 LPM
Operating temperature range	-20 °C … + 70 °C
Weight	0,82 Kg

CONFLOW s.p.a.

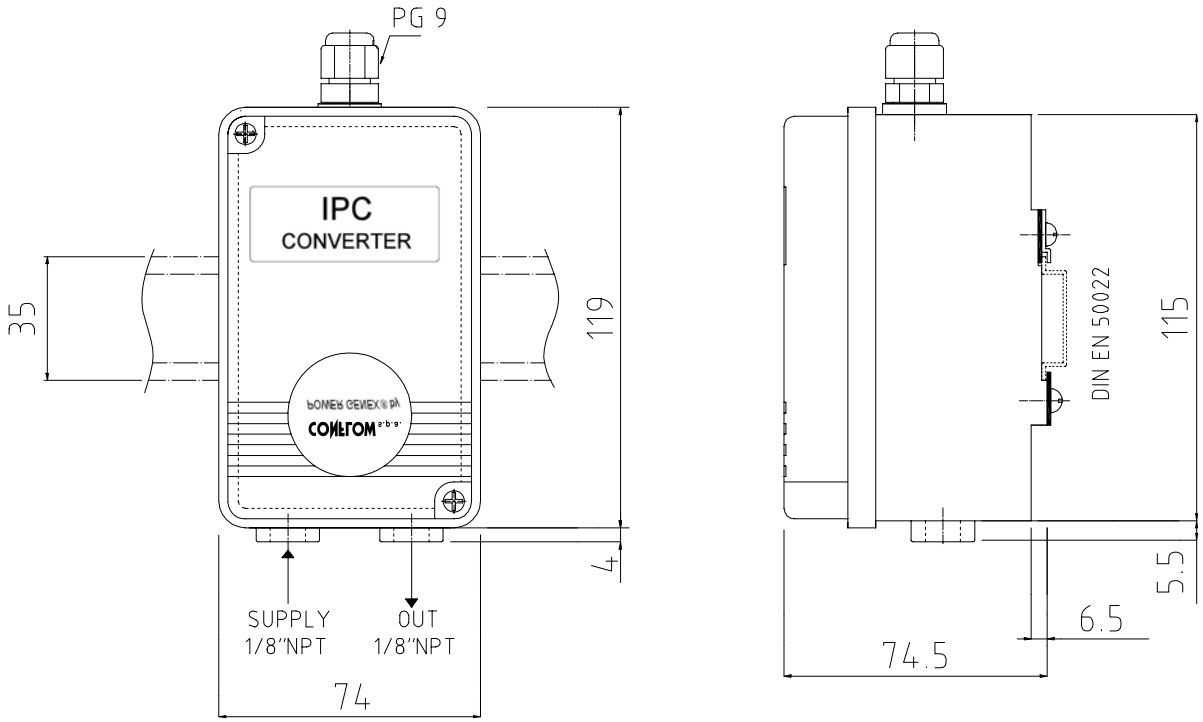
COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 – 650.397
Fax 039/654.018
www.conflow.it

VISTA INTERNA INTERNAL VIEW



DIMENSIONI DI INGOMBRO mm DIMENSIONS mm



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FILTRO RIDUTTORE PER ARIA
AIR FILTER REGULATOR

AFR/I/E	
12	2013



TIPO / TYPE

AFR 35 CE
0 - 35 psi .. 0 - 2,5 bar

AFR 80 CE
0 – 80 psi .. 0 – 6 bar



TIPO / TYPE

ATEX II 2 GD

AFR 35/A
0 - 35 psi .. 0 - 2,5 bar

AFR 80/A
0 – 80 psi .. 0 – 6 bar



TIPO / TYPE

INOX – S.S. AISI 316

AFRX 35 CE
0 - 35 psi .. 0 - 2,5 bar

AFRX 80 CE
0 – 80 psi .. 0 – 6 bar

DESCRIZIONE

Il filtri riduttori Serie AFR sono stati studiati per alimentare, con aria pulita e ad una pressione controllata, tutta la strumentazione di misura, regolazione, macchinari automatici e qualsiasi tipo di apparecchiatura pneumatica o elettropneumatica. L'elevata precisione di regolazione e le loro caratteristiche costruttive industriali, rendono l'apparecchio particolarmente affidabile anche nell'utilizzo in condizioni particolarmente gravose.

DESCRIPTION

The air filter regulators AFR Series are specially designed for feed, with clean air and controlled pressure, all the measuring and control instrumentations, automatic machines and any type of pneumatic devices. The high precision of control and its constructive characteristics make it particulary reliable even in environmental heavy conditions.

CARATTERISTICHE :

- Corpo e tazza in metallo con forma molto compatta
- Manometro in acciaio inox
- Staffa in acciaio inox (predisposta per ancoraggio su staffa posizionatori power-genex CONFLOW)
- Altissima Capacità filtrante
- Valvola di drenaggio
- Regolazione molto accurata e molto resistente alle vibrazioni

FEATURES :

- Metal body and bowl with compact design
- Stainless steel gauge
- Stainless steel mounting bracket (suitable for mounting on power-genex CONFLOW positioners)
- Very High Filtration
- Drain cock
- Very fine regulation and very strong to mechanical vibrations

MATERIALI :

Corpo e tazza	
AFR35 – AFR80 AFR35/A – AFR80/A	Zinco-Alluminio pressofuso
AFRX35 – AFRX80	Acciaio inox AISI 316
Bonnet e Manopola di reg. (con vite di bloccaggio)	(con sistema di bloccaggio)
AFR35 – AFR80 AFR35/A – AFR80/A	Nylon
AFRX35 – AFRX80	Acciaio inox AISI 316
Elemento filtrante	Bronzo
Staffa e Manometro	Acciaio Inox AISI 304

MATERIALS :

Body and bowl	
AFR35 – AFR80 AFR35/A – AFR80/A	Die casting zinc-alluminium
AFRX35 – AFRX80	Stainless Steel AISI 316
Bonnet and handwheel (with lock screw)	(with lock system)
AFR35 – AFR80 AFR35/A – AFR80/A	Nylon
AFRX35 – AFRX80	Stainless Steel AISI 316
Filter element	Bronze
Mounting bracket and gauge	Stainless Steel AISI 304

DATI TECNICI :

Connessioni IN-OUT	Ø1/4 " Rp ISO7 (GAS F)		
Connessione manometro	Ø1/8 " Rp ISO7 (GAS F)		
Campo AFR .. 35	0-35 psi … 0 – 2,5 bar		
Campo AFR .. 80	0-80 psi … 0 – 6 bar		
Massima pressione operativa barg	**AFR ..**	**AFR/A**	**AFRX**
	10	17	15
Minima pressione operativa	1 bar		
Grado di filtraggio	5 µ		
Temperatura Ambiente °C	**AFR ..**	**AFR/A**	**AFRX**
	-5 / + 60	-34 / +65	-20 / +80
Portata	Vedi diagramma pag.2		
Capacità di drenaggio	12 cm3		
Peso Kg	**AFR ..**	**AFR/A**	**AFRX**
	0,44	0.36	0.97

TECHNICAL DATA :

IN-OUT connection	Ø1/4 " Rp ISO7 (GAS F)		
Gauge connection	Ø1/8 " Rp ISO7 (GAS F)		
Range AFR 35	0-35 psi … 0 – 2,5 bar		
Range AFR 80	0-80 psi … 0 – 6 bar		
Max Operating pressure	**AFR ..**	**AFR/A**	**AFRX**
	10	17	15
Min Operating pressure	1 bar		
Filtration	5 µ		
Operating temperature range	**AFR ..**	**AFR/A**	**AFRX**
	-5 / + 60	-34 / +65	-20 / +80
Flow characteristic	See page n°2		
Drain capacity	12 cm3		
Weight Kg	**AFR ..**	**AFR/A**	**AFRX**
	0,44	0.36	0.97

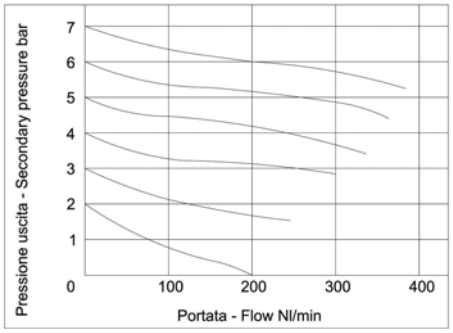
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DIAGRAMMA DI PORTATA
Pressione di ingresso 9 bar

FLOW CHARACTERISTIC
Inlet pressure 9 bar

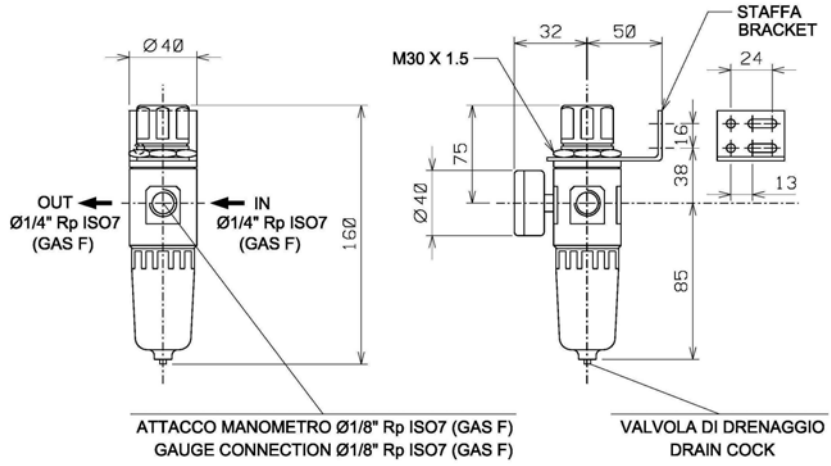


DIMENSIONI DI INGOMBRO in mm

DIMENSIONS mm

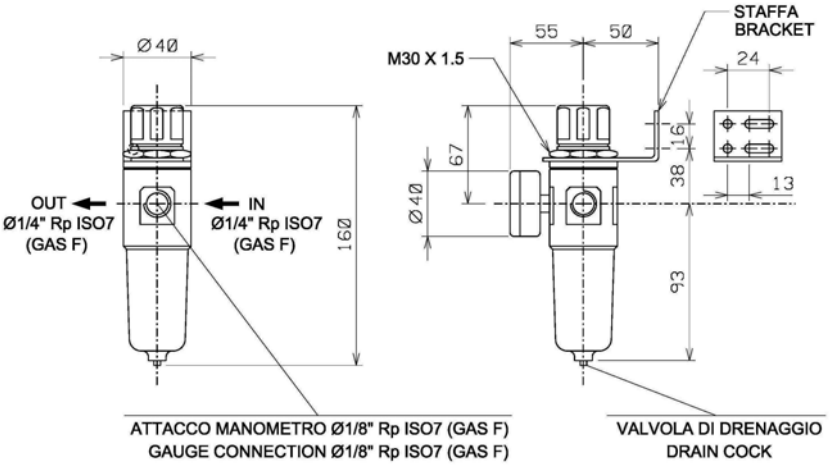
TIPO AFR35 / AFR80

TYPE AFR35 / AFR80



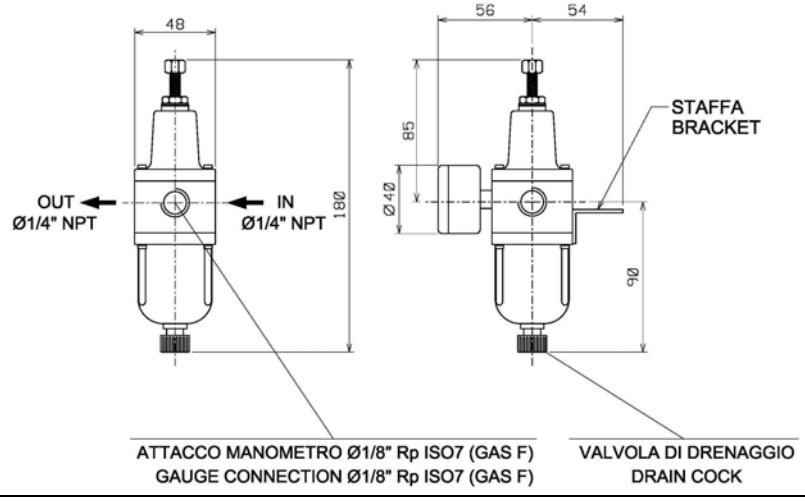
TIPO AFR35/A AFR80/A - ATEX II 2 GD

TYPE AFR35/A AFR80/A - ATEX II 2 GD



TIPO AFRX35 / AFRX80

TYPE AFRX35 / AFRX80



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LOCK-UP PER ARIA
AIR LOCK-UP

LUSLUD/I/E	
12	2011



LUD **LUS**

TIPO / TYPE LUS
Semplice effetto / Single Acting

TIPO / TYPE LUD
Doppio effetto / Double Acting

DESCRIZIONE

Il lock-up Se rie LU è stato studiato pe r bloccare l'aria di alimentazione di un processo, quando la stessa viene a mancare improvvisamente e accidentalmente o la pressione scende sotto il valore di set.

DESCRIPTION

The lock-up LU Series guarante e a stead y proc ess control w hen a supply air is suddenl y failed b y a ccident and its p ressure become s lower than a set pressure.

CARATTERISTICHE :

- Corpo compatto – ingombro limitato
- Molto resistente alle vibrazioni

FEATURES :

- Very compact body
- Very strong to mechanical vibrations

MATERIALI :

Corpo e coperchio	alluminio pressofuso verniciato epoxy colore nero

MATERIALS :

Body and cover	Alluminium die-casting epoxy painted black colour

DATI TECNICI :

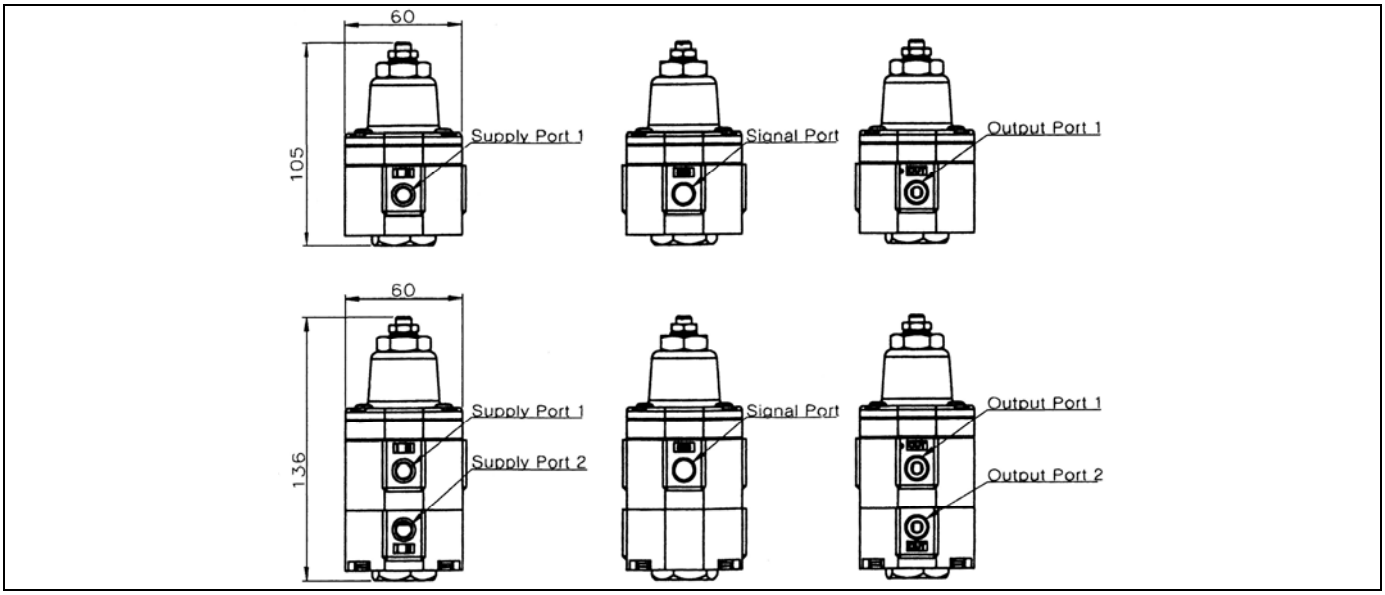
Connessioni Segnale – Aliment. - Output	Ø1/4 " Rc ISO7 o NPT
Massima pressione operativa	10 bar – 150 psi
Pressione operativa	1,4 - 7 bar
Isteresi	0,1 bar
Portata CV	0,9
Temperatura Ambiente e Operativa	-20 °C … + 70 °C
Peso Tipo LUS	0,6 Kg
Peso Tipo LUD	0,8 Kg

TECHNICAL DATA :

Connections Singal – Supply - Output	Ø1/4 " Rc ISO7 or NPT
Max Operating pressure	10 bar – 150 psi
Operating pressure	1,4 - 7 bar
Hysteresis	0,1 bar
CV flow rate	0,9
Operating and Ambient temperature range	-20 °C … + 70 °C
Weight LUS Type	0,6 Kg
Weight LUD Type	0,8 Kg

DIMENSIONI mm :

DIMENSIONS mm :



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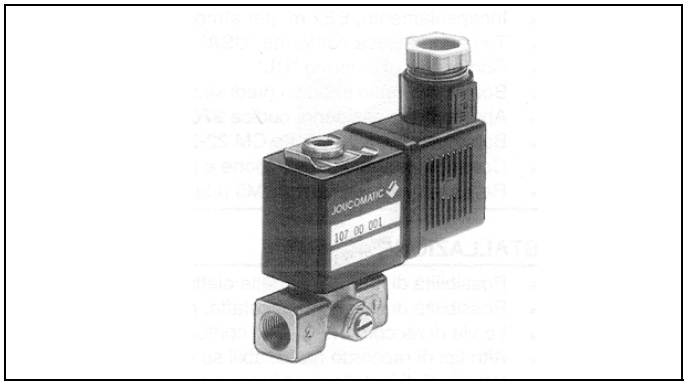
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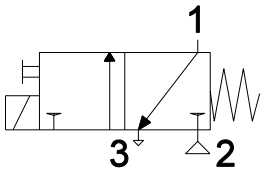
ELETTROVALVOLE A 3 VIE
3 ways Solenoid Valves

EV3/I/E	
06	2011



TIPO/Type EV3

normalmente chiusa a comando diretto
normally closed direct operation



DIAMETRI NOMINALI e ATTACCHI

Ø 1/8" passaggio interno Ø 1,5 mm - Attacchi G 1/8" - 3° via M5
a richiesta Ø 1/4" (esecuzione speciale)

MATERIALI

Corpo - Ottone	Interni - Acc. Inox
Guarnizioni di tenuta - NBR	

FLUIDI DI APPLICAZIONE

Aria, Gas neutri, Acqua, Olio

CONDIZIONI LIMITE DI IMPIEGO

• Massima pressione	20 bar
• Massima press. differenziale	15 bar
• Temperatura di impiego	-10 . +100 °C
• Tempo di risposta Δp 6 bar	5 -10 msec

CARATTERISTICHE ELETTRICHE

• Tensioni CC (~)	24 V
• Tensioni CA (=) 50 Hz (1)	24 - 115 - 230 V
• Spunto	12 VA - 5 W
• Mantenimento	6 VA - 4 W
• Temperatura ambiente	-10 ... + 60 °C
• Protezione	IP 65
• Conformità elettrica	IEC 85-VDE 0580
• Connettore estraibile	Pg 9P
• Classe di isolamento bobina	F
• Terminali	3 x DIN 46244
(1) A richiesta 60 Hz	

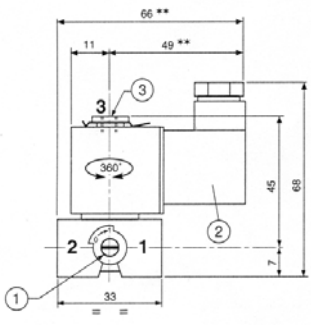
KV - PORTATA IN M3/H

• passaggio Ø 1,5 mm	Kv = 0,06

ACCESSORI

• Comando manuale a vite	compreso

DIMENSIONI DI INGOMBRO (mm)
PESI (Kg)



PESO : 0,138 **2 = Ingresso 1 = Uscita 3 = Scarico**

(1) = Comando manuale (2) = Connettore (3) = 3° via M5

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Sizes and Connections

Ø 1/8" internal passage Ø 1,5 mm - Connections G 1/8" third way M5
on request Ø 1/4" (special execution)

Materials

Body - Brass	Internals - Stainless Steel
Gaskets - NBR	

Fluids Applications

Air, Neutral Gas, Water, Oils

Max Working Conditions

• Maximum pressure	20 bar
• Maximum differential pressure	15 bar
• Use temperature	-10 ... +100 °C
• Response time Δp 6 bar	5 -10 msec

Electric Characteristic

• Tension DC (~)	24 V
• Tension AC (~) 50 Hz(1)	24 - 115 - 230 V
• Take-off	12 VA - 5 W
• Keep line in operation	6 VA - 4 W
• Ambient temperature	-10 ... + 60 °C
• Protection	IP 65
• Electric conformity	IEC 85-VDE 0580
• Extractable Connector	Pg 9P
• Coil isolation class	F
• Terminals	3 x DIN 46244
(1) On request 60 Hz	

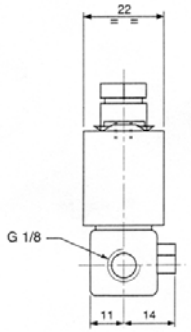
Kv - flow coefficients m3/h

• passage Ø 1,5 mm	Kv = 0,06

Accessories

• Manual screw drive	included

Dimensions (mm)
Weights (Kg)



Weight : 0,138 **2 = In 1 = Out 3 = Discharge**

(1) = Manual drive (2) = Connector (3) = Third way M5

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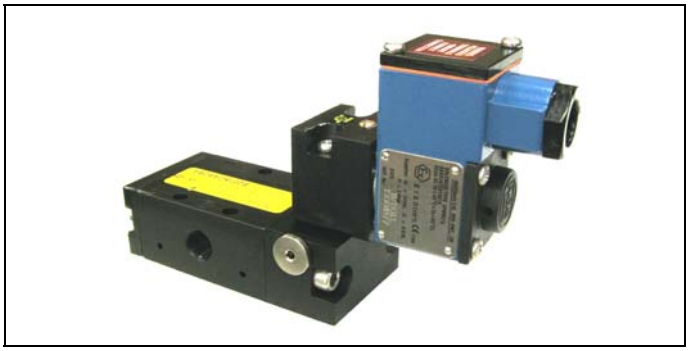
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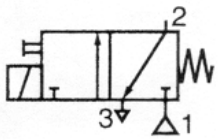
ELETTROVALVOLE A 3 VIE ATEX 2014/34/UE
3 ways Solenoid Valves ATEX 2014/34/UE

EV3EX/I/E	
04	2016



TIPO/Type EV3EX
EEx ia IIC T6 ATEX EX II 1GD

Normalmente chiusa
Normally closed



DIAMETRI NOMINALI E ATTACCHI

Ø 1/4" - Attacchi G 1/4" - 3° via G 1/4"

MATERIALI

Corpo – Alluminio anodizzato Colore nero	Interni – Alluminio anodizzato indurito, impregnato PTFE – molla acc. inox

FLUDI DI APPLICAZIONE

Aria, Gas neutri, Acqua

CONDIZIONI LIMITI DI IMPIEGO

• Massima pressione	10 bar
• Massima press. Differenziale	10 bar
• Minima pressione impiego	2 bar
• Tempo di risposta Δp 6 bar	10 msec

CARATTERISTICHE ELETTRICHE

• Tensioni CC (~) EExia (max 31 Vdc)	24 V
• Spunto	≤ 4 W
• Mantenimento	2,98 W
• Temperatura ambiente corpo	- 40... + 135°C
• Temperatura ambiente bobina	- 40... + 65°C
• Protezione	IP 65
• Conformità elettrica ATEX 2014/34/UE	EExia IICT6 Ex II1GD
• Ingresso cavo	M20 x 1.5
• Classe di isolamento bobina	H
• Classe Temperatura	T6
• Peso	0,9 Kg

KV - PORTATA IN m^3/h

• Passaggio	Kv = 1,02 (CV = 1,2)

ACCESSORI

• Comando manuale a vite	Compreso

SIZES AND CONNECTIONS

Ø 1/4"– Conn. G 1/4" - 3rd way G 1/4"

MATERIALS

Body – Black anodine aluminium	Internals – Hard anodine aluminium, PTFE impregned – s.s. spring

FLUIDS APPLICATIONS

Air, Neutral Gas, Water

MAX WORKING CONDITIONS

• Maximum pressure	10 bar
• Maximum differential pressure	10 bar
• Minimum working pressure	2 bar
• Response time Δp 6 bar	10 msec

ELECTRIC SPECIFICATIONS

• Tension DC (~) EExia (max 31 Vdc)	24 V
• Take-off	≤ 4 W
• Keep line in operation	2,98 W
• Body Ambient temperature	- 40… + 135°C
• Coil Ambient temperature	- 40… + 65°C
• Protection	IP 65
• Electric conformità ATEX 2014/34/UE	EExia IICT6 Ex II1GD
• Cable In	M20 X 1,5
• Coil isolation class	H
• Temperature class	T6
• Weight	0,9 Kg

KV - FLOW COEFFICIENTS m^3/h

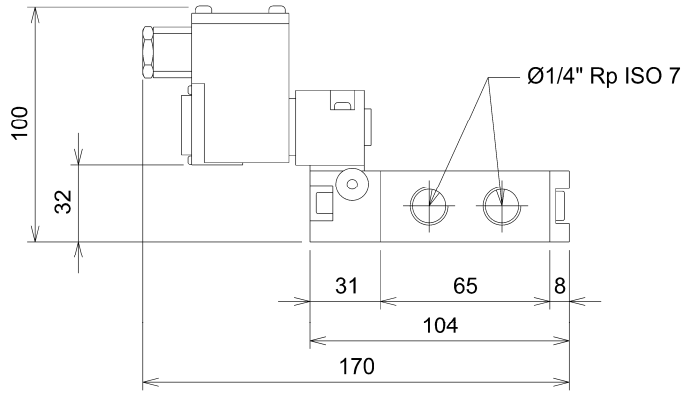
• Passage	Kv = 1,02 (CV = 1,2)

ACCESSORIES

• Manual screw drive	Included

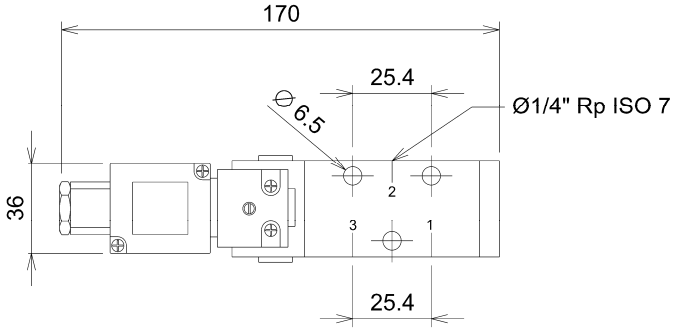
DIMENSIONI DI INGOMBRO (mm.)

1 = Ingresso
2 = Uscita
3 = Scarico NPT 1/4"



DIMENSIONS (mm.)

1 = In
2 = Out
3 = Discharge NPT 1/4"



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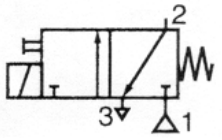
ELETTROVALVOLE A 3 VIE ATEX 2014/34/UE
3 ways Solenoid Valves ATEX 2014/34/UE

EV3EXD/I/E	
04	2016



TIPO/Type EV3EXD
EEx d IIC T6 ATEX EX II 2GD

Normalmente chiusa
Normally closed



DIAMETRI NOMINALI E ATTACCHI

Ø 1/4" - Attacchi G 1/4" - 3° via G 1/4"

SIZES AND CONNECTIONS

Ø 1/4" – Conn. G 1/4" - 3rd way G 1/4"

MATERIALI

Corpo – Ottone	Interni - Acc. Inox Tenute NBR
Corpo – AISI 316	Interni - Acc. Inox AISI 316 Tenute Neoprene

MATERIALS

Body – Brass	Internals - Stainless Steel NBR seal
Body – AISI 316	Internals – S.S. AISI 316 Neoprene seal

FLUDI DI APPLICAZIONE

Aria, Gas neutri, Acqua

FLUIDS APPLICATIONS

Air, Neutral Gas, Water

CONDIZIONI LIMITI DI IMPIEGO

• Massima pressione	10 bar
• Massima press. differenziale	12 bar
• Temperatura di impiego	- 30 … +85 °C
• Tempo di risposta Δp 6 bar	10 msec

MAX WORKING CONDITIONS

• Maximum pressure	10 bar
• Maximum differential pressure	12 bar
• Use temperature	- 30 ... +85 °C
• Response time Δp 6 bar	10 msec

CARATTERISTICHE ELETTRICHE

• Tensioni CC (~) EExia - EExd	24 V
• Tensioni CA (=) 50 Hz (1) EExd	24 - 115 - 230 V
• Spunto	≤ 14 W
• Mantenimento	8 W
• Temperatura ambiente versione Ot	- 30... + 70°C
• Temperatura ambiente versione AISI316 con tenute in Neoprene	- 40... + 70°C
• Protezione	IP 67
• Conformità elettrica ATEX 2014/34/UE	EExdIICT6 Ex II2GD
• Ingresso cavo	NPTF 1/2" (a richiesta M20 x 1.5)
• Classe di isolamento bobina	F
• Classe Temperatura	T6
• Peso	1 Kg

(1) A richiesta 60 Hz

ELECTRIC SPECIFICATIONS

• Tension DC (~) EExia - EExd	24 V
• Tension AC (~) 50 Hz(1) EExd	24 - 115 - 230 V
• Take-off	≤ 14 W
• Keep line in operation	8 W
• Ambient temperature Ot version	- 30... + 70°C
• Ambient temperature AISI 316 version with Neoprene seal	- 40... + 70°C
• Protection	IP 67
• Electric conformità ATEX 2014/34/UE	EExdIICT6 Ex II2GD
• Cable In	NPTF 1/2" (on request M20 x 1.5)
• Coil isolation class	F
• Temperature class	T6
• Weight	1 Kg

(1) On request 60 Hz

KV - PORTATA IN m^3/h

• Passaggio Ø 5 mm	Kv = 0,6 (CV = 0,51)

KV - FLOW COEFFICIENTS m^3/h

• Passage Ø 5 mm	Kv = 0,6 (CV = 0,51)

ACCESSORI

• Comando manuale a vite	a richiesta
• Pressacavo antidefl. EEx d 3/4" NPT	a richiesta

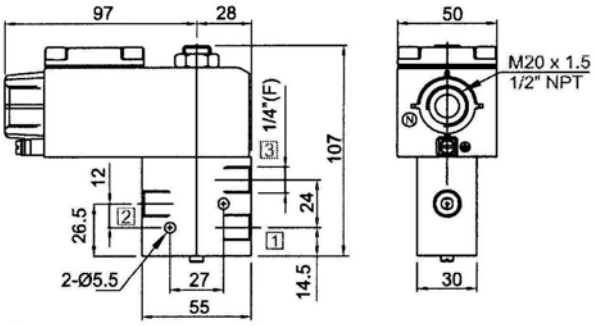
ACCESSORIES

• Manual screw drive	on request
• Cable gland EEx d 3/4" NPT	on request

DIMENSIONI DI INGOMBRO (mm.)

DIMENSIONS (mm.)

1 = Ingresso
2 = Uscita
3 = Scarico NPT 1/4"



1 = In
2 = Out
3 = Discharge NPT 1/4"

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Original P+F

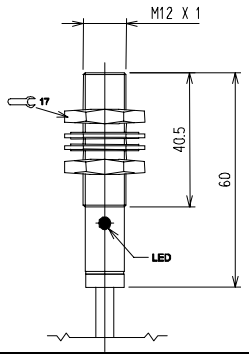
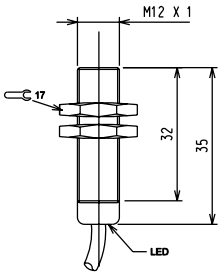
TYPE FCE/I4 PNP NO+NC 10..30 V DC

TYPE FCE/I2N NC 7.7..9.0 V DC

ATEX 2014/34/UE II 1-G EExia IIC T6
ATEX 2014/34/UE II 1-D EExia D20 T…°C
With EExia IIC intrinsically safe switching amplifier

DESCRIPTION

The principle of inductive proximity sensors is based on the interaction between metallic conductors and an electromagnetic alternating field.
When the plate located on the valve stem enters the sensor “Active surface” and operating distance is assured, causes a change on the output.

Description	Type FCE/I4	Type FCE/I2N
Housing size	M12x1	M12x1
Mounting	a filo	A filo
Rated operation distance	2 mm	2 mm
Assured operating distance	0 .. 1.6 mm	0 .. 1.62 mm
Switching functions	PNP antivalente (N0+NC)	NC
Rated operational voltage	24 V DC	8 V DC
Supply voltage	10 .. 30 V DC	7,7 .. 9,0 V DC
Voltage drop	≤ 2.5 V	-
Rated insulation voltage	250 V AC	-
Rated operational current	200 mA	-
Protected against polarity reversal	YES	-
Short circuit protected	YES	-
Repeat accuracy R	≤ 5 %	-
Ambient temperature range	- 25 .. +70 °C	- 25 .. +100 °C
Frequency of operating cycles	800 Hz	-
Utilization categories	DC 13	-
LED function indication	YES	YES
Degree of protection	IEC 529 - IP 68	ATEX 2014/34/UE II 1-G EExia IIC T6 II 1-D EExia D20 T…°C IP 67 with switching amplifier see pag.2
Housing material	Brass Nickel Plated	Stainless steel
Material of sensing face	PA 12	PBT
Connection	Cable	Cable
Number of wires	4	2
Conductor cross section	0,25 mm2	0,34 mm2
DIMENSIONS in mm		

On request Proximity Limit Switches 2 wires NO or NC voltage 20..250 V AC

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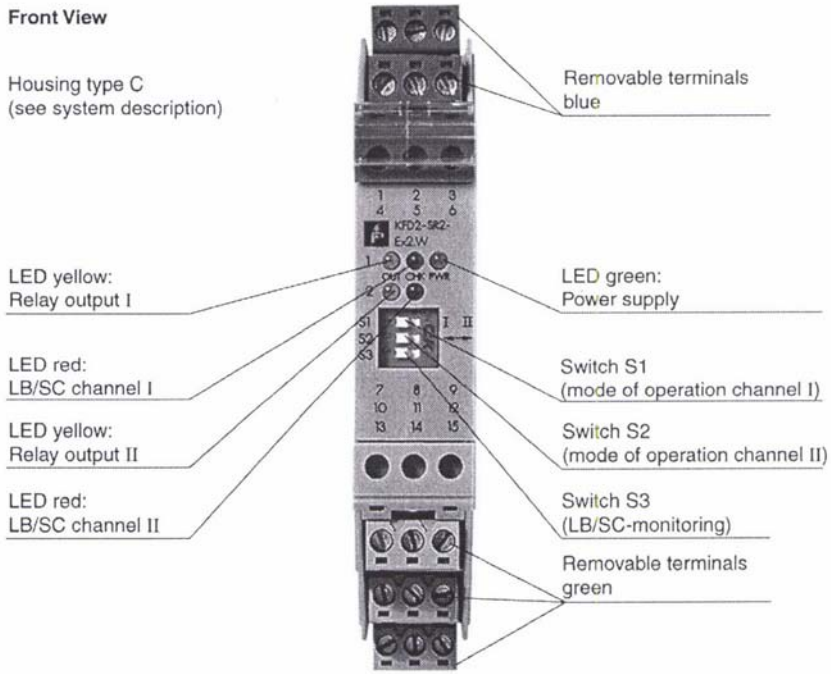
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

Switching Amplifier KF Series for FCE/I2N – ATEX 2014/34/UE

Type	Operating voltage
KFD2-SR2-Ex2.W	20 … 30 V DC
KFA5-SR2-Ex2.W	103,5 … 126 V AC
KFA6-SR2-Ex2.W	207 … 253 V AC

Composition



Description	Switching Amplifier for type FCE/I2N
Supply voltage	24 V DC or 24V AC or.103,5 … 126 V AC or 220 … 230 V AC 45 …65 Hz
Input voltage circuit	Intrinsecally safe
Intrisecally safe category	EExia II C
Input	N° 2
Output contact loading n° 2	253 V AC / 2A / cos φ >0,7; 126.5 V AC / 4A / / cos φ >0,7; 40 V DC / 2A resistive load
Mounting	snap fitting for rail mounting or with mounting screws
Degree of protection	IP 20
Dimensions	20 x 118 x 115 mm

Principle

The switching amplifier process signal from type FCE/I2N.
It may be installed only outside of a hazardous area.
The sensor itself may be installed within the explosion area (zone 1 and 2).
The switching amplifier prevents a dangerous current or voltage levels reaching the hazardous area.

MOUNTING KIT OF PROXIMITY LIMIT SWITCHES ON PNEUMATIC VALVES

MOUNTING KIT COMPOSED BY :

- NAMUR bracket with M8 screw to be assembled on valve yoke.
- Plate to be assembled on valve stem



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BOX FINE CORSA PER ATTUATORI LINEARI
POSITION MONITORING LINEAR SWITCHES

LSB1000L/I/E	
09	2015



TIPO – TYPE LSB	
1000 Linear	**1040 Linear**
2 SPDT	**2 P&F NJ2-V3-N**
Mechanical switches	**Proximity switches**

DESCRIZIONE

I box serie LSB a protezione IP67 garantiscono una perfetta indicazione della posizione di fine corsa sugli attuatori lineari.
Il corpo rigido e compatto, costruito in pressofusione di alluminio, monta all'interno due tipi di fine corsa :
Tipo LSB 1000 con fine corsa meccanici
Tipo LSB 1040 con fine corsa di prossimità P & F
La costruzione con corpo in pressofusione garantisce l'operatività anche in condizioni gravose di lavoro.

DESCRIPTION

Weather proof IP67 LSB series are designed for linear actuator.
Rigid and compact body design constructed from aluminium alloy die-casting capable of operating even in arduous conditions.
There are two different switches configuration:
Type LSB 1000 with mechanical switches
Type LSB 1040 with proximity switches P & F

MATERIALI :

Cassa e coperchio	Alluminio pressofuso verniciata epoxy colore nero
Guarnizioni	NBR O-rings
Camma interna	ABS
Perno	Acc. Inox
Boccola	Bronzo
Viti di chiusura	Acc. Inox
Staffa Namur IE C534	Acciaio inox AISI 304
Peso	0,8 Kg

MATERIALS :

Body and cover	Die casting aluminium epoxy painted black colour
Gaskets	NBR O-rings
Internal Cam	ABS
Shaft	Stainless steel
Bushing	Bronze
Bolts	Stainless steel
Namur bracket IEC 534	Stainless steel AISI 304
Weight	0,8 Kg

DATI TECNICI :

Protezione	IP 67
Verniciatura	A polvere interna ed esterna contro la corrosione – colore NERO
Temperatura ambiente	-30 ° … +100 °C
Connessioni Elettriche	M20 X 1.5 a richiesta NPT ½"
Terminali	8 connessioni (6 per fine corsa – 2 per solenoide)
Fine corsa	2 X SPDT Fine corsa meccanici 2 X PNP Fine corsa di prossimità P & F (Alim. 10 – 30 VDC)
Montaggio	IEC 534

TECHINICAL DATA :

Protection	IP 67
Coating	Epoxy-Polyester in & out against corrosion – black colour
Ambient temperature	-30 ° … +100 °C
Electric connections	M20 X 1.5 on request NPT ½"
Terminal	8 terminals strips (6 for switches, 2 for solenoid connection)
Switches	2 X SPDT Mechanical switches 2 X PNP Proximity sensors P & F (Voltage supply 10 –30 VDC)
Mounting bracket	IEC 534

ACCESSORI INCLUSI :

Staffa Namur **Perno** **Staffa valvola** **Viti di fissaggio**	Acc. Inox AISI 304

INCLUDED ACCESSORIES :

Namur bracket **Pin lever** **Valve stem joint** **Screws**	Stainless Steel AISI 304

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Tel: +39 - (0)39.651705 Fax: +39 - (0)39.654018
E-mail: vendite@conflow.it / sales@conflow.it
Web: www.conflow.it

TIPO LSB 1000 LINEAR caratteristiche fine corsa **:**

Meccanici	SPDT
Contatti	Silver plated
Approvazioni	UL,CSA
Rating elettrici	16 A / 250 V AC 16 A / 8 V DC 10 A / 30 V DC
Temp. Esercizio	-30 … + 130 °C



TYPE LSB 1000 LINEAR – Switches characteristics **:**

Mechanical	SPDT
Contacts	Silver plated
Approvals	UL,CSA
Electrical Rating	16 A / 250 V AC 16 A / 8 V DC 10 A / 30 V DC
Operating Temp.	-30 … + 130 °C

TIPO LSB 1040 LINEAR caratteristiche fine corsa **:**

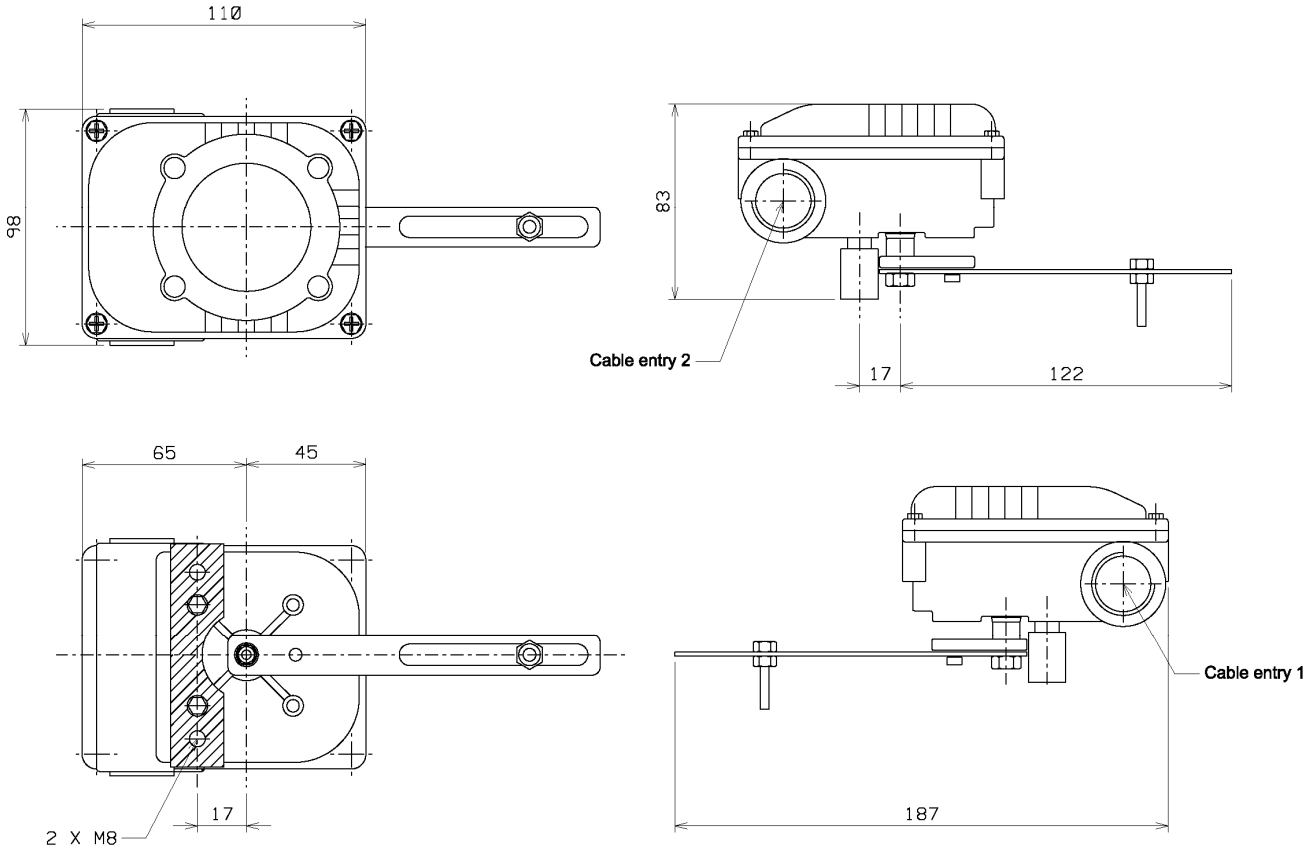
Prossimità	NJ2-V3-N P & F
Volt nominali	8,2 VDC
Frequenza	0-1000 Hz
Isteresi	0,01 … 0,1 mm
Consumo corrente	1mA … 3 mA
Temp. Esercizio	-25 … + 100 °C



TYPE LSB 1040 LINEAR – Switches characteristics **:**

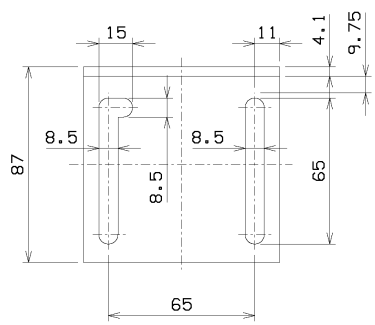
Proximity P&F	NJ2-V3-N P & F
Nominal Voltage	8,2 VDC
Frequency	0-1000 Hz
Hysteresis	0,01 … 0,1 mm
Current consumption	1mA … 3 mA
Operating Temp.	-25 … + 100 °C

DIMENSIONI DI INGOMBRO – Dimensions mm :

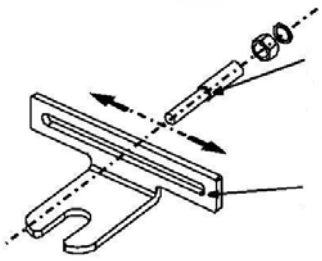


STAFFE DI MONTAGGIO – Mounting brackets :

STAFFA NAMUR / NAMUR BRACKET IEC 534



SISTEMA DI FISSAGGIO ALLA VALVOLA
VALVE STEM JOINT



PERNO LEVA – Acc. Inox AISI 304
PIN LEVER – St. Steel AISI 304

STAFFA PER VALVOLA
VALVE STEM JOINT

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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BOX FINE CORSA PER PISTONI ROTANTI
POSITION MONITORING ROTARY SWITCHES

LSB1000R/I/E	
09	2015



TIPO – TYPE LSB	
1000 Rotary	**1040 Rotary**
2 SPDT	**2 P&F NJ2-V3-N**
Mechanical switches	**Proximity switches**

CE

DESCRIZIONE

I fine corsa serie LSB a protezione IP67 garantiscono una perfetta indicazione su pistoni a quarto di giro.
Il corpo rigido e compatto, costruito in pressofusione di alluminio, monta all'interno due tipi di fine corsa :
Tipo LSB 1000 con fine corsa meccanici
Tipo LSB 1040 con fine corsa di prossimità
La costruzione con corpo in pressofusione garantisce l'operatività anche in condizioni gravose di lavoro.
Il "Dome Indicator" costruito in policarbonato resistente, permette di visualizzare la posizione della valvola o del pistone fino a 50 metri di distanza.

DESCRIPTION

Weather proof LSB series with IP67 protection, primary a rotary position indication device designed to integral valve and NAMUR rotary actuator with a variety of mounting options, internal switch choices and configurations:
Type LSB 1000 with mechanical switches
Type LSB 1040 with proximity switches
Rigid and compact body design constructed from aluminium alloy die-casting capable of operating even in arduous conditions.
"Dome Indicator" constructed from high impact resistance polycarbonate material, which offers instant visual recognition of valve or piston position up to 50 meters.

MATERIALI :

Cassa e coperchio	Alluminio pressofuso verniciata epoxy colore nero	
Guarnizioni	NBR O-rings	
"Dome" Indicatore	Policarbonato	
Camma interna	ABS	
Perno	Acc. Inox	
Boccola	Bronzo	
Viti di chiusura	Acc. Inox	
Staffa Universale VDI / VDE 3845 Namur	Acciaio inox AISI 304	
	80x30x20 (H)	130x30x20 (H)
	80x30x30 (H)	130x30x30 (H)
	80x30x50 (H)	130x30x50 (H)
Peso	0,8 Kg	

MATERIALS :

Body and cover	Die casting aluminium epoxy painted black colour	
Gaskets	NBR O-rings	
Dome Indicator	Polycarbonate	
Internal Cam	ABS	
Shaft	Stainless steel	
Bushing	Bronze	
Bolts	Stainless steel	
Multi-Purpose Bracket VDI / VDE 3845 Namur	Stainless steel AISI 304	
	80x30x20 (H)	130x30x20 (H)
	80x30x30 (H)	130x30x30 (H)
	80x30x50 (H)	130x30x50 (H)
Weight	0,8 Kg	

DATI TECNICI :

Protezione	IP 67
Verniciatura	A polvere interna ed esterna anticorrosione
Temperatura ambiente	-30 ° … +100 °C
Connessioni Elettriche	M20 X 1.5
Terminali	8 connessioni (6 per fine corsa – 2 per solenoide)
Indicatore	0° - 90° giallo aperto – rosso chiuso
Fine corsa	2 X SPDT Fine corsa meccanici 2 X PNP Fine corsa di prossimità P & F (Alim. 10 – 30 VDC)
Montaggio	VDI / VDE 3845 NAMUR

TECHINICAL DATA :

Protection	IP 67
Coating	Epoxy-Polyester inside and outside against corrosion
Ambient temperature	-30 ° … +100 °C
Electric connections	M20 X 1.5
Terminal	8 terminals strips (6 for switches, 2 for solenoid connection)
Position monitoring indicator	0° - 90° yellow-open / red-close
Switches	2 X SPDT Mechanical switches 2 X PNP Proximity sensors P & F (Voltage supply 10 –30 VDC)
Mounting bracket	VDI / VDE 3845 NAMUR

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Web: www.conflow.it

TIPO LSB 1000 caratteristiche fine corsa **:**

Meccanici	SPDT
Contatti	Silver plated
Approvazioni	UL,CSA
Rating elettrici	16 A / 250 V AC 16 A / 8 V DC 10 A / 30 V DC
Temp. Esercizio	-30 … + 130 °C



TYPE LSB 1000 – Switches characteristics **:**

Mechanical	SPDT
Contacts	Silver plated
Approvals	UL,CSA
Electrical Rating	16 A / 250 V AC 16 A / 8 V DC 10 A / 30 V DC
Operating Temp.	-30 … + 130 °C

TIPO LSB 1040 caratteristiche fine corsa **:**

Prossimità	NJ2-V3-N P & F
Volt nominali	8,2 VDC
Frequenza	0-1000 Hz
Isteresi	0,01 … 0,1 mm
Consumo corrente	1mA … 3 mA
Temp. Esercizio	-25 … + 100 °C



TYPE LSB 1040 – Switches characteristics **:**

Proximity P&F	NJ2-V3-N P & F
Nominal Voltage	8,2 VDC
Frequency	0-1000 Hz
Hysteresis	0,01 … 0,1 mm
Current consumption	1mA … 3 mA
Operating Temp.	-25 … + 100 °C

INDICATORE DI POSIZIONE :

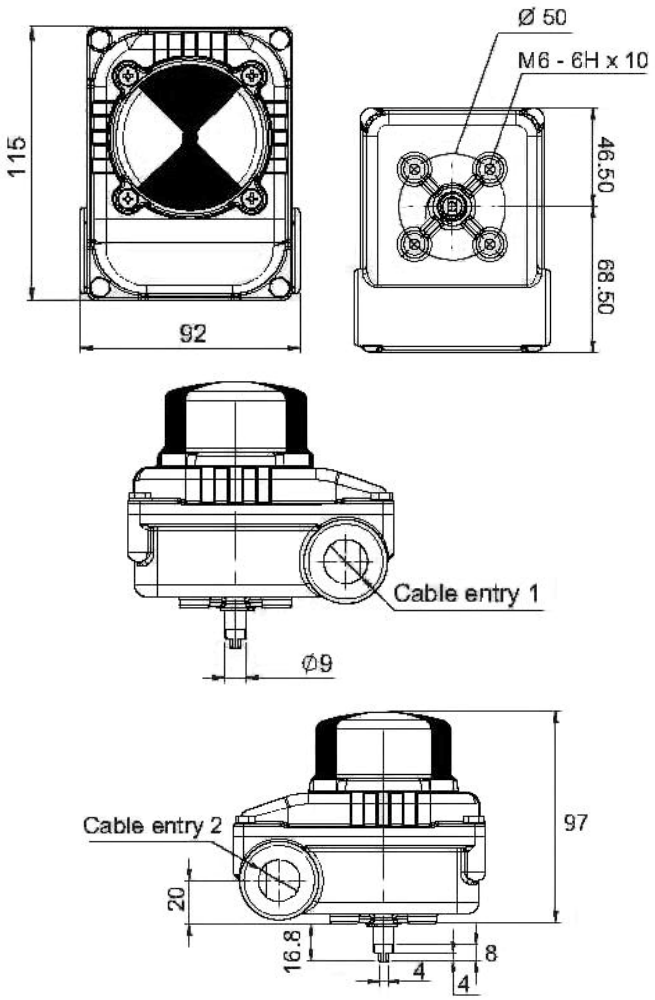
Direttamente collegato con lo stelo principale fornisce la posizione continua.
Costruito in policarbonato trasparente e resistente agli agenti chimici garantisce la visualizzazione della posizione della valvola fino a 50 metri di distanza.
ROSSO posizone di chiusura
GIALLO posizione di apertura



VISUAL POSITION INDICATOR :

Directly engaged with driving shaft to provide continuos position. High strenght, Chemical resistance and trasparent poly carbonate.
High visibility and reliability
RED for close, YELLOW for open

DIMENSIONI DI INGOMBRO – Dimensions mm :



STAFFA UNIVERSALE – Univ. Mounting Bracket

FIGURA 1 – Figure 1	FIGURA 2 – Figure 2
80x30x20 (H)	130x30x20 (H)
80x30x30 (H)	130x30x30 (H)
80x30x50 (H)	130x30x50 (H)

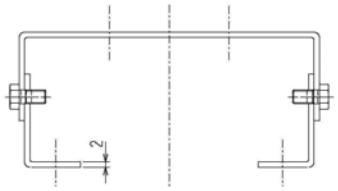
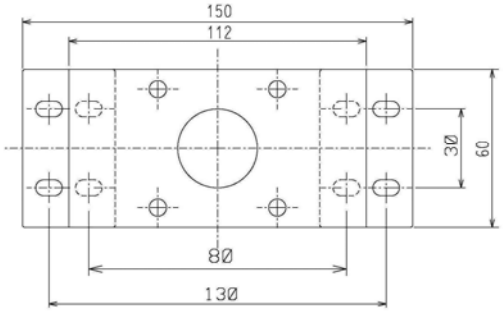


Fig. 1



Fig. 2



I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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BOX FINE CORSA PER ATTUATORI LINEARI
POSITION MONITORING LINEAR SWITCHES

LSB3000L/I/E	
09	2015

Ex d IIC T4/T5/T6



TIPO – TYPE LSB	
3000 Linear Alluminium	**3040 Linear** Alluminium
3100 Linear St.Steel AISI 316	**3140 Linear** St.Steel AISI 316
2 SPDT	**2 P&F** NJ2-V3-N
Mechanical switches	**Proximity switches**

DESCRIZIONE

I box serie LSB a protezione IP67 (IP68 a richiesta) garantiscono una perfetta indicazione della posizione di fine corsa sugli attuatori lineari.
Il corpo rigido e compatto, costruito in pressofusione di alluminio o in fusione di acc. inox, monta all'interno due tipi di fine corsa :
Tipo LSB 3000/3100 con fine corsa meccanici
Tipo LSB 3040/3140 con fine corsa di prossimità P & F
A richiesta versione DPDT e fine corsa GO SWITCHES

DESCRIPTION

Weather proof IP67 LSB series (IP68 on request) are designed for linear actuator.
Rigid and compact body design constructed from aluminium die-casting or casting in st. st. capable of operating even in arduous conditions, with two different switches configuration:
Type LSB 3000/3100 with mechanical switches
Type LSB 3040/3140 with proximity switches P & F
On request version DPDT and with GO SWITCHES

MATERIALI :

Cassa e coperchio	**LSB3000/3040**	Alluminio pressofuso verniciata epoxy colore nero
	LSB3100/3140	Acciaio Inox AISI 316
Guarnizioni		NBR O-rings
Camma interna		ABS
Perno		Acc. Inox
Boccola		Bronzo
Viti di chiusura		Acc. Inox
Staffa Namur IE C534		Acciaio inox AISI 304
Peso	**LSB3000/3040**	1,6 Kg
	LSB3100/3140	3,8 Kg

MATERIALS :

Body and cover	**LSB3000/3040**	Die casting aluminium epoxy painted black colour
	LSB3100/3140	Stainless Steel AISI 316
Gaskets		NBR O-rings
Internal Cam		ABS
Shaft		Stainless steel
Bushing		Bronze
Bolts		Stainless steel
Namur bracket IEC 534		Stainless steel AISI 304
Weight	**LSB3000/3040**	1,6 Kg
	LSB3100/3140	3,8 Kg

DATI TECNICI :

Protezione		IP 67 (IP68 a richiesta)
Verniciatura LSB3000/3040		A polvere interna ed esterna contro la corrosione – colore NERO
Temperatura ambiente	**T4**	-40 ° … +75 °C
	T5	-40° … +90 °C
	T6	-40° … +125 °C
Connessioni Elettriche		M20 X 1.5 a richiesta NPT ½"
Terminali		6 connessioni (6 per fine corsa)
Fine corsa		2 X SPDT Fine corsa meccanici 2 X PNP Fine corsa di prossimità P & F (Alim. 10 – 30 VDC)
Montaggio		IEC 534

TECHINICAL DATA :

Protection		IP 67 (IP68 On request)
Coating LSB3000/3040		Epoxy-Polyester in & out against corrosion – black colour
Ambient temperature	**T4**	-40 ° … +75 °C
	T5	-40° … +90 °C
	T6	-40° … +125 °C
Electric connections		M20 X 1.5 on request NPT ½"
Terminal		6 terminals strips (6 for switches)
Switches		2 X SPDT Mechanical switches 2 X PNP Proximity sensors P & F (Volt. supply 10 –30 VDC)
Mounting bracket		IEC 534

ACCESSORI INCLUSI :

Staffa Namur e staffa valvola Perno e Viti di fissaggio	Acc. Inox AISI 304

INCLUDED ACCESSORIES :

Namur bracket and stem joint Pin lever and Screws	Stainless Steel AISI 304

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E-mail: vendite@conflow.it / sales@conflow.it
Web: www.conflow.it

TIPO LSB 3000-3100 LINEAR caratterist. fine corsa **:**

Meccanici	SPDT
Contatti	Silver plated
Approvazioni	UL,CSA
Rating elettrici	16 A / 250 V AC 16 A / 8 V DC 10 A / 30 V DC
Temp. Esercizio	-30 … + 130 °C



TYPE LSB 3000-3100 LINEAR – Switches charact. **:**

Mechanical	SPDT
Contacts	Silver plated
Approvals	UL,CSA
Electrical Rating	16 A / 250 V AC 16 A / 8 V DC 10 A / 30 V DC
Operating Temp.	-30 … + 130 °C

TIPO LSB 3040-3140 LINEAR caratterist. fine corsa **:**

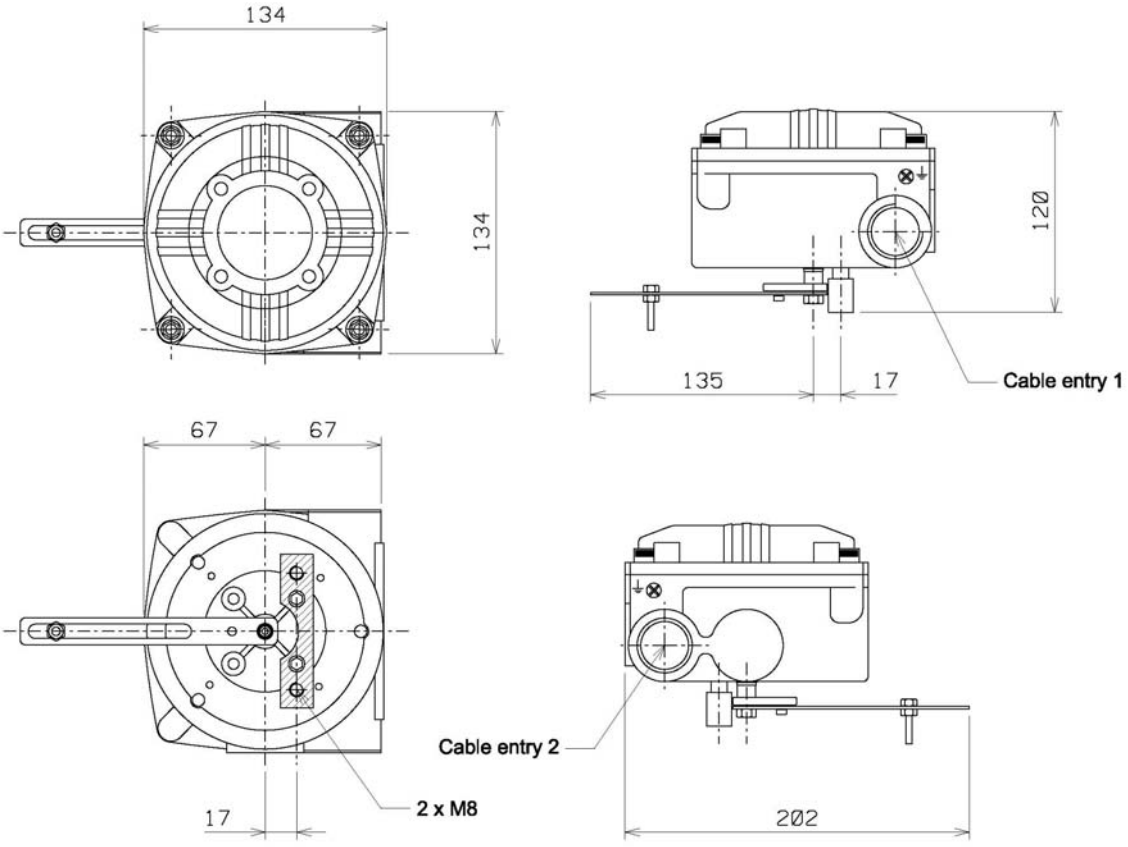
Prossimità	NJ2-V3-N P & F
Volt nominali	8,2 VDC
Frequenza	0-1000 Hz
Isteresi	0,01 … 0,1 mm
Consumo corrente	1mA … 3 mA
Temp. Esercizio	-25 … + 100 °C



TYPE LSB 3040-3140 LINEAR – Switches charact. **:**

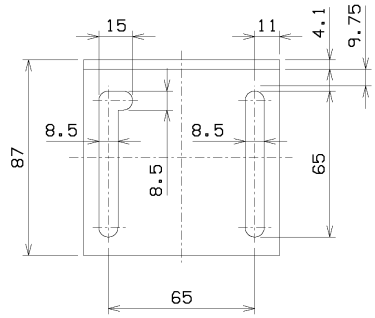
Proximity P&F	NJ2-V3-N P & F
Nominal Voltage	8,2 VDC
Frequency	0-1000 Hz
Hysteresis	0,01 … 0,1 mm
Current consumption	1mA … 3 mA
Operating Temp.	-25 … + 100 °C

DIMENSIONI DI INGOMBRO – Dimensions mm :

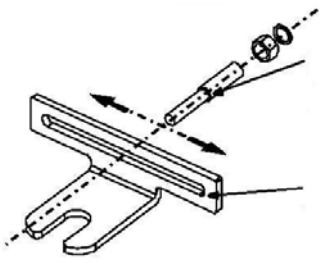


STAFFE DI MONTAGGIO – Mounting brackets :

STAFFA NAMUR / NAMUR BRACKET IEC 534



SISTEMA DI FISSAGGIO ALLA VALVOLA
VALVE STEM JOINT



PERNO LEVA – Acc. Inox AISI 304
PIN LEVER – St. Steel AISI 304

STAFFA PER VALVOLA
VALVE STEM JOINT

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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BOX FINE CORSA PER ATTUATORI ROTANTI
POSITION MONITORING ROTARY SWITCHES

LSB3000R/I/E	
09	2015

Ex d IIC T4/T5/T6



TIPO – TYPE LSB	
3000 Rotary Alluminium	**3040 Rotary** Alluminium
3100 Rotary St.Steel AISI 316	**3140 Rotary** St.Steel AISI 316
2 SPDT	**2 P&F** NJ2-V3-N
Mechanical switches	**Proximity switches**

DESCRIZIONE

I box serie LSB a protezione IP67 (IP68 a richiesta) garantiscono una perfetta indicazione della posizione su pistoni quarto di giro.
Il corpo rigido e compatto, costruito in pressofusione di alluminio o in fusione di acc. inox, monta all'interno due tipi di fine corsa :
Tipo LSB 3000/3100 con fine corsa meccanici
Tipo LSB 3040/3140 con fine corsa di prossimità P & F
A richiesta versione DPDT e fine corsa GO SWITCHES
Il "Dome Indicator" costruito in policarbonato resistente, permette di visualizzare la posizione della valvola o del pistone fino a 50 metri di distanza.

DESCRIPTION

Weather proof IP67 LSB series (IP68 on request) are designed for linear actuator.
Rigid and compact body design constructed from aluminium die-casting or casting in st. st. capable of operating even in arduous conditions, with two different switches configuration:
Type LSB 3000/3100 with mechanical switches
Type LSB 3040/3140 with proximity switches P & F
On request version DPDT and with GO SWITCHES
"Dome Indicator" constructed from high impact resistance polycarbonate material, which offers instant visual recognition of valve or piston position up to 50 meters.

MATERIALI :

Cassa e coperchio	**LSB3000/3040**	Alluminio pressofuso verniciata epoxy colore nero	
	LSB3100/3140	Acciaio Inox AISI 316	
Guarnizioni		NBR O-rings	
Camma interna		ABS	
Perno		Acc. Inox	
Boccola		Bronzo	
Viti di chiusura		Acc. Inox	
Staffa Universale VDI / VDE 3845 Namur		Acciaio inox AISI 304	
		80x30x20 (H)	130x30x20 (H)
		80x30x30 (H)	130x30x30 (H)
		80x30x50 (H)	130x30x50 (H)
Peso	**LSB3000/3040**	1,6 Kg	
	LSB3100/3140	3,8 Kg	

MATERIALS :

Body and cover	**LSB3000/3040**	Die casting aluminium epoxy painted black colour	
	LSB3100/3140	Stainless Steel AISI 316	
Gaskets		NBR O-rings	
Internal Cam		ABS	
Shaft		Stainless steel	
Bushing		Bronze	
Bolts		Stainless steel	
Multi-Purpose Bracket VDI / VDE 3845 Namur		Stainless steel AISI 304	
		80x30x20 (H)	130x30x20 (H)
		80x30x30 (H)	130x30x30 (H)
		80x30x50 (H)	130x30x50 (H)
Weight	**LSB3000/3040**	1,6 Kg	
	LSB3100/3140	3,8 Kg	

DATI TECNICI :

Protezione		IP 67 (IP68 a richiesta)
Verniciatura LSB3000/3040		A polvere interna ed esterna contro la corrosione – colore NERO
Temperatura ambiente	**T4**	-40 ° … +75 °C
	T5	-40° … +90 °C
	T6	-40° … +125 °C
Connessioni Elettriche		M20 X 1.5 a richiesta NPT ½"
Terminali		6 connessioni (6 per fine corsa)
Fine corsa		2 X SPDT Fine corsa meccanici 2 X PNP Fine corsa di prossimità P & F (Alim. 10 – 30 VDC)
Montaggio		VDI / VDE 3845 Namur

TECHINICAL DATA :

Protection		IP 67 (IP68 On request)
Coating LSB3000/3040		Epoxy-Polyester in & out against corrosion – black colour
Ambient temperature	**T4**	-40 ° … +75 °C
	T5	-40° … +90 °C
	T6	-40° … +125 °C
Electric connections		M20 X 1.5 on request NPT ½"
Terminal		6 terminals strips (6 for switches)
Switches		2 X SPDT Mechanical switches 2 X PNP Proximity sensors P & F (Volt. supply 10 –30 VDC)
Mounting bracket		VDI / VDE 3845 Namur

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

Via Lecco, 69/71 - 20864 AGRATE BRIANZA (MB)
Tel: +39 - (0)39.651705 Fax: +39 - (0)39.654018
E-mail: vendite@conflow.it / sales@conflow.it
Web: www.conflow.it

TIPO LSB 3000-3100 caratteristiche fine corsa :

Meccanici	SPDT
Contatti	Silver plated
Approvazioni	UL,CSA
Rating elettrici	16 A / 250 V AC 16 A / 8 V DC 10 A / 30 V DC
Temp. Esercizio	-30 … + 130 °C



TYPE LSB 3000-3100 Switches characteristics :

Mechanical	SPDT
Contacts	Silver plated
Approvals	UL,CSA
Electrical Rating	16 A / 250 V AC 16 A / 8 V DC 10 A / 30 V DC
Operating Temp.	-30 … + 130 °C

TIPO LSB 3040-3140 caratteristiche fine corsa :

Prossimità	NJ2-V3-N P & F
Volt nominali	8,2 VDC
Frequenza	0-1000 Hz
Isteresi	0,01 … 0,1 mm
Consumo corrente	1mA … 3 mA
Temp. Esercizio	-25 … + 100 °C



TYPE LSB 3040-3140 – Switches characteristics :

Proximity P&F	NJ2-V3-N P & F
Nominal Voltage	8,2 VDC
Frequency	0-1000 Hz
Hysteresis	0,01 … 0,1 mm
Current consumption	1mA … 3 mA
Operating Temp.	-25 … + 100 °C

INDICATORE DI POSIZIONE :

Direttamente collegato con lo stelo principale fornisce la posizione continua.
Costruito in policarbonato trasparente e resistente agli agenti chimici garantisce la visualizzazione della posizione della valvola fino a 50 metri di distanza.
ROSSO posizone di chiusura
GIALLO posizione di apertura

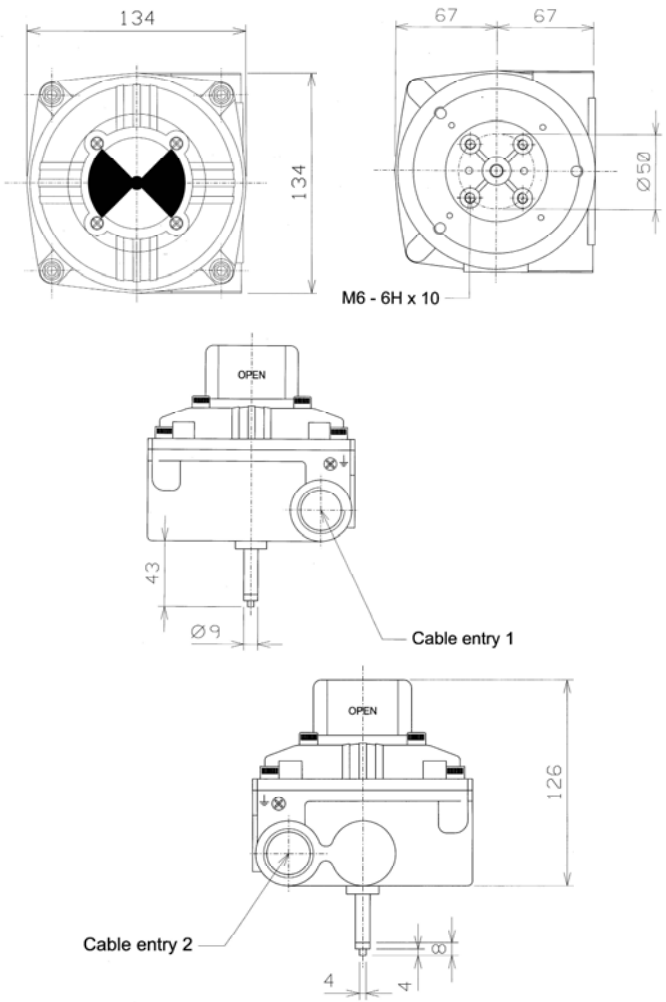




VISUAL POSITION INDICATOR :

Directly engaged with driving shaft to provide continuos position. High strenght, Chemical resistance and trasparent poly carbonate.
High visibility and reliability
RED for close, YELLOW for open

DIMENSIONI DI INGOMBRO – Dimensions mm :



STAFFA UNIVERSALE – Univ. Mounting Bracket

FIGURA 1 – Figure 1	FIGURA 2 – Figure 2
80x30x20 (H)	130x30x20 (H)
80x30x30 (H)	130x30x30 (H)
80x30x50 (H)	130x30x50 (H)

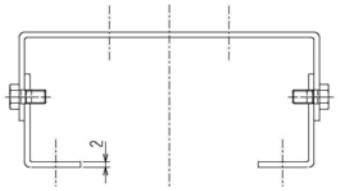
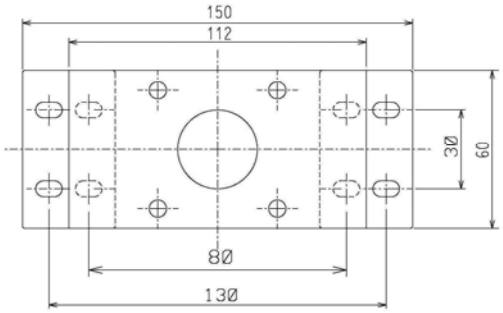


Fig. 1



Fig. 2



I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

Sistema Codifica Prodotti Riduttori di Pressione RP13 – RP14 – RP300 – RP400

Products Codification System Pressure Reducing Valves RP13 – RP14 – RP300 – RP400

Codice Esempio / Example Code

RP13	015	A	16B	15	0	T060	MS

Tipo Type		DN		Materiale Material		Flangiatura Connection		Passaggio Bore		Tenuta Seal	
RP13	RP13	**003**	Ø1/8"	**A**	EN-GJL-250	**15J**	ANSI 150 RJ	**03**	Ø1/8"	**0**	Cl. IV°
RP14	RP14	**005**	Ø3/16"	**B**	Carbon Steel	**15R**	ANSI 150 RF	**05**	Ø3/16"	**R**	PTFE/GR Cl. VI°
RP30	RP300	**006**	Ø1/4"	**C**	AISI 316	**164**	PN16B 4 Holes	**06**	Ø1/4"	**S**	Stellite Gr.6
RP40	RP400	**010**	Ø3/8"			**16B**	PN16 B	**10**	Ø3/8"	**T**	PTFE Cl. VI°
		014	Ø1/2"			**30J**	ANSI 300 RJ	**15**	Ø1/2"	**V**	Cl.V°
		015	DN15			**30R**	ANSI 300 RF	**20**	Ø3/4"		
		019	Ø 3/4"			**40B**	PN40 B	**25**	Ø1"		
		020	DN20			**BSP**	BSP	**32**	Ø1.1/4"		
		024	Ø 1"			**BWE**	But Weld	**40**	Ø1.1/2"		
		025	DN25			**NPT**	NPT	**50**	Ø2"		
		031	Ø1.1/4"			**RCI**	RC-ISO7	**65**	Ø2.1/2"		
		032	DN32			**RPI**	RP-ISO7	**6"**	Ø6"		
		039	Ø 1.1/2"			**SWE**	Socket Weld	**80**	Ø3"		
		040	DN40					**100**	Ø4"		
		049	Ø 2"								
		050	DN50								
		064	Ø2.1/2"								
		065	DN65								
		079	Ø 3"								
		080	DN80								
		099	Ø 4"								
		100	DN100								

Segue Codice Esempio / Follow Example Code

RP13	015	A	16B	15	0	T060	MS

Attuatore Actuator		Membrana Diaphragm	
T050	T50	**MO**	Mineral Oil
T060	T60	**MS**	STD
T080	T80		
T100	T100		
T150	T150		

Sistema Codifica Prodotti Riduttori di Pressione RP10

Products Codification System Pressure Reducing Valves RP10

Codice Esempio / Example Code

RP10	015	B	RPI	15	0	0	B	0

Tipo Type		**DN**		**Materiale** Material		**Flangiatura** Connection		**Passaggio** Bore		**Tenuta** Seal	
RP10	RP10	**014**	Ø1/2"	**B**	Carbon Steel Nickel	**25B**	PN25 B	**15**	Ø1/2"	**0**	Cl. IV°
		015	DN15	**C**	AISI 316	**RPI**	RP-ISO7	**20**	Ø3/4"	**R**	PTFE/GR Cl. VI°
		019	Ø 3/4"					**25**	Ø1"	**T**	PTFE Cl. VI°
		020	DN20							**V**	Cl.V°
		024	Ø 1"								
		025	DN25								

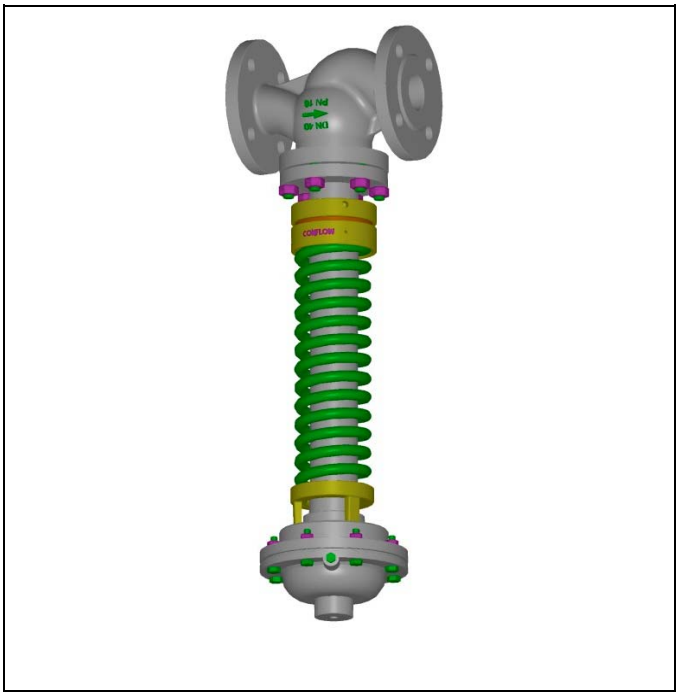
Segue Codice Esempio / Follow Example Code

RP10	015	B	RPI	15	0	0	B	0

Guarnizioni Gaskets		**Molla** Spring		**Presa Impulso** External pressure connection	
0	STD	**B**	Bianca / White	**0**	STD
T	PTFE	**R**	Rossa / Red	**P**	Presa Impulso
		V	Verde / Green		

PRESSURE REDUCING VALVE

RP13/E	
03	2006



TYPE RP13

Cast Iron EN-GJL-250 PN16
Carbon Steel 1.0619 PN40

Face to face EN 558-1 (DIN 3202)

DESCRIPTION

Series RP13 pressure reducing valve is a self-actuated proportional action type.
Composed by a direct action single seat special body valve, flow tries to close, with diaphragm and feedback spring, controlled by downstream pressure.
The Internal balance without bellow guarantees a long life to the valve.

The series RP13 pressure reducing valve can be simply and easly installed and it is suitable for industrial plants where compressed air is not availble for a "pneumatic reducing system" or where the user requires a stable reduced pressure not subjected to frequent variations.

SIZES :

from DN 15 to DN 100

CONNECTIONS :

BODY : flanged UNI 2238 – DIN 2501 PN16 and PN 40
ACTUATOR : female screwed ISO 7 (BSP) Rp 3/8"

MAX WORKING CONDITIONS :

Maximum inlet pressure with steam, air and gases

DN 15-50	DN 65	DN 80	DN 100
23 bar	16 bar	12 bar	9 bar

Maximum inlet pressure with water

DN 15-50	DN 65	DN 80	DN 100
8 bar	5 bar	4 bar	3 bar

- Maximum design temperature : 220 °C
- Maximum downstream reduced pressure (1) : 8 bar
- Minimum downstream reduced pressure : 0.2 bar

REDUCED PRESSURE RANGES :

TYPE	ACTUATOR	RANGE bar
C1	T.60	3 - 8
C2	T.80	1 - 5
C3	T.100	0.5 - 3
C5	T.150	0.2 - 1.5
(1) C1 special	T50	8 – 12 bar

Where control spring ranges overlap, always use the lower range to give better control and precision

ON REQUEST :

- PTFE/GR Soft seal ≤190°C for class VI°
- PTFE Soft seal ≤150°C for class VI°
- Stellited seat - plug degree 6 (recommended with $\Delta p \geq 12$ bar)
- Reduced bore (see table)

ACCESSORIES :

- KIT for STEAM in carton box (**weight 2,2 Kg**) composed by pot, cap, fittings and spring adjusting tool
- KIT for WATER and GASES in plastic bag (**weight 0,2 Kg**) composed by fitting and spring adjusting tool

CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUGS	NOMINAL DIAMETER								
PT cl. IV°	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
Full bore	Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"	Ø 4"
CV	2,42	6,12	9,79	17,45	23,89	26,99	43,03	51,38	62,10
KV	2,06	5,22	8,35	14,88	20,38	23,02	36,70	43,82	52,97
Rangeability	6:1	8:1	11:1	14:1	16:1	16:1	16:1	16:1	16:1
Red. bore	Ø 1/4"	Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"	Ø 2.1/2"	Ø 3"
CV	1,13	2,42	6,12	9,79	17,45	23,89	26,99	43,03	51,38
KV	0,96	2,06	5,22	8,35	14,88	20,38	23,02	36,70	43,82
Rangeability	5:1	6:1	8:1	11:1	14:1	16:1	16:1	16:1	16:1

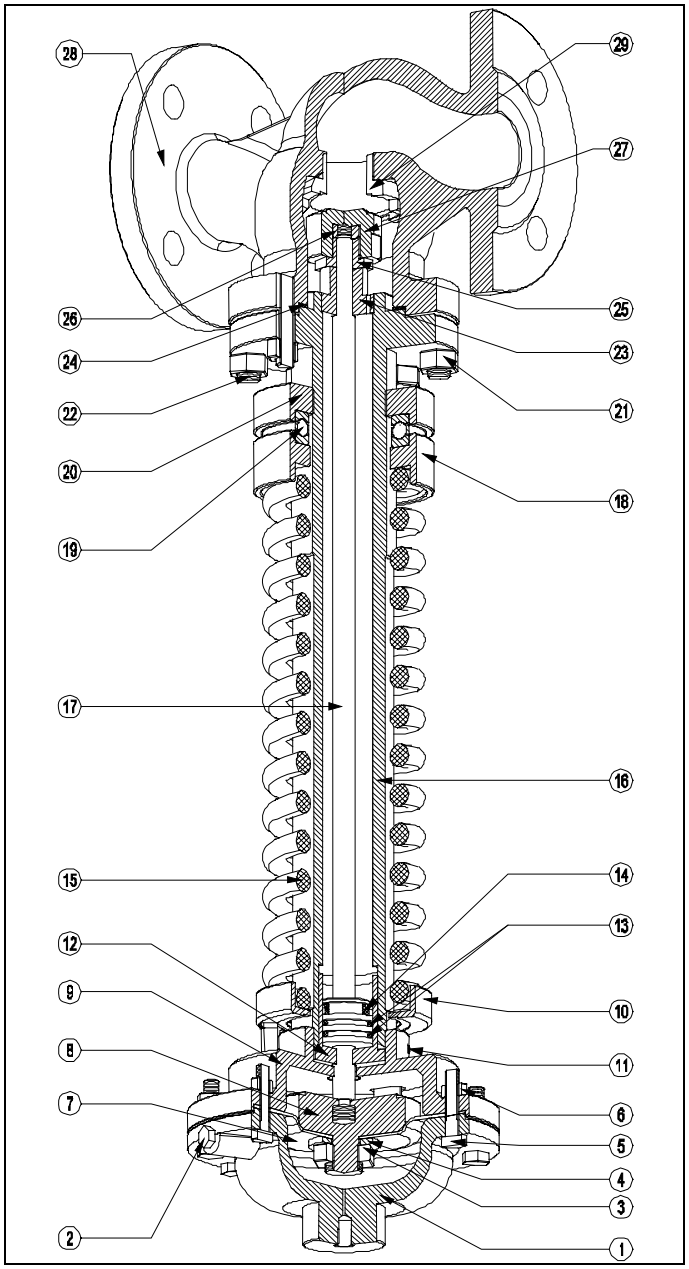
NOTE : The downstream pipe diameter must be sized according to the specific volume of steam reduced pressure, to obtain a steam velocity not exceeding 30-35 m/s (maximum limit value = 40 m/s).

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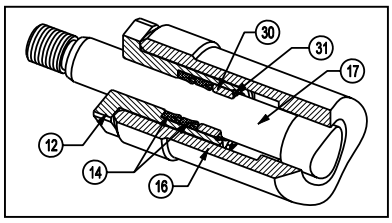
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

Via Lecco, 69/71
20041 AGRATE BRIANZA (MI)
Tel. 039/651.705 - 650.397
Fax 039/654.018

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Upper diaphragm casing	1. G25 cast iron
2. Airvent screw	2. 4.8 DIN 933 galvanized steel
3. Hexagonal locknut	3. AISI 304 st. steel
4. Washer	4. DIN 125 galvanized steel
5. Diaphragm casing bolts	5. 8.8 DIN 933 galvanized steel
6. Diaphragm casing locknuts	6. ISO 4033 galvanized steel
7. Diaphragm	7. RubbertexT60-80 NBR T100-150
8. Diaphragm plate	8. G25 cast iron
9. Lower diaphragm casing	9. G25 cast iron
10. Lower spring plate	10. UNI 7013-72 bronze
11. Grub screw	11. 14.9 DIN 914 steel
12. Airtight guide	12. OT58 brass
13. O-Rings (DN25-DN50)	13. NBR
14. Airtight	14. NBR DIN 3760
15. Spring	15. C85 8 steel (DN15-50) 52SiCrNi5 (DN65-100)
16. Yoke	16. C40 nickel plated steel
17. Stem	17. AISI 304 st. steel
18. Upper spring plate	18. UNI 7013-72 bronze
19. Ball bearing (DN40-100)	19. Ref. 51112 steel (DN40-5O) Ref. 51118 steel (DN65-100)
20. Spring adjusting plate	20. UNI 7013-72 bronze
21. Body locknuts	21. ISO 4033 galvanized steel
22. Stud-bolts	22. Galvanized steel
23. Guide bushing	23. OT58 brass
24. Body gasket	24. Centellen WS 3820 PTFE on request
25. Plug locknut	25. AISI 303 st. steel
26. Entering catch	26. AISI 303 st. steel
27. Plug	27. AISI 304 st. steel
28. Body	28. G25 cast iron or GSC-25 (1.0619) carbon steel
29. Seat	29. AISI 304 st. steel
30. Washer (DN15-20)	30. OT58 brasss
31. Seeger (DN15-20)	31. DIN 471 steel



STEM PACKING
DN 15 - 20

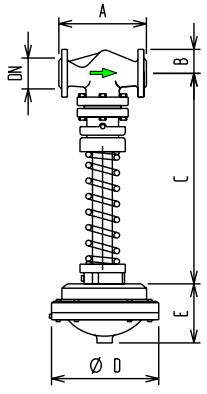
SPARE PARTS KIT

Diaphragm (part. 7)
T.60 code T.60.103
T.80 code T.80.103
T.100 code T.100.103
T.150 code T.150.103

Gaskets kit [parts. 12 - 14 (n°2) – 24 - 30 – 31]
DN 15 code GASKETSRP1315
DN 20 code GASKETSRP1320

Gaskets kit [parts. 13 (n° 2) – 14 – 24]
DN 25-32 code GASKETSRP132532
DN 40-50 code GASKETSRP134050
DN 65-80 code GASKETSRP136580
DN 100 code GASKETSRP13100
(DN 65-80 e DN100 ref. 14 and ref.24 only)

DIMENSIONS (mm) and WEIGHT (Kg)



BODY GROUP

DN	Ø	A	B		C	WEIGHT
15	1/2”	130	47,5		340	5,5
20	3/4"	150	52,5		333	6,5
25	1”	160	57,5		424	10,5
32	1.1/4”	180	70		427	11,5
40	1.1/2”	200	75		476	17,5
50	2”	230	82,5		482	20,0
65	2.1/2”	290	92,5		535	37,0
80	3”	310	100		568	44,0
100	4”	350	**PN16** 110	**PN40** 118	578	53,5

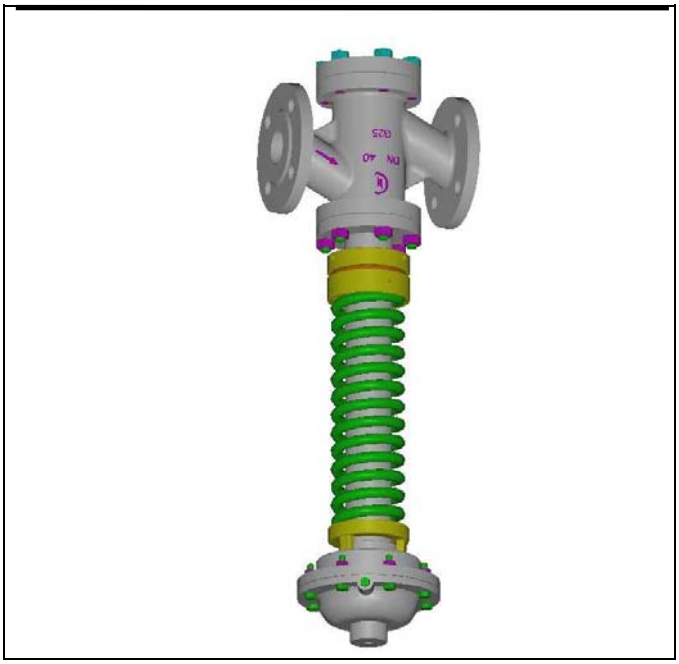
ACTUATOR

ACTUATOR	Ø D	E	WEIGHT
T.60	149	94	3,5
T.80	162	93	5,0
T.100	188	96	6,5
T.150	226	93	10,0

For valve sizing, see leaflet n° 100/VP.
Specifications given are only indicative and not binding for the manufacturer who reserve the right to carry-out any modification deemed necessary without prior notice

PRESSURE REDUCING VALVES
PED 2014/68/UE

RP300/E	
07	2016



TYPE RP300 DN15-50 CE

Carbon Steel ASTM A 216 WCB
Flanged ANSI B16.5 150 RF – 300 RF

Face ti face ASME / ANSI B16.10

DESCRIPTION

Series RP300 pressure reducing valve is a self-actuated proportional action type.
Composed by a direct action single seat special body valve, flow tries to close, with diaphragm and feedback spring, controlled by downstream pressure.
The Internal balance without bellow guarantees a long life to the valve
The series RP130 pressure reducing valve can be simply and easly installed and it is suitable for industrial plants where compressed air is not availble for a "pneumatic reducing system" or where the user requires a stable reduced pressure not subjected to frequent variations.

SIZES :

from DN 15 to DN 50

CONNECTIONS :

BODY : flanged ANSI B 16.5 150 RF 300 RF
ACTUATOR : screwed ISO 7 - Rp 3/8"

MAX WORKING CONDITIONS :

Maximum inlet pressure with steam, air and gases	23 bar
Maximum inlet pressure with water	8 bar
Maximum design temperature	220 °C
Maximum downstream reduced pressure (1)	8 bar
Minimum downstream reduced pressure	0.2 bar

REDUCED PRESSURE RANGES :

TYPE	ACTUATOR	RANGE
C1	T60	3 - 8
C2	T80	1 - 5
C3	T100	0.5 - 3
C5	T150	0.2 - 1.5
(1) C1 special	T50	8 – 12 bar

Where control spring ranges overlap, always use the lower range to give better control and precision

ON REQUEST :

- Soft seal PTFE/GR ≤190°C class VI°
- Soft seal in PTFE ≤150°C class VI°
- Stellited seat - plug degree 6 (recommended with $\Delta p \geq 12$ bar)
- Reduced bore (see table)

ACCESSORIES :

- KIT for STEAM in carton box (**weight 2,2 Kg**) pot (2,3 lt.), cap, fittings and spring adjusting tool
- KIT for WATER and GASES in plastic bag (**weight 0,2 Kg**) composed by fitting and spring adjusting tool



CV = american unit (flowrate in USGPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

PLUG	NOMINAL DIAMETER					
PT cl. IV°	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
FULL BORE	Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"	Ø 2"
CV	2,42	6,12	9,79	17,45	23,89	26,99
KV	2,06	5,22	8,35	14,88	20,38	23,02
Rangeability	6:1	8:1	11:1	14:1	16:1	16:1
RED. BORE	Ø 1/4"	Ø 1/2"	Ø 3/4"	Ø 1"	Ø 1.1/4"	Ø 1.1/2"
CV	1,13	2,42	6,12	9,79	17,45	23,89
KV	0,96	2,06	5,22	8,35	14,88	20,38
Rangeability	5:1	6:1	8:1	11:1	14:1	16:1

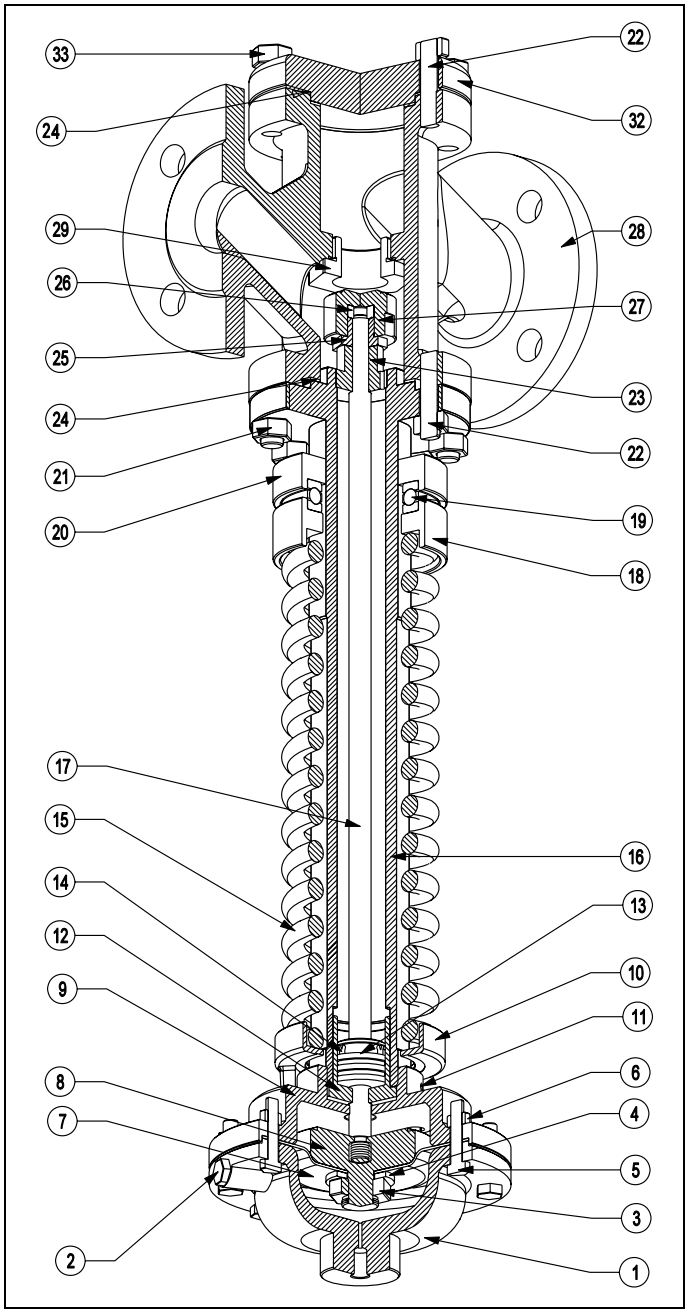
NOTE : The downstream pipe diameter must be sized according to the specific volume of steam reduced pressure, to obtain a steam velocity not exceeding 30-35 m/s (maximum limit value = 40 m/s).

CONFLOW s.p.a.

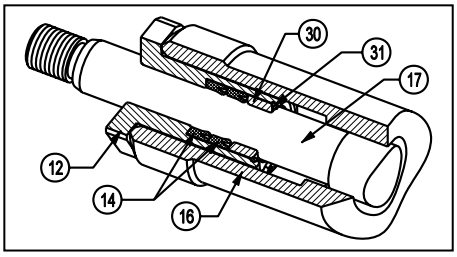
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Upper diaphragm casing	1. EN-GJL-250 cast iron
2. Airvent screw	2. 4.8 DIN 933 galvanized steel
3. Hexagonal locknut	3. AISI 304 st. steel
4. Washer	4. DIN 125 galvanized steel
5. Diaphragm casing bolts	5. 8.8 DIN 933 galvanized steel
6. Diaphragm casing locknuts	6. ISO 4033 galvanized steel
7. Diaphragm	7. RubbertexT60-80 (on req. spec. material for mineral oil) NBR T100-150
8. Diaphragm plate	8. EN-GJL-250 cast iron
9. Lower diaphragm casing	9. EN-GJL-250 cast iron
10. Lower spring plate	10. UNI 7013-72 bronze
11. Grub screw	11. 14.9 DIN 914 steel
12. Airtight guide	12. OT58 brass
13. O-Rings (DN25-DN50)	13. NBR
14. Airtight	14. NBR DIN 3760
15. Spring	15. C85 8 steel (DN15-50)
16. Yoke	16. C40 nickel plated steel
17. Stem	17. AISI 304 st. steel
18. Upper spring plate	18. free-cutting leaded steel galvanized
19. Ball bearing (DN40-50)	19. Ref. 51112 steel (DN40-50)
20. Spring adjusting plate	20. free-cutting leaded steel galvanized
21. Body locknuts	21. ISO 4033 galvanized steel
22. Stud-bolts	22. Galvanized steel
23. Guide bushing	23. OT58 brass
24. Body gasket	24. Centellen WS 3820 PTFE on request
25. Plug locknut	25. AISI 303 st. steel
26. Entering catch	26. AISI 303 st. steel
27. Plug	27. AISI 304 st. steel
28. Body	28. G25 cast iron or GSC-25 (1.0619) carbon steel
29. Seat	29. AISI 304 st. steel
30. Washer (DN15-20)	30. OT58 brass
31. Seeger (DN15-20)	31. DIN 471 steel
32. Lower flange	32. ASTM A 105 nickel plated
33. Lower flange nuts	33. ISO 4033 galvanized steel



STEM PACKING DN 15 - 20

SPARE PARTS KIT

Diaphragm (part. 7)

T.50 cod. JMRP13T050RSTD
T.60 cod. JMRP13T060RSTD
T.80 cod. JMRP13T080RSTD
T.100 cod. JMRP13T100RSTD
T.150 cod. JMRP13T150RSTD

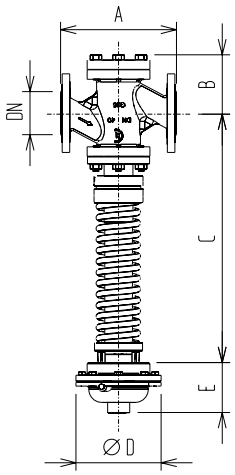
Gaskets kit [parts. 12 - 14 (n°2) – 24 - 30 – 31]

DN 15/20 cod. JRP13TG015020FB-0

Gaskets kit [parts. 13 (n° 2) – 14 – 24]

DN 25-32 cod. JRP13TG025032FB-0
DN 40-50 cod. JRP13TG040050FB-0

DIMENSIONS (mm) and WEIGHT (Kg)



Body Group

DN	Ø	A	B	C	WEIGHT Kg
15	1/2”	190	67	340	5,5
20	3/4"	194	67	333	6,5
25	1”	197	90	424	10,5
32	1.1/4”	212	92	427	11,5
40	1.1/2”	235	108	476	17,5
50	2”	267	108	482	20,0

Actuator

ACTUATOR	Ø D	E	WEIGHT Kg
T60	149	94	3,5
T80	162	94	5,0
T100	188	96	6,5
T150	226	93	10,0

For valve sizing, see leaflet n° 100/VP.

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**



TYPE RP14 DN 65-100

CE

Cast Iron EN-GJL-250 PN16
Carbon Steel 1.0619 PN40

Face to face EN 558-1

DESCRIPTION

Type RP14 pressure reducing valve is a self-actuated proportional action type.
Composed by a direct action single seat special body valve, flow tries to open with a balanced internal system, diaphragm and feedback spring, controlled by downstream pressure.
The Internal balance with piston and pure graphite + antimony ring, without bellow, guarantees a long life to the valve, with the possibility of long term mainteinance.
The action flow opens the plug guarantees, in these large diameters, a fluid proportional action.
Can be easily installed, is suitable on industrial plants where compressed air is not available for a "pneumatic reducing system" or where the user requires a fixed reduced pressure not subjected to frequent variations.

SIZES :

from DN 65 to DN 100

CONNECTIONS :

BODY : flanged EN1092-1– PN16 and PN 40 form B
ACTUATOR : screwed Rp ISO 7 - Rp 3/8"

MAX WORKING CONDITIONS :

Maximum inlet pressure with Steam or Air	23 bar
Maximum design temperature	220 °C
Maximum downstream reduced pressure (1)	8 bar
Minimum downstream reduced pressure	0,2 bar

REDUCED PRESSURE RANGE :

TYPE	ACTUATOR ref.	RANGE bar
C1	T60	3 - 8
C2	T80	1 - 5
C3	T100	0,5 - 3
C5	T150	0,2 – 1,5
(1) C1 special	T50	8 – 12 bar

ON REQUEST :

- PTFE/GR Soft seal ≤190°C class VI°
- PTFE Soft seal ≤150°C class VI°
- Stellited seat and plug grade 6 (recommended with $\Delta p \geq 12$ bar)
- Reduced bore (see table)

ACCESSORIES:

- KIT for STEAM in carton box (**weight 2,2 Kg**) : pot (2,3 lt), cap, fittings and spring adj.tool
- KIT for AIR in plastic bag (**weight 0,2 Kg**) : fittings and spring adjusting tool



CV=american unit (flowrate in GPM with 1 psi of differential pressure)

Kv = metric unit (flowrate in m3/h with 1 bar of differential pressure)

plugs	NOMINAL DIAMETER			
PT cl. IV°	DN 65	DN 80	DN 100	
Full bore	Ø 2.1/2"	Ø 3"	Ø 4"	
CV	**46,07**	**72,59**	**101,24**	
KV	**39,85**	**62,80**	**87,58**	
Rangeability	1:22	1:22	1:22	
Reduced bore	Not applicable	Ø 2.1/2"	Ø 2.1/2"	Ø 3"
CV	-	**46,07**	**46,07**	**72,59**
KV	-	**39,85**	**39,85**	**62,80**
Rangeability	-	1:22	1:22	1:22

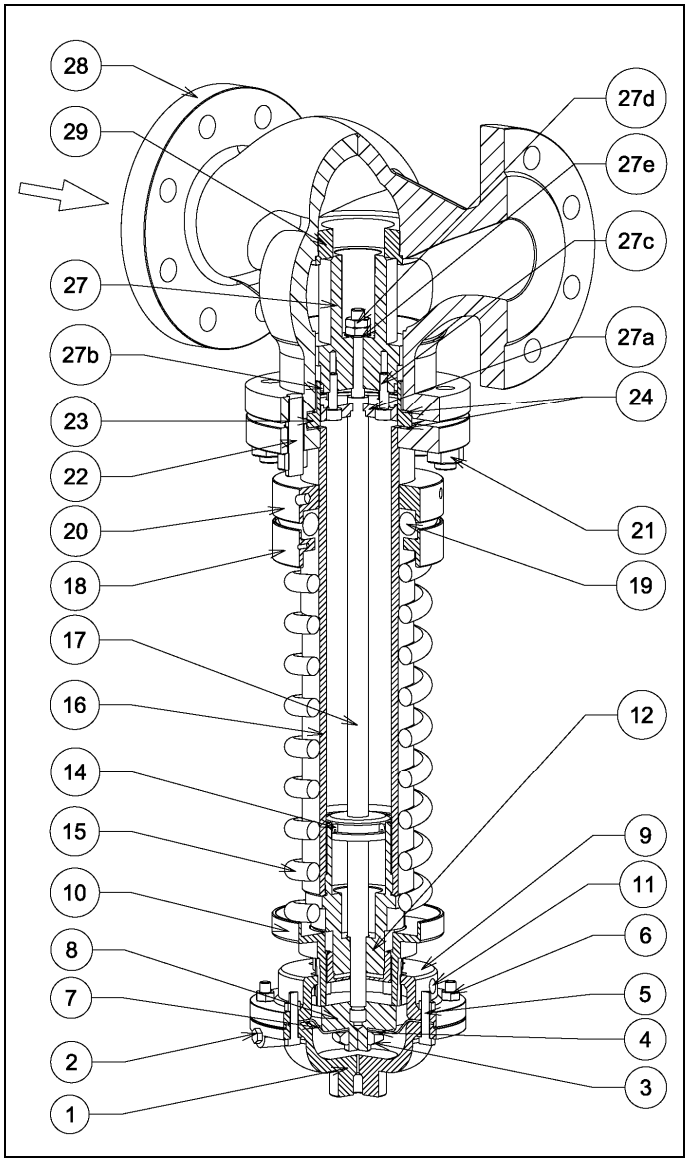
NOTE : The downstream pipe diameter must be sized according to the specific volume of steam reduced pressure, to obtain a steam velocity not exceeding 30-35 m/s (maximum limit value = 40 m/s).

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Upper diaphragm casing	1. Cast iron EN-GJL-250
2. Airvent screw	2. 4.8 DIN 933 galvanized st.
3. Diaphragm locknut	3. AISI 304 St. steel
4. Washer	4. DIN 125 galvanized steel
5. Diaphragm casing bolts	5. 8.8 DIN 933 galvanized st.
6. Diaphragm casing locknuts	6. ISO 4033 galvanized st.
7. Diaphragm	7. RubbertexT60-80 (on request spec. material for mineral oil) NBR T100-150
8. Diaphragm plate	8. Steel A105
9. Lower diaphragm casing	9. Cast iron EN-GJL-250
10. Lower spring plate	10. Bronze UNI 7013-72
11. Grub screw	11. Steel 14.9 DIN 914
12. Airtight guide	12. OT58 Brass
14. Airtight	14. NBR DIN 3760
15. Spring	15. 52SiCrNi5
16. Yoke	16. A105 nichel plated
17. Stem	17. AISI 304 St. steel
18. Upper spring plate	18. AVP galvanized steel
19. Ball bearing	19. Steel Rif. 51118
20. Spring adjusting plate	20. AVP galvanized steel
21. Body locknuts	21. ISO 4033 galvanized steel
22. Stud bolts	22. AVP galvanized steel
23. Plug guide ring	23. AISI 316 St. Steel
24. Body gaskets	24. Centellen WS 3820 on request PTFE
27. Piston plug	27. AISI 316 St. Steel
27a. Piston upper plate	27a. AISI 316 St. Steel
27b. Seal ring	27b. EK3245
27c. Plug locking screw	27c. 14.9 DIN 914 steel
27d. Plug locking locknuts	27d. ISO 4033 galvanized steel
27e. Plug washer	27e. DIN 125 galvanized steel
28. Body	28. Cast iron EN-GJL-250 / Carbon steel 1.0619
29. Seat	29. AISI 316 St. steel

SPARE PARTS KIT

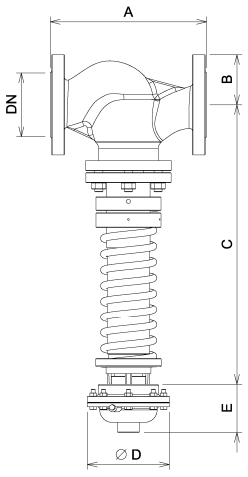
Diaphragm + Plate (ref. 3-4-7-8)

T.50 cod. JMRP13T050RSTD
T.60 cod. JMRP13T060RSTD
T.80 cod. JMRP13T080RSTD
T.100 cod. JMRP13T100RSTD
T.150 cod. JMRP13T150RSTD

Gaskets kit [ref. 14-24]

cod. JRP13TG065080FB-0
cod. JRP13TG100000FB-0

DIMENSIONS (mm) and weight in Kg.



Body Groups

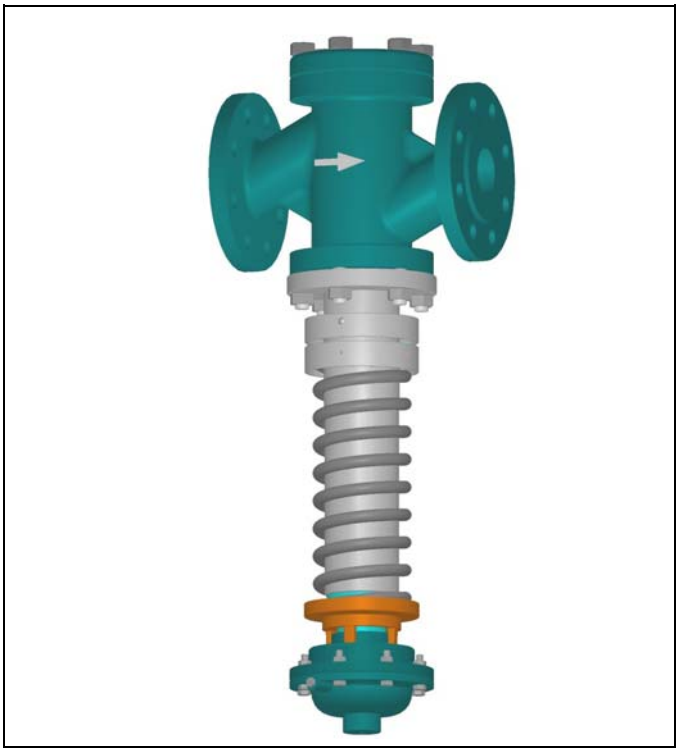
DN	Ø	A	B	C	Weight Kg
65	2.1/2"	290	92,5	535	36,7
80	3"	310	100	568	48,2
100 PN 16	4"	350	110	578	52,7
100 PN 40			118		54,9

Actuators

Type	Ø D	E	Weight Kg
T50 / T60	149	94	3,8
T80	162	94	4,8
T100	188	96	6,0
T150	226	93	7,9

For valve sizing, see leaflet 100/VP Part I°

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**



TYPE RP400 DN 65-100

Carbon Steel ASTM A 216 WCB
Flanged ANSI B16.5 150 RF – 300 RF

Face to face ASME / ANSI B16.10

DESCRIPTION

Type RP14 pressure reducing valve is a self-actuated proportional action type.
Composed by a direct action single seat special body valve, flow tries to open with a balanced internal system, diaphragm and feedback spring, controlled by downstream pressure.
The Internal balance with piston and pure graphite + antimony ring, without bellow, guarantees a long life to the valve, with the possibility of long term mainteinance.
The action flow opens the plug guarantees, in these large diameters, a fluid proportional action.
Can be easily installed, is suitable on industrial plants where compressed air is not available for a "pneumatic reducing system" or where the user requires a fixed reduced pressure not subjected to frequent variations.

SIZES :

from DN 65 to DN 100

CONNECTIONS :

CORPO : flanged ANSI B 16.5 150 RF - 300 RF
on request AA 125-RH
ACTUATOR : screwed Rp ISO 7 - Rp 3/8"

MAX WORKING CONDITIONS :

Maximum inlet pressure with Steam or Air	23 bar
Maximum design temperature	220 °C
Maximum downstream reduced pressure (1)	8 bar
Minimum downstream reduced pressure	0,2 bar

CAMPI DI RIDUZIONE :

TIPO	TESTATA rif.	CAMPO bar
C1	T60	3 - 8
C2	T80	1 - 5
C3	T100	0,5 - 3
C5	T150	0,2 – 1,5
(1) C1 speciale	T50	8 – 12 bar

ON REQUEST :

- PTFE/GR Soft seal ≤190°C class VI°
- PTFE Soft seal ≤150°C class VI°
- Stellited seat and plug grade 6 (recommended with $\Delta p \geq 12$ bar)
- Reduced bore (see table)

REDUCED PRESSURE RANGE :

- KIT for STEAM in carton box (**weight 2,2 Kg**) : pot (2,3 lt), cap, fittings and spring adj. tool
- KIT for AIR in plastic bag (**weight 0,2 Kg**) : fittings and spring adjusting tool



CV=unità americane (portata in GPM con 1 psi di pressione differenziale)

CV=american unit (flowrate in GPM with 1 psi of differential pressure)

PLUGS	DIAMETRO NOMINALE			
PT cl. IV°	DN 65	DN 80	DN 100	
Full bore	Ø 2.1/2"	Ø 3"	Ø 4"	
CV	**46,07**	**72,59**	**101,24**	
KV	**39,85**	**62,80**	**87,58**	
Rangeability	1:22	1:22	1:22	
Preduced bore	Not applicable	Ø 2.1/2"	Ø 2.1/2"	Ø 3"
CV	-	**46,07**	**46,07**	**72,59**
KV	-	**39,85**	**39,85**	**62,80**
Rangeability	-	1:22	1:22	1:22

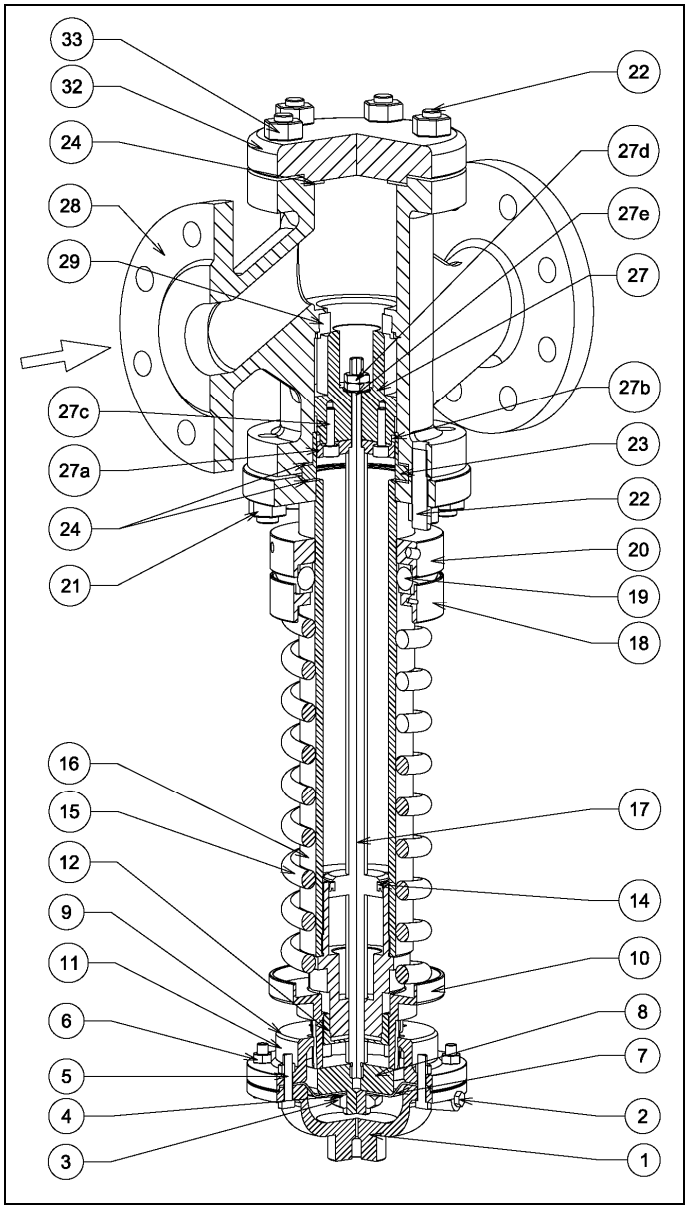
NOTE : The downstream pipe diameter must be sized according to the specific volume of steam reduced pressure, to obtain a steam velocity not exceeding 30-35 m/s (maximum limit value = 40 m/s).

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

COMPONENTS LIST and MATERIALS



COMPONENTS LIST	MATERIALS
1. Upper diaphragm casing	1. Cast iron EN-GJL-250
2. Airvent screw	2. 4.8 DIN 933 galvanized st.
3. Diaphragm locknut	3. AISI 304 St. steel
4. Washer	4. DIN 125 galvanized steel
5. Diaphragm casing bolts	5. 8.8 DIN 933 galvanized st.
6. Dadi serraggio testata	6. ISO 4033 galvanized steel
7. Diaphragm	7. RubbertexT60-80 (on request spec. Material for mineral oil.) NBR T100-150
8. Diaphragm plate	8. Steel A105
9. Lower diaphragm casing	9. Cast iron EN-GJL-250
10. Lower spring plate	10. Bronze UNI 7013-72
11. Grub screw	11. Steel 14.9 DIN 914
12. Airtight guide	12. OT58 Brass
14. Corteco	14. NBR DIN 3760
15. Spring	15. 52SiCrNi5 (DN65-100)
16. Yoke	16. A105 nichel plated.
17. Stem	17. AISI 304 St. steel
18. Upper spring plate	18. AVP galvanized
19. Ball bearing	19. Steel Rif. 51118
20. Spring adjusting plate	20. AVP galvanized
21. Body locknuts	21. ISO 4033 galvanized steel
22. Stud bolts	22. Automatic galvanized st.
23. Plug guide ring	23. AISI 316 St. steel
24. Body gaskets	24. Centellen WS 3820 On request PTFE
27. Piston plug	27. AISI 316 St. steel
27a. Piston upper plate	27a. AISI 316 St. steel
27b. Seal ring	27b. EK3245
27c. Plug locking screw	27c. 14.9 DIN 914 steel
27d. Plug locking locknuts	27d. ISO 4033 galvanized steel
27e. Plug washer	27e. DIN 125 galvanized steel
28. Body	28. Carbon steel 1.0619
29. Seat	29. AISI 316 St. steel
32. Lower flange	32. ASTM A105 steel
33. Lower flange locknuts	33. ISO 4033 galvanized steel

SPARE PARTS KIT

Diaphragm + Plate (ref. 3-4-7-8)

T.50 cod. JMRP13T050RSTD
T.60 cod. JMRP13T060RSTD
T.80 cod. JMRP13T080RSTD

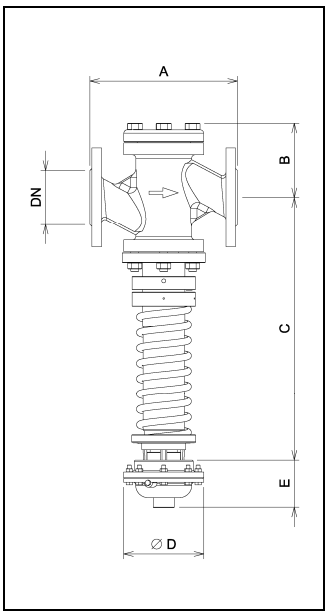
Diaphragm + Plate (ref. 3-4-7-8)

T.100 cod. JMRP13T100RSTD
T.150 cod. JMRP13T150RSTD

Gaskets kit [ref. 14-24]

cod. JRP13TG065080FB-0
cod. JRP13TG100000FB-0

DIMENSIONS (mm) and weight in Kg.



Body groups

DN	Ø	A	B	C	Weight Kg
65	2.1/2" A150RF	292	148	535	48,7
	2.1/2" A300RF				50,7
80	3" A150RF	317	148	568	52,9
	3" A300RF				57,1
100	4" A150RF	368	176	578	76,6
	4" A300RF				84,6

Actuators

Type	Ø D	E	Weight Kg
T60	149	94	3,8
T80	162	94	4,8
T100	188	96	6,0
T150	226	93	7,9

For valve sizing, see leaflet 100/VP Part I°

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PRESSURE REDUCING VALVES
PED 2014/68/UE

RP10/E	
07	2016



TYPE RP10

A105 nickel plated carbon steel PN25
AISI 316 L stainless steel PN25

DESCRIPTION

Series RP10 pressure reducing valve is self-actuated type suitable for steam or not dangerous gases as compressed air or nitrogen.
It is available in two different versions, with screwed or flanged connections and in two different materials :

- nickel plated carbon steel
- AISI 316L stainless steel

SIZES :

Ø 1/2" - 3/4" - 1"
DN 15 - 20 - 25

MAX WORKING CONDITIONS :

Maximum inlet pressure :

- With steam, compressed air and nitrogen : 19 bar

Maximum working temperature	:	210 °C
Maximum downstream reduced pressure	:	8,6 bar
Minimum downstream reduced pressure	:	0,12 bar
Rangeability Ø 1/2" – DN15	:	10:1
Ø 3/4" – Ø1"–DN20–DN25	:	15:1

ON REQUEST :

Ø 1/8" BSP hole complete with AISI 316 L st. st. plug and fitting for external pressure sensing connection (Ø 6 mm)

CONNECTIONS :

Female screwed UNI - ISO 7/1 Rp (gas) PN 25
flanged EN 1092-1 form B PN25

REDUCED PRESSURE RANGE :

White :	0,12	- 1,8	bar	(white plate)
Green :	1,5	- 4	bar	(green plate)
Red :	3	- 8,6	bar	(red plate)

If the reduced pressure value falls in between of two of the above mentioned range, always choose the lower range which ensures greater accuracy and easy positioning.

CV flow rate coefficients (flow in GPM with 1 psi of differential pressure)

NOMINAL DIAMETER		
DN 15	DN 20	DN 25
Ø 1/2"	Ø 3/4"	Ø 1"
1,31	2,68*	4,18*

Kv flow rate coefficients (flow in m3/h with 1 bar of differential pressure)

NOMINAL DIAMETER		
DN 15	DN 20	DN 25
Ø 1/2"	Ø 3/4"	Ø 1"
1,12	2,28*	3,57*

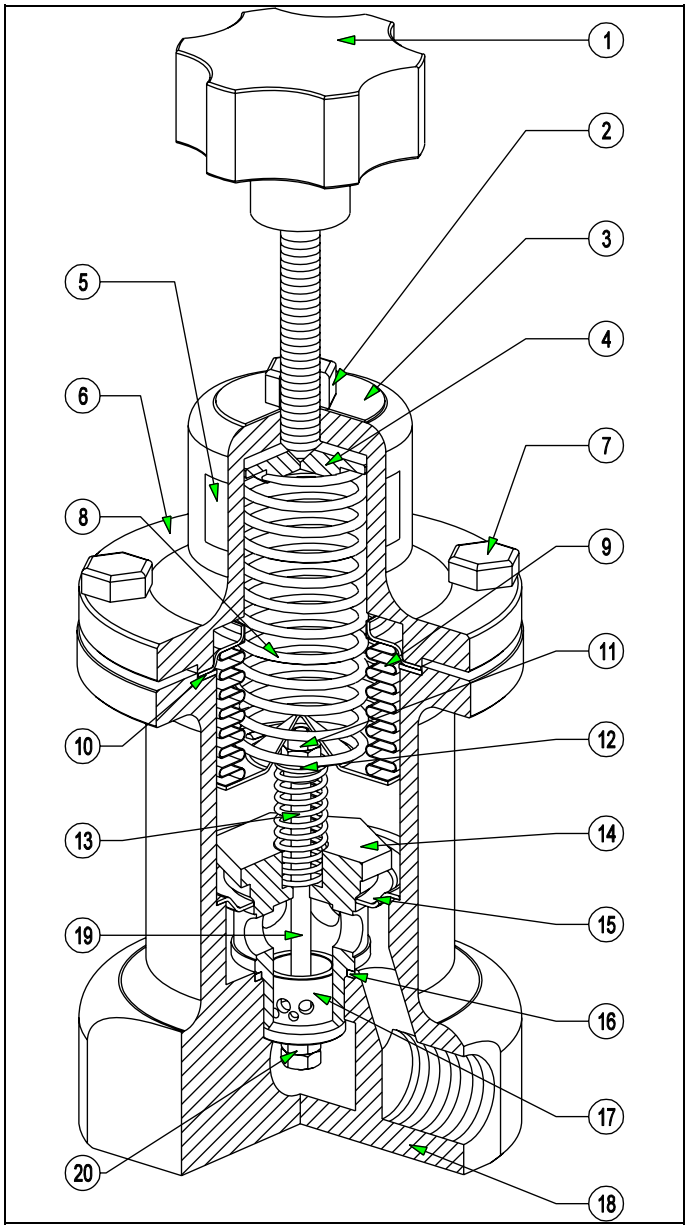
* On request are available the following reduced bores :
Ø 3/4" with reduced bore Ø 1/2" - Ø 1" with reduced bore Ø 3/4" or Ø 1/2"

CONFLOW s.p.a.

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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

COMPONENTS LIST and MATERIALS

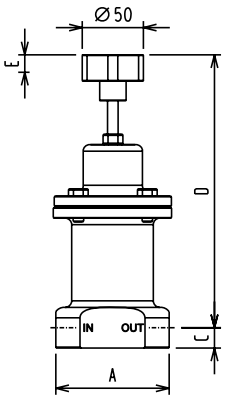


COMPONENTS LIST	MATERIALS
1) Adjustment handwheel	1) Phenoplast with AISI 304 st. steel bolt
2) Handwheel locking nut	2) AISI 304 st. steel
3) Reducing range plate	3) Alluminium
4) Top spring plate	4) OT58 Brass
5) Identification plate	5) Alluminium
6) Cap	6) C40 nickel plated AISI 316 L st. steel
7) n°4 locking nuts	7) AISI 304 st. steel
8) Spring	8) C98 painted steel
9) Bellows	9) AISI 321 st. steel
10) Body gasket	10) Centellen WS3820
11) n°2 stem locking nuts	11) AISI 304 st. steel
12) Plug washer	12) AISI 316 L st. steel
13) Plug spring	13) AISI 316 st. steel
14) Seat	14) AISI 316 L st. steel
15) Bulkhead plate	15) AISI 316 L st. steel
16) Seat gasket	16) Centellen WS3820
17) Plug	17) AISI 316 L st. steel
18) Body	18) C40 nickel plated AISI 316 L st. steel
19) Stem	19) AISI 316 L st. steel
20) Washer and n° 2 plug locknuts	20) AISI 304 st. steel

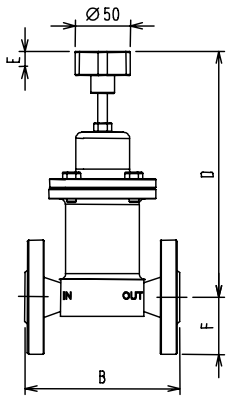
SPARE PARTS KIT

Spring - Plate and body gasket (ref. 3-8-10)	**Bellows and body gasket** (ref. 9-10)	**Complete trim** (Seat-plug) (ref. 10-11-12-13-14-15-16-17)
Code		
JRP10MB (white spring)	**JRP10SGFB00**	**JRP10TC1500** (Ø 1/2"- DN 15)
JRP10MV (green spring)		**JRP10TC2000** (Ø 3/4"- DN 20)
JRP10MR (red spring)		**JRP10TC2500** (Ø 1"- DN 25)
JRP10MU (three spring)		

DIMENSIONS and WEIGHTS



DIMENSIONS mm								WEIGHT Kg.	
DN	Ø	A	B	C	D	E stroke max	F	Screwed	Flanged
15	**1/2"**	86	130	15.5	181	-15	47.5	2,9	4,0
20	3/4"	90	150	18.5	184	-15	52.5	3,1	5,0
25	**1"**	93	160	21.5	187	-15	57.5	3,3	5,9



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TIPO/Type NX-200

96 X 48 mm

Regolatore Digitale a Microprocessore

Multi Input / Output Digital Controller

DATI TECNICI

INGRESSO – visualizzazione con o senza virgola

- RTD : KPt100, Pt100
- Termocoppie Tipo K, J, E, T, R, B, S, L, N, U, W, PL2
- Lineare in tensione 1-5 V DC / -10~20 mV / 0~100 mV
- Lineare in corrente 4-20 mA

INDICAZIONE PV-SP

- 4 digit
- Accuratezza 0,5% FS

TIPO DI CONTROLLO PID con auto tuning

- Banda Proporzionale (P) 0-999% (azione on/off con P=0)
- Azione Integrale (I) 0-6000 sec (azione PD con I=0)
- Azione Derivativa (D) 0-6000 sec (azione PI con D=0)

USCITA

- Relay – relay elettromeccanico SPDT contatti 3A/240 Vac
- Corrente 0-20 mA, 4-20 mA

ALLARMI

- N° 2 di serie – con 21 modalità

RITRASMISSIONE

- 4-20 mA DC

CONDIZIONI OPERATIVE

- Tensione di alimentazione 100…240V, 50/60 Hz
- Assorbimento 10VA
- Temperatura ambiente 0°C~ 50°C
- Temperatura stoccaggio -25°C~ 60°C
- Umidità ambiente 35 ~ 85% RH
- Protezione : frontale IP65 – posteriore IP 20

PESO

- 342 grammi

APPROVAZIONI

- UL - CE

TECHNICAL DATA

INPUT – display range with or without comma

- RTD : KPt100, Pt100
- Thermocouples Type K, J, E, T, R, B, S, L, N, U, W, PL2
- Linear DC Voltage 1-5 V DC / -10~20 mV / 0~100 mV
- Linear DC current 4-20 mA

INIDCATION PV-SP

- 4 digit
- Accuracy 0.5 FS

CONTROL MODE PID with auto tuning

- Proportional band (P) 0-999% (On/off action at P=0)
- Integral Time (I) 0-6000 sec (PD action at I=0)
- Derivative Time (D) 0-6000 sec (PI action at D=0)

OUTPUT

- Relay - electromechanical relay SPDT contacts 3A/240 Vac
- Current 0-20 mA, 4-20 mA

ALARMS

- N° 2 on board – 17 alarm modes available

RETRANSMISSION

- 4-20 mA DC

OPERATION CONDITION

- AC 85…100…240V, 50/60 Hz
- Power consumption 10VA
- Ambient temperature 0°C ~ 50°C
- Storage temperature -25°C~ 60°C
- Ambient Humidity 35 ~ 85% RH
- Protection : IP65 front – IP20 rear

WEIGHT

- 342 gr

APPROVALS

- UL Pending – CE Mark

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Fax 039/654.018
e-mail : vendite@conflow.it
sales@conflow.it

INGRESSO RTD Tipi – Codici - Campi

TIPO	CODICE	CAMPO
• **KPt100**	20	-199.9~ 500.0°C
• **Pt100**	21	-199.9~ 640.0°C

INPUT RTD Types – Codes - Ranges

TYPE	CODE	RANGE
• **KPt100**	20	-199.9~ 500.0°C
• **Pt100**	21	-199.9~ 640.0°C

INGRESSO TC Tipi e Campi

TIPO	CODICE	CAMPO
• **K**	2	-199.9 ~ 999.9°C
• **J**	3	-199.9 ~ 999.9°C
• **E**	4	-199.9 ~ 999.9°C
• **T**	5	-199.9 ~ 400.0°C
• **R**	6	0 ~ 1700°C
• **B**	7	0 ~ 1800°C
• **S**	8	0 ~ 1700°C
• **L**	9	-199.9 ~ 900.0°C
• **N**	10	-200 ~ 1300°C
• **U**	11	-199.9 ~ 400.0°C
• **W**	12	0 ~ 2300°C
• **PL2**	13	0 ~ 1390°C

INPUT TC Types and ranges

TYPE	CODE	RANGE
• **K**	2	-199.9 ~ 999.9°C
• **J**	3	-199.9 ~ 999.9°C
• **E**	4	-199.9 ~ 999.9°C
• **T**	5	-199.9 ~ 400.0°C
• **R**	6	0 ~ 1700°C
• **B**	7	0 ~ 1800°C
• **S**	8	0 ~ 1700°C
• **L**	9	-199.9 ~ 900.0°C
• **N**	10	-200 ~ 1300°C
• **U**	11	-199.9 ~ 400.0°C
• **W**	12	0 ~ 2300°C
• **PL2**	13	0 ~ 1390°C

INGRESSO DC Tipi – Codici - Campi

TIPO	CODICE	SEGNALE
• **DC Voltage**	30	1 ~ 5 V
	32	-10 ~ 20 mV
	33	0 ~ 100 mV
• **DC Current**	30 (1)	4 ~ 20 mA

INPUT RTD Types – Codes - Ranges

TYPE	CODE	SIGNAL
• **DC Voltage**	30	1 ~ 5 V
	32	-10 ~ 20 mV
	33	0 ~ 100 mV
• **DC Current**	30 (1)	4 ~ 20 mA

(1) Con resistenza 250 Ω (compresa) sui terminali di ingresso

(1) With resistance 250 Ω (included) at both input terminals

USCITE

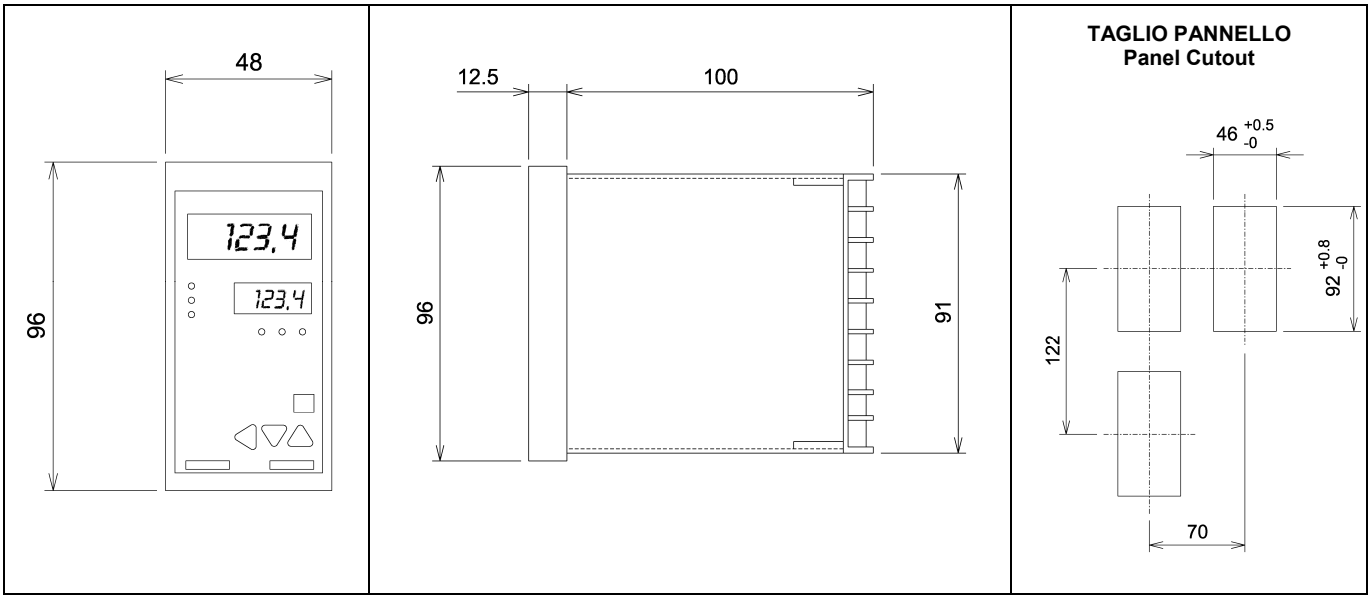
SELEZIONE	USCITA 1		USCITA 2	
	Uscita Relè	SSR/SCR	Uscita Relè	Ritrasm.
0	ON-OFF	-	AL2 Allarme 2	Ritrasmis. In uscita
1	-	SSR		
2	-	SCR (4-20 mA)		
3	Relay	-		

OUTPUT

SELECTION	OUT 1		OUT 2	
	Relay Output	SSR/SCR	Relay Output	Retransm.
0	ON-OFF	-	AL2 Allarm 2	Retransm. output
1	-	SSR		
2	-	SCR (4-20 mA)		
3	Relay	-		

DIMENSIONI in mm

DIMENSIONS mm



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REGOLATORI DIGITALI
DIGITAL CONTROLLERS

Honeywell

DC10101020/I/E	
01	2005



TIPO/Type DC1010 (1/16 DIN)
48 X 48 mm

TIPO/Type DC1020 (1/8 DIN)
96 X 48 mm

DATI TECNICI

INGRESSO 1 (PV)– visualizzazione con o senza virgola
- RTD : Pt100, JPt100, JPt50
- Termocoppie Tipo K, J, R, S, B, E, N, T, W, PL II, U , L
- Lineare in corrente 4-20 mA

INGRESSO 2 (PV) - visualizzazione con o senza virgola
- A richiesta

INDICAZIONE PV-SP
- 4 digit
- Accuratezza 0,5% FS

TIPO DI CONTROLLO
- Banda Proporzionale (P) 0-200% (azione on/off con P=0)
- Azione Integrale (I) 0-3600 sec (azione PD con I=0)
- Azione Derivativa (D) 0-900 sec (azione PI con D=0)

USCITA
- Relay – relay elettromeccanico SPDT contatti 3A/240 Vac
- Corrente 0-20 mA, 4-20 mA
- Tensione 0-5V, 0-10V, 1-5V, 2-10V
- Tre punti servomotore

ALLARMI
- N° 2 di serie – con 17 modalità

RITRASMISSIONE a richiesta SP,PV
- 4-20 mA, 0-20 mA, 0-5V, 0-10V, 1-5V, 2-10V

SET POINT REMOTO a richiesta
- 4-20 mA, 0-20 mA, 0-5V, 0-10V, 1-5V, 2-10V

COMUNICAZIONE a richiesta
- RS-232 oppure RS-485 Protocollo ASCII

CONDIZIONI OPERATIVE
- Tensione di alimentazione 85…265V, 50/60 Hz
- A richiesta 24 V DC (corrente continua)
- Assorbimento 8VA (110V), 12VA (220V)
- Temperatura ambiente –20°C~ 65°C
- Umidità ambiente 50 ~ 85% RH
- Protezione : frontale IP65 – posteriore IP 20

PESO
- DC1010 = 160 grammi
- DC1020 = 220 grammi

APPROVAZIONI
- UL - CE

TECHNICAL DATA

INPUT 1 (PV) – display range with or without comma
- RTD : Pt100, JPt100, JPt50
- Thermocouples Type K, J, R, S, B, E, N, T, W, PL II, U , L
- Linear current 4-20 mA

INPUT 2 (PV) – display range with or without comma
- On request

INDICATION PV-SP
- 4 digit
- Accuracy 0.5 FS

CONTROL MODE
- Proportional band (P) 0-200% (On/off action at P=0)
- Integral Time (I) 0-3600 sec (PD action at I=0)
- Derivative Time (D) 0-900 sec (PI action at D=0)

OUTPUT
- Relay - electromechanical relay SPDT contacts 3A/240 Vac
- Current 0-20 mA, 4-20 mA
- Voltage 0-5V, 0-10V, 1-5V, 2-10V
- Servo motor valve control (open loop circuit)

ALARMS
- N° 2 on board – 17 alarm modes available

RETRANSMISSION on request SP, PV
- 4-20 mA, 0-20 mA, 0-5V, 0-10V, 1-5V, 2-10V

REMOTE SP on request
- 4-20 mA, 0-20 mA, 0-5V, 0-10V, 1-5V, 2-10V

COMMUNICATION on request
- RS-232 or RS-485 ASCII Protocol

OPERATION CONDITION
- AC 85…265V, 50/60 Hz
- On request 24 V DC
- Power consumption 8VA (110V), 12VA (220V)
- Ambient temperature –20°C ~ 65°C
- Ambient Humidity 50 ~ 85% RH
- Protection : IP65 front – IP20 rear

WEIGHT
- DC1010 = 160 gr
- DC1020 = 220 gr

APPROVALS
- UL Pending – CE Mark

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sales@conflow.it

RTD Tipi e Campi

• PT100 • JPt100 • JPt50	0.0~ 200.0°C	0.0~ 400.0°C	0.0~ 600.0°C

RTD Types and ranges

• PT100 • JPt100 • JPt50	0.0~ 200.0°C	0.0~ 400.0°C	0.0~ 600.0°C

TC Tipi e Campi

• K e J	0.0~ 800.0°C	0.0~ 1000.0°C	0.0~ 1200.0°C
• R e S	0.0~ 1769°C		
• B	0.0~ 1820°C		
• E	0.0~ 800°C	0.0~ 1000°C	
• N	0.0~ 1200°C	0.0~ 1300°C	
• T	-199.9~ 400.0°C	-199.9~ 200.0°C	0.0~ 350.0°C
• W	0.0~ 2000°C	0.0~ 2320°C	
• PL II	0.0~ 1300°C	0.0~ 1390°C	
• U	-199.9~ 600.0°C	-199.9~ 200.0°C	0.0~ 400.0°C
• L	0.0~ 400.0°C	0.0~ 800.0°C	

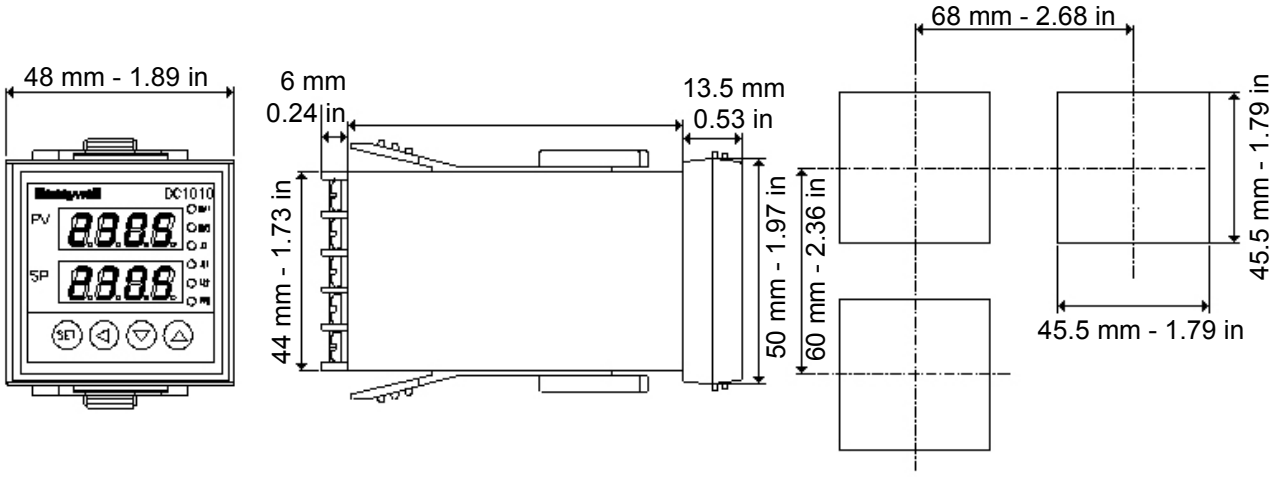
TC Types and ranges

• K & J	0.0~ 800.0°C	0.0~ 1000.0°C	0.0~ 1200.0°C
• R & S	0.0~ 1769°C		
• B	0.0~ 1820°C		
• E	0.0~ 800°C	0.0~ 1000°C	
• N	0.0~ 1200°C	0.0~ 1300°C	
• T	-199.9~ 400.0°C	-199.9~ 200.0°C	0.0~ 350.0°C
• W	0.0~ 2000°C	0.0~ 2320°C	
• PL II	0.0~ 1300°C	0.0~ 1390°C	
• U	-199.9~ 600.0°C	-199.9~ 200.0°C	0.0~ 400.0°C
• L	0.0~ 400.0°C	0.0~ 800.0°C	

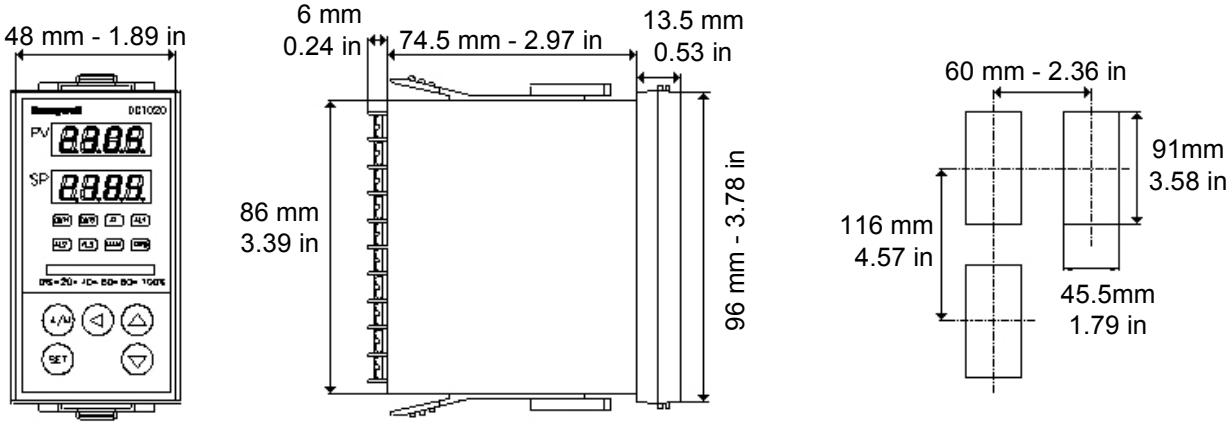
DIMENSIONI in mm

DIMENSIONS mm

DC1010



DC1020

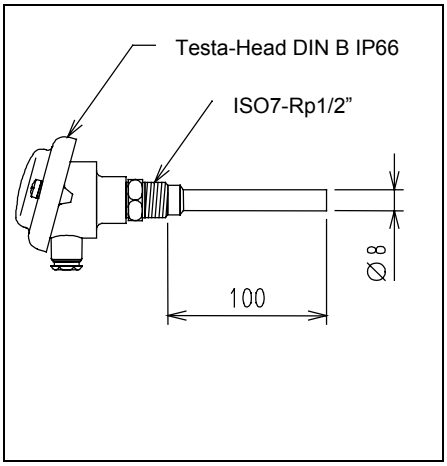


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SONDE DI TEMPERATURA
RESISTANCE TEMPERATURE DETECTORS

PT100/I/E	
01	2005



TIPO/Type PT100X1S

Sonda PT100 semplice attacco filettato ½" Rp
A richiesta con trasmettitore 4-20 mA
Simple resistance temperature detector Pt100 ½" Rp
On request with 4-20 mA transmitter

TIPO/Type PT100X2S

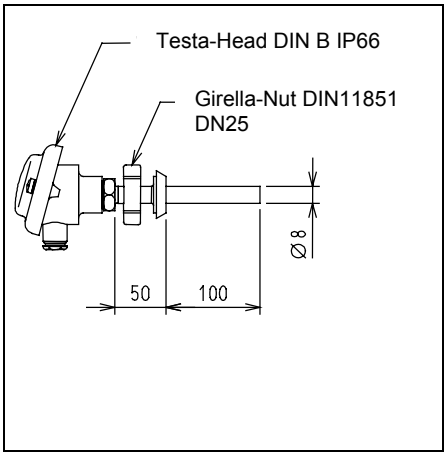
Sonda PT100 doppia attacco filettato ½" Rp
A richiesta con trasmettitore 4-20 mA
Double resistance temperature detector Pt100 ½" Rp
On request with 4-20 mA transmitter

DATI TECNICI

- Esecuzione con testa tipo DIN B IP 66
- Campo temperatura –50 … +200 °C
- Inserto fisso 1 x Pt 100 opp. 2 x Pt 100
- Tubo in AISI 316 Ø 8 mm
- Attacco filettato ISO7 – Rp ½" (gas cilindrico)
- A richiesta con trasmettitore 4-20 mA alimentazione 8…35 V (std) 8…28 V DC (EEx)
- A richiesta altre lunghezze "L" (es. 150 mm …)

TECHNICAL DATA

- Connection head type DIN B IP 66
- Temperature range -50 … +200 °C
- Fixed insert 1 x Pt 100 or 2 x Pt 100
- Ø 8 mm AISI 316 stainless steel tube
- ISO7 – Rp ½" screwed connection
- On request with 4-20 mA transmitter supply 8…35 V (std) 8…28 V DC (EEx)
- Other "L" lenght (example 150 mm …) on request



TIPO/Type PT100X1H

Sonda PT100 semplice attacco girella DIN 11851 DN 25
A richiesta con trasmettitore 4-20 mA
Simple resistance temperat. detector DN25 DIN 11851 nut
On request with 4-20 mA transmitter

TIPO/Type PT100X2H

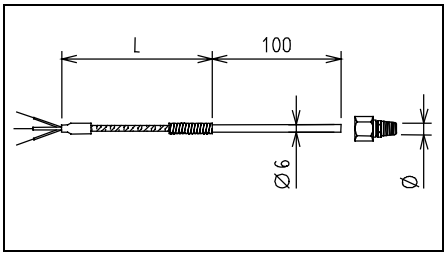
Sonda PT100 doppia attacco girella DIN 11851 DN 25
A richiesta con trasmettitore 4-20 mA
Double resistance temperat. Detector DN25 DIN 11851 nut
On request with 4-20 mA transmitter

DATI TECNICI

- Esecuzione con testa tipo DIN B IP 66
- Campo temperatura –50 … +200 °C
- Inserto fisso 1 x Pt 100 opp. 2 x Pt 100
- Tubo in AISI 316 Ø 8 mm
- Connessione girella DIN 11851 DN 25
- A richiesta con trasmettitore 4-20 mA alimentazione 8…35 V (std) 8…28 V DC (EEx)
- A richiesta altre lunghezze "L" (es. 150 mm …)

TECHNICAL DATA

- Connection head type DIN B IP 66
- Temperature range -50 … +200 °C
- Fixed insert 1 x Pt 100 or 2 x Pt 100
- Stainless steel tube AISI 316 Ø 8 mm
- DN 25 DIN 11851 connection nut
- On request with 4-20 mA transmitter supply 8…35 V (std) 8…28 V DC (EEx)
- Other "L" lenght (example 150 mm …) on request



TIPO/Type PT100X1W

Sonda PT100 semplice esecuzione con cavo
Simple resistance temperature detector cable type Pt100

DATI TECNICI

- Esecuzione con cavo "L" a richiesta - lung. std 1000 mm
- Campo temperatura –50 … +200 °C
- Tubo in AISI 316 Ø 6 mm
- Connessione con attacco scorrevole Ø ¼" opp. Ø ½" AISI 316

TECHNICAL DATA

- Wire type with "L" upon request – std lenght 1000 mm
- Temperature range -50 … +200 °C
- Stainless steel tube AISI 316 Ø 6 mm
- Sliiding resistance with Ø ¼" or Ø ½" fitting in st. st.l AISI 316

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sales@conflow.it

TRASMETTITORI DI PRESSIONE
PRESSURE TRANSMITTER

ST18/I/E	
07	2016



TIPO/Type ST18 CE

Conforme alle Direttive :
Directive conformities :

- **2014/30/UE**
- **PED 2014/68/UE**
- **RoHS 02/95/CE**
- **RAEE 02/96/CE – 03/108/CE**

DATI TECNICI

Campi di misura std

- 0 – 1 bar
- 0 – 2.5 bar
- 0 – 4 bar
- 0 – 6 bar – standard
- 0 – 10 bar – standard
- 0 – 16 bar
- 0 – 25 bar
- 0 – 40 bar
- 0 – 60 bar
- 0 – 100 bar
- 0 – 160 bar
- 0 – 250 bar
- 0 – 400 bar
- 0 – 600 bar

- Attacco filettato ISO7 – Rp ½" (gas cilindrico) AISI 316 L
- Uscite
  - 4-20 mA due fili
  - 0-5 V cc tre fili
  - 0-10 V cc tre fili
- Tensione di alimentazione 14 … 30 V cc
- **Disponibile a richiesta ns. alimentatore / trasformatore 120/230 V AC – 24V DC 3.5° tipo XCSF85C**
- Connessione elettrica EN175301-803 cavo Ø 6…9 mm
- Temperatura di processo - 25 / + 100 °C – per temperature superiori è necessario l'applicazione del serpentino
- Temperatura ambiente – 25 / + 85 °C
- Protezione IP 65
- Peso 0,18 Kg
- A richiesta versione con connessione DIN 11851

TECHNICAL DATA

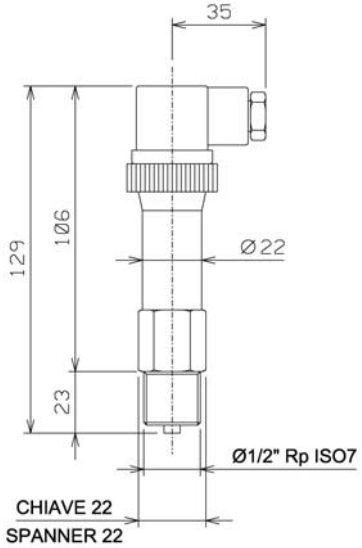
Std pressure ranges

- 0 – 1 bar
- 0 – 2.5 bar
- 0 – 4 bar
- 0 – 6 bar – standard
- 0 – 10 bar – standard
- 0 – 16 bar
- 0 – 25 bar
- 0 – 40 bar
- 0 – 60 bar
- 0 – 100 bar
- 0 – 160 bar
- 0 – 250 bar
- 0 – 400 bar
- 0 – 600 bar

- ISO7 – Rp ½" screwed connection AISI 316L
- Output
  - 4-20 mA 2-wire
  - 0-5 V DC 3-wire
  - 0-10 V DC 3-wire
- Supply 14 … 30 V DC
- **On request is available Supply / Transformer 120 / 230 V AC – 24 V DC type XCDF85C**
- Electric connection EN175301 wire Ø 6…9 mm
- Process Temperature -25 / + 100 °C – for over temperature is necessary siphon
- Ambient temperature -25 / + 85 °C
- Protection IP65
- Weight 0,18 Kg
- On rquest DIN connection 11851

DIMENSIONI (mm)

DIMENSIONS (mm)



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REGOLATORE IN CONTINUA DI SALINITA'
CONDUCTIVITY CONTINUOUS CONTROLLER

TDSFLB1/I/E	
03	2013



TIPO/TYPE TDSFLB1

DESCRIZIONE

Il regolatore TDSFLB1 esegue il controllo in continua della conduttività elettrica dell'acqua di caldaia attraverso una sonda (SONDAEL22) appositamente progettata. Il valore misurato è confrontato con il set point impostato dall'utente e se risulta maggiore o uguale diseccita il relè integrato e accende la spia di allarme. Si riarma automaticamente quando il valore scende sotto il 78% del valore impostato.

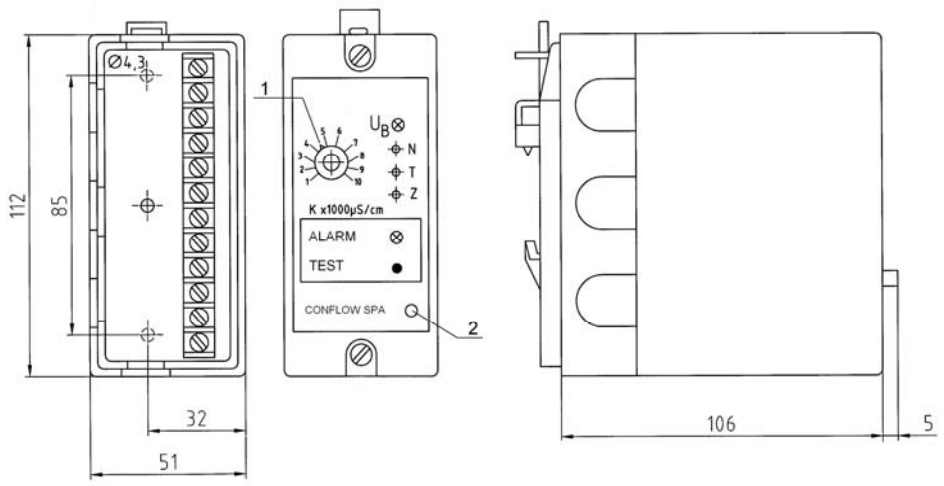
DESCRIPTION

The TDSFLB1 perfermorms a continuouse control of the boiler water electrical conductivity trough a probe (SONDAEL22) properly designed. The measured value is compared with the setpoint of the controller, if it is higher or equal the controller relay is de-energized and will go to allarm. If the measured value drops below 78% of the setpoint the control relay is automatically energized.

DATI TECNICI	
• Input	ca. 4,5 VA
• Alimentazione	230 VA ± 15% / 56-60 Hz
• Protezione	IP40
• Temperatura ambiente	0 – 60°C
• Relè	Tensione max. 250 V AC Corrente max 5A ohm
• Uscita	4-20 mA
• Conduttività del liquido	0 µS/cm ≤ æ ≥ 10.000 µS/cm 0 µS/cm ≤ æ ≥ 1.000 µS/cm
• Limiti di regolazione "K" a 25°C	1.000 µS/cm ≤ æ ≥ 10.000 µS/cm 100 µS/cm ≤ æ ≥ 1.000 µS/cm

TECHNICAL DATA	
• Input	ca. 4,5 VA
• Supply	230 VA ± 15% / 56-60 Hz
• Protection	IP40
• Allowable temperature	0 – 60 °C
• Relè	Voltage max. 250 V AC Current max 5A ohm
• Output	4-20 mA
• Conducivity of the liquid	0 µS/cm ≤ æ ≥ 10.000 µS/cm 0 µS/cm ≤ æ ≥ 1.000 µS/cm
• Adjustable limit value "K" at 25°C	1.000 µS/cm ≤ æ ≥ 10.000 µS/cm 100 µS/cm ≤ æ ≥ 1.000 µS/cm

Dimensioni / *Dimensions*



Trimmer **N** = regolazione ZERO

Trimmer **T** = compensazione TEMP.

Trimmer **Z** = linearizzazione segnale

1 = scala set-point

2 = jack Ø 3,6 mm. ingresso sonda

Trimmer **N** = adjustment ZERO

Trimmer **T** = compensation of TEMP.

Trimmer **Z** = lline constant

1 = set-point scale

2 = jack Ø 3,6 mm. probe input

Montaggio / *Mounting :* standard rail 35 mm. DIN EN 50022

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV
ISO 9001

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SONDA DI CONDUTTIVITA'
CONDUCTIVITY PROBE

SONDAEL22/I/E	
03	2013



TIPO/TYPE SONDAEL22

DESCRIZIONE
La sonda SONDAEL22 è appositamente progettata per la misurazione della conduttività di fluidi in caldaia o in generatori indiretti di vapore.

DESCRIPTION
The SONDAEL22 has been properly designed to measure the conductivity of the fluid inside boilers or unfired steam generators.

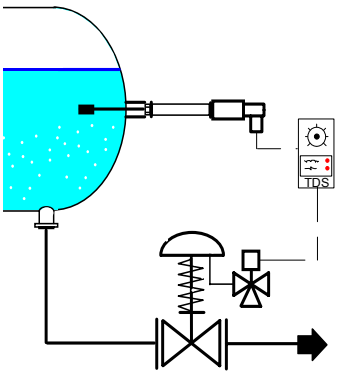
DATI TECNICI	
• Connessione meccanica	G ½"
• Connessione elettrica	Pressacavo M16 x 1,5
• Materiali	Camera sonda: Acciaio-inox
	Stelo sonda: Acciaio-inox
	Isolamento: PTFE
	Testa: Poliammide
	Anello tenuta: soft iron
• Marcatura	TUV ID 0000006175
• Pressione progetto	PS (bar) 32
• Temperatura progetto	TS (C°) 239
• Protezione DIN VDE 0470	IP65
• Max. temperatura testa sonda	100°C

TECHNICAL DATA	
• Mechanical connection	G ½"
• Electrical connection	Cable gland M16 x 1,5
• Materials	Probe housing: stainless-steel
	Probe rod: stainless-steel
	Insulator: PTFE
	Socket: Poliammide
	Sealing ring: soft iron
• Component mark	TUV ID 0000006175
• Design pressure	PS (bar) 32
• Design temperature	TS (C°) 239
• Protection DIN VDE 0470	IP65
• Allowable max. temp plug	100°C

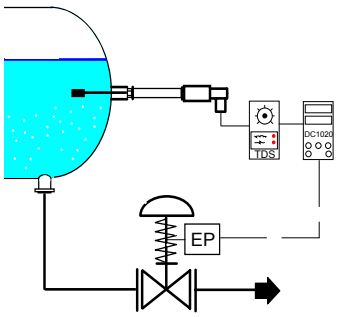
Approvazioni	
• PED 97/23/CE	TUV ID 0000006175

Approvals	
• PED 97/23/CE	TUV ID 0000006175

Installazione (verticale o inclinata fino a 90°C) *I Installation (vertical or inclined up to 90°C)*

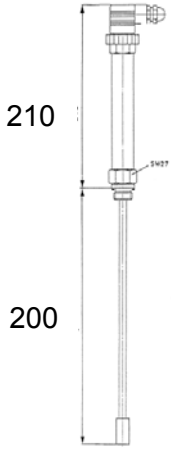


Controllo ON-OFF
ON-FF Control



Controllo in Continuo 4-20 mA
Continuous Control 4-20 mA





ATTENZIONE! Non è possibile tagliare la sonda per misure minori
ATTENTION! Is not possibile to cut the probe for reduced dimensions

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

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Web: www.conflow.it

RAFFREDDATORE PER CAMPIONATURA
COOLER FOR SAMPLING
PED 2014/68/UE

SCW80/I	
07	2016



Tipo / *Type* SCW80

Adatto per prelievi di :
Acqua – Vapore e Condense

Suitable for withdrawals:
Water - Steam and Condensate

DESCRIZIONE

Il raffreddatore è progettato per un accurato prelievo campione, è provvisto di un serpentino interno con tubo Ø 6 x 1 .
La costruzione è completamente in acc. inox AISI 316 contro la corrosione.
E' adatto per prelievi di acqua, vapore e condense.

DESCRIPTION

The cooler is designed for accurate sample withdrawal, it's provided with an internal coil with tube Ø 6 x 1.
The construction is completely in AISI 316 stainless steel against corrosion.
It's suitable for withdrawal of water, steam and condensate.

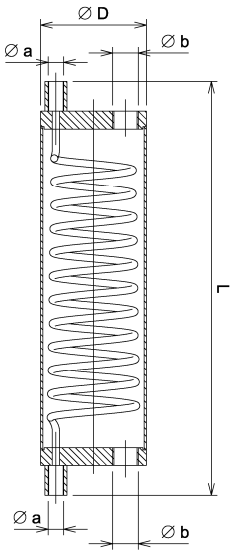
Pressione di progetto / Design Pressure

Lato Serpentino Serpentine Side	32 bar @ 300°C 40 bar @ 250 °C
Lato Mantello / Corpo Shell / Body Side	12 bar @ 110 °C

PED 2014/68/UE Art. 4, par.3 - SEP

Materiale - *Materials*	Acciaio Inox AISI 316 *Stainless Steel AISI 316*

DIMENSIONI DI INGOMBRO in mm. e Peso Kg. / *Dimensions mm and Weight Kg.*



Ø D	Ø a	Ø b	L
88,9	1/4" Rp Iso 7	Ø 1/2" Rp Iso 7	350
Peso – *Weight 3,5 Kg*			

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Rendimento / *Performance*

Le tabelle sotto riportate indicano come calcolare il valore di temperatura in uscita dal raffreddatore alle varie condizioni di esercizio.

The tables below show how to calculate the temperature value output from the cooler to the various operating conditions.

Tabella 1 ∆t in °C per acqua satura (acqua di caldaia)
Table 1 ∆t in °C saturated water (Boiler water)

Portata Fluido campione *Sample Fluid Flow* ***l/h***	Portata acqua di raffreddamento *Cooling water flow* ***6 l/min.***				
	Pressione fluido campione barg *Sample fluid pressure barg*				
	1	**3**	**7**	**10**	**20**
10	1	1	3	6	6
20	2	2	6	8	8
30	5	5	8	11	11
40	7	7	11	13	13
50	10	10	13	15	15
60	14	14	16	18	18
80	16	18	20	22	22
100	18	20	24	26	27

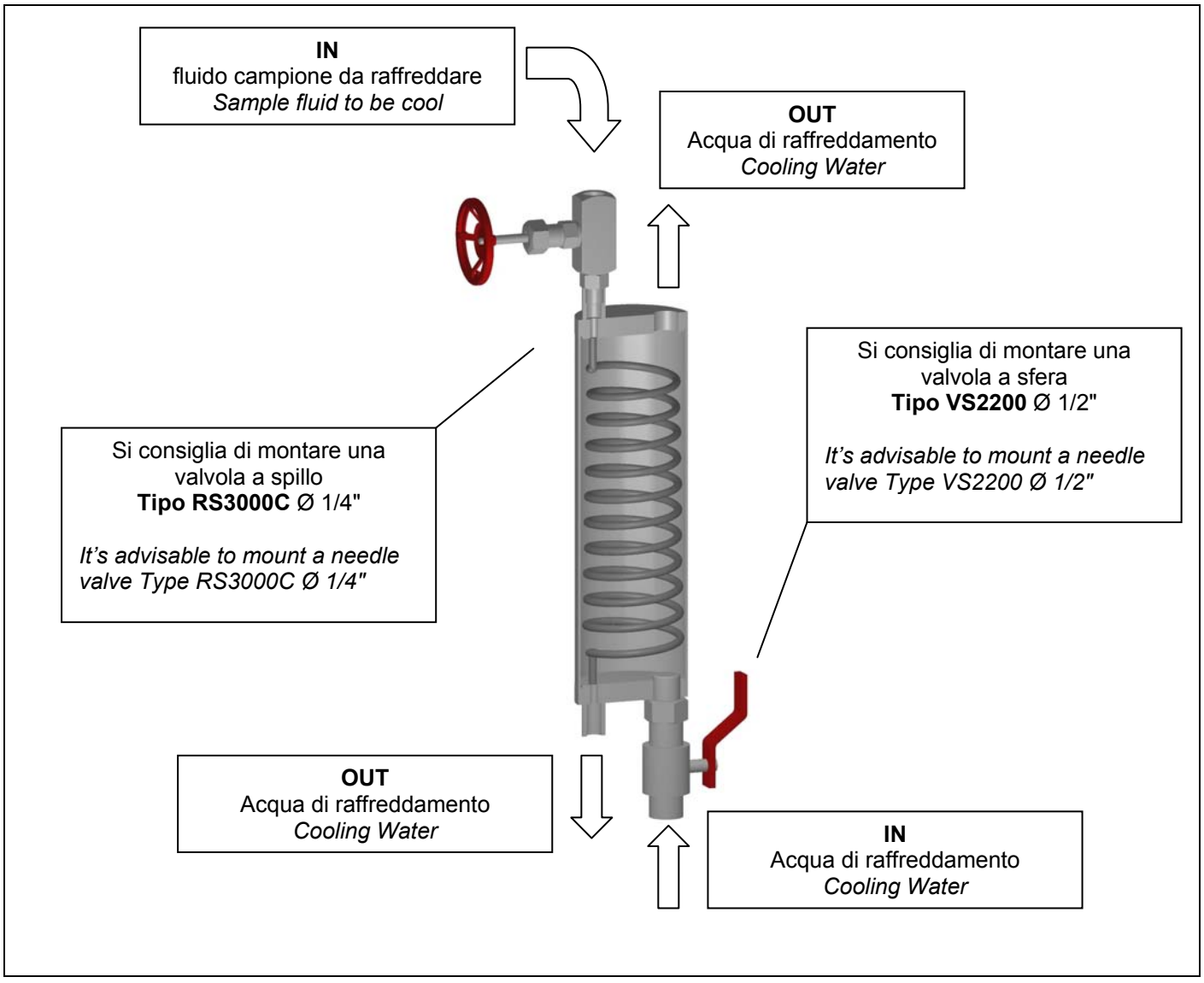
Tabella 2 ∆t in °C per vapore saturo
Table 2 ∆t in °C saturated steam

Portata Fluido campione Sample Fluid Flow ***l/h***	Portata acqua di raffreddamento *Cooling water flow* ***6 l/min.***				
	Pressione fluido campione barg *Sample fluid pressure barg*				
	0,5	**2**	**5**	**10**	**20**
5	3	3	4	6	6
10	-	7	8	8	9
15	-	-	9	10	11
20	-	-	-	13	14
30	-	-	-	21	21
40	-	-	-	-	28
50	-	-	-	-	35
60	-	-	-	-	42

Installazione / *Installation*

Il raffreddatore per campionatura Tipo SCW80 deve essere installato in un punto dell'impianto accessibile per la raccolta del fluido campione.
Si consiglia di effettuare i collegamenti limitando al massimo curve ed eventuali torsioni dei tubi di collegamento.

The cooler for sampling SCW80 type must be installed in an accessible point of the system for the collection of fluid sample.
It recommends making connections minimizing curves and any twisting of the connecting pipes.



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REGOLATORI DI TEMPERATURA PNEUMATICI
PNEUMATIC TEMPERATURE CONTROLLERS

82R/I/E	
12	2005



TIPO/Type **82R11** **83R11** **(81R11 ON-OFF)**

Regolatore di temperatura bulbo per liquidi
Temperature controller bulb for liquids

TIPO/Type **82R15** **83R15** **(81R15 ON-OFF)**

Reg. di temp. bulbo per liquidi con pozzetto
Temp. controller bulb for liquids with thermowell

TIPO/Type **82R12** **83R12** **(81R12 ON-OFF)**

Regolatore di temperatura bulbo per aria
Temperature controller bulb for air

DESCRIZIONE

Il regolatore indicatore serie 80 è adatto al controllo di temperatura.
Il valore misurato dalla variabile fisica viene visualizzato e confrontato con il valore di set point. Il confronto tra le due grandezze genera un segnale standard modulante di 3-15 psi (0,2-1 bar) oppure 6-18 psi (0,4-1,2 bar) inviato all'organo di regolazione finale (es. Valvola di regolazione pneumatica).
Disponibile in tre forme di regolazione ON-OFF, P e P+I .

CARATTERISTICHE TECNICHE

Custodia	Alluminio pressofuso verniciatura antiacida	
Grado di protezione	IP54	
Montaggio	A parete o a quadro	
Connessioni pneumatiche	Ø1/4" NPT con raccordi per tubo 4x6 mm	
Alimentazione	20 +/- 1,5 psi / 1,4 +/- 0,1 bar 35 +/- 1,5 psi / 2,4 +/- 0,1 bar	
Uscita	3-15 psi / 0,2 – 1 bar … 6-18 psi / 0,4-1,2 bar 6-30 psi / 0,5 – 2 bar **	
Parametri di regolazione	Banda prop. 20-200%, * azione integrale 0,05-15 rip/min	
Consumo d'aria in stato d'inerzia	Alim. Aria 20 psi / 1,4 bar	0,13 Nm3/h
Portata aria max.	Alim. Aria 20 psi / 1,4 bar	2,6 Nm3/h
Limite di incertezza max	<= 1%	
Isteresi	<= 0.5%	
Linearità	<= 0.5%	
Ripetibilità	<= 0.5%	
Temperatura ambiente	-20°C …..+80°C	
Peso	4 Kg	

* Solo per regolatore P+I
** A richiesta

DESCRIPTION

The 80 series indicator is suitable for temperature control. The instrument measure the value directly, displays the operating value and compares the measured variable with the set point. The comparison between the two values makes a modulating standard signal of 3-15 psi (0.2-1 bar) or 6-18 psi (0,4-1,2 bar), sent to the final control device. (pneumatic control valve for example).
Three types of control shapes available: ON-OFF,P and P+I

TECHNICAL DATA

Body and Cover	Die cast aluminium anti-corrosive painted	
Protection degree	IP54	
Fitting	Wall or panel	
Pneumatic connections	Ø1/4" NPT with fittings for 4x6 mm pipe size	
Air supply	20 +/- 1,5 psi / 1,4 +/- 0,1 bar 35 +/- 1,5 psi / 2,4 +/- 0,1 bar	
Output	3-15 psi / 0,2 – 1bar … 6-18 psi / 0,4-1,2 bar 6-30 psi / 0,5 – 2 bar **	
Adjustable control parameters	P.band 20-200%, * reset time 0,05-15 rip/min	
Air comsumption under steady-state conditions	Air supply 20 psi / 1,4 bar	0,13 Nm3/h
Max air delivery	Air supply 20 psi / 1,4 bar	2,6 Nm3/h
Accuracy	<= 1%	
Hysteresis	<= 0.5%	
Non linearity	<= 0.5%	
Repeatibility	<= 0.5%	
Ambient temperature	-20°C …..+80°C	
Weight	4 Kg	

* For P+I controller only
** On request

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REGOLATORI INDICATORI DI TEMPERATURA

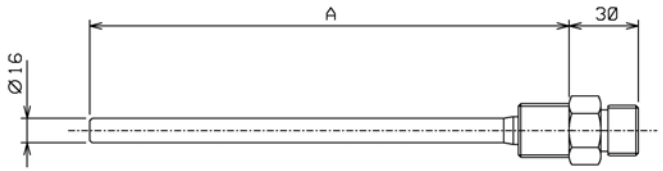
MODELLO	FUNZIONE	ELEMENTO DI MISURA e CONNESSIONI STANDARD
81R11	Regolatore On- off	Sistema termometrico caricato ad azoto. Capillare 2 m, attacchi ¾" G, **bulbo per liquidi,** materiale: acciaio inox AISI 316. **Immergere la totalità del bulbo nel fluido. Con l'impiego della guaina termometrica R15 (*) riempire l'intercapedine con olio grafitato o glicerina.**
82R11	Regolatore proporzionale	
83R11	Regolatore P+I	
81R12	Regolatore On- off	Sistema termometrico caricato ad azoto. Capillare 2 m, attacchi ¾" G, **bulbo per aria,** materiale: acciaio inox AISI 316. **Immergere la totalità del bulbo nel fluido**
82R12	Regolatore proporzionale	
83R12	Regolatore P+I	

TEMPERATURE INDICATING CONTROLLERS

TYPE	FUNCTION	MEASURING ELEMENT and STANDARD CONNECTIONS
81R11	On – off controller	Temperature-sensing nitrogen-filled, 2mt. capillary lenght. Connections ¾" BSP, **bulb for liquids,** material: S.S. AISI316. **The bulb must be completely inside the fluid. If the thermowell R15 is required (*) , fill the interspace of the bulb with graphite or glycerin.**
82R11	Proportional controller	
83R11	P+I controller	
81R12	On – off controller	Temperature-sensing nitrogen-filled, 2mt. capillary lenght. Connections ¾" BSP, **bulb for air,** material: S.S. AISI316. **The bulb must be completely inside the fluid.**
82R12	Proportional controller	
83R12	P+I controller	

A richiesta modello trasmettitore 85R11 / 85R12
A richiesta modello ricevitore 81F5 / 82F5 / 83F5

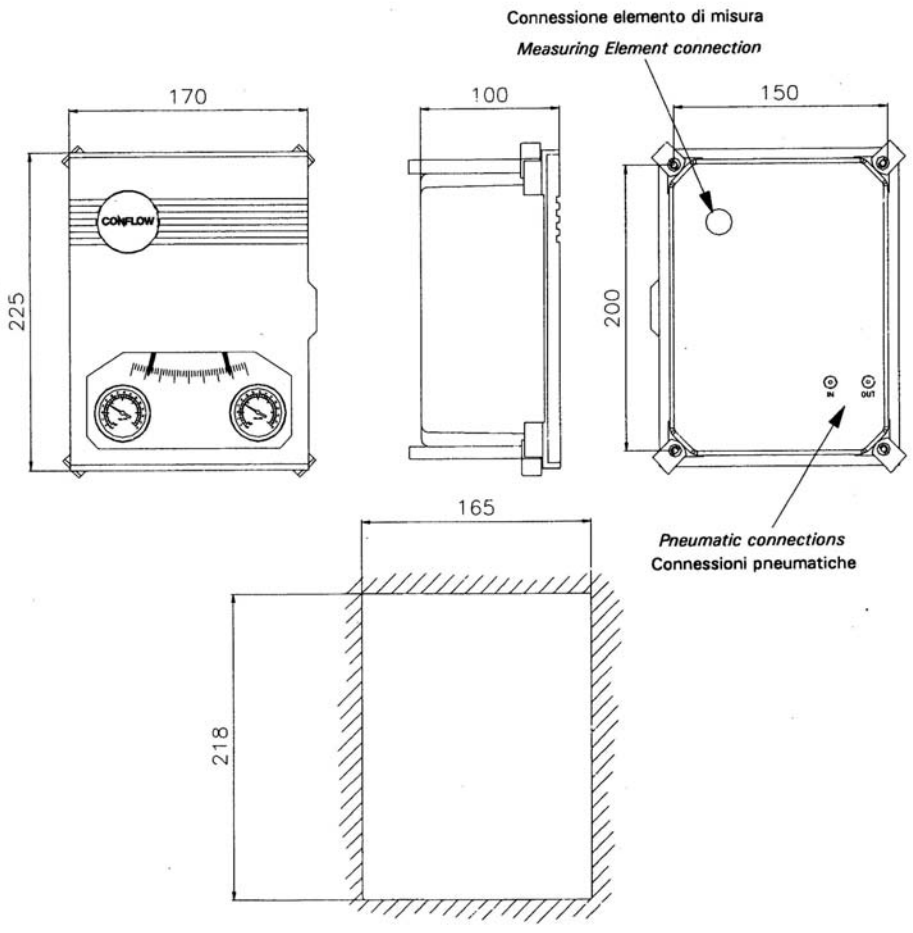
On request transmitter model 85R11 / 85R12
On request receiver model 81F5 / 82F5 / 83F5

(*) R15	Pozzetto		Thermowell	**(*) R15**

Ampiezza scala / span	20°C	30°C	40°C	50°C	60°C	70°C	80°C	100°C	120°C	130°C	150°C	200°C	250°C	300°C	400°C	500°C
A	325	325	225	225	225	175	175	175	175	175	175	175	175	175	175	175

DIMENSIONI in mm

DIMENSIONS mm



I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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REGOLATORI DI PRESSIONE PNEUMATICI
PNEUMATIC PRESSURE CONTROLLERS

82P/I/E	
12	2005



TIPO/Type **82P** **83P** **(81P ON-OFF)**

Regolatore di pressione
Pressure controller

TIPO/Type **82BO** **83BO** **(81BO ON-OFF)**

Reg. di pressione con soffietto in tombacco
Press. controller with phosphor bronze bellow

TIPO/Type **82BX** **83BX** **(81BX ON-OFF)**

Regolatore di pressione con soffietto inox
Pressure controller with stainless steel bellow

DESCRIZIONE

Il regolatore indicatore serie 80 è adatto al controllo di pressione.
Il valore misurato dalla variabile fisica viene visualizzato e confrontato con il valore di set point. Il confronto tra le due grandezze genera un segnale standard modulante di 3-15 psi (0,2-1 bar) oppure 6-18 psi (0,4-1,2 bar) inviato all'organo di regolazione finale (es. Valvola di regolazione pneumatica).
Disponibile in tre forme di regolazione ON-OFF, P e P+I .

CARATTERISTICHE TECNICHE

Custodia	Alluminio pressofuso verniciatura antiacida	
Grado di protezione	IP54	
Montaggio	A parete o a quadro	
Connessioni pneumatiche	Ø1/4" NPT con raccordi per tubo 4x6 mm	
Alimentazione	20 +/- 1.5 psi / 1,4 +/- 0,1 bar	
	35 +/- 1.5 psi / 2,4 +/- 0.1 bar	
Uscita	3-15 psi / 0.2 – 1 bar … 6-18 psi / 0,4-1,2 bar	
	6-30 psi / 0.5 – 2 bar **	
Parametri di regolazione	Banda prop. 20-200%, * azione integrale 0.05-15 rip/min	
Consumo d'aria in stato d'inerzia	Alim. Aria 20 psi / 1.4 bar	0.13 Nm3/h
Portata aria max.	Alim. Aria 20 psi / 1.4 bar	2.6 Nm3/h
Limite di incertezza max	<= 1%	
Isteresi	<= 0.5%	
Linearità	<= 0.5%	
Ripetibilità	<= 0.5%	
Temperatura ambiente	-20°C …..+80°C	
Peso	4 Kg	

* Solo per regolatore P+I
** A richiesta

DESCRIPTION

The 80 series indicator is suitable for pressure control. The instrument measure the value directly, displays the operating value and compares the measured variable with the set point. The comparison between the two values makes a modulating standard signal of 3-15 psi (0.2-1 bar) or 6-18 psi (0,4-1,2 bar), sent to the final control device. (pneumatic control valve for example).
Three types of control shapes available: ON-OFF,P and P+I

TECHNICAL DATA

Body and Cover	Die cast aluminium anti-corrosive painted	
Protection degree	IP54	
Fitting	Wall or panel	
Pneumatic connections	Ø1/4" NPT with fittings for 4x6 mm pipe size	
Air supply	20 +/- 1.5 psi / 1,4 +/- 0,1 bar	
	35 +/- 1.5 psi / 2,4 +/- 0.1 bar	
Output	3-15 psi / 0.2 – 1bar … 6-18 psi / 0,4-1,2 bar	
	6-30 psi / 0.5 – 2 bar **	
Adjustable control parameters	P.band 20-200%, * reset time 0.05-15 rip/min	
Air comsumption under steady-state conditions	Air supply 20 psi / 1.4 bar	0.13 Nm3/h
Max air delivery	Air supply 20 psi / 1.4 bar	2.6 Nm3/h
Accuracy	<= 1%	
Hysteresis	<= 0.5%	
Non linearity	<= 0.5%	
Repeatibility	<= 0.5%	
Ambient temperature	-20°C …..+80°C	
Weight	4 Kg	

* For P+I controller only
** On request

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REGOLATORI INDICATORI DI PRESSIONE

MODELLO		FUNZIONE	ELEMENTO DI MISURA e CONNESSIONI STANDARD
81P	**Scale Standard** v.tab.1 in basso	Regolatore On- off	Manometrico, molla Bourdon, attacchi ½" G-M materiale: acciaio inox AISI 316L
82P		Regolatore proporzionale	
83P		Regolatore P+I	
81BO	**Scale Standard** v.tab.2 in basso	Regolatore On- off	Manometrico (bassa pressione) **Soffietto in tombacco** Attacchi ¼" NPT
82BO		Regolatore proporzionale	
83BO		Regolatore P+I	
81BX	**Scale Standard** v.tab.3 in basso	Regolatore On- off	Manometrico (bassa pressione) **Soffietto in acciaio inox AISI 316** Attacchi ¼" NPT-F
82BX		Regolatore proporzionale	
83BX		Regolatore P+I	

PRESSURE INDICATING CONTROLLERS

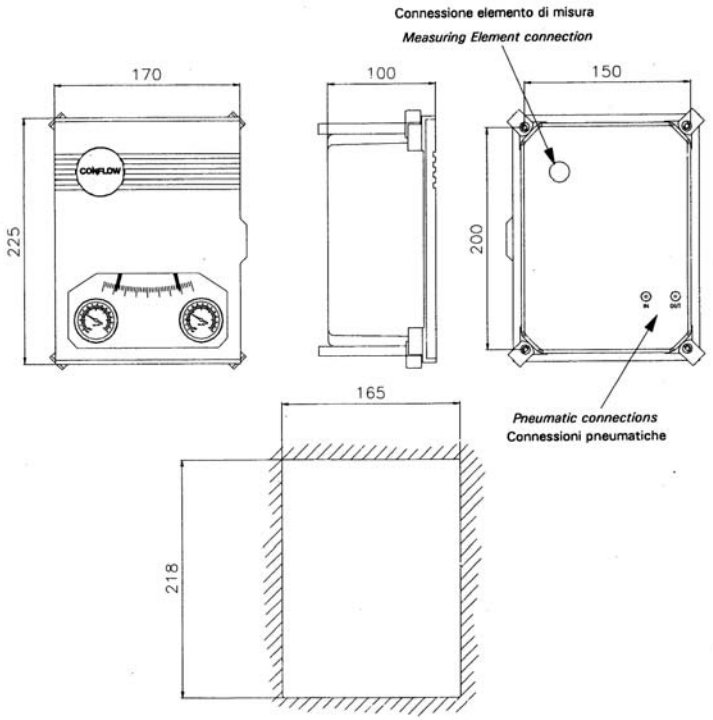
TYPE		FUNCTION	MEASURING ELEMENT and STANDARD CONNECTIONS
81P	**Standard ranges** see tab.1 below	On – off controller	Manometric, Bourdon Tube ½" BSP-M connections Material: stainless steel AISI 316L
82P		Proportional controller	
83P		P+I controller	
81BO	**Standard ranges** see tab.2 below	On – off controller	Manometric (low pressure) **Phosphor bronze bellow** ¼" NPT connections
82BO		Proportional controller	
83BO		P+I controller	
81BX	**Standard ranges** see tab.3 below	On – off controller	Manometric (low pressure) **Stainless steel AISI 316 bellow** ¼" NPT-F connections
82BX		Proportional controller	
83BX		P+I controller	

SCALE STANDARD

Tab. 1 (bar)	Tab.2 (mm H2O – mm WG)	Tab.3 (mm H2O – mm WG)
0 ÷ 1; 0 ÷ 1,5; 0 ÷ 1,6; 0 ÷ 2; 0 ÷ 2,5; 0 ÷ 3; 0 ÷ 4; 0 ÷ 5; 0 ÷ 6; 0 ÷ 7; 0 ÷ 8; 0 ÷ 10; 0 ÷ 12; 0 ÷ 15; 0 ÷ 16; 0 ÷ 20; 0 ÷ 25; 0 ÷ 30; 0 ÷ 35; 0 ÷ 40; 0 ÷ 50; 0 ÷ 60; 0 ÷ 65; 0 ÷ 70; 0 ÷ 80; 0 ÷ 100; 0 ÷ 120; 0 ÷ 130; 0 ÷ 150; 0 ÷ 160; 0 ÷ 200; 0 ÷ 250; 0 ÷ 300; 0 ÷ 400; 0 ÷ 500; 0 ÷ 700; 0 ÷ 800; 0 ÷ 1000; 0 ÷ 1200	0 ÷ 400; 0 ÷ 600; 0 ÷ 1000; 0 ÷ 1600; 0 ÷ 2500; 0 ÷ 4000; 0 ÷ 6000; 0 ÷ 8000	0 ÷ 500; 0 ÷ 600; 0 ÷ 1000; 0 ÷ 1600; 0 ÷ 2500; 0 ÷ 4000; 0 ÷ 600; 0 ÷ 8000;

DIMENSIONI in mm

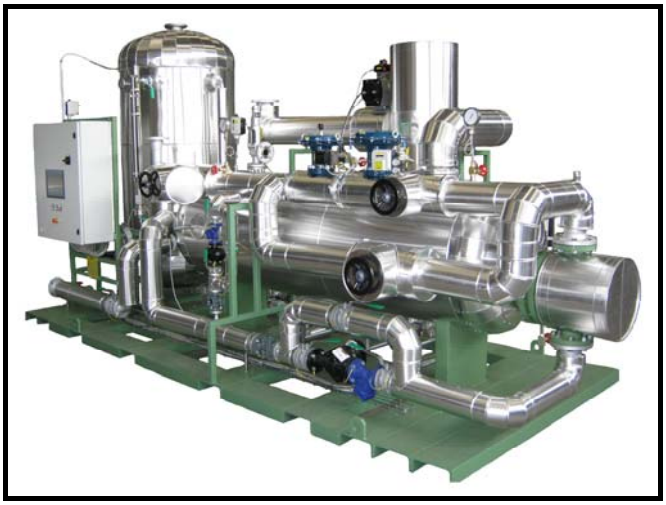
DIMENSIONS mm



i dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso.

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GENERATORI INDIRETTI DI VAPORE PULITO
Clean Steam Generators
GENERATORI INDIRETTI DI VAPORE INDUSTRIALE
Process Steam Generators







Pressioni di Progetto - Design Pressure

Circuito 1
Side 1
6 bar @ 350°C
12 bar @ 191.7°C
16 bar @ 205°C

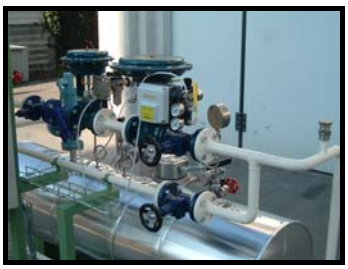
Circuito 2
Side 2
10 bar @ 185 °C
15 bar @ 202°C

Altre pressioni di progetto a richiesta
Other Design Pressures on request

Conformità "Insieme" - "Assembley" Conformity



Gruppo pompe e defangazione
Pumps group and blow-down



Dettaglio Regolazione
Control Valve Detail



Quadro di controllo
Electric Panel



Dettaglio Scarico condensa
Steam Trap Detail

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CONFLOW s.p.a. con esperienza nella gestione del vapore da oltre 40 anni, ha progettato delle unità "in package" destinate alla produzione di vapore pulito e industriale per mezzo di fluidi termo vettori sul primario. Garantiscono una istantanea produzione di vapore in molteplici settori e applicazioni.
Nel caso dei produttori di vapore pulito con acqua di alimentazione opportunamente trattata, garantiscono la produzione di vapore in accordo alle più restrittive normative vigenti.

CONFLOW s.p.a. *with experience in steam management for over 40 years, has designed the "packaged units" intended to clean and process steam using heat carriers fluids on tube side.They provide instant steam production in many industries sectors and applications.*
In the case of clean steam unfired steam generators with suitably treated feed water, ensure the production of steam in accordance with the strictest standards.

Sistema di preriscaldo dell'acqua
Water pre-heating system

- Con unità di degasaggio e preriscaldo ad accumulo / *With the degassing unit and preheating thank*
- Con scambiatore di calore istantaneo / *With heat exchanger*

Accessori di Sicurezza
Safety devices

- Valvola di sicurezza / *Safety valve*
- Pressostato a riarmo manuale / *Pressure control safety limiter*
- Interruttore di livello / *Level switches*

Presa Vapore
Steam outlet

- Con valvola manuale / *with manual valve*
- Con Valvola automatica on-off / *with automatic on-off valve*
- Opzione con Separatore di condensa / *Steam condensate separator (optional)*

Quadro di Controllo
Control panel

- Con PLC Siemens gestione integrata / *With Siemens PLC*
- Elettromeccanico / *Electromechanical*



Fascio tubiero con tubi ad "U"
"U" tube bundle

- Estraibile / *extractable*

Regolazione Primario /
Main regulation

- Con valvole pneumatiche / *with pneumatic valves*
- Con valvole elettriche / *with electric powered valves*

Gruppo di alimentazione /
supply group

- Pompa singola / *single pump*
- Doppia pompa / *double pump*
- Opzione con sistema modulante del livello / *modulating level system (optional)*

Scarico Condense
Condensate discharge

- Drenaggio su vapore primario / *Drain condensate on inlet pipe*
- Gruppo completo di scarico con by-pass / *Condensate unit with by-pass*

Versione per Vapore Industriale
Process steam version

- Interanente in acciaio carbonio / *completely in carbon steel*

Versione per Vapore Pulito
Clean steam version

- Testata in acciao carbonio parti a contatto con il vapore pulito in acc.inox AISI 304L o AISI 316L / *Carbon steel head, st. steel AISI 304L – 316L in contact with clean steam*

Controllo della conducibilità dell'acqua TDS
TDS Conductivity Continuos Controller

- Sistema completo di controllo, con unità di controllo in continua della conduttività elettrica dell'acqua / *complete system control, with conductivity continuos controller*

Telaio
Chassis

- In acciaio carbonio verniciato e/o zincato, pallettizzato con golfari di sollevamento / *painted or galvanized carbon steel, palletized with eyebolts*
- In acciaio inox AISI 304, pallettizzato con golfari di sollevamento / *St.St. AISI304 palletized with eyebolts*
- Opzione con piedini di appoggio regolabile / *adjustable foot*

Coibentazione
Insulation

- Con lana di roccia sp.50 mm densità 100 Kg/dm3 con rivestimento in lamierino di alluminio 8/10, aperture con viti inox / *with rock wool th.50 mm density 100 Kg/dm3 with covering of aluminum sheet 8/10, openings with stainless steel screws*
- Solo generatore / *Generator only*
- Generatore + tubazioni / *Generator + pipelines*
- Generatore + tubazioni + valvole / *Generator + pipelines + valves*

Defangazione
Sludge removal

- Manuale / *Manual*
- Automatica temporizzata / *Automatic timed*

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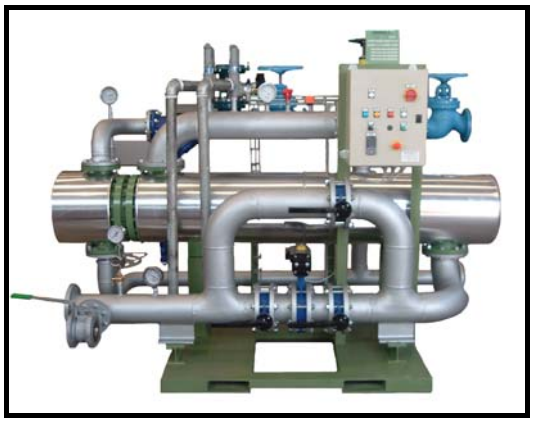
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SCAMBIATORI DI CALORE "BEU" per PRODUZIONE ACQUA CALDA e SURRISCALDATA

"BEU" Heat Exchangers for hot water and Superheated water service







Pressioni di Progetto - Design Pressure

Circuito 1
Side 1
12 bar @ 191.7°C
16 bar @ 204.4°C
25 bar @ 226.1°C

Circuito 2
Side 2
12 ba r@ 110°C
16 bar @ 204.4°C

Altre pressioni di progetto a richiesta
Other Design Pressures on request

Conformità "Insieme" - "Assembley" Conformity

PED 2014/68/UE CE 1214



Gruppo di espansione
Expansion group detail



Dettaglio Regolazione Pneumatica
Pneumatic Control Valves detail



Quadro di controllo
Electric Panel detail



Dettaglio Regolazione Elettrica
Control Electric Valve Detail

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SCAMBIATORI DI CALORE CORRUGATI "HEC"
PER PRODUZIONE ACQUA CALDA e SURRISCALDATA

Corrugated Heat Exchanger "HEC" for hot water and Superheated water service





Pressioni di Progetto - Design Pressure

Circuito 1
Side 1
12 ba r@ 191.7°C
16 ba r@ 204.4°C

Circuito 2
Side 2
12 bar @ 110°C
12 bar @ 191.7°C

Altre pressioni di progetto a richiesta
Other Design Pressures on request

Conformità "Insieme" - "Assembley" Conformity
PED 2014/68/UE CE 1214

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SCAMBIATORI ad ACCUMULO per ACQUA CALDA

Header Tank Heat Exchangers for hot water service





Pressioni di Progetto - Design Pressure

Circuito 1
Side 1
6 bar @ 350°C
12 bar @ 191.7°C
16 bar @ 205°C

Circuito 2
Side 2
6 bar @ 110 °C

Altre pressioni di progetto a richiesta
Other Design Pressures on request

Conformità "Insieme" - "Assembley" Conformity

PED 2014/68/UE CE 1214



Gruppo di espansione
Expansion group



Dettaglio Regolazione Pneumatica
Control Valve Detail



Quadro di controllo
Electric Panel



Dettaglio Doppio Serpentino
Double bundle Detail

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VASI di ESPANSIONE per ACQUA CALDA ACQUA SURRISCALDATA e OLIO DIATERMICO

Expansion Pressurized Vessels for Hot Water Superheated Water and Thermoil Service



Pressioni di Progetto - Design Pressure
Circuito 1 - Side 1
6 bar @ 165°C
6 bar @ 350°C
8 bar @ 176°C
12 bar @ 200°C

Altre pressioni di progetto a richiesta
Other Design Pressures on request

Conformità "Insieme" - "Assembley" Conformity

PED 2014/68/UE CE 1214

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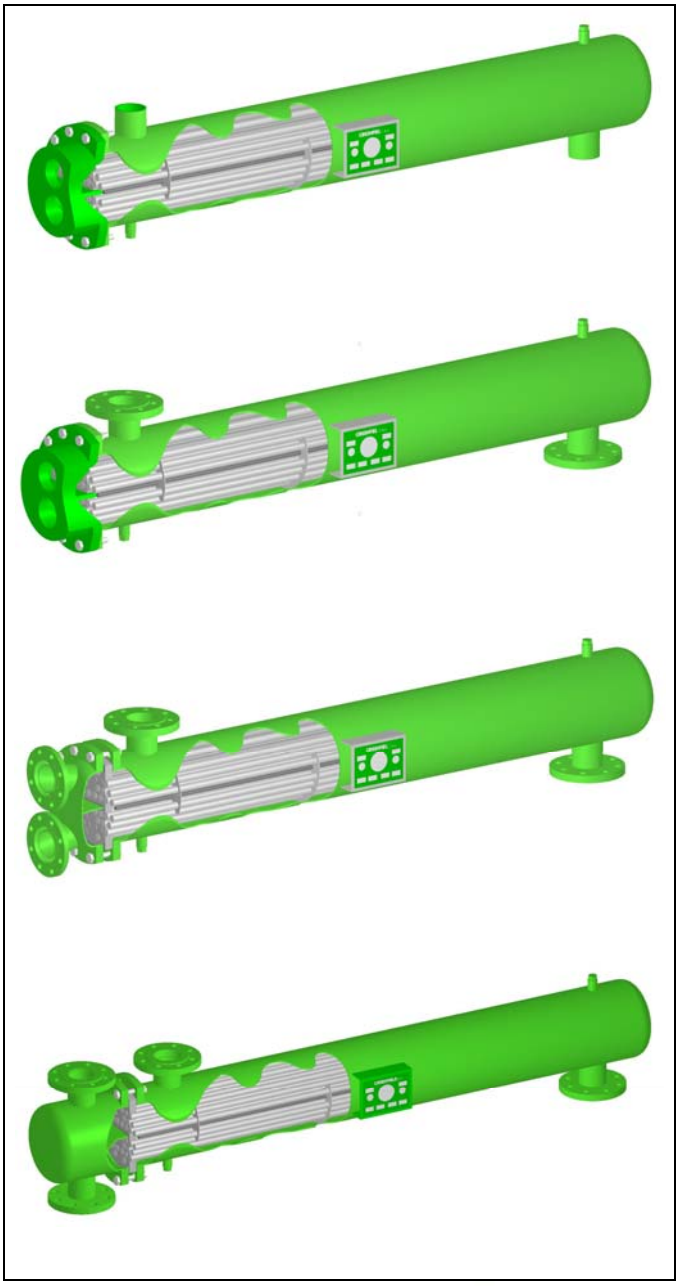
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HEAT EXCHANGERS - BEU
PED - ATEX

BEU/E	
07	2016

WITH STEPS REMOVABLE “U” TUBE BUNDLE



DESCRIPTION

The **GREENFIELD** heat exchangers have been calculated and designed so that to obtain a series of more than 1000 models that differ in size and surface exchange.
The baffles configuration, that characterize the shell internal geometry, can cover a wide range of applications and optimize the choice.
They are available with 2 or 4 steps to ensure the most of the heat transfer fluids used.
They are designed an built according to the following Directive:

PED with basic calculation code EN13445 Part III; on request can be designed with calculation according to ASME code VIII Div. 1 or AD2000 .
They are classified with different categories, depending on the design pressure, on the volumes of the circuits or compartments and on the fluid types. The Directive provides for two groups::
Dangerous fluids Group 1 (gases or liquids with vapor pressure> 0.5 bar),
Non dangerous fluids Gruppo 2 (gases or liquids with vapor pressure< 0.5 bar).
The Directive is exempt for pressure ≤ 0.5 bar.
In the following tables are defined the categories as a function of the fluid groups.

WARNING ! According to a specific article of the Directive, when one of the compartments contains a fluid ≥ to the first category and the second compartment contains a fluid falling in a higher category, the entire container assumes the highest category.

ATEX II 2G/D cTx – Non-electrical equipment for potentially explosive atmospheres.

They consist of a basic cylinder head 2 or 4 steps (or more on request) , lowered with front connections, or cylindrical with perpendicular connections, of a shell and of a removable “U” tube bundle made of by "U" tubes just rolled or welded and rolled on a single plate. The typical configuration of the "U" tubes allows to absorb any thermal expansion that are created during the exchange process and ensure a perfect maintenance being the bundle tube removable .

A proper configuration, grants a wide choice of materials including carbon steel and stainless steel; other materials are available on request.
The "U" exchanger bent is used for the heat exchange between various fluids in industrial processes or in civil processes of relevant potentials. The advantages of a very low cost, easy inspection of the external circuit and easy maintenance, make it one of the best used heat exchange in industrial applications.
The heat exchangers are specially designed for industrial heat transfer fluids such as steam, hot water, thermal oil, water and other fluids.





PED	***ATEX***
Vari moduli	***II 2 G/D cTx***
CE 1214	***CE 1370***

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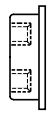
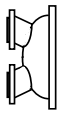
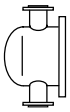
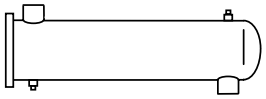
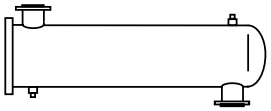
CONFIGURATION - materials

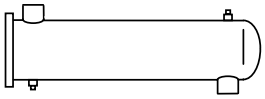
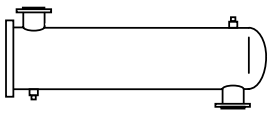
Head	Carbon steel
	Stainless steel AISI 304
	Stainless steel AISI 316
	Other materials on request
Gaskets	Tecnograph GR th. 3 mm
	Other materials on request
Bolts and nuts	A193B7 + A194 2H
	A193B8 + A194 Gr.8
	A193 B8M + A194 Gr.8M
Tubes plate	Carbon steel
	Stainless steel AISI 304
	Stainless steel AISI 316
	Other materials on request
Tubes – pitch 24 **Rolled to the tubes plate**	Fe 35.2 Ø 18 x 1,5
	Stainless steel AISI 304 A249 Ø 18 x 1 or 18 x 1,5
Thermal oil version **Rolled and welded to the tubes plate**	Stainless steel AISI 316 A249 Ø 18 x 1 or 18 x 1,5
	Other materials and dimensions on request
Shell	Carbon steel
	Stainless steel AISI 304
	Stainless steel AISI 316
	Other materials on request
Baffles	Carbon steel
	Stainless steel AISI 304
	Stainless steel AISI 316
	Other materials on request

ACCESSORIES ON REQUEST

Supports	Carbon steel
	Stainless steel AISI 304
	Stainless steel AISI 316
Eyebolts	Carbon steel
	Stainless steel AISI 304
	Stainless steel AISI 316

CONFIGURATION - PED – design pressure and categories (tables–groups)

Drawings explanation				
				
Front head Screwed connections	Head with Flanged front connections	Cylindrical head Flanged perpendicular connections	Shell Screwed connections	Shell Flanged connections

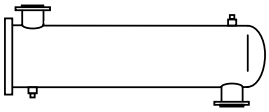
Side		Design pressure	Misure 1								
			104	105	107	109	111	113	115	118	120
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C									
			Art.4 Par.3								
	Tab.4 Gr. 2	12 bar @ 110 °C (1)									
			Art.4 Par.3								
	Tab.2 Gr. 2	12 bar @ 191.7 °C (2)									
			Art. 4 Par.3						I°		
											
			Art. 4 Par.3						I°		
											
			Art. 4 Par.3						I°		
		16 bar @ 205 °C									
			I°								
Shell (3)											
	Tab.4 Gr. 2	12 bar @ 110 °C (1)	Art. 4 Par.3								
	Tab.2 Gr. 2	16 bar @ 205 °C	I°						II°		

Note (1) The design pressure of 12 bar @ 110 ° C is valid for all stainless steel AISI 304 – AISI 316 versions.

Nota (2) The design pressure of 12 bar @ 191.7 ° C is valid for all stainless steel AISI 304 – AISI 316 versions.

Nota (3) All shells are provided with vent and drain connections Ø 1/2 "Rp ISO 7 with tap

CATEGORIES – PED (tables – groups)

Side		Design pressure	Misure 2						
			207	209	211	213	215	218	220
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C							
			Art.4 Par.3						
	Tab.4 Gr. 2	12 bar @ 110 °C (1)							
			Art.4 Par.3						
	Tab.2 Gr. 2	12 bar @ 191.7 °C (2)							
			Art. 4 Par.3	I°					
									
			I°						
									
			I°						
		16 bar @ 205 °C							
			I°				II°		
		25 bar @ 226.1 °C							
			III°						
Shell (3)									
	Tab.4 Gr. 2	12 bar @ 110 °C (1)	Art. 4 Par.3						
	Tab.2 Gr. 2	16 bar @ 205 °C	II°						

Nota (1) The design pressure of 12 bar @ 110 °C is valid for all stainless steel AISI 304 – AISI 316 versions.

Nota (2) The design pressure of 12 bar @ 191.7 °C is valid for all stainless steel AISI 304 – AISI 316 versions.

Nota (3) All shells are equipped with vent and drain connections Ø 1/2 "Rp ISO 7 with a tap on request can be made Ø 3/4" connections or Ø 1 "

CONFIGURATION - PED – design pressure and categories (tables–groups)

Side		Design pressure	Misure 3					
			309	311	313	315	318	320
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C	Art.4 Par.3					
	Tab.4 Gr. 2	12 bar @ 110 °C (1)	Art.4 Par.3					
	Tab.2 Gr. 2	12 bar @ 191.7°C (2)	I°				II°	
			I°	II°				
		16 bar @ 205 °C	II°					
		25 bar @ 226.1 °C	III°					
Shell	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3					
	Tab.2 Gr. 2	16 bar @ 205 °C	II°					

Side		Design pressure	Misure 4						
			409	411	413	415	418	420	424
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C	Art.4 Par.3					I°	
	Tab.4 Gr. 2	12 bar @ 110 °C	Art.4 Par.3						
	Tab.2 Gr. 2	12 bar @ 191.7°C (2)	II°						
			II°						
		16 bar @ 205 °C	II°						
		25 bar @ 226.1 °C	III°						
Shell (3)	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3						
	Tab.2 Gr. 2	16 bar @ 205 °C	II°			III°			

Note (1) The design pressure of 12 bar @ 110 °C is valid for all stainless steel AISI 304 – AISI 316 versions.

Note (2) The design pressure of 12 bar @ 191.7 °C is valid for all stainless steel AISI 304 – AISI 316 versions.

Note (3) All shells are equipped with vent and drain connections Ø 1/2 "Rp ISO 7 with a tap on request can be made Ø 3/4" connections or Ø 1 "

CONFIGURATION - PED – design pressure and categories (tables–groups)

Side		Design pressure	Misure 5						
			511	513	515	518	520	524	527
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C	I°						
	Tab.4 Gr. 2	12 bar @ 110 °C (1)	Art.4 Par.3						
	Tab.2 Gr. 2	12 bar @ 191.7°C (2)	II°						
			II°						
		16 bar @ 205 °C	II°			III°			
		25 bar @ 226.1 °C	III°						
Shell	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3						
	Tab.2 Gr. 2	16 bar @ 205 °C	III°						

Side		Design pressure	Misure 6						
			615	616	619	622	625	628	631
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C	I°						
	Tab.4 Gr. 2	12 bar @ 110 °C	Art.4 Par.3						
	Tab.2 Gr. 2	12 bar @ 191.7°C (2)	II°				III°		
			II°	III°					
		16 bar @ 205 °C	III°						
		25 bar @ 226.1 °C	III°				N.A.		
Shell	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3						
	Tab.2 Gr. 2	16 bar @ 205 °C	III°						IV°

N.A. = not applicable

Note (1) The design pressure of 12 bar @ 110 °C is valid for all stainless steel AISI 304 – AISI 316 versions.

Nota (2) The design pressure of 12 bar @ 191.7 °C is valid for all stainless steel AISI 304 – AISI 316 versions.

CONFIGURATION - PED – design pressure and categories (tables–groups)

Side		Design pressure	Misure 7					
			718	720	723	725	729	733
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C	I°					
	Tab.2 Gr. 2	12 bar @ 110 °C (1)	Art.4 Par.3					
	Tab.2 Gr. 2	declassate 8 bar @ 175,4 °C (2)	II°			N.A.		
			II°		N.A.			
		16 bar @ 205 °C	III°					
Shell	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3					
	Tab.2 Gr. 2	16 bar @ 205 °C	IV°					

Side		Design pressure	Misure 8						
			820	822	825	829	832	835	839
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C	I°						
	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3						
	Tab.2 Gr. 2	16 bar @ 205 °C	IV						
Shell	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3						
	Tab.2 Gr. 2	16 bar @ 205 °C	IV°						

Side		Design pressure	Misure 9								
			920	923	925	928	931	936	941	947	952
Tubes	Tab.3 Gr. 1	6 bar @ 350 °C	I°								
	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3								
	Tab.2 Gr. 2	16 bar @ 205 °C	IV								
Shell	Tab.4 Gr. 2	12 bar @ 110 °C	Art. 4 Par.3								
	Tab.2 Gr. 2	16 bar @ 205 °C	IV°								

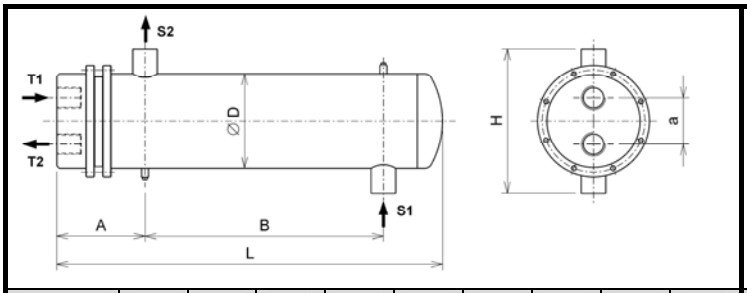
N.A. = not applicable

Note (1) The design pressure of 12 bar @ 110 °C is valid for all stainless steel AISI 304 – AISI 316 versions.

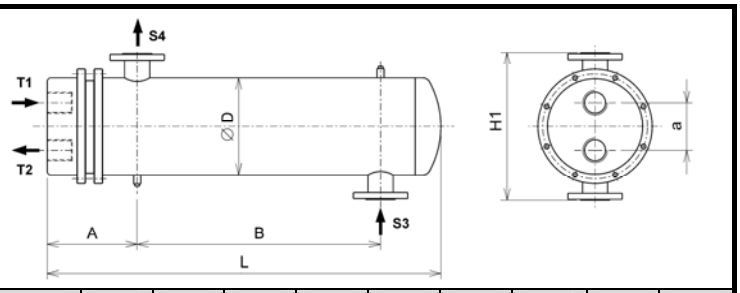
Note (2) The design pressure of 8 bar @ 175,4 °C is valid for all stainless steel AISI 304 – AISI 316 versions.

Models - Dimensions in mm, Connections and Weights in Kg.

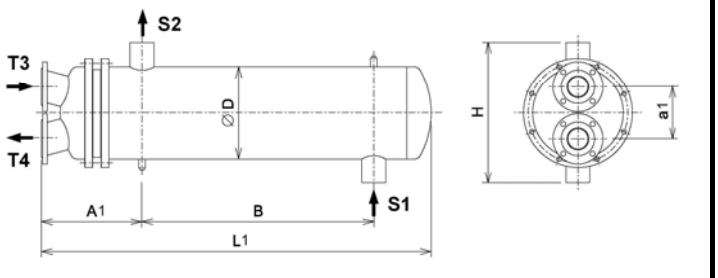
Models configuration Misure 1 – " P12 - P16 "



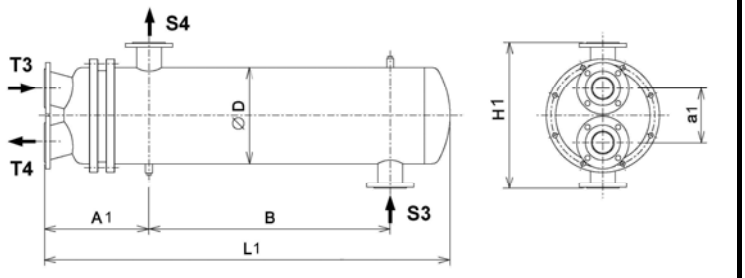
Mod.	104	105	107	109	111	113	115	118	120
Weight Kg	30	32	37	43	49	55	61	68	73



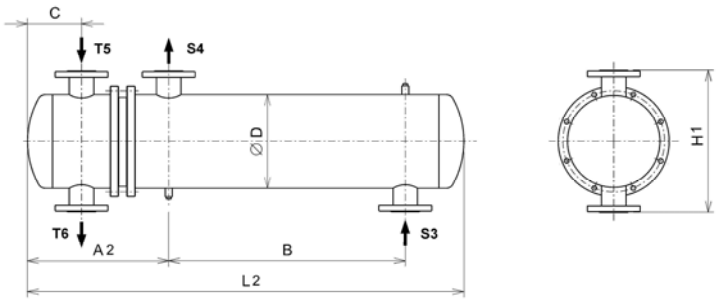
Mod.	104	105	107	109	111	113	115	118	120
Weight Kg	36	38	43	49	55	61	67	75	79



Mod.	104	105	107	109	111	113	115	118	120
Weight Kg	33	35	40	46	52	58	64	71	76



Mod.	104	105	107	109	111	113	115	118	120
Weight Kg	39	41	46	52	58	64	70	77	82



Model	104	105	107	109	111	113	115	118	120
Weight Kg	35	37	42	48	54	60	66	73	78

Gas Female threads According Rp ISO 7 - Flanges according to EN 1092-1 (Other executions on request)

Misure	Mod.	ØD	Head connections				Shell connections			
			T1 - T2	T3 - T4	T5-T6		S1 - S2	S3 - S4	S3 - S4	
			2 steps	4 steps	2 – 4 steps				I° increase	II° increase
1	104	133	Ø 1.1/2" Gas	Ø 1.1/4" Gas	DN 40 PN 16	DN 40 PN 40 (1)	Ø 2" Gas	DN 50 PN 16 (2)	DN 65 PN 16 (2)	DN 80 PN 16 (2)
	105									
	107									
	109									
	111									
	113									
	115									
	118									
	120									

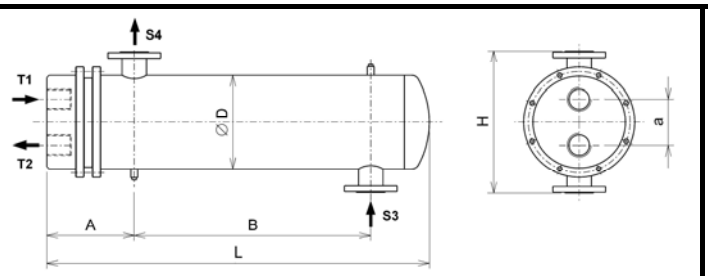
(1) If the cylinder head has design pressure P06 - 6 bar @ 350 ° C, the flange is PN 16

(2) If the shell has design pressure 16 bar @ 205 the flange is PN 40

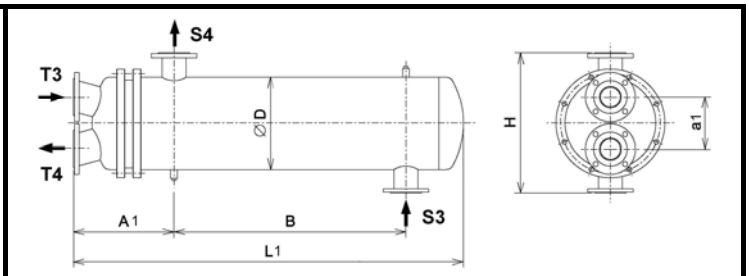
Misura	Mod.	ØD	A	A1	A2	B	C	a	a1	H	H1	L	L1	L2
1	104	133	161	221	306	280	100	58	151	230	270	556	616	701
	105					380						656	716	801
	107					580						856	916	1001
	109					780						1056	1116	1201
	111					980						1256	1316	1401
	113					1180						1456	1516	1601
	115					1380						1656	1716	1801
	118					1680						1956	2016	2101
	120					1880						2156	2198	2301

Models - Dimensions in mm, Connections and Weights in Kg.

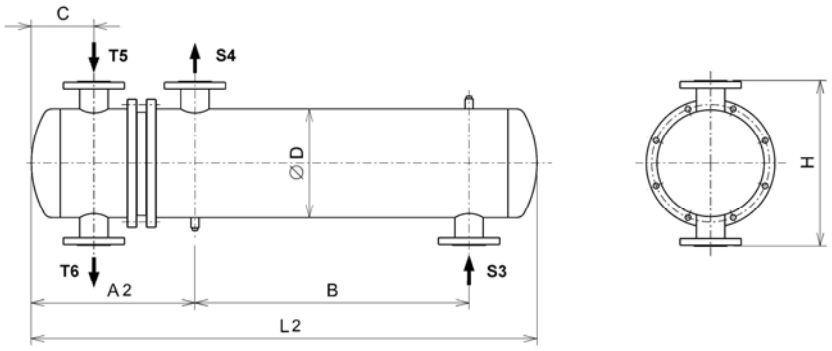
Models configuration Misure 2 – " P12 – P16 "



Mod.	207	209	211	213	215	218	220
Weight Kg	59	61	65	71	78	88	93



Mod.	207	209	211	213	215	218	220
Weight Kg	59	62	65	71	77	87	93



Model	207	209	211	213	215	218	220
Weight Kg	64	67	70	76	82	92	98

Gas Female threads According Rp ISO 7 - Flanges according to EN 1092-1 (Other executions on request)

Misure	Mod.	ØD	Head connections				Shell connections		
			T1 - T2	T3 –T4	T5-T6		S3 - S4	S3 - S4	
			2 steps	4 steps	2 – 4 steps			I° increase	II° increase
2	207 209 211 213 215 218 220	168	Ø 2" Gas	Ø 1.1/2" Gas	DN 50 PN 16	DN 50 PN 40 (1)	DN 65 PN16 (2)	DN 80 PN16 (2)	DN 100 PN16 (2)

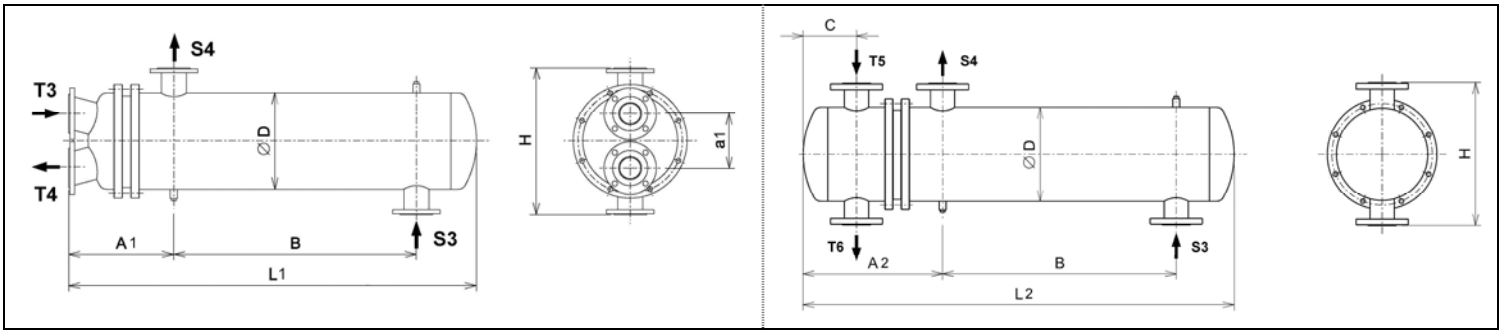
(1) If the cylinder head has design pressure P06 - 6 bar @ 350 ° C, the flange is PN 16

(2) If the shell has design pressure 16 bar @ 205 the flange is PN 40

Misure	Mod.	ØD	A	A1	A2	B	C	a	a1	H	L	L1	L2
2	207	168	191	286	386	540	135	70	167	320	851	946	1046
	209					740					1051	1146	1246
	211					940					1251	1346	1446
	213					1140					1451	1546	1646
	215					1340					1651	1746	1846
	218					1640					1951	2046	2146
	220					1840					2151	2246	2346

Models - Dimensions in mm, Connections and Weights in Kg.

Model configurations Misure 3 / 4 / 5 / 6 / 7 – " P12 – P16 "



Flanges according to EN 1092-1 (Other execution on request)

Misure	Model	Ø D	A1	A2	B	C	a1	H	L1	L2	Head Connections T3-T4 N° Steps 2 - 4	Head Connections T5-T6 N° Steps 2 - 4	Shell connections S3 - S4	Shell connections S3 - S4 Increase I°	Shell connections S3 - S4 Increase II°	Weight Kg P12 Lowered head	Weight Kg P16 cylindrical head
3	309	219	284	399	718	140	190	380	1159	1274	DN65 PN16	DN65 PN40 (1)	DN80 PN16 (2)	DN 100 PN 16 (2)	DN 125 PN16 (2)	91	97
	311				918				1359	1474						100	106
	313				1118				1559	1674						109	115
	315				1318				1759	1774						119	125
	318				1618				1859	1874						134	140
	320				1818				2359	1374						144	150
4	409	273	335	474	686	164	210	460	1195	1334	DN80 PN16	DN80 PN40 (1)	DN100 PN16 (2)	DN 125 PN 16 (2)	DN 150 PN16 (2)	115	127
	411				886				1395	1534						128	140
	413				1086				1595	1734						141	153
	415				1286				1765	1934						154	166
	418				1586				2095	2234						174	186
	420				1786				2295	2434						188	200
	424				2186				2695	2834						214	226
5	511	324	392	567	850	205	222	540	1457	1632	DN 100 PN16	DN 100 PN40 (1)	DN 125 PN16 (2)	DN 150 PN 16 (2)	DN 200 PN16 (2)	163	180
	513				1050				1657	1832						193	210
	515				1250				1857	2032						213	230
	518				1550				2157	2332						243	260
	520				1750				2357	2532						261	278
	524				2150				2757	2932						297	314
	527				2450				3057	3242						324	341
6	615	356	420	585	1245	225	252	580	1890	2055	DN 125 PN16	DN 125 PN40 (1)	DN 150 PN16 (2)	DN 200 PN 16 (2)	DN 250 PN16 (2)	300	316
	616				1345				1990	2155						312	328
	619				1645				2290	2455						348	364
	622				1945				2590	2755						384	400
	625				2245				2890	3055						420	436
	628				2545				3190	3355						456	472
	631				2845				3490	3655						492	508
7	718	406	562	640	1545	260	287	640	2352	2434	DN 150 PN16	DN 150 PN40 (1)	DN 150 PN16 (2)	DN 200 PN16 (2)	DN 250 PN16 (2)	435	460
	720				1745				2552	2634						465	490
	723				2045				2852	2934						510	535
	725				2245				3052	3134						546	565
	729				2645				3452	3534						606	625
	733				3045				3852	3934						666	685

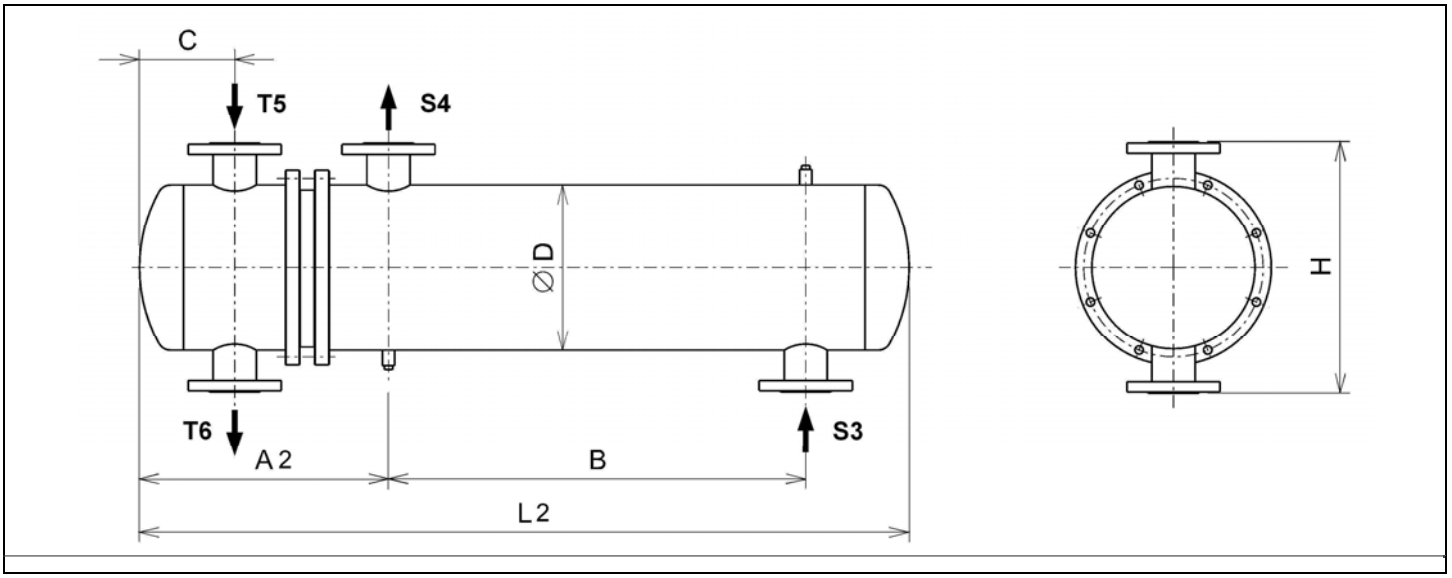
N.A. = not applicable

(1) If the cylinder head has design pressure P06 – 6 bar @ 350 °C the flange is PN 16

(2) If the shell has design pressure 16 bar @ 205 the flange is PN 40

Models - Dimensions in mm, Connections and Weights in Kg.

Models configuration Misure 8 / 9 - " P16 "



Flanges according to EN 1092-1 (Other execution on request)

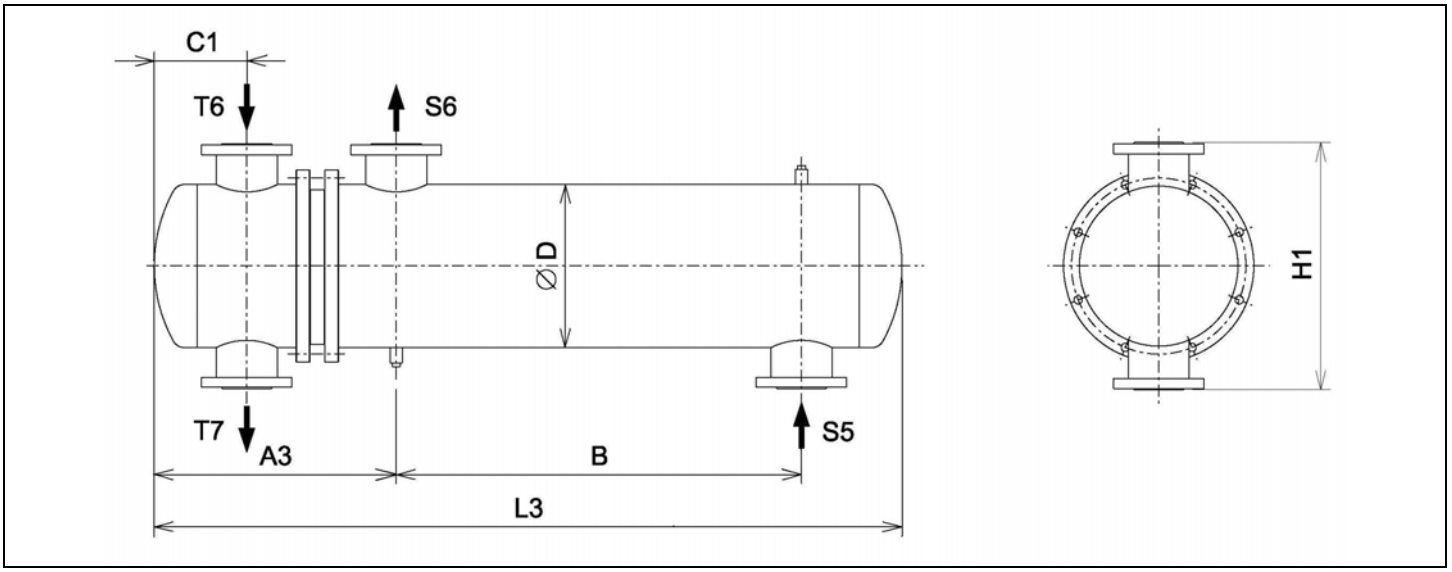
Misure	Mod.	ØD	A2	B	C	H	L2	Head connections T5 - T6 N° STEPS 2 - 4	Shell connections S3 - S4	Shell connections S3 - S4 Increase I°	Shell connections S3 - S4 Increase II°	Weight Kg
8	820	457	690	1910	290	690	2890	DN 200 PN 40 (1)	DN 200 PN 16 (2)	DN 250 PN 16 (2)	DN 300 PN16 (2)	718
	822			2110			3090					764
	825			2410			3390					833
	829			2810			3790					925
	832			3110			4090					994
	835			3410			4390					1063
	839			3810			4790					1155
9	920	508	733	1780	310	760	2823	DN 200 PN 40 (1)	DN 200 PN 16 (2)	DN 250 PN 16 (2)	DN 300 PN 16 (2)	910
	923			2080			3123					1005
	925			2280			3323					1070
	928			2580			3623					1165
	931			2880			3923					1260
	936			3380			4423					1420
	941			3880			4923					1580
	947			4480			5523					1770
	952			4980			5923					1930

(1) If the cylinder head has design pressure P06 – 6 bar @ 350 °C the flange is PN 16

(2) If the shell has design pressure 16 bar @ 205 the flange is PN 40

Models - Dimensions in mm, Connections and Weights in Kg.

Models configuration Misure 2 – 4 – 5 – 6 " P25 "



Flanges according to EN 1092-1 (Other execution on request)

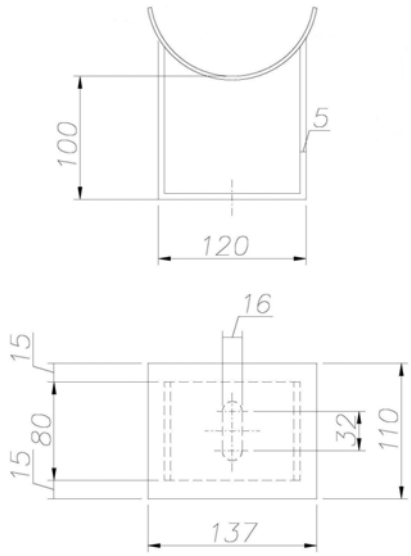
Misure	Model	ØD	A3	B	C1	H1	L3	Head connections T6 – T7 N° STEPS 2 - 4	Shell connections S5 – S6	Shell connections S5 – S6 Increase I°	Shell connections S5 – S6 Increase II°	Weight Kg
2	207	168	390	540	135	320	1050	DN 50 PN 40	DN 65 PN 16 (1)	DN 80 PN 16 (1)	DN 100 PN16 (1)	64
	209			740			1250					67
	211			940			1450					70
	213			1140			1650					76
	215			1340			1850					82
	218			1640			2150					92
	220			1840			2350					98
3	309	219	405	718	140	380	1280	DN 65 PN 40	DN 80 PN 16 (1)	DN 100 PN 16 (1)	DN 125 PN16 (1)	97
	311			918			1480					106
	313			1118			1680					115
	315			1318			1880					125
	318			1618			2180					140
	320			1818			2380					150
4	409	273	479	686	164	460	1339	DN 80 PN 40	DN 100 PN 16 (1)	DN 125 PN 16 (1)	DN 150 PN 16 (1)	127
	411			886			1539					140
	413			1086			1739					153
	415			1286			1939					166
	418			1586			2239					186
	420			1786			2439					200
	424			2186			2839					226
5	511	324	574	850	205	540	1639	DN 100 PN 40	DN 125 PN 16 (1)	DN 150 PN 16 (1)	DN 200 PN 16 (1)	180
	513			1050			1839					210
	515			1250			2039					230
	518			1550			2339					260
	520			1750			2539					278
	524			2150			2939					314
	527			2450			3239					341
6	615	356	589	1245	225	580	2059	DN 125 PN 40	DN 150 PN 16 (1)	DN 200 PN 16 (1)	DN 250 PN 16 (1)	316
	616			1345			2159					328
	619			1645			2459					364
	622			1945			2759					400
	625			2245			3059					436

(1) If the shell has design pressure 16 bar @ 205 the flange is PN 40

Pair of support – Valid for all models - Dimensions in mm and Weight in Kg.
Calculation code ASME VIII Div. 1 Ed. 2015

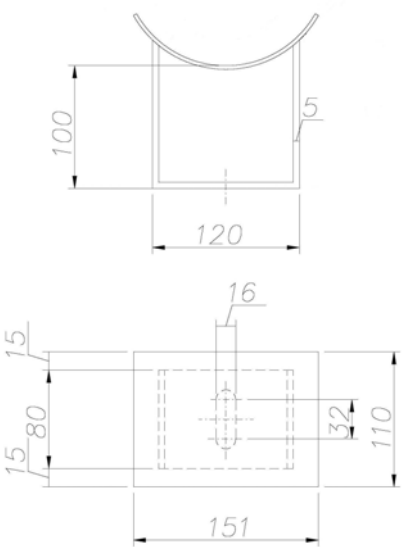
- In accordance with the Ordinance n° 3274 dated 20.03.03 GAZZETTA UFFICIALE DELLA REPUBBLICA ITALIANA
  External environment **EARTHQUAKE seismic zones 1 – 2 – 3 – 4 on the ground of category "A"**
- In conformity to D.M. LL. PP. dated 16 January 1996 and Circ. LL. PP. dated 4 July 1996
  External environment **WIND – areas 1 – 2 – 3 – 4 – 5 – 6 – 7 – 8 Class A–B–C–D Category I–II–III–IV–V**

MISURE 1



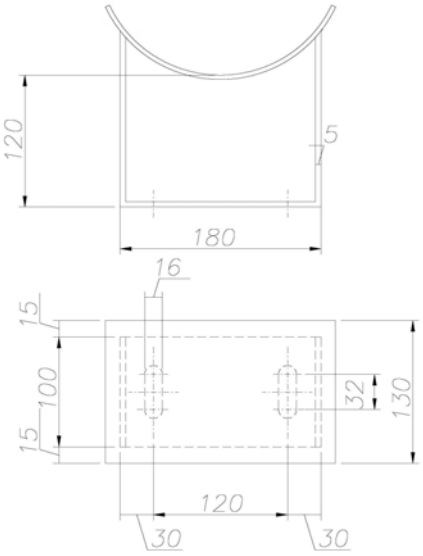
Pair or support weight Kg. 3.4

MISURE 2



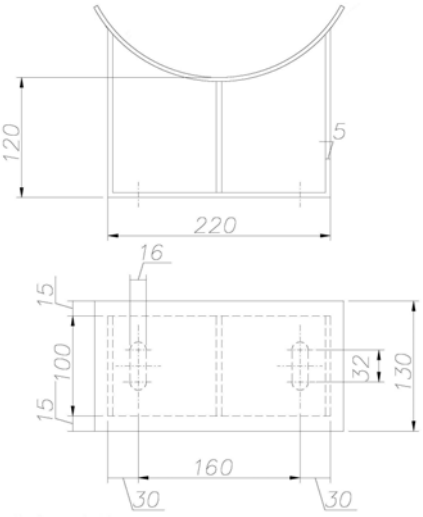
Pair or support weight Kg. 3.2

MISURE 3



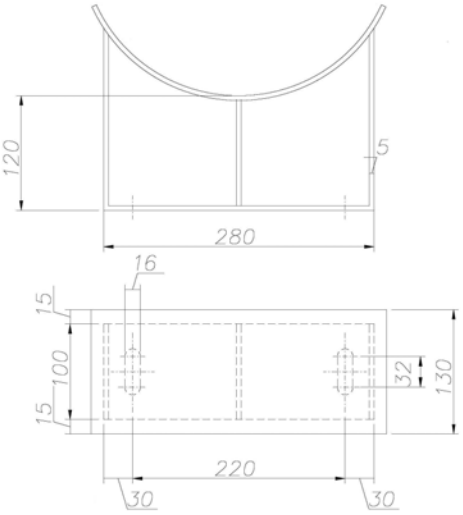
Pair or support weight Kg. 6

MISURE 4



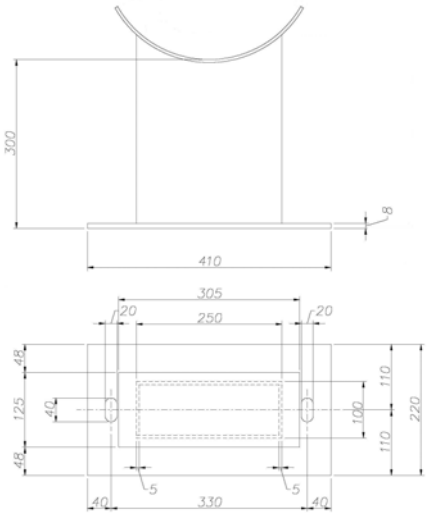
Pair or support weight Kg. 7.7

MISURE 5



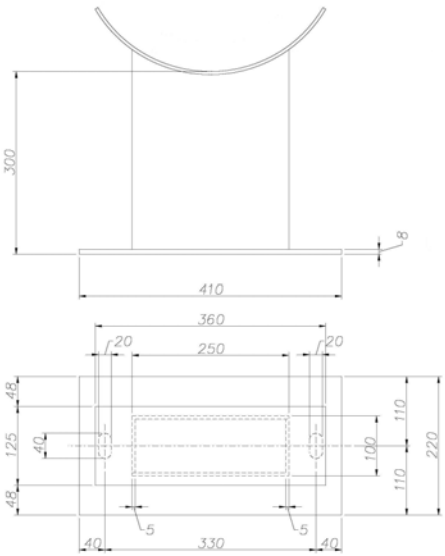
Pair or support weight Kg. 10

MISURE 6



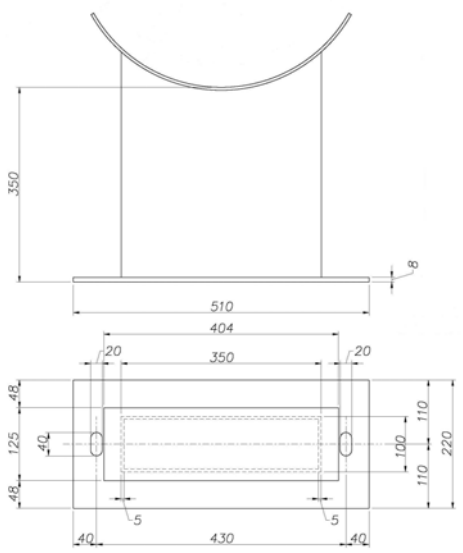
Pair or support weight Kg. 33.2

MISURE 7



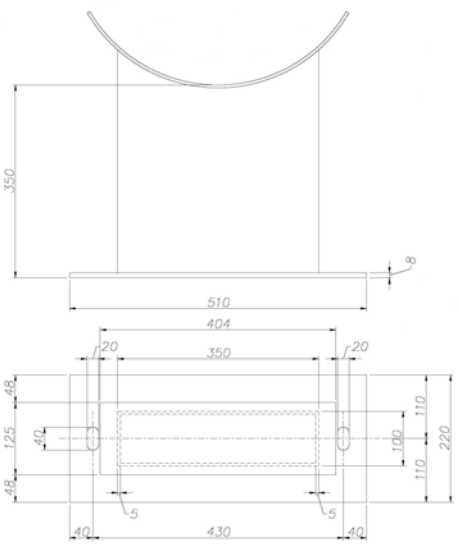
Pair or support weight Kg. 33.6

MISURE 8



Pair or support weight Kg. 47.7

MISURE 9



Pair or support weight Kg. 48.2

SKID solutions – ASSEMBLY with PED 2014/68/UE conformity





he preassembled “skid” units – “assembly” are complete units, integrated with control panel and built by

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

Conformity PED 2014/68/UE with Declaration of Conformity Assemblie CAT. IV CE marked with Notified Body number, exempt from commissioning occurs in art.5 del D.M. 1 December 2044 n° 329.
They are used for hot water and superheated water production with primary heat transfer fluid: thermal oil – Superheated water – Steam.

Main characteristics :

• ***BASEMENT***	*Carbon steel U profile RAL 6011 painted – UNP 240 x 80 RAL 6011 painted – Palletized and with eyebolts*
• ***ELECTRICAL CONTROL PANEL***	*Electrical control panel RAL 7032 painted or st. steel AISI 304, with Siemens PLC or electromechanical*
• ***CONNECTIONS***	*Electric or pneumatic to pneumatic valves and to the other equipments*
• ***INSULATION***	*Heat exchanger – Pipelines except the valves, with rock wool th.50 mm density 100 Kg/dm3 with covering of aluminum sheet 8/10, openings with stainless steel screws*
• ***PIPELINES***	*Carbon steel ASTM A106 gr. B API5L sch. 40 – painted with a coat of rust inhibitor and a coat for high temperature – Carbon steel flanges EN 1092-1 PN16 o PN40 – Carbon steel fittings – Armed graphite gaskets.*
• ***COMPONENTS***	*High quality from CONFLOW SpA products range*





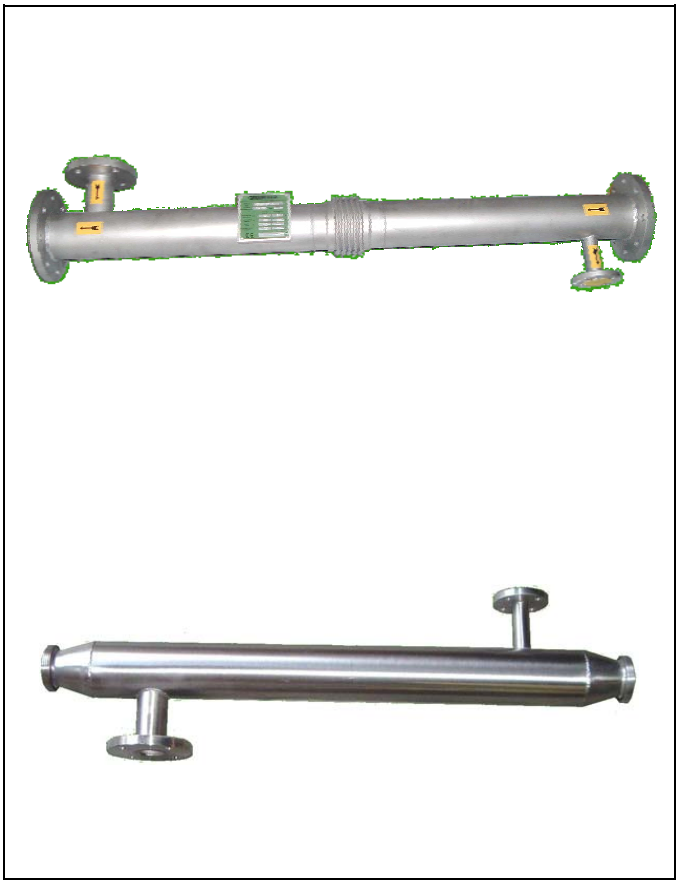
HEC – HEAT EXCHANGERS
PED 2014/68/UE – ATEX 2014/34/UE

HEC/E	
07	2016

CORRUGATED TUBES – HIGH EFFICIENCY







DESCRIPTION

The **GREENFIELD** heat exchangers HEC series with corrugated tubes, offer a solution of high efficiency in heat exchange.
Corrugation is a special process that is carried out on the smooth tube in order to obtain an internal surface able to create a flow with a turbulent flow.
By the "HARD" corrugation, the coefficient of heat exchange is greatly increased compared to conventional heat exchangers.
They can be used on a wide range of heat transfer fluids:
Steam – Water
Steam – Superheated water
Superheated water – Water
Steam and water – Food fluids

Our HEC heat exchangers are one step configurated with PN16 flanged tube plates and welded shell with expansion joint over one meter in length.

They are designed and manufactured in accordance with the following Directives:

PED 2014/68/UE with basic calculation code EN13445 Part III.
They are classified with different risk categories, depending on the design pressure, on the circuit volumes or compartments, and on the fluid types.
The following tables are defined configurations of the categories as a function of the fluid groups.

ATEX 2014/34/UE II 2G/D cTx – Non-electrical equipment for potentially explosive atmospheres.

A right configuration provides a wide choice of materials in the field of stainless steel, other materials are available on request.

The great heat efficiency grant an high compactness and a good installation flexibility due to the reduced encumbrance.

PED	***ATEX***
Various modules	***II 2 G/D cTx***
CE 1214	***CE 1370***

CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
e-mail: sales@conflow.it

CONFIGURATION - materials

Tubes plate **Flanged EN 1092-1 PN 16**	Stainless Steel AISI 304L
	Stainless Steel AISI 316L
	Other materials on request

HARD corrugated tubes **Welded on tube plates** **Welded and rolled on request**	**Ø**			
	10 x 1	**12 x 1**	**14 x 1**	**18 x 1**
	Stainless Steel AISI 304L A249			
	Stainless Steel AISI 316L A249			
	Other materials and dimensions on request			

Shell	Stainless Steel AISI 304L
	Stainless Steel AISI 316L
	Other materials on request

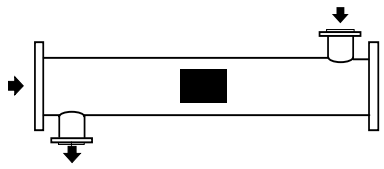
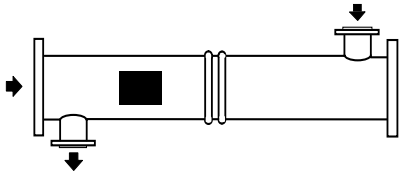
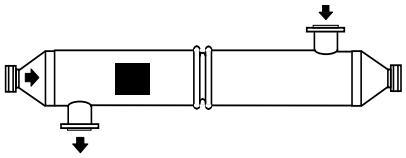
Expansion joint	Stainless Steel AISI 316L

Baffles **Starting from 3m lenght**	Stainless Steel AISI 304L
	Stainless Steel AISI 316L
	Other materials on request

Plate support	Stainless Steel AISI 304L
Plate	Alluminium

ACCESSORIES ON REQUEST

Supports	Stainless Steel AISI 304
	Stainless Steel AISI 316

CONSTRUCTION CONFIGURATION		
		
HEC without expansion joint PN16 flanged connections	**HECG** with expansion joint PN16 flanged connections	**HEC / HECG** DIN 11851 food connections

DESIGN PRESSURES (1)			
Tube Side		**Shell Side**	
12 bar @ 110 °C	**12 bar @ 191.7 °C**	**12 bar @ 110 °C**	**12 bar @ 191.7 °C**

Note (1) Other design pressures on request

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	C – Ø 60,3								
Suffix	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 14 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 12 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 10 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°

(1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	B – Ø 76,3								
Suffix	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 14 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 12 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 10 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Art. 4 Par.3	Tab. 2 – Cat. I°

(1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	A – Ø 88,9								
Suffix	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 14 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 12 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 Art. 4 Par.3	Tab. 2 – Cat. I°
Ø 10 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 Art. 4 Par.3	Tab. 2 – Cat. I°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 Art. 4 Par.3	Tab. 2 – Cat. I°

(1) (1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	0 – Ø 114,3								
Suffix	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 14 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 12 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 10 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°

(1) (1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	1 – Ø 139,7								
Suffix	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 14 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 12 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 10 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°

(1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	2 – Ø 168,3								
Suffix	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 14 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 12 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
Ø 10 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. I°	Tab. 2 – Cat. II°
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. I°	Tab. 2 – Cat. II°

(1) (1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	3 – Ø 219,1								
Suffx	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 – Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 – Cat. II°	Mod. G (2)
Ø 14 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. II°	Mod. G (2)
Ø 12 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. II°	Mod. G (2)
Ø 10 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. II°	Mod. G (2)

(1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

(2) The measures belonging to the G module can fall in the Cat. II by reducing appropriately the design pressure. Please contact our Technical Department

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	4 – Ø 273								
Suffx	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 – Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 – Cat. II°	Mod. G (2)
Ø 14 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. II°	Mod. G (2)
Ø 12 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. II°	Mod. G (2)
Ø 10 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 - Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 - Cat. II°	Mod. G (2)

(1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

(2) The measures belonging to the G module can fall in the Cat. II by reducing appropriately the design pressure. Please contact our Technical Department

CONFIGURATION - PED – design pressures and risk categories (tables–groups)
Group 2 fluids

L.T. = Tube side L.M. = Shell side

Size	5 – Ø 323,9								
Suffx	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 – Cat. II°	Mod. G
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 – Cat. II°	Mod. G

Size	6 – Ø 355,6								
Suffx	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 – Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 – Cat. II°	Mod. G (2)

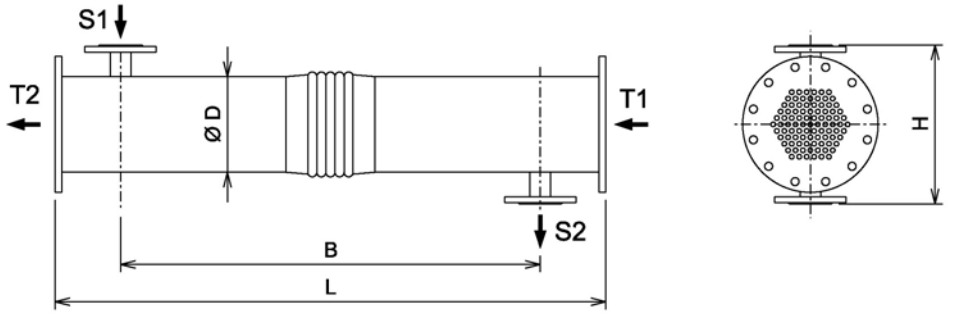
Size	7 – Ø 406,4								
Suffx	10	12	15	20	25	30	40	50	60
Tubes lenght mm	950	1150	1450	1950	2450	2950	3930	4930	5930

Tube	Design pressure	Side	Risk categories	
Ø 18 x 1	12 bar @ 110 °C (1)	L.T.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C	L.M.	Tab. 2 – Cat. II°	Mod. G (2)
	12 bar @ 110 °C (1)	L.T.+L.M.	Tab. 4 - Art. 4 Par.3	
	12 bar @ 191.7 °C		Tab. 2 – Cat. II°	Mod. G (2)

(1) Liquids with steam tension ≤ 0,5 barg @ 110,0 °C

(2) The measures belonging to the G module can fall in the Cat. II by reducing appropriately the design pressure. Please contact our Technical Department

Models, Dimensions in mm, Connections and Weight in Kg – PN16 FLANGED CONNECTIONS

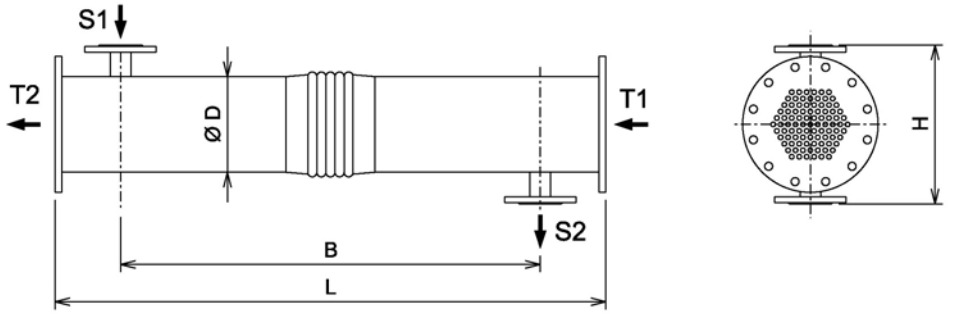


Size	Model	Ø D	L	B	H	Head connections EN 1092-1 PN16 T1 – T2	Shell connections EN 1092-1 PN16 (1)		Weight Kg Tubes			
							S1	S2	Ø10	Ø12	Ø14	Ø18
C	10	60.3	950	750	280	DN 50	DN 32	DN 20	13,5	13,2	13,5	13,0
	12		1150	950					14,4	14,2	14,5	13,9
	15		1450	1250					15,9	15,6	16,1	15,3
	20		1950	1750					18,5	18,0	18,7	17,7
	25		2450	2250					21,1	20,4	21,2	20,0
	30		2950	2730					23,6	22,8	23,8	22,3
	40		3930	3730					28,8	27,7	29,0	26,9
	50		4930	4730					33,9	32,5	34,2	31,5
	60		5930	5730					39,1	37,3	39,3	36,1
B	10	76.3	950	730	300	DN 65	DN 40	DN 25	18,4	17,2	17,3	16,8
	12		1150	930					20,2	18,6	18,8	18,1
	15		1450	1230					22,7	20,7	20,9	20,1
	20		1950	1730					27,0	24,2	24,6	23,4
	25		2450	2230					31,3	27,8	28,2	26,8
	30		2950	2730					35,6	31,3	31,8	30,1
	40		3930	3710					44,2	38,4	39,1	36,8
	50		4930	4710					52,8	45,5	46,3	43,5
	60		5930	5710					61,4	52,6	53,6	50,2
A	10	88.9	950	730	310	DN 80	DN 40	DN 25	22,5	21,2	20,6	20,4
	12		1150	930					24,7	23,1	22,4	22,1
	15		1450	1230					28,0	25,9	25,0	24,7
	20		1950	1730					33,5	30,7	29,5	29,0
	25		2450	2230					39,0	35,5	33,9	33,3
	30		2950	2730					44,5	40,2	38,3	37,7
	40		3930	3710					55,6	49,7	47,2	46,3
	50		4930	4710					66,6	59,3	56,1	54,9
	60		5930	5710					77,6	68,8	64,9	63,5
0	10	114.3	950	700	340	DN 100	DN 50	DN 25	29,9	29,4	29,3	27,7
	12		1150	900					33,2	32,5	32,4	30,5
	15		1450	1200					38,1	37,2	37,1	34,6
	20		1950	1700					46,2	45,1	44,9	41,4
	25		2450	2200					54,4	52,9	52,7	48,3
	30		2950	2700					62,5	60,7	60,5	55,2
	40		3930	3700					78,8	76,4	76,1	68,9
	50		4930	4700					95,1	92,1	91,7	82,6
	60		5930	5700					111,4	107,7	107,3	96,3
1	10	139.7	950	700	340	DN 125	DN 50	DN 40	41,5	42,0	39,4	36,6
	12		1150	900					46,1	46,7	43,5	40,0
	15		1450	1200					52,9	53,8	49,6	45,2
	20		1950	1700					64,4	65,5	59,8	53,7
	25		2450	2200					75,9	77,2	70,0	62,3
	30		2950	2700					87,3	88,9	80,2	70,9
	40		3930	3700					110,2	112,3	100,6	88.0
	50		4930	4700					133,1	135,8	121,0	105,1
	60		5930	5700					156,0	159,3	141,4	122,2
2	10	168.3	950	690	380	DN 150	DN 80	DN 40	58,0	57,0	53,2	49,1
	12		1150	890					64,9	63,6	59,0	53,9
	15		1450	1190					75,3	73,6	67,6	61,1
	20		1950	1690					92,5	90,3	82,1	73,2
	25		2450	2190					109,8	106,9	96,1	85,2
	30		2950	2690					127,1	123,6	111,0	97,3
	40		3930	3690					161,6	156,8	139,9	121,3
	50		4930	4690					196,2	190,1	168,8	145,4
	60		5930	5690					230,8	223,4	197,7	169,5

(1) Other connection on request

Follows at pag 13

Models, Dimensions in mm, Connections and Weight in Kg – PN16 FLANGED CONNECTIONS

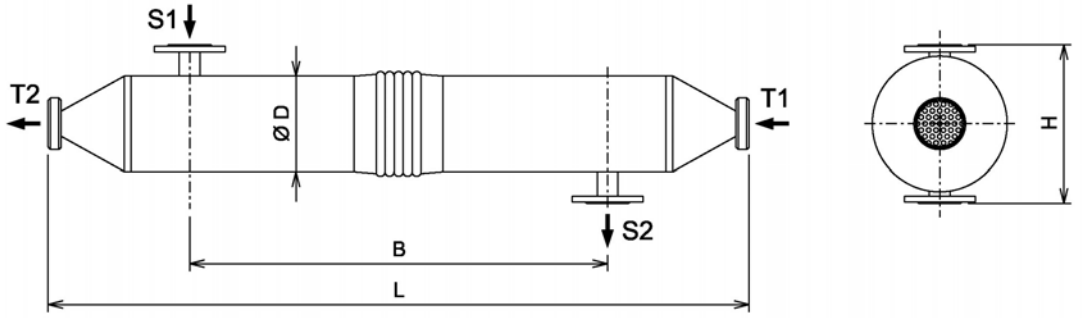


Size	Model	Ø D	L	B	H	Head connections EN 1092-1 PN16 T1 – T2	Shell connections EN 1092-1 PN16 (1)		Weight Kg Tubes			
							S1	S2	Ø10	Ø12	Ø14	Ø18
	10		950	690					97,4	93,6	89,0	78,0
	12		1150	890					110,4	105,7	100,0	86,4
	15		1450	1190					130,0	123,8	116,5	99,1
	20		1950	1690					162,6	154,0	144,1	120,2
3	25	219.1	2450	2190	460	**DN 200**	**DN 80**	**DN 50**	195,1	184,3	171,7	141,3
	30		2950	2690					227,7	214,5	199,2	162,4
	40		3930	3690					292,8	274,9	254,4	204,6
	50		4930	4690					357,9	335,4	309,5	246,9
	60		5930	5690					423,1	395,9	364,6	289,1
	10		950	670					144,6	139,1	129,7	111,7
	12		1150	870					164,2	157,4	145,8	123,5
	15		1450	1170					193,6	184,8	169,9	141,2
	20		1950	1670					242,6	230,5	210,1	170,7
4	25	273.4	2450	2170	520	**DN 250**	**DN 100**	**DN 65**	291,7	276,2	250,3	200,2
	30		2950	2870					340,7	321,9	290,5	229,7
	40		3930	3670					438,8	413,2	370,9	288,8
	50		4930	4670					536,8	504,6	451,3	347,8
	60		5930	5670					634,9	595,9	531,7	406,8
	10		950	590								167,9
	12		1150	790								186,1
	15		1450	1090								213,5
	20		1950	1590								259,1
5	25	232.9	2450	2090	580	**DN 300**	**DN 150**	**DN 100**		N.A.		304,7
	30		2950	2590								350,3
	40		3930	3590								441,6
	50		4930	4590								532,8
	60		5930	5590								624,1
	10		950	590								215,7
	12		1150	790								238,6
	15		1450	1090								273,1
	20		1950	1590								330,5
6	25	355.6	2450	2090	580	**DN 350**	**DN 150**	**DN 125**		N.A.		388,0
	30		2950	2590								445,3
	40		3930	3590								560,1
	50		4930	4590								674,9
	60		5930	5590								789,7
	10		950	590								276,7
	12		1150	790								306,0
	15		1450	1090								349,9
	20		1950	1590								423,0
7	25	406.4	2450	2090	640	**DN 400**	**DN 150**	**DN 150**		N.A.		496,1
	30		2950	2590								569,3
	40		3930	3590								715,6
	50		4930	4590								861,8
	60		5930	5590								1008,0

(1) Other connections on request

N.A. = Not Applicable

Models, Dimensions in mm, Connections and Weight in Kg – DIN 11851 Food connections



Size	Model	Ø D	L	B	H	Head connections DIN 11851 Female T1 – T2	Shell connections EN 1092-1 PN16 (1)		Weight Kg Tubes			
							S1	S2	Ø10	Ø12	Ø14	Ø18
C	10	60.3	1050	750	280	DN 40	DN 32	DN 20	12,9	12,6	12,9	12,4
	12		1250	950					13,8	13,6	13,9	13,3
	15		1340	1250					15,3	15,0	15,5	14,7
	20		2050	1750					17,9	17,4	18,1	17,1
	25		2550	2250					20,5	19,8	20,6	19,4
	30		3050	2730					23,0	22,2	23,2	21,7
	40		4030	3730					28,2	27,1	28,4	26,3
	50		5030	4730					33,3	31,9	33,6	30,9
	60		6030	5730					38,5	36,7	38,7	35,5
B	10	76.3	1050	730	300	DN 50	DN 40	DN 25	16,7	15,5	15,6	15,1
	12		1250	930					18,5	16,9	17,1	16,4
	15		1340	1230					21,0	19,0	19,2	18,4
	20		2050	1730					25,3	22,5	22,9	21,7
	25		2550	2230					29,6	26,1	26,5	25,1
	30		3050	2730					33,9	29,6	30,1	28,4
	40		4030	3710					42,5	36,7	37,4	35,1
	50		5030	4710					51,1	43,8	44,6	41,8
	60		6030	5710					59,7	50,9	51,9	48,5
A	10	88.9	1050	730	310	DN 65	DN 40	DN 25	18,8	17,5	16,9	16,7
	12		1250	930					21,0	19,4	18,7	18,4
	15		1340	1230					24,3	22,2	21,3	21,0
	20		2050	1730					29,8	27,0	25,8	25,3
	25		2550	2230					35,3	31,8	30,2	29,6
	30		3050	2730					40,8	36,5	34,6	34,0
	40		4030	3710					51,9	46,0	43,5	42,6
	50		5030	4710					62,9	55,6	52,4	51,2
	60		6030	5710					73,9	65,1	61,2	59,8
0	10	114.3	1070	700	340	DN 65	DN 50	DN 25	25,7	25,2	25,1	23,5
	12		1270	900					29,0	28,3	28,2	26,3
	15		1570	1200					33,9	33,0	32,9	30,4
	20		2070	1700					42,0	40,9	40,7	37,2
	25		2570	2200					50,2	48,7	48,5	44,1
	30		3070	2700					58,3	56,5	56,3	51,0
	40		4050	3700					74,6	72,2	71,9	64,7
	50		5050	4700					90,9	87,9	87,5	78,4
	60		6050	5700					107,2	103,5	103,1	92,1
1	10	139.7	1070	700	340	DN 80	DN 50	DN 40	35,7	36,2	33,6	30,8
	12		1270	900					40,3	40,9	37,7	34,2
	15		1570	1200					47,1	48,0	43,8	39,4
	20		2070	1700					58,6	59,7	54,0	47,9
	25		2570	2200					70,1	71,4	64,2	56,5
	30		3070	2700					81,5	83,1	74,4	65,1
	40		4050	3700					104,4	106,5	94,8	-2,1
	50		5050	4700					127,3	130,0	115,2	99,3
	60		6050	5700					150,2	153,5	135,6	116,4
2	10	168.3	1070	690	380	DN 100	DN 80	DN 40	50,5	49,5	45,7	41,6
	12		1270	890					57,4	56,1	51,5	46,4
	15		1570	1190					67,8	66,1	60,1	53,6
	20		2070	1690					85,0	82,8	74,6	65,7
	25		2570	2190					102,3	99,4	88,6	77,7
	30		3070	2690					119,6	116,1	103,5	89,8
	40		4050	3690					154,1	149,3	132,4	113,8
	50		5050	4690					188,7	182,6	161,3	137,9
	60		6050	5690					223,3	215,9	190,2	162,0

(1) Other connections on request

SKID solutions – ASSEMBLY with PED 2014/68/UE conformity





The preassembled “skid” units – “assembly” are complete units, integrated with control panel and built by

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

Conformity PED 2014/68 / EU with Declaration of Conformity Assembly CAT. IV CE marked with Notified Body number, exempt from commissioning according to art.5 of D.M. service December 1, 2044 No. 329.
They are intended to produce hot water and superheated water with primary heat transfer fluid in the shell side: Superheated Water - Steam.

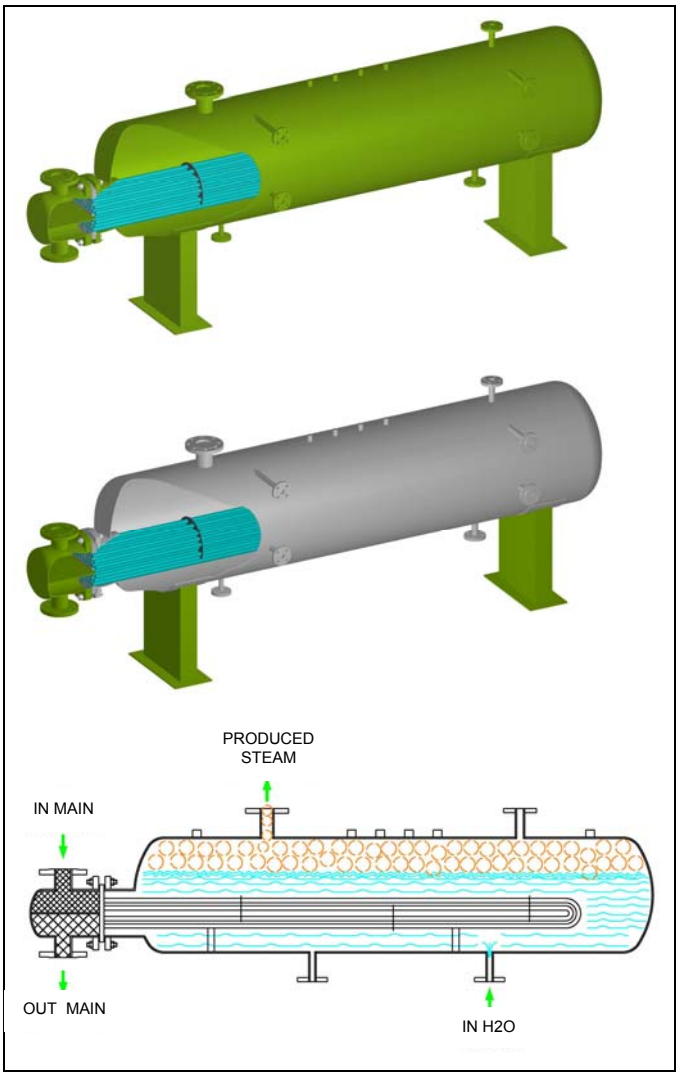
Main characteristics:

• ***BASEMENT***	*Carbon steel U profile RAL 6011 painted – UNP 240 x 80 RAL 6011 painted – Palletized and with eyebolts*
• ***ELECTRICAL CONTROL PANEL***	*Electrical control panel RAL 7032 painted or st. steel AISI 304, with Siemens PLC or electromechanical*
• ***CONNECTIONS***	*Electric or pneumatic to pneumatic valves and to the other equipments*
• ***INSULATION***	*Unfired steam generator – Pipelines except the valves, with rock wool th.50 mm density 100 Kg/dm3 with covering of aluminum sheet 8/10, openings with stainless steel screws*
• ***TECHNOLOGICAL STEAM PIPELINES***	*Carbon steel ASTM A106 gr. B API5L sch. 40 – painted with a coat of rust inhibitor and a coat for high temperature – Carbon steel flanges EN 1092-1 PN16 o PN40 – Carbon steel fittings – Armed graphite gaskets*
• ***CLEAN STEAM and SERVICES PIPELINES***	*Stainless steel AISI 316L – St. steel AISI 316L collar flanges – St. steel AISI 316L fittings – PTFE gaskets – A2 – Acc. Inox AISI 304 bolts*
• ***COMPONENTS***	*High quality from CONFLOW SpA products range*

UNFIRED STEAM GENERATORS - GV
PED 2014/68/UE

GV/E	
07	2016

WITH STEPS REMOVABLE "U" TUBE BUNDLE



DESCRIPTION

The **GREENFIELD** unfired steam generators are shell and tube evaporators calculated and designed so that to obtain a series of more than 500 models that differ in their size and surface exchange.
They are available with 2 or 4 steps to make the most of the heat transfer fluids used.
They are designed an built according to the following Directive:

PED 2014/68/UE with basic calculation code EN 13445 part 3; on request can be designed with calculation code ASME VIII Div. 1 or AD2000 .
They are classified on IV category, with groups of fluids alternatives:
Tube side : Group 1 – Group 2
Shell side : Group 2

They consist of a cylinder head with 2 or 4 steps with perpendicular attacks and a cylindrical tank with high efficiency shell and bent "U" tubes in the lower part.
The steam generated by the heating of water contained in the vessel, it is collected in the upper part over the mirror and the level of evaporating water.
The steam consumption, is reintegrated by means of a level regulator (separated accessory) that gives consent to the feed pump (separated accessory).
This process restores the level to the set value.
The unfired steam generator is properly sized by our calculation software, in order to obtain the production of steam with title 98%.
The configurations of the various materials, allow the unfired steam generator to produce steam for industrial use or clean steam for domestic use.

We make on request "SKID" integrated solutions.
The "assemblie" skid are certified with CE PED 2014/68/UE conformity declaration.
They are complete package units, with integrated panel control system, with PLC Siemens or electromechanical panel, designed after years of experience and applications in the heat transfer market.





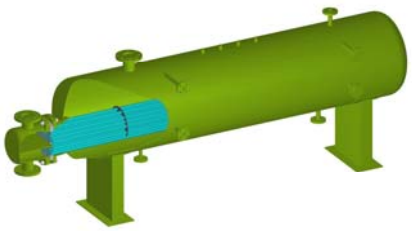
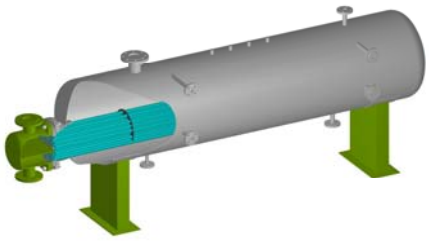
PED 2014/68/UE
CE 1214

CONFLOW s.p.a.
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

CONFIGURATION – Design pressures

Side	Tubes			Shell	
Fluid	Thermal oil	Steam	Superheated water	Process steam	Clean steam
Group	1	2		2	
Design pressure	6 bar @ 350 °C	16 bar @ 205 °C		15bar @ 202°C	10bar @ 185°C
Calculation code	Standard EN 13445 Part 3 + PED				

CONFIGURATION - materials

	GV for Process Steam			GV for Clean Steam		
Description						
Head	Painted RAL 6010 carbon steel			Painted RAL6010 Carbon st.	St. steel AISI 304	St. steel AISI 316
Gaskets	Tecnograph GR th. 3 mm			Tecnograph GR th. 3 mm		
Rods-Nuts	A193B7 + A194 2H galvanized			A193B7 A194 2H galvanized	A193B8 A194 Gr.8	A193 B8M A194 Gr.8M
Tube sheet	Carbon steel P275NH or P355NH			St. steel AISI 304L		St. steel AISI 316L
Welded and rolled tubes	Fe 35.2 Ø 18 x 1,5	AISI 304L A249 Ø 18 x 1	AISI 316L A249 Ø 18 x 1	AISI 304L A249 Ø 18 x 1		AISI 316L A249 Ø 18 x 1
Shell	Carbon steel P275NH or P355NH			St. steel AISI 304L		St. steel AISI 316L
Baffles	Carbon steel			St. steel AISI 304L		St. steel AISI 316L
Supports	Panted RAL 6010 carbon steel			Painted RAL 6010 carbon steel		St. steel AISI 304

Product Codification System

Example code

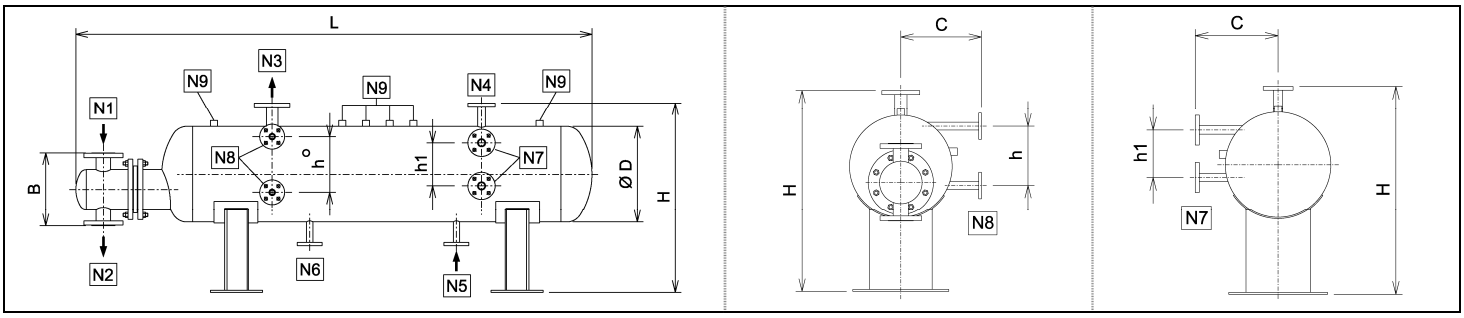
2	GV	4	211	P10	X3	A

N° Steps		Series	Size		Model	Design Pressure		Materials		Steam outlet	
2	N° 2	**GV**	**4**	Ø 406	**...**	**P10**	10 bar@185°C	**FO**	All Fe	**A**	STD
4	N° 4		**5**	Ø		**P15**	15 bar@202°C	**XO**	Tube A304 other Fe	**B**	One size increm.
			6					**KO**	Tube A316 other Fe	**C**	Double size incr.
			7					**X3**	St.st. 304 – Head Fe		
			8					**K3**	St.st. 316 – Head Fe		
			9					**X4**	All St. st. 304		
			10					**K4**	All St. st. 316		

Models

GV	4	5	6	7	8	9	10
Model	**211**	**315**	**418**	**520**	**622**	**720**	**820**
	215	**318**	**420**	**524**	**625**	**723**	**823**
	218	**320**	**424**	**527**	**628**	**725**	**825**
	220	**324**	**427**	**530**	**631**	**729**	**829**
	224	**327**	**430**	**534**	**634**	**733**	**833**
	227	**330**	**434**	**538**	**637**	**737**	**837**
	230	**-**	**-**	**540**	**640**	**740**	**840**
	-	**-**	**-**	**-**	**644**	**744**	**844**

GV Models Industrial Steam CARBON STEEL – Dimensions in mm, Connection EN 1092-1 PN40 and Weights in Kg. – Follows at pag 5



Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV4	211	2130	406	320	310	292	820	323	210	DN50	DN50 DN65 (as alternative)	DN20 DN25 (as alternative) DN32 (as alternative) DN40 (as alternative)	DN20 – PN40	DN20 – PN40	DN25 – PN40	DN20 – PN40	Ø1/2"	190
	215	2130							210									190
	218	2630							265									210
	220	2630							265									210
	224	3130							325									230
	227	3630							390									250
	230	3630							390									250

* With the calm tube version increase the capacity to 18.5 lt. ** With the calm tube version increase the weight to 12.5 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV5	315	2222	550	380	340	292	1020	360	390	DN65	DN80 DN100 (as alternative)	DN20 DN25 (as alternative) DN32 (as alternative) DN40 (as alternative)	DN20	DN20	DN25	DN20	Ø1/2"	330
	318	2722							500									380
	320	2722							500									380
	324	3222							620									410
	327	3722							735									460
	330	3722							735									460

* With the calm tube version increase the capacity to 37.5 lt. ** With the calm tube version increase the weight to 22 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV6	418	2803	642	460	370	292	1120	425	710	DN80	DN80 DN100 (as alternative) DN125 (as alternative)	DN32 DN25 (as alternative) DN40 (as alternative)	DN25	DN25	DN25	DN20	Ø1/2"	347
	420	2803							710									353
	424	3303							850									405
	427	3803							1005									454
	430	3803							1005									463
	434	4303							1150									515

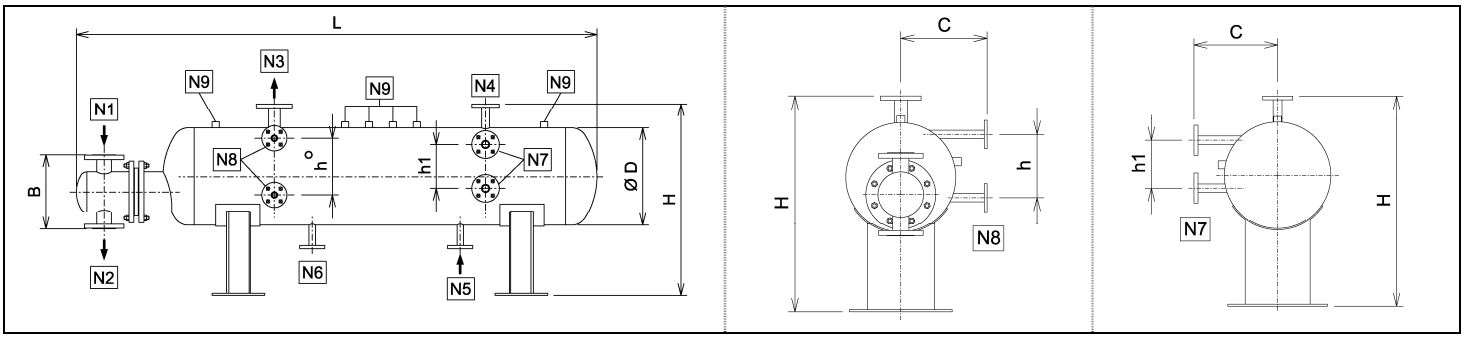
* With the calm tube version increase the capacity to 47 lt. ** With the calm tube version increase the weight to 27 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV7	520	2928	754	540	370	292	1225	475	980	DN100	DN100 DN125 (alternative) DN150 (alternative)	DN32 DN40 (alternative) DN50 (alternative) DN65 (alternative)	DN25	DN25	DN25	DN20	Ø1/2"	459
	524	3428							1200									521
	527	3928							1420									579
	530	3928							1420									591
	534	4428							1620									653
	538	4928							1850									715
	540	4928							1850									723

* With the calm tube version increase the capacity to 64 lt. ** With the calm tube version increase the weight to 34 Kg.

Note (1) : With the calm tube version increase the dimension L to 150 mm

GV Models Industrial Steam CARBON STEEL – Dimensions in mm, Connection EN 1092-1 PN40 and Weights in Kg.



Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV8	622	3015	856	580	370	292	1470	550	1287	DN125	DN125 DN150 (as alternative) DN200 (as alternative)	DN40 DN50 (as alternative) DN65 (as alternative) DN80 (as alternative)	DN32 DN25 (as alternative)	DN32 DN25 (as alternative)	DN25	DN20	Ø1/2"	559
	625	3315							1440									607
	628	3515							1593									655
	631	3915							1746									702
	634	4315							1899									751
	637	4715							2052									799
	640	5015							2205									847
	644	5415							2409									911

* With the calm tube version increase the capacity to 81 lt.

** With the calm tube version increase the weight to 41 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV9	720	3015	950	640	370	292	1570	600	1506	DN150	DN150 DN200 (as alternative) DN250 (as alternative)	DN50 DN65 (as alternative) DN80 (as alternative) DN100 (as alternative)	DN40 DN25 (as alternative)	DN40 DN25 (as alternative)	DN25	DN20	Ø1/2"	972
	723	3315							1713									1047
	725	3515							1850									1102
	729	3915							2126									1202
	733	4315							2405									1302
	737	4715							2684									1402
	740	2015							2891									1482
	744	5415							3167									1582

* With the calm tube version increase the capacity to 104 lt.

** With the calm tube version increase the weight to 48 Kg.

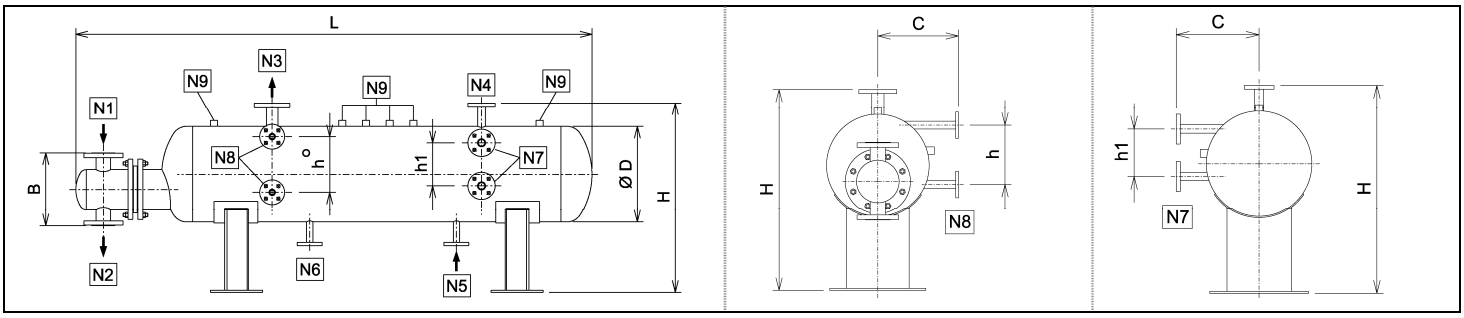
Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV10	820	3150	1100	690	370	292	1720	675	1637	DN100	DN150 DN200 (alternative) DN250 (alternative)	DN50 DN65 (alternative) DN80 (alternative) DN100 (alternative)	DN40 DN25 (alternative)	DN40 DN25 alternative)	DN25	DN20	Ø1/2"	1110
	823	3450							1876									1177
	825	3650							2036									1276
	829	4050							2356									1408
	833	4450							2675									1540
	837	4850							2995									1657
	840	5150							3235									1774
	844	5550							3554									1908

* With the calm tube version increase the capacity to 140 lt.

** With the calm tube version increase the weight to 82 Kg.

Nota (1) : With the calm tube version increase the dimension L di 150 mm

GV Models Clean steam STAINLESS STEEL AISI 304L / AISI 316L - Dimensions in mm, Connection EN 1092-1 PN16 and weight in Kg. – Follows at pag 7



Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV4	211	2130	406	320	310	292	820	323	210	DN50 - PN40	DN50 DN65 (as alternative)	DN20 DN25 (as alternative) DN32 (as alternative) DN40 (as alternative)	DN20	DN20	DN25	DN20	Ø1/2"	190
	215	2130							210									190
	218	2630							265									210
	220	2630							265									210
	224	3130							325									230
	227	3630							390									250
	230	3630							390									250

* With the calm tube version increase the capacity to 18.5 lt. ** With the calm tube version increase the weight to 12.5 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV5	315	2222	550	380	340	292	1020	360	390	DN65 - PN40	DN80 DN100 (as alternative)	DN20 DN25 (as alternative) DN32 (as alternative) DN40 (as alternative)	DN20	DN20	DN25	DN20	Ø1/2"	330
	318	2722							500									380
	320	2722							500									380
	324	3222							620									410
	327	3722							735									460
	330	3722							735									460

* With the calm tube version increase the capacity to 37.5 lt. ** With the calm tube version increase the weight to 22 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV6	418	2803	640	460	370	292	1120	425	710	DN80 - PN40	DN80 DN100 (as alternative) DN125 (as alternative)	DN32 DN25 (as alternative) DN40 (as alternative)	DN25	DN25	DN25	DN20	Ø1/2"	347
	420	2803							710									353
	424	3303							850									405
	427	3803							1005									454
	430	3803							1005									463
	434	4303							1150									515

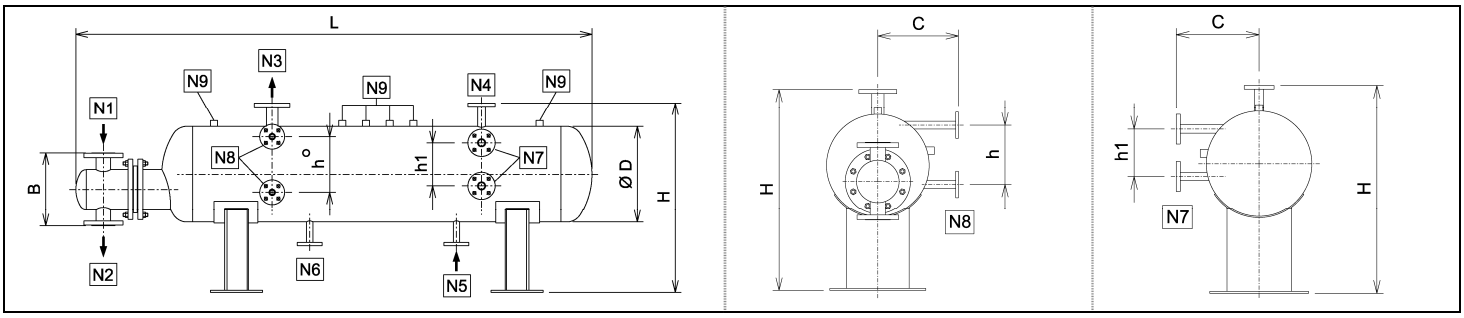
* With the calm tube version increase the capacity to 47 lt. ** With the calm tube version increase the weight to 27 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV7	520	2928	750	540	370	292	1225	475	980	DN100 - PN40	DN100 DN125 (alternative) DN150 (alternative)	DN32 DN40 (alternative) DN50 (alternative) DN65 (alternative)	DN25	DN25	DN25	DN20	Ø1/2"	459
	524	3428							1200									521
	527	3928							1420									579
	530	3928							1420									591
	534	4428							1620									653
	538	4928							1850									715
	540	4928							1850									723

* With the calm tube version increase the capacity to 64 lt. ** With the calm tube version increase the weight to 34 Kg.

Note (1) : With the calm tube version increase the dimension L to 150 mm

GV Models Clean steam STAINLESS STEEL AISI 304L / AISI 316L - Dimensions in mm, Connection EN 1092-1 PN16 and weight in Kg.



Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV8	**622**	3015	850	580	370	292	1470	550	1287	DN125 – **PN40**	DN125 DN150 (as alternative) DN200 (as alternative)	DN40 DN50 (as alternative) DN65 (as alternative) DN80 (as alternative)	DN32 DN25 (as alternative)	DN32 DN25 (as alternative)	DN25	DN20	Ø1/2"	559
	625	3315							1440									607
	628	3515							1593									655
	631	3915							1746									702
	634	4315							1899									751
	637	4715							2052									799
	640	5015							2205									847
	644	5415							2409									911

* With the calm tube version increase the capacity to 81 lt.

** With the calm tube version increase the weight to 41 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV9	**720**	3015	950	640	370	292	1570	600	1506	DN150 - **PN40**	DN150 DN200 (as alternative) DN250 (as alternative)	DN50 DN65 (as alternative) DN80 (as alternative) DN100 (as alternative)	DN40 DN25 (as alternative)	DN40 DN25 (as alternative)	DN25	DN20	Ø1/2"	972
	723	3315							1713									1047
	725	3515							1850									1102
	729	3915							2126									1202
	733	4315							2405									1302
	737	4715							2684									1402
	740	2015							2891									1482
	744	5415							3167									1582

* With the calm tube version increase the capacity to 104 lt.

** With the calm tube version increase the weight to 48 Kg.

Size	Model	L (1)	ØD	B	h	h1	H	C	Capacity Lt. *	N1 - N2	N3	N4	N5	N6	N7	N8	N9	Weight ** Kg
GV10	**820**	3150	1100	690	370	292	1720	675	1637	DN100 - **PN40**	DN150 DN200 (as alternative) DN250 (as alternative)	DN50 DN65 (as alternative) DN80 (as alternative) DN100 (as alternative)	DN40 DN25 (as alternative)	DN40 DN25 (as alternative)	DN25	DN20	Ø1/2"	1110
	823	3450							1876									1177
	825	3650							2036									1276
	829	4050							2356									1408
	833	4450							2675									1540
	837	4850							2995									1657
	840	5150							3235									1774
	844	5550							3554									1908

* With the calm tube version increase the capacity to 140 lt.

** With the calm tube version increase the weight to 82 Kg.

Nota (1) : With the calm tube version increase the dimension L to 150 mm

SKID solutions – ASSEMBLY with PED 2014/68/UE conformity





The preassembled “skid” units – “assembly” are complete units, integrated with control panel and built by

CONFLOW s.p.a.
FLOW CONTROL SOLUTIONS

Conformity PED 2014/68 / EU with Declaration of Conformity Assemblie CAT. IV CE marked with Notified Body number, exempt from commissioning occurs in art.5 of D.M. service December 1, 2044 No. 329.
They are used for industrial or indirect steam Clean with primary heat transfer fluid: Diatermico Oil - Water Superheated - Steam.
If they produce indirect steam Clean the feed water used will be of demineralized type or from reverse osmosis process and have to meet the following minimum requirements:

- *Conductivity < 35 µS/cm*
- *Chlorides < 0,5 mg/l*
- *PH between 6 and 8*

For other parameters is recommended respect to the HTM 2031 standards.

Main characteristics:

• ***BASEMENT***	*Carbon steel U profile RAL 6011 painted – UNP 240 x 80 RAL 6011 painted – Palletized and with eyebolts*
• ***ELECTRICAL CONTROL PANEL***	*Electrical control panel RAL 7032 painted or st. steel AISI 304, with Siemens PLC or electromechanical*
• ***CONNECTIONS***	*Electric or pneumatic to pneumatic valves and to the other equipments*
• ***INSULATION***	*Unfired steam generator – Pipelines except the valves, with rock wool th.50 mm density 100 Kg/dm3 with covering of aluminum sheet 8/10, openings with stainless steel screws*
• ***TECHNOLOGICAL STEAM PIPELINES***	*Carbon steel ASTM A106 gr. B API5L sch. 40 – painted with a coat of rust inhibitor and a coat for high temperature – Carbon steel EN 1092-1 PN16 o PN40 – Carbon steel fittings – Armed graphite gaskets*
• ***CLEAN STEAM and SERVICES PIPELINES***	*Stainless steel AISI 316L – St. steel AISI 316L collar flanges – St. steel AISI 316L fittings – PTFE gaskets – A2 – Acc. Inox AISI 304 bolts*
• ***COMPONENTS***	*High quality from CONFLOW SpA products range*

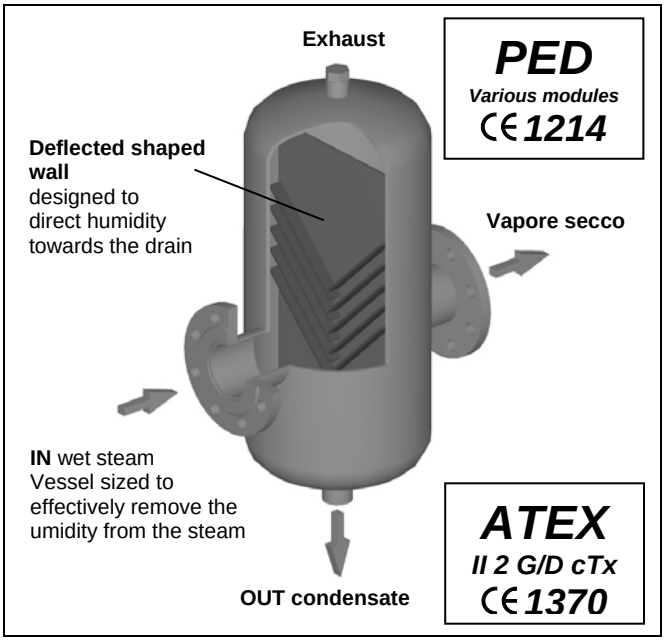




STEAM and COMPRESSED AIR SEPARATORS

GREEN line

SCV-SCA/I	
11	2017



PED
Various modules
CE 1214

ATEX
II 2 G/D cTx
CE 1370

Type SCV... for Steam

Typo SCA... for Compressed Air

DDESCRIPTION

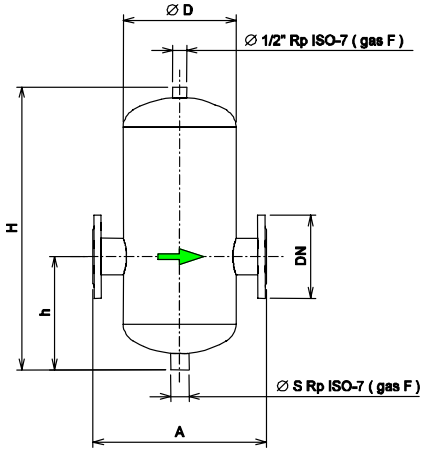
Designed to remove the water suspended in the steam, by means of a deflected shaped wall. They are designed with design code EN 13445 part 3 and in conformity to PED Directive 2014/68/UE.
On request can be designed according code ASME VIII div. 1 or AD2000.
The steam version is suitable for long stretches piping, before reducing stations and near the outlet of unfired steam generators and heat exchangers, while the version for compressed air on pipe lines where sudden changes in temperature produces condensate.

The in/out steam connections can be:
- screwed Rp ISO 7 (gas F) design pressure 6 bar @ 165 °C
- flanged EN 1092-1 PN16 design pressure 12 bar @ 191.7 °C
- flanged EN 1092-1 PN40 design pressure 16 bar @ 204.4 °C
- flanged EN 1092-1 PN40 design pressure 20 bar @ 215 °C

TYPE	Design pressure - Conformity PED 2014/68/UE											
	6 bar @ 165 °C			12 bar @ 191.7 °C			16 bar 204.4 °C			20 bar @ 215 °C		
	Screwed Conn. Rp ISO 7 (gas F)		Cat.	Flanged Conn. EN 1092-1 PN16		Cat.	Flanged Conn. EN 1092-1 PN40		Cat.	Flanged Conn. EN 1092-1 PN40		Cat.
	Ø	Weight Kg		DN	Weight Kg		DN	Weight Kg		DN	Weight Kg	
SC 015	1/2"	5	Art.4 Par.3	15	6	Art.4 Par.3	15	6	Art.4 Par.3	125	130	IV°
SC 020	3/4"	7		20	8		20	8		150	175	
SC 025	1"	9		25	10		25	10		200	310	
SC 032	1.1/4"	14		32	15	I°	32	15	I°	250	380	
SC 040	1.1/2"	20		40	21		40	21				
SC 050	2"	22		50	24		50	24	II°			
SC 065				65	38	II°	65	38				
SC 080				80	54		80	54				
SC 100				100	75		100	75				
SC 125							125 (1)	84		(1) 10 bar @ 184.1 °C		
SC 150							150 (2)	110		(2) 6 bar @ 165 °C		
SC 200							*200 (3)*	*210*		(3) 3 bar @ 133,6 °C		
SC 250												

Materials	SCV for steam		SCA per aria compressa	
	Carbon Steel Painted RAL 6011	Stainless Steel AISI 316	Galvanized Carbon Steel	Stainless Steel AISI 316

DIMENSIONS in mm. - tolerances according to TEMA section 2



DN	A – P06	A – P12 / P16 / P20	Ø D	H	h	Ø S	On request
15	193	230	133	320	149	1/2 "	DN15 PN16
20	197	240	133	322	140	3/4 "	DN 20 PN 16
25	211	240	133	342	148		
32	256	300	168	452	205		
40	300	300	168	477	203		
50	319	340	219	568	248		
65	N.A.	420	273	609	275	1"	DN 25 PN 16
80		420	273	689	275		
100		490	324	818	328		
125		590	406	972	393	1.1/2"	DN 40 PN 16
150		700	508	1050	461		
200		830	609	1448	562		
250		860	609	1617	563		

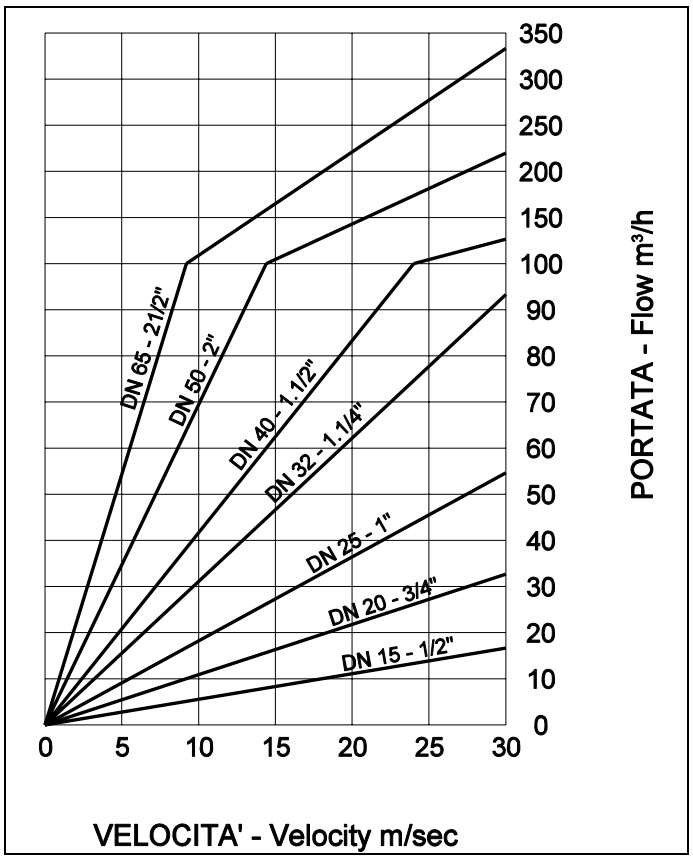
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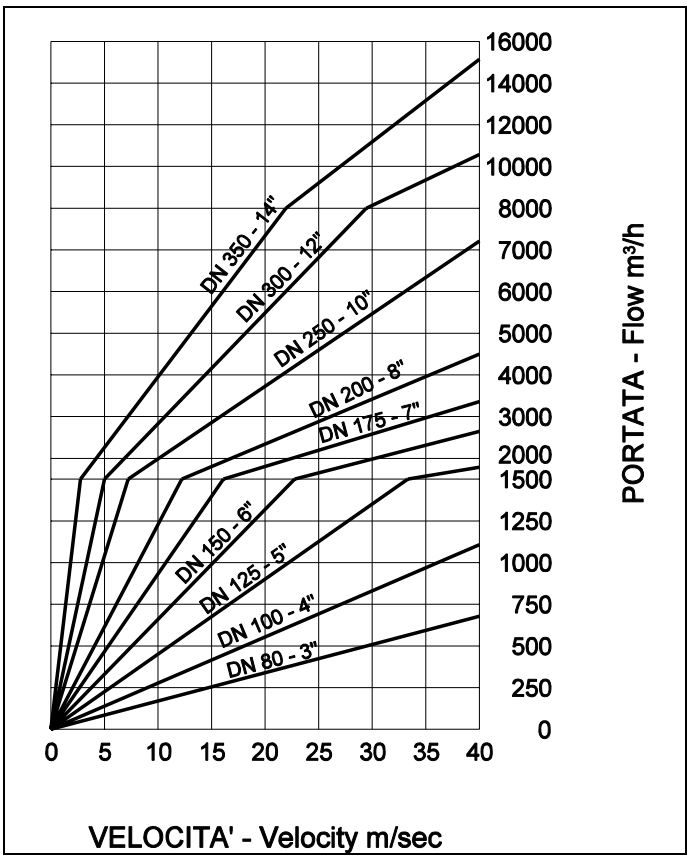
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www.conflow.it

Steam Sizing

Knowing the flowrate of the steam it is easy to choose the condensate separator by means of the diagram reported here to the left, so that the vapor velocity does not exceed 30 - 35 m / sec. If the flowrate is expressed in Kg / h, it must be revert in m3 / h by multiplying by the specific volume of the vapor at the operating pressure.
In any case the diameter of the separator must never be less than the diameter of the pipe.





Compressed Air Sizing

To size a separator for compressed air (suitable example at a flow rate of 150 Nm3 / h at 7 bar), calculate first the flowrate in actual m3 / h, dividing by the absolute pressure (7 + 1 = 8 bar absolute)

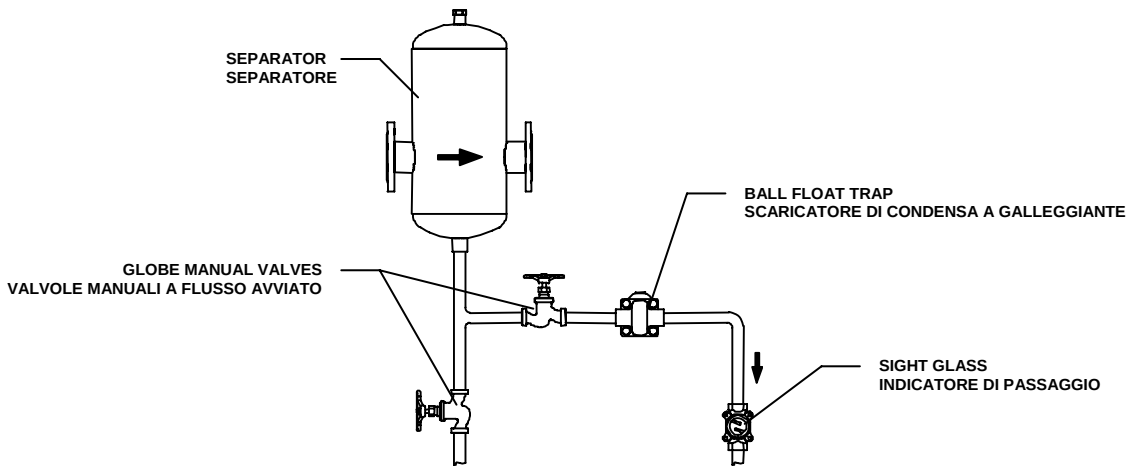
150 : 8 = 18.75 m3/h

From the table below,as for the example above, did you will choose the size DN 25.

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Max Flow m3/h	10	15	25	45	65	100	150	250	400	600	900	1700	2700

Application sketch

Condensate separator must be installed in vertical position with the arrow, printed on it's body, in the same direction of the pipe fluid and the condensate exhaust in the lower part. Connect accessories at the condensate exhaust as shown in the sketch.



I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**

CONDENSATE – RETURN UNIT

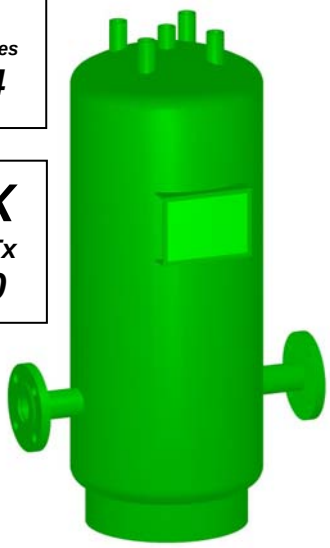
GREEN line

SCVPC/E	
11	2017

PED
Various modules
CE 1214

ATEX
II 2 G/D cTx
CE 1370

Devices connections



IN Condensate

OUT
Displaced condensate

Type SCV100PC
Type SCV125PC
Type SCV250PC

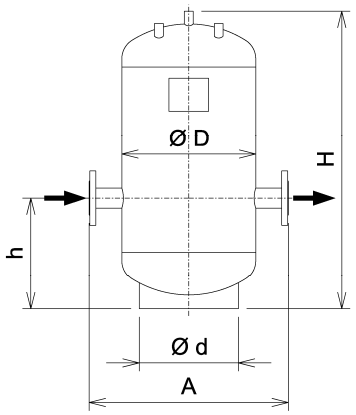
DESCRIPTION

The SCV…PC system uses the steam pressure or, alternatively, the compressed air pressure to send the condensation until the accumulation point.
Condensation builds up in the vessel and when it reaches the determined maximum level, the probe controls the closing of the vent valve, simultaneously it takes place the opening of the steam or compressed air valve that pushes out the accumulated condensate in the vessel.
As soon as the condensate level reaches the predetermined minimum level, the probe controls the closing of the steam inlet valve (or the compressed air) and opens the vent valve.
This cycle repeats itself automatically.
The system is designed and built according to PED 2014/68 / EU with design code EN 13445 part 3.

Conformity PED 2014/68/UE

TYPE	Flanged conn. EN 1092-1	Design pressure bar	Design Temp. °C	Category	Flow rate Kg/h	Weight Kg
SCV100PC	DN 40 PN 16	12	191.7	II°	2.000	75
SCV125PC	DN 50 PN 40	20	215	IV°	5.000	130
SCV250PC	DN 80 PN 40				10.000	380

Materials	Carbon Steel – Painted RAL 6011
Accessories necessary for operation	N° 2 Disc check valves Type RPX 40 – RPX40K N° 1 Charge solenoyd Valve NC (compressed air or steam version) N° 1 Breather solenoyd Valve NA (compressed air or steam version) N° 1 St.St. gauge with st. st. siphon and carbon steel cock. N° 1 Minimum level control electrode N° 1 Maximum level control electrode N° 1 Electric automation panel



tolerances according to TEMA section 2

Dimensions mm		Type and Weight
A	490	**SCV100PC** Weight 90 Kg
IN - OUT	DN 40	
PN	16	
Ø D	324	
Ø d	273	
h	248	
H	797	
A	590	**SCV125PC** Weight 140 Kg
IN - OUT	DN 50	
PN	40	
Ø D	406	
Ø d	324	
h	303	
H	982	
A	860	**SCV250PC** Weight 390 Kg
IN - OUT	DN 80	
PN	40	
Ø D	609	
Ø d	508	
h	475	
H	1628	

On request we make “skid” integrated solution.
The skid “assembley” are certified with Declaration of Conformty CE PED 2014/68/UE.



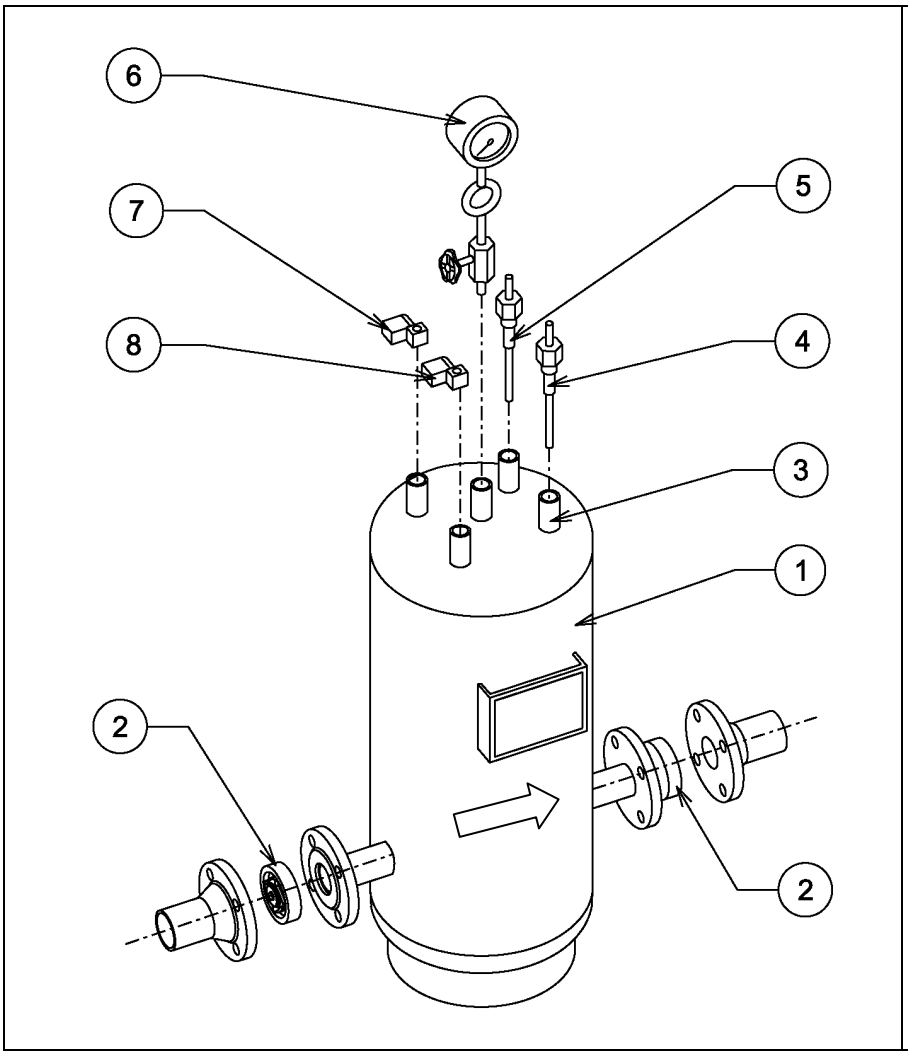
Each tank is equipped with n° 5 connections ∅ ½” Rp ISO7 - BSP on the upper side.

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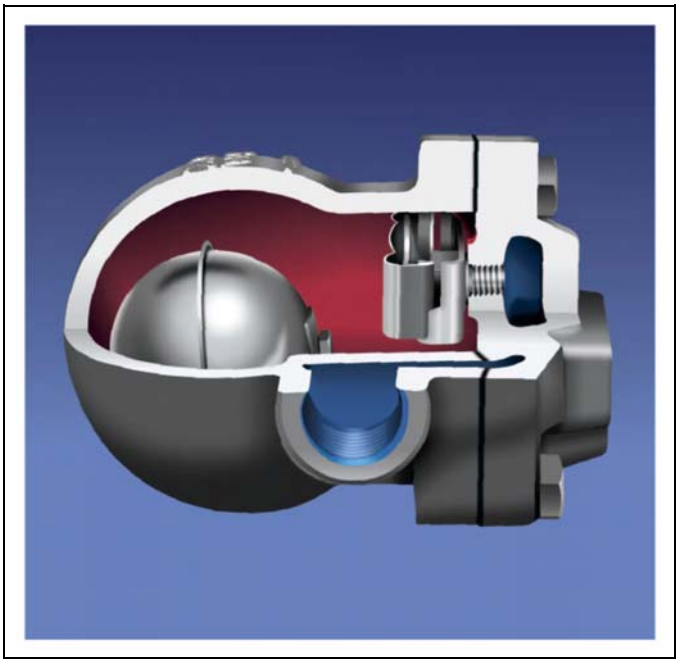
CONNECTIONS





Reference	Description			
1	Tank	**SCV100PC**	**SCV125PC**	**SCV150PC**
2	N° 2 Disc check valves	RPX40 DN40 PN 40	RPX40 DN 50 PN 40	RPX 40K DN 80 PN 40
3	N°5 fittings	Ø1/2" Rp ISO 7 - BSP		
4	N° 1 Minimum level control electrode	Lenght 440 mm	Lenght 560 mm	Lenght 560 mm
5	N° 1 Maximum level control electrode	Lenght 130 mm	Lenght 150 mm	Lenght 190 mm
6	N° 1 gauge with siphon and cock	Ø1/2" Rp ISO 7 - BSP		
7	N° 1 Charge solenoid Valve NC	Ø 3/8" Rp ISO 7 – BSP 24 VAC		
	N° 1 Charge solenoid Valve NC compressed air	Ø 1/4" Rp ISO 7 – BSP 24 VAC		
8	N° 1 Steam breather solenoid Valve NC	Ø1/2" Rp ISO 7 – BSP 24 VAC		
	N° 1 Compressed air breather solenoid Valve NC	Ø1/2" Rp ISO 7 – BSP 24 VAC		
9	Electric automation panel	IP54 dimensions 300x250x150 mm Supply 230 VAC – auxiliary voltage 24V AC With internal relay		

Specifications given are only indicative and not binding for the manifacturer who reserve the right to carry-out any modifications deemed necessary without prior notice. **All data sheets by CONFLOW SpA, are available last update on our internet web site www.conflow.it.**



TIPO / TYPE

GTS – FILETTATO / SCREWED

GTF – FLANGIATO / FLANGED

DESCRIZIONE

Il GTS e il GTF sono scaricatori di condensa a galleggiante con corpo in ghisa sferoidale GGG 40.3 e dispositivo automatico di sfiato aria incorporato (eliminatore d'aria). Disponibile nei diametri :

Ø 1/2" - Ø 3/4" – Ø 1"
DN 15 – DN 20 – DN 25

DESCRIPTION

GTS and GTF are SG iron GGG 40.3 ball float traps with integral automatic air venting facility.
Allowable in the following sizes :

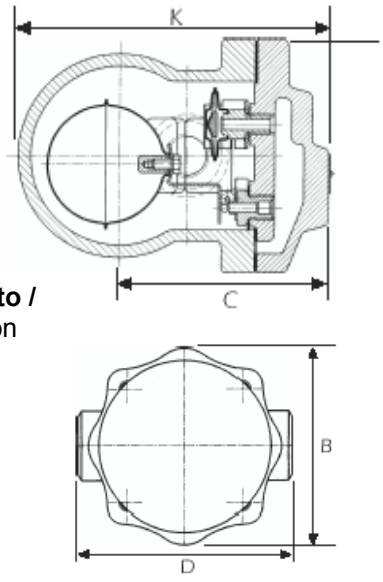
Ø 1/2" - Ø 3/4" – Ø 1"
DN 15 – DN 20 – DN 25

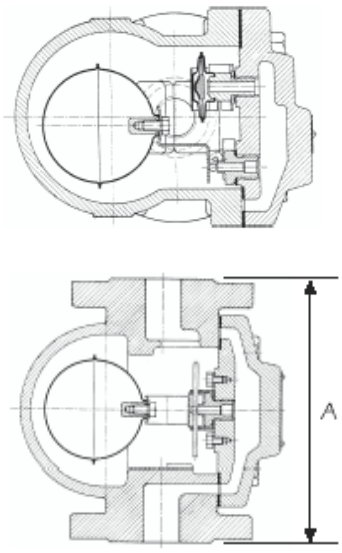
DIAMETRI NOMINALI / NOMINAL SIZES	**Ø 1/2 " - DN 15**	**Ø 3/4" - DN 20**	**Ø 1" - DN 25**
ATTACCHI CORPO / BODY CONNECTIONS	**Filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)		
	Flangiati DIN 2533 PN 16 / DIN 2533 Flanged PN 16		
MATERIALE GRUPPO CORPO / BODY MATERIAL	**GHISA SFEROIDALE GGG40.3 /** SG IRON GGG40.3		
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304		
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	(Limite Flange)	**16 bar**	(Connections limit)
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**250 °C**		
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESSURE (PMA)	**25 bar**		
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**300 °C**		
MAX PRESS. DIFFERENZIALE (PMD) / MAX DIFFERENTIAL PRESS.(PMD)	**4,5 bar**	**10 bar**	**14 bar**

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	DN	A	K	B	C	D	**Peso**/Weight (Kg)	
							Screwed	**Flanged**
1/2"	15	150	150	108	68	122	3.2	4
3/4"	20	150	150	108	68	122	3.2	4.8
1"	25	160	167	108	107	145	4.7	7.1

GTS
Versione Filettato /
Screwed Version





GTF
Versione Flangiato /
Flanged Version

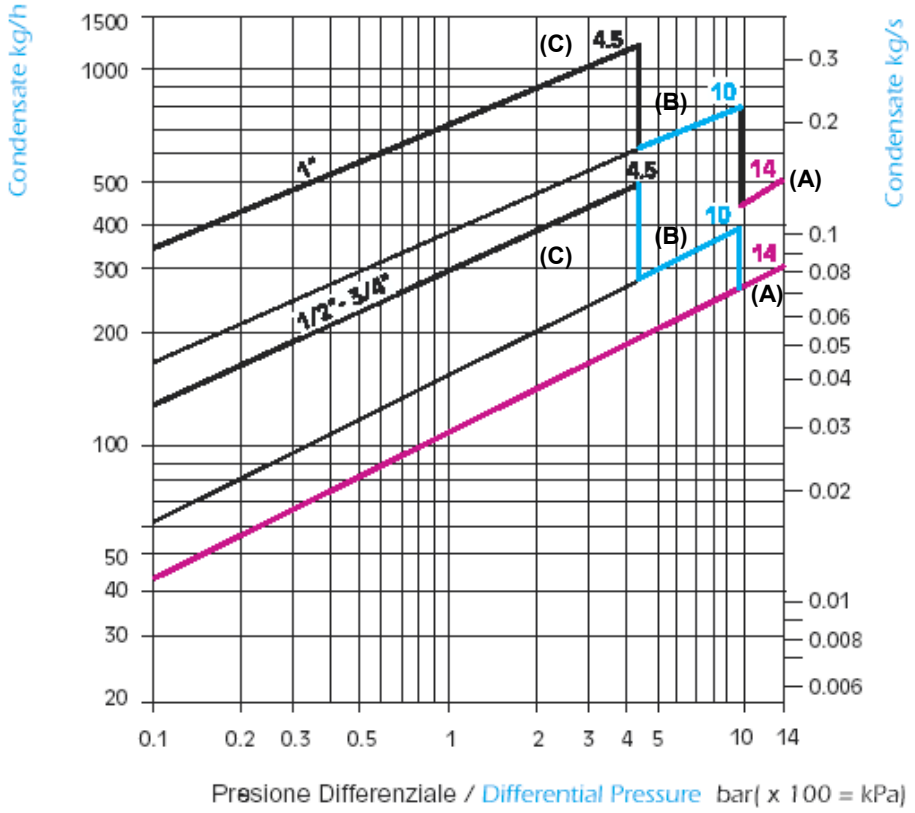
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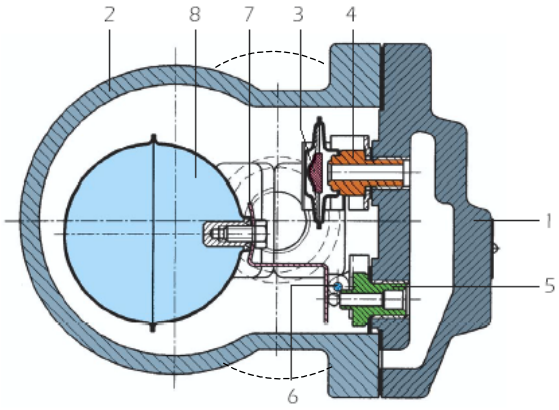
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GTS / GTF – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES

GRAFICO "A" "A" CHART **Δp Press. Differenziale** / Δp Diff. Press.	**GRAFICO "B"** "B" CHART **Δp Press. Differenziale** / Δp Diff. Press.	**GRAFICO "C"** "C" CHART **Δp Press. Differenziale** / Δp Diff. Press.
14	**10**	**4.5**





RICAMBI / SPARE PARTS		
1	CORPO / Body	GGG 40.3
2	COPERCHIO / Cover	GGG 40.3 or GSC25
3	CAPSULA TERMOSTATICA / Thermostatic Capsule	ACCIAIO INOX / Stainless Steel
4	ELIMINATORE D'ARIA / Air Vent Seat	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
5	SEDE / Float Seat	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
6	VALVOLA / Main Valve (ball)	ACCIAIO INOX / Stainless Steel
7	LEVA GALLEGGIANTE / Float Lever	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
8	GALLEGGIANTE / Float	ACCIAIO INOX AISI 316 / Stainless Steel AISI 316

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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TIPO / TYPE

GTSX – FILETTATO / SCREWED

GTFX – FLANGIATO / FLANGED

DESCRIZIONE

Il GTSX e il GTFX sono scaricatori di condensa a galleggiante con corpo in acciaio inox AISI 316 e dispositivo automatico di sfiato aria incorporato (eliminatore d'aria). Disponibile nei diametri :

Ø 1/2" - Ø 1"
DN 15 - DN 25

DESCRIPTION

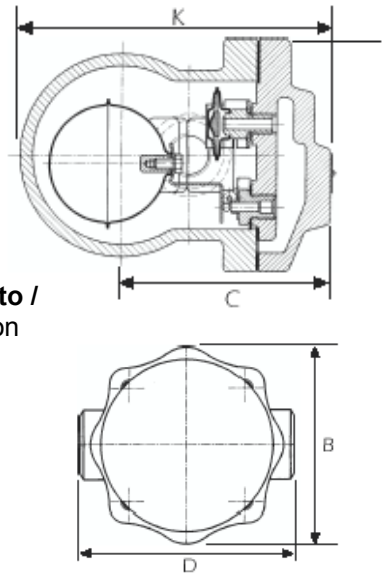
GTSX and GTFX are stainless steel AISI 316 ball float traps with integral automatic air venting facility.
Allowable in the following sizes :

Ø 1/2" - Ø 1"
DN 15 - DN 25

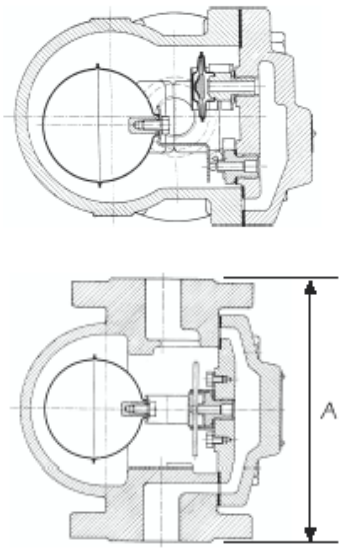
DIAMETRI NOMINALI / NOMINAL SIZES	**Ø 1/2 " - DN 15**		**Ø 1" - DN 25**
ATTACCHI CORPO / BODY CONNECTIONS	**Filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)		
	Flangiati DIN 2533 PN 16 / DIN 2533 Flanged PN 16		
MATERIALE GRUPPO CORPO / BODY MATERIAL	**ACCIAIO INOX AISI 316 /** STAINLESS STEEL AISI 316		
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX /** STAINLESS STEEL		
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	(Limite Flange)	**25 bar**	(Connections limit)
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**250 °C**		
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESSURE (PMA)	**25 bar**		
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**300 °C**		
MAX PRESS. DIFFERENZIALE (PMD) / MAX DIFFERENTIAL PRESS.(PMD)	**4,5 bar**	**10 bar**	**14 bar**

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	DN	A	K	B	C	D	**Peso**/Weight (Kg)	
							Screwed	**Flanged**
1/2"	15	150	150	108	68	122	4.1	5.5
1"	25	160	167	108	107	145	4.6	6.8



GTSX
Versione Filettato /
Screwed Version



GTFX
Versione Flangiato /
Flanged Version

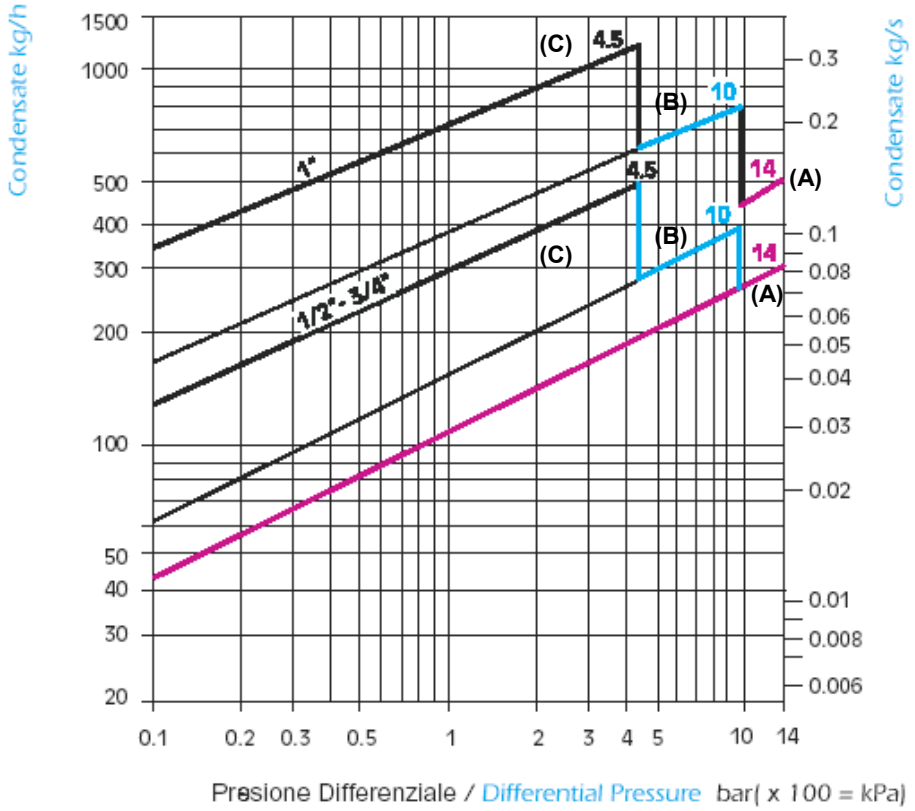
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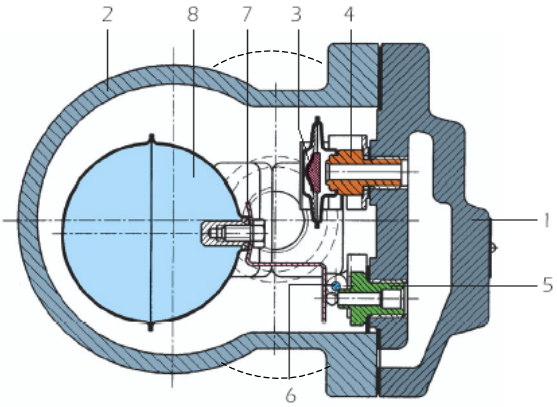
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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GTSX / GTFX – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES

GRAFICO "A" "A" CHART **Δp Press. Differenziale** / Δp Diff. Press.	**GRAFICO "B"** "B" CHART **Δp Press. Differenziale** / Δp Diff. Press.	**GRAFICO "C"** "C" CHART **Δp Press. Differenziale** / Δp Diff. Press.
14	**10**	**4.5**

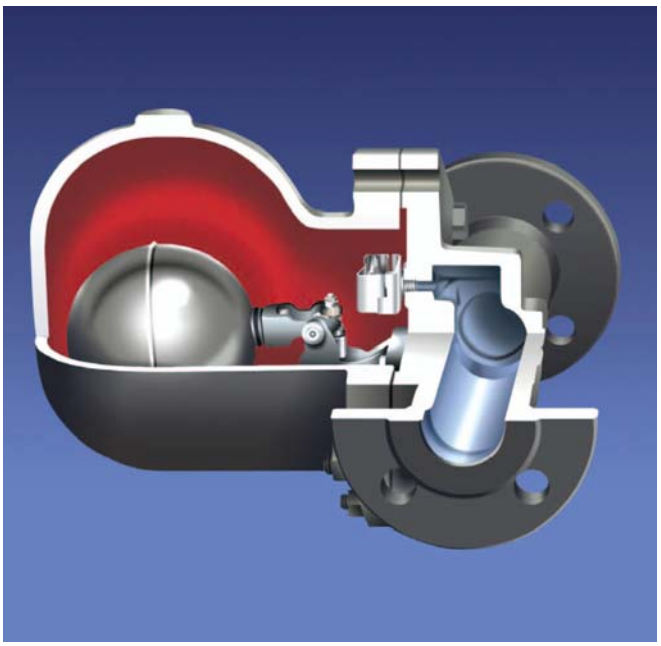




RICAMBI / SPARE PARTS		
1	CORPO / Body	ACCIAIO INOX AISI 316 / Stainless Steel AISI 316
2	COPERCHIO / Cover	ACCIAIO INOX AISI 316 / Stainless Steel AISI 316
3	CAPSULA TERMOSTATICA / Thermostatic Capsule	ACCIAIO INOX / Stainless Steel
4	ELIMINATORE D'ARIA / Air Vent Seat	ACCIAIO INOX / Stainless Steel
5	SEDE / Float Seat	ACCIAIO INOX / Stainless Steel
6	VALVOLA / Main Valve (ball)	ACCIAIO INOX / Stainless Steel
7	LEVA GALLEGGIANTE / Float Lever	ACCIAIO INOX / Stainless Steel
8	GALLEGGIANTE / Float	ACCIAIO INOX AISI 316 / Stainless Steel AISI 316

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TIPO / TYPE

GTSH – FILETTATO / SCREWED

GTFH – FLANGIATO / FLANGED

DESCRIZIONE

Il GTSH e il GTFH sono scaricatori di condensa a galleggiante ad alta capacità di scarico, con corpo in ghisa sferoidale GGG 40.3 e dispositivo automatico di sfiato aria incorporato (eliminatore d'aria). Sono disponibili nei seguenti diametri :

Ø 1" – Ø 1.1/2" – Ø 2"
DN 25 - DN 40 - DN 50

DESCRIPTION

GTSH and GTFH are SG iron GGG 40.3 ball float trap with high discharge capacity with integral automatic air venting facility. Allowable in the following sizes :

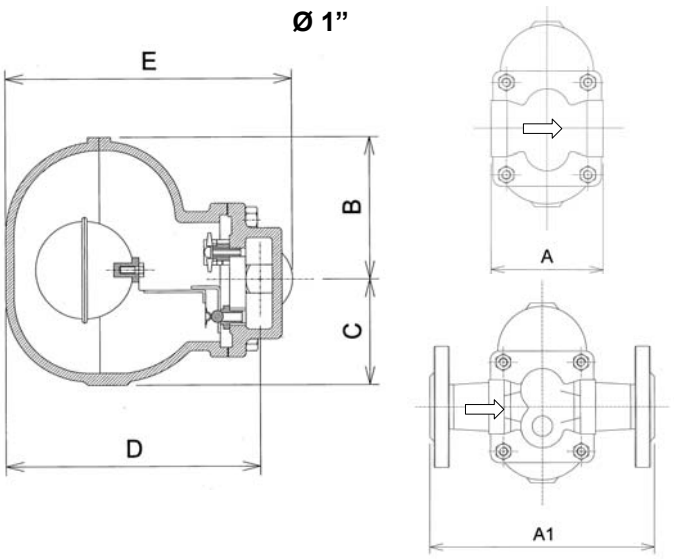
Ø 1" – Ø 1.1/2" – Ø 2"
DN 25 - DN 40 – DN 50

DIAMETRI NOMINALI / NOMINAL SIZES	**Ø 1" - DN 25**	**Ø 1.1/2" - DN 40**	**Ø 2" - DN 50**
ATTACCHI CORPO / BODY CONNECTIONS	**Filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)		
	Flangiati DIN 2533 PN 16 / DIN 2533 Flanged PN 16		
MATERIALE GRUPPO CORPO / BODY MATERIAL	**GHISA SFEROIDALE GGG40.3 /** SG IRON GGG40.3		
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304		
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	**(Limite Flange)**	**16 bar**	(Connections limit)
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**250 °C**		
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**25 bar**		
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**250 °C**		
MAX PRESS. DIFFERENZIALE (PMD) / MAX DIFFERENTIAL PRESS.(PMD)	**4,5 bar**	**10 bar**	**14 bar**

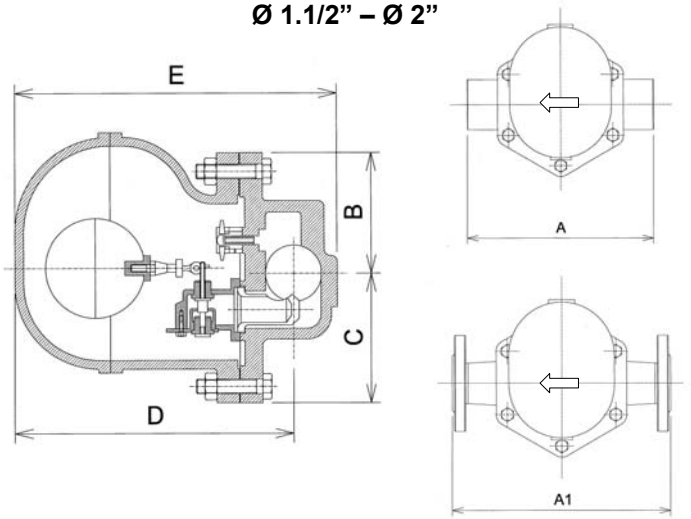
DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	DN	A	A1	B Screwed	B Flanged	C Screwed	C Flanged	D Screwed	D Flanged	E	Peso/Weight (Kg) Screwed	Flanged
1"	25	120	210	116.5	116.5	78.5	78.5	203	208	234.5	6.8	8.3
1.1/2"	40	270	320	130	130	108	108	238	242	270	17.6	21.8
2"	50	300	320	130	138	125	122	250	250	270	22	33

Ø 1"



Ø 1.1/2" – Ø 2"



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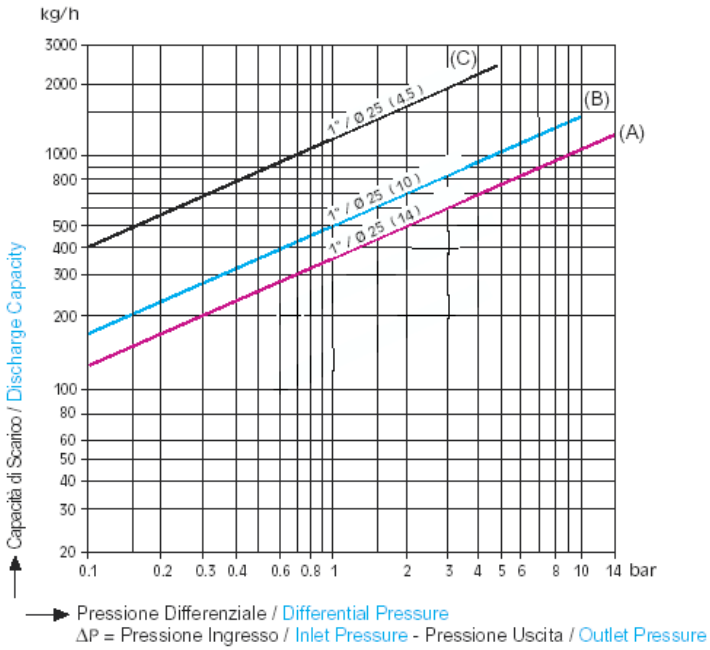
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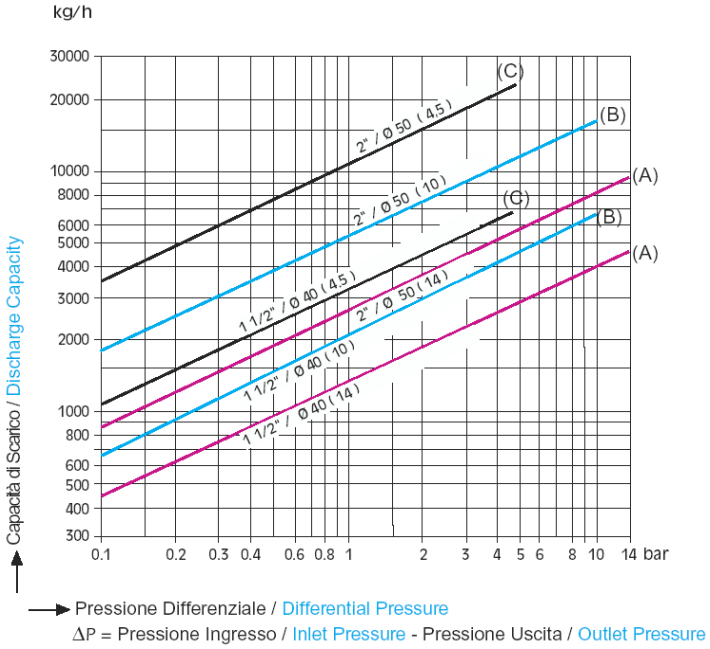
GTFH – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES

GRAFICO "A" "A" CHART **Δp Press. Differenziale** / Δp Diff. Press.	**GRAFICO "B"** "B" CHART **Δp Press. Differenziale** / Δp Diff. Press.	**GRAFICO "C"** "C" CHART **Δp Press. Differenziale** / Δp Diff. Press.
14	**10**	**4.5**

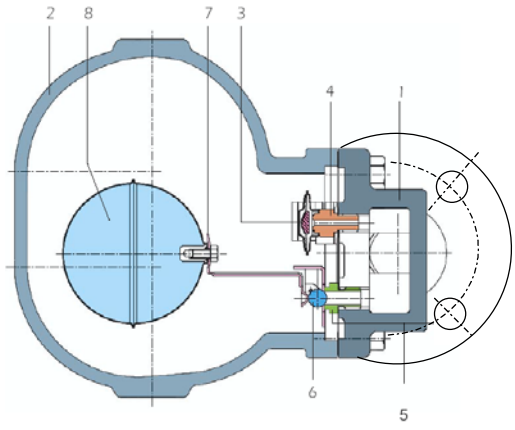
Ø 1"



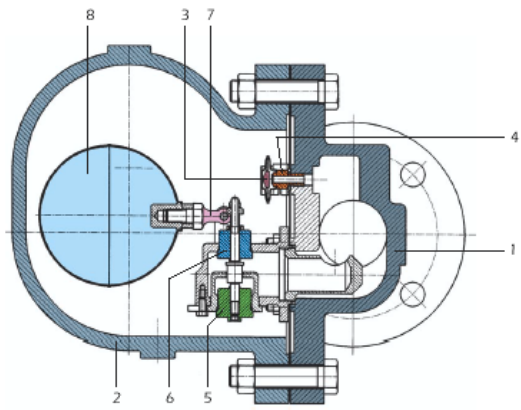
Ø 1.1/2" – Ø 2"



Ø 1"



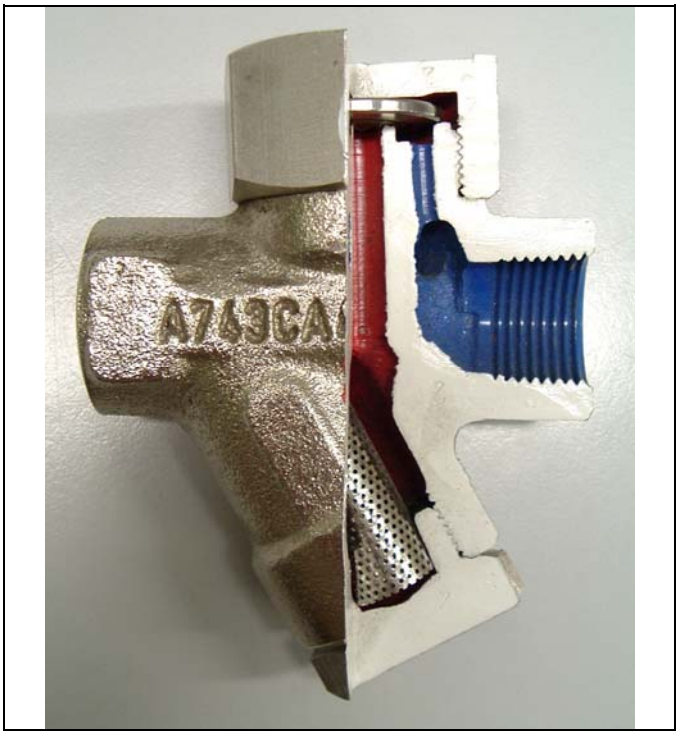
Ø 1.1/2" – Ø 2"



RICAMBI / SPARE PARTS		
1	CORPO / Body	GGG 40.3
2	COPERCHIO / Cover	GGG 40.3 or GSC-25
3	CAPSULA TERMOSTATICA / Thermostatic Capsule	ACCIAIO INOX / Stainless Steel
4	ELIMINATORE D'ARIA / Air Vent Seat	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
5	SEDE / Float Seat	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
6	VALVOLA / Main Valve (ball)	ACCIAIO INOX / Stainless Steel
7	LEVA GALLEGGIANTE / Float Lever	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
8	GALLEGGIANTE / Float	ACCIAIO INOX AISI 316 / Stainless Steel AISI 316

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TIPO / TYPE

TDK 42

DESCRIZIONE

Il TDK 42 è uno scaricatore di condensa termodinamico, manutenzionabile, interamente in acciaio inossidabile CON SEDE INTEGRALE e con filtro a Y estraibile. E' stato progettato per avere bassa capacità di scarico per il drenaggio delle linee principali o alta capacità di scarico per i fluidi di processo. E' disponibile nei seguenti diametri:

Ø 1/2" – Ø 3/4" – Ø 1"

DESCRIPTION

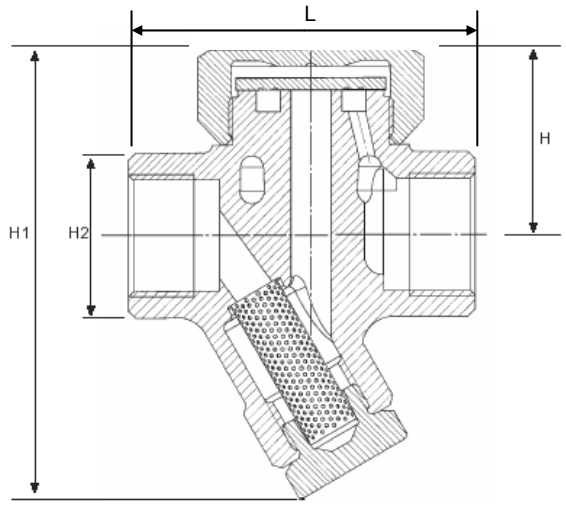
The TDK42 is a maintainable thermodynamic steam trap made of stainless steel WITH INTEGRAL SEAT and with removing Y strainer. It is specifically designed for relatively small condensate loads and therefore is ideal for mains drainage applications. Is allowable in the following sizes:

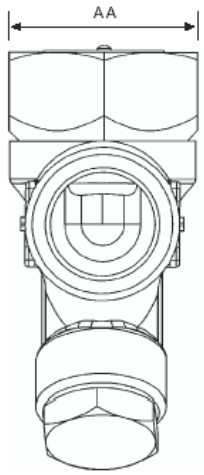
Ø 1/2" – Ø 3/4" – Ø 1"

DIAMETRI NOMINALI / NOMINAL SIZES	**Ø 1/2"**	**Ø 3/4"**	**Ø 1"**
ATTACCHI CORPO / BODY CONNECTIONS	**filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)		
MATERIALE GRUPPO CORPO / BODY MATERIAL	**ACCIAIO INOX ASTM A743** / ST.STEEL ASTM A743		
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304		
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	**42 bar**		
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**400 °C**		
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**65 bar**		
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**400 °C**		
MAX PRESSIONE A VALLE / MAX BACK PRESSURE	**80% DELLA PRESS. A MONTE /** 80% OF INLET PRESS.		

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	L	H	H1	H2	AA	**Peso**/Weight (Kg)
1/2"	78	41	95	33	41	0.94
3/4"	90	43	110	39	41	1.1
1"	95	52	124	45	55	1.6



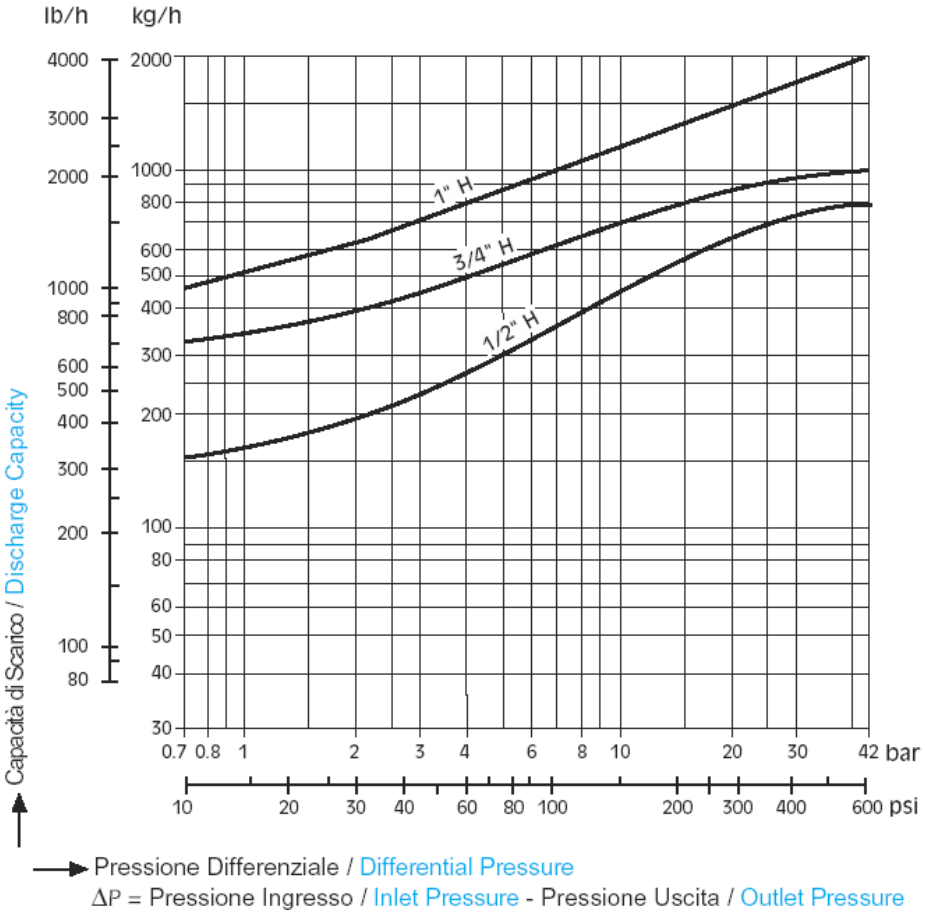


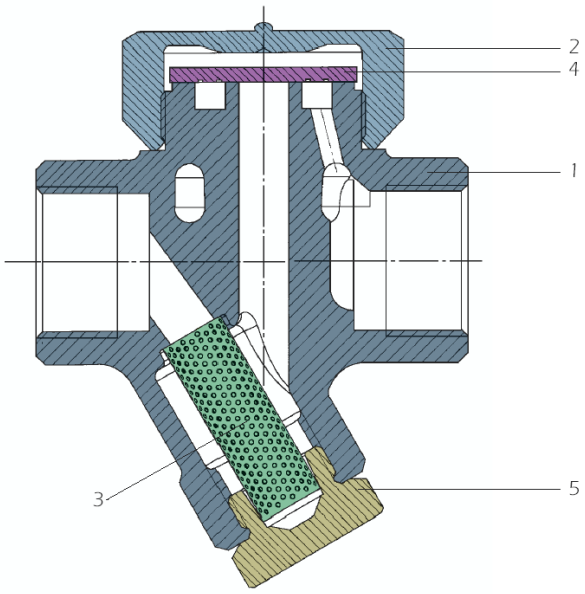
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TDK 42 – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES

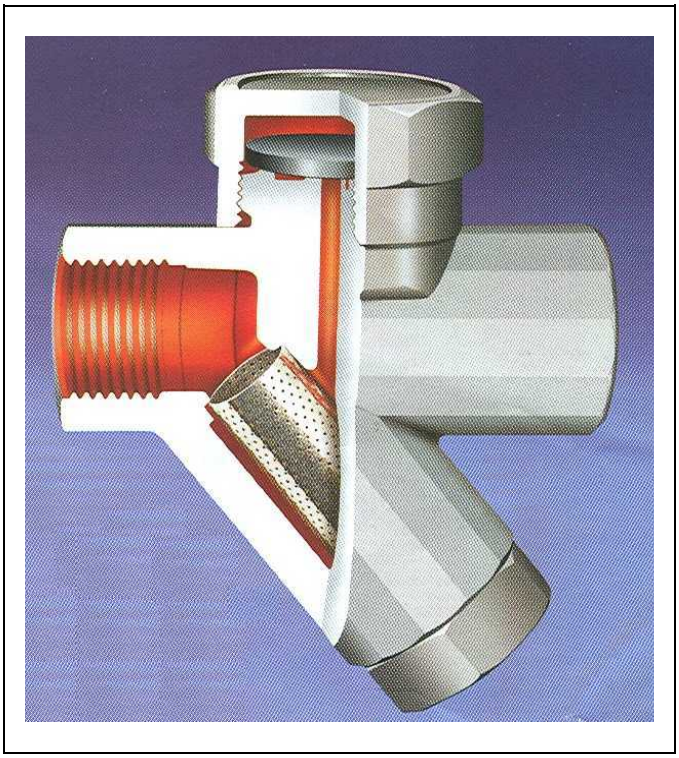




RICAMBI / SPARE PARTS		
1	CORPO / Body	ACCIAIO INOX / Stainless Steel ASTM A743 Gr.CA40F
2	COPERCHIO / Cover	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
3	FILTRO / Strainer Screen	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
4	DISCO / Disc	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
5	VITE DI SCARICO / Discharge Screw	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304

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TIPO / TYPE

TDK PS (LOW COST)

DESCRIZIONE

Il TDK PS è uno scaricatore di condensa termodinamico, manutenzionabile versione LOW COST, interamente in acciaio inossidabile da barra CON SEDE INTEGRALE e con filtro a Y estraibile. E' stato progettato per avere bassa capacità di scarico per il drenaggio delle linee principali o alta capacità di scarico per i fluidi di processo. E' disponibile nei seguenti diametri:

Ø 1/2" – Ø 3/4" – Ø 1"

DESCRIPTION

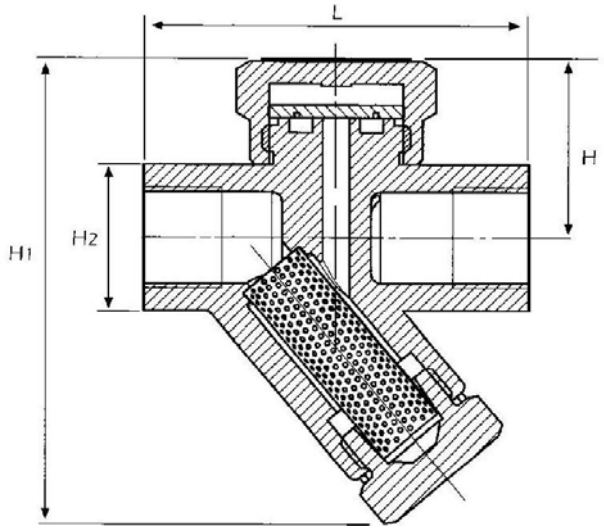
The TDK PS is a maintainable thermodynamic steam trap LOW COST made by stainless steel rod WITH INTEGRAL SEAT and with removing Y strainer. It is specifically designed for relatively small condensate loads and therefore is ideal for mains drainage applications. Is allowable in the following sizes:

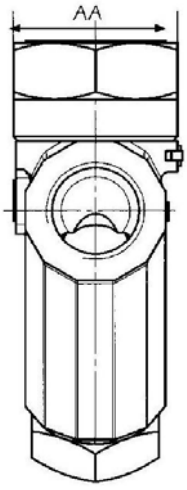
Ø 1/2" – Ø 3/4" – Ø 1"

DIAMETRI NOMINALI / NOMINAL SIZES	**Ø 1/2"**	**Ø 3/4"**	**Ø 1"**
ATTACCHI CORPO / BODY CONNECTIONS	**filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)		
MATERIALE GRUPPO CORPO / BODY MATERIAL	**ACCIAIO INOX ASTM A743 /** ST.STEEL ASTM A743		
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304		
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	**42 bar**		
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**400 °C**		
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**65 bar**		
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**400 °C**		
MAX PRESSIONE A VALLE / MAX BACK PRESSURE	**80% DELLA PRESS. A MONTE /** 80% OF INLET PRESS.		

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	L	H	H1	H2	AA	**Peso**/Weight (Kg)
1/2"	78	36,5	94	30	35	0.94
3/4"	90	43	103	36,5	40	1.1
1"	95	51	115,5	43	45	1.6



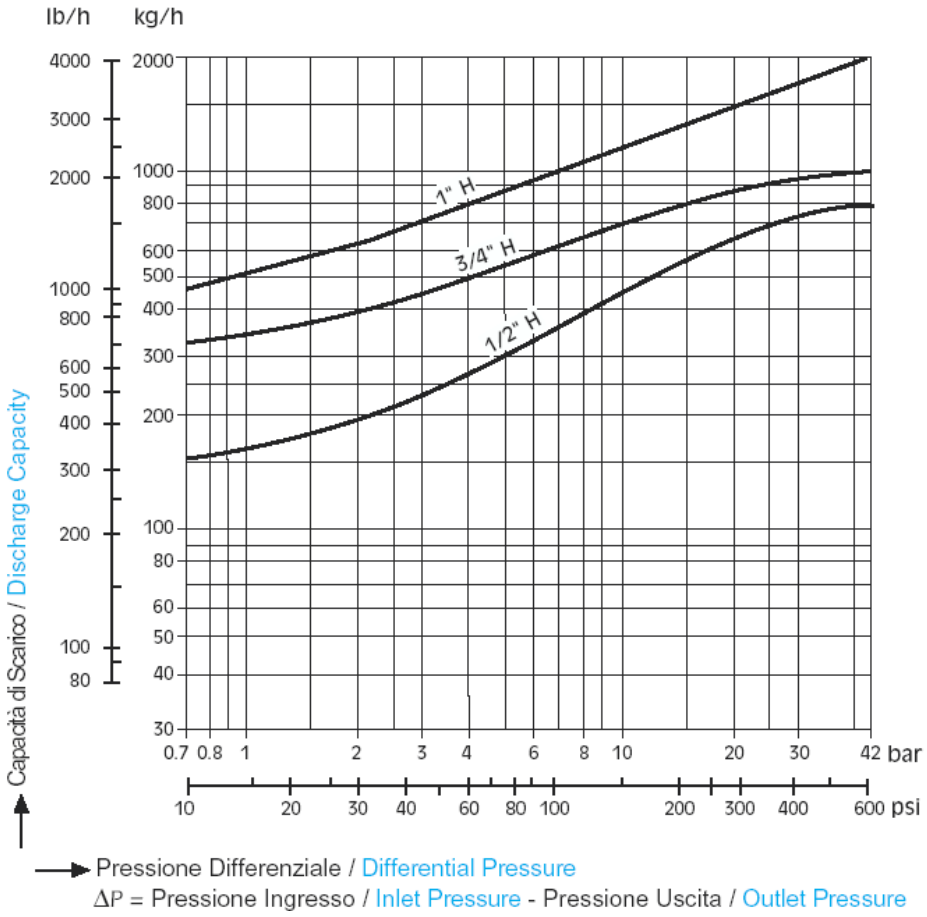


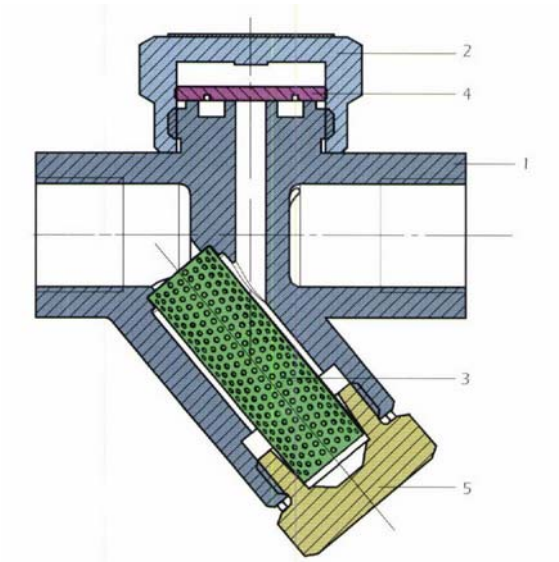
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TDK PS – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES





RICAMBI / SPARE PARTS		
1	CORPO / Body	ACCIAIO INOX / Stainless Steel ASTM A743 Gr.CA40F
2	COPERCHIO / Cover	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
3	FILTRO / Strainer Screen	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
4	DISCO / Disc	ACCIAIO INOX AISI 304 / Stainless Steel AISI 420
5	VITE DI SCARICO / Discharge Screw	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304

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TIPO / TYPE

STK 42

DESCRIZIONE

Lo scaricatore di condensa STK42 è del tipo termostatico ad azione bilanciata, manutenzionabile, costruito completamente in acciaio inox AISI 304 e progettato per uso con vapore pulito. Il normale scarico di condensa con capsula standard "S", avviene ad una temperatura leggermente inferiore a quella del vapore saturo (max. 10°C). Capsula "H" (max. 5°C) a richiesta.
E' disponibile nei seguenti diametri :

Ø 1/2" standard , Ø 3/4" – Ø 1" a richiesta

DESCRIPTION

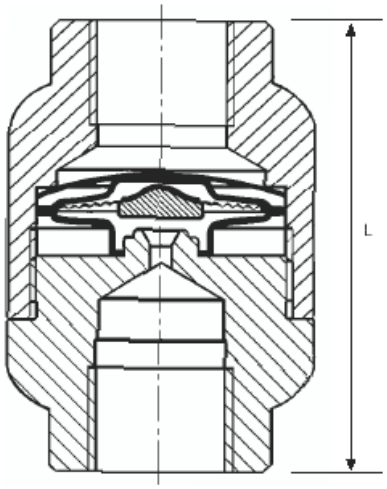
The STK42 thermostatic steam trap is with balanced action, mainteinable, made of stainless steel AISI 304 for clean steam use. The discharge with "S" capsule happens at a temperature below steam saturation temp. (max. 10°C). "H" capsule (max. 5°C) is on request. Allowable in the following sizes :

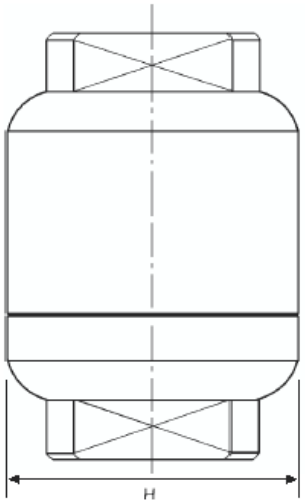
Ø 1/2" standard , Ø 3/4" – Ø 1" on request

DIAMETRI NOMINALI / NOMINAL SIZES	**Ø 1/2"**	**Ø 3/4"**	**Ø 1"**
ATTACCHI CORPO / BODY CONNECTIONS	**filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)		
MATERIALE GRUPPO CORPO / BODY MATERIAL	**ACCIAIO INOX AISI 304 /** ST.STEEL AISI 304		
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS ST. AISI 304		
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	**45 bar**		
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**240 °C**		
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**55 bar**		
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**400 °C**		
MAX PRESS. DIFFERENZIALE (PMD) / MAX DIFFERENTIAL PRESS. (PMD)	**21 bar**		

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	L	H	**Peso**/Weight (Kg)
1/2"	65	42	0.4
3/4"	65	42	0.4
1"	65	44	0.4





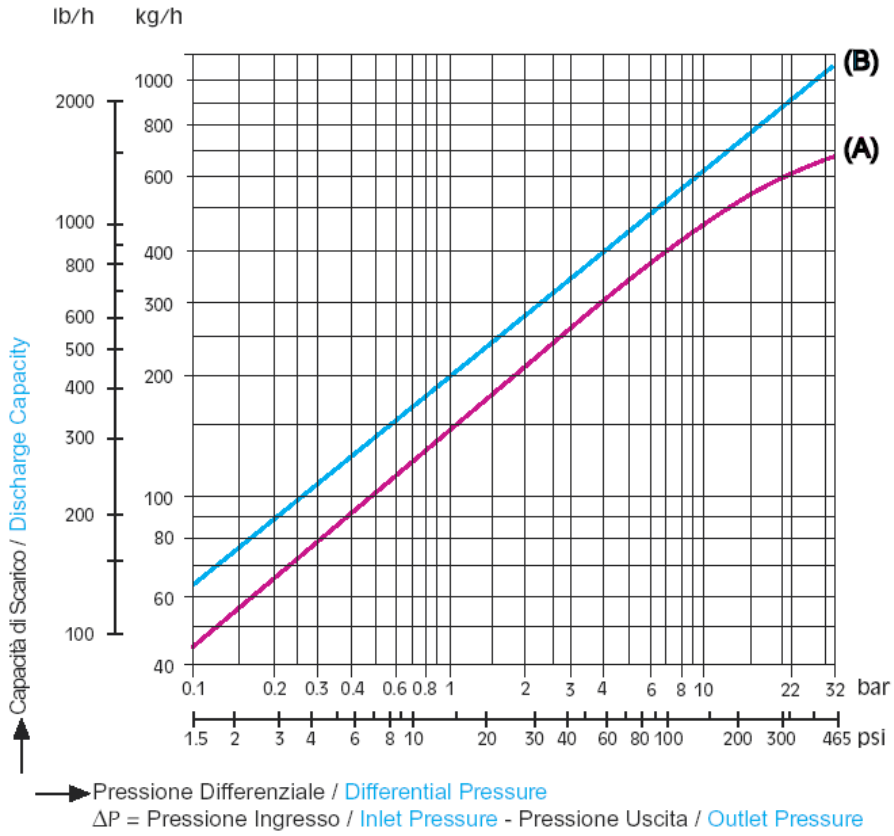
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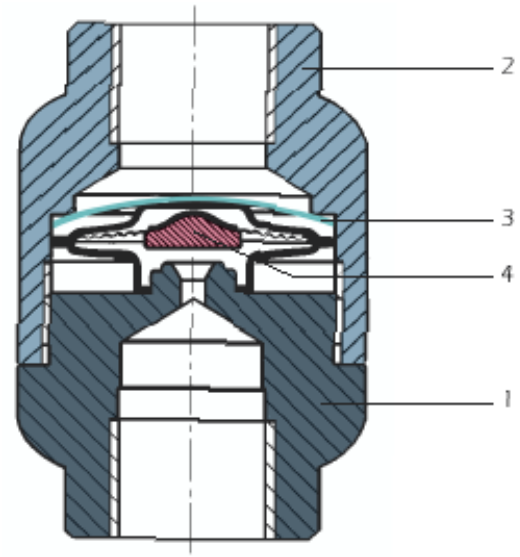
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Fax 039/654.018
www.conflow.it

STK 42 – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES

GRAFICO "A" "A" CHART **Temp. condensa max 10°C al di sotto della temp. del vapore saturo**/ Condensate temp. max 10°C below steam saturation temp.	**GRAFICO "B"** "B" CHART **Temperatura condensa 20 °C** Condensate Temperature 20 °C

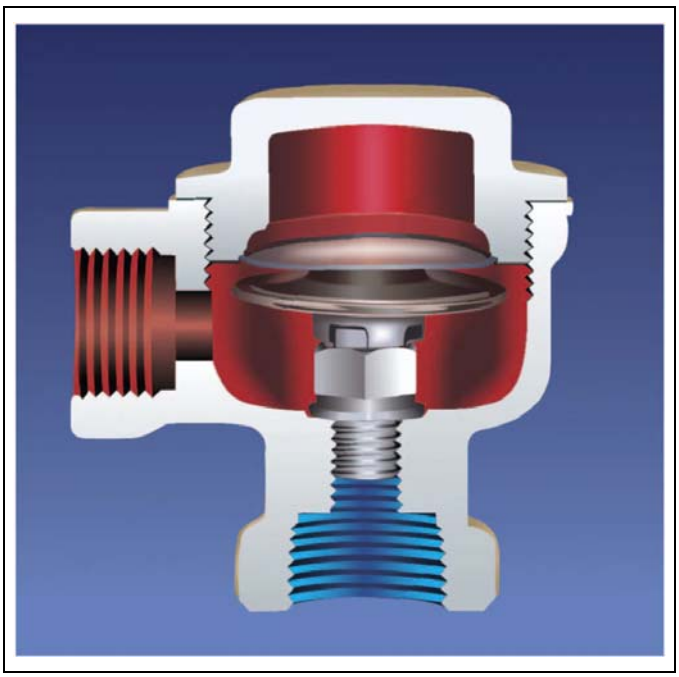




RICAMBI / SPARE PARTS		
1	CORPO / Body	ACCIAIO INOX / Stainless Steel AISI 304
2	COPERCHIO / Cover	ACCIAIO INOX / Stainless Steel AISI 304
3	FILTRO / Strainer	ACCIAIO INOX / Stainless Steel AISI 304
4	CAPSULA TERMOSTATICA / Thermostatic Capsule	ACCIAIO INOX / St. Steel Hastelloy and AISI 304

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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TIPO / TYPE

STK 11

DESCRIZIONE

Lo scaricatore di condensa STK 11 è del tipo termostatico a pressione bilanciata, manutenzionabile, con corpo in ottone e capsula "S" standard per scarico di condensa ad una temperatura leggermente inferiore a quella del vapore saturo (max. 10°C). Capsula "H" (max. 5°C) a richiesta.
E' disponibile nel diametro 1/2".

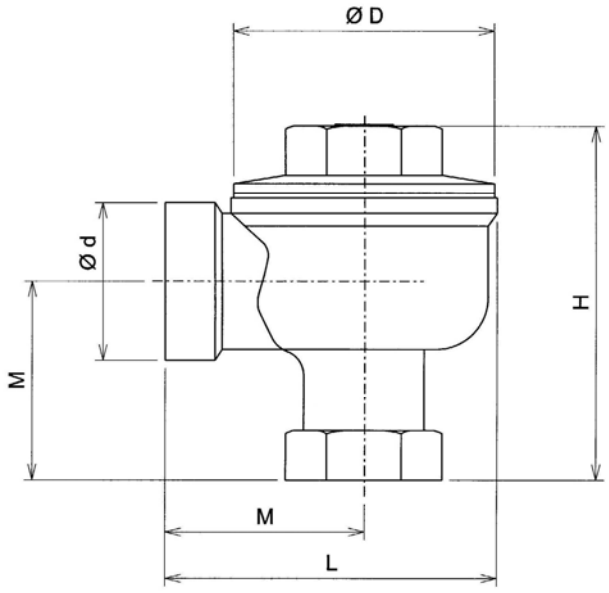
DESCRIPTION

The STK 11 thermostatic steam trap is with balanced pressure, mainteinable, with brass body and "S" standard capsule for a condensate discharge at a temperature below to steam saturation temp. (max 10°C). The "H" capsule (max. 5°C) is on request.
Allowable in Ø 1/2" size.

DIAMETRO NOMINALE / NOMINAL SIZE	**Ø 1/2"**
ATTACCHI CORPO / BODY CONNECTIONS	**filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)
MATERIALE CORPO E COPERCHIO / BODY MATERIAL AND COVER	**OTTONE Cu-Zn 44 Pb2 /** BRASS Cu-Zn 44 Pb2
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	**10 bar**
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**150 °C**
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**16 bar**
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**200 °C**
MAX PRESS. DIFFERENZIALE (PMD) / MAX DIFFERENTIAL PRESS. (PMD)	**7 bar**

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	L	H	M	ØD	Ød	**Peso**/Weight (Kg)
Ø 1/2"	63	66	37	50	30	0.4



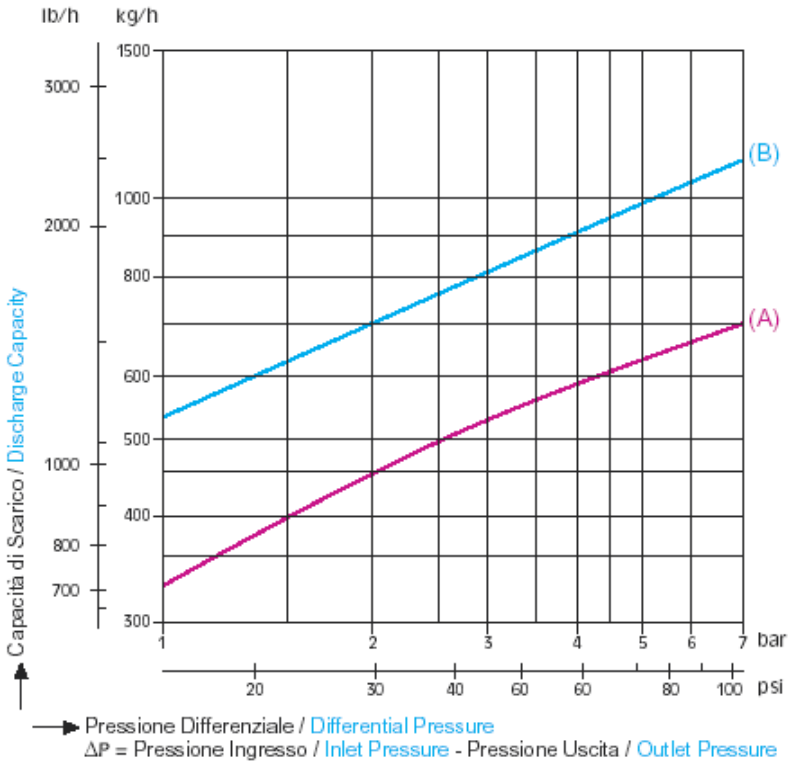
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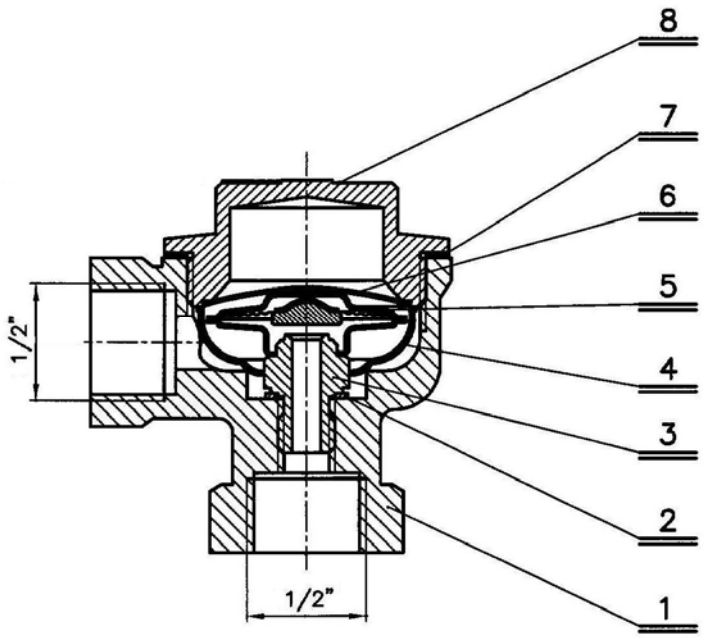
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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STK 11 – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES

GRAFICO "A" "A" CHART **Temp. condensa max 10°C al di sotto della temp. del vapore saturo**/ Condensate temp.max 10°C below steam saturation temp.	**GRAFICO "B"** "B" CHART **Temperatura condensa 20°C** Condensate temperatura 20°C

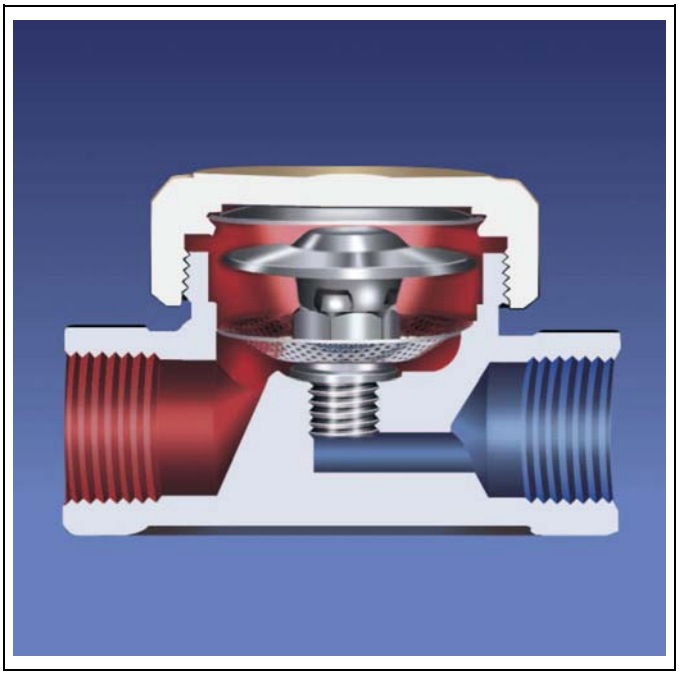




RICAMBI / SPARE PARTS		**MATERIALI** / MATERIALS
1	CORPO / Body	OTTONE / Brass Cu – Zn 44 Pb2 (Ms 56)
2	GUARNIZIONE SEDE / Seat gasket	ACCIAIO INOX – Stainless Steel AISI 304
3	SEDE / Seat	ACCIAIO INOX – Stainless Steel AISI 304
4	FILTRO / Strainer	ACCIAIO INOX – Stainless Steel AISI 304
5	CAPSULA TERMOSTATICA / Thermostatic capsule	ACCIAIO INOX / St. Steel Hastelloy and AISI 316 L
6	PIATTELLO / Pressing plate	ACCIAIO INOX – Stainless Steel AISI 304
7	GUARNIZIONE COPERCHIO / Cover gasket	KLINGERIT / Klingerit
8	COPERCHIO / Cover	OTTONE / Brass Cu – Zn 44 Pb2 (Ms 56)

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TIPO / TYPE

STK 61

DESCRIZIONE

Lo scaricatore di condensa STK 61 è del tipo termostatico a pressione bilanciata, manutenzionabile, con corpo in ottone e capsula "S" standard per scarico di condensa ad una temperatura leggermente inferiore a quella del vapore saturo (max. 10°C). Capsula "H" (max. 5°C) a richiesta.
E' disponibile nel diametro 1/2".

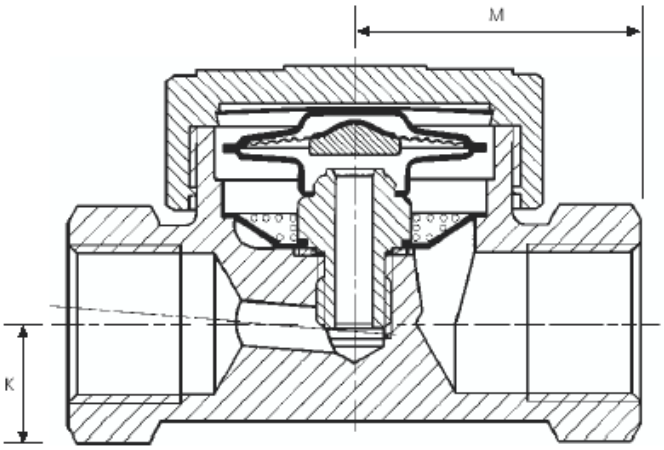
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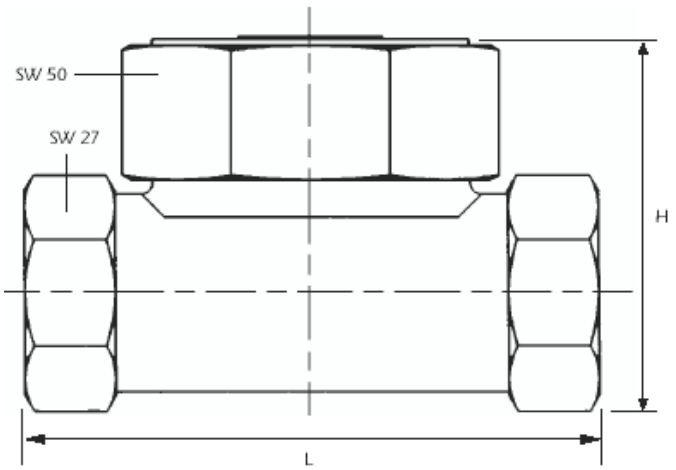
The STK 61 thermostatic steam trap is with balanced pressure, maintenable, with brass body and "S" standard capsule for a condensate discharge at a temperature below to steam saturation temp. (max 10°C). The "H" capsule (max. 5 °C) is on request.
Allowable in Ø 1/2" size.

DIAMETRO NOMINALE / NOMINAL SIZE	**Ø 1/2"**
ATTACCHI CORPO / BODY CONNECTIONS	**filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)
MATERIALE CORPO E COPERCHIO / BODY MATERIAL AND COVER	**OTTONE Cu-Zn 40 Pb2 /** BRASS Cu-Zn 40 Pb2
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	**10 bar**
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**150 °C**
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**16 bar**
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**200 °C**
MAX PRESS. DIFFERENZIALE (PMD) / MAX DIFFERENTIAL PRESS. (PMD)	**7 bar**

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	L	H	M	K	**Peso**/Weight (Kg)
Ø 1/2"	76	48	38	13	0.4





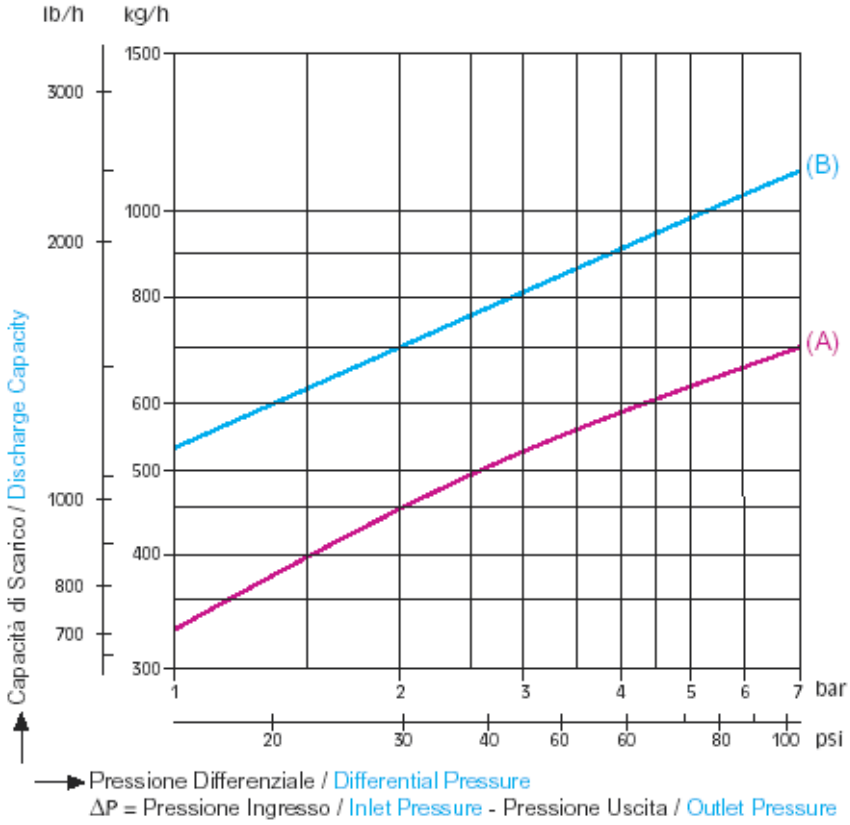
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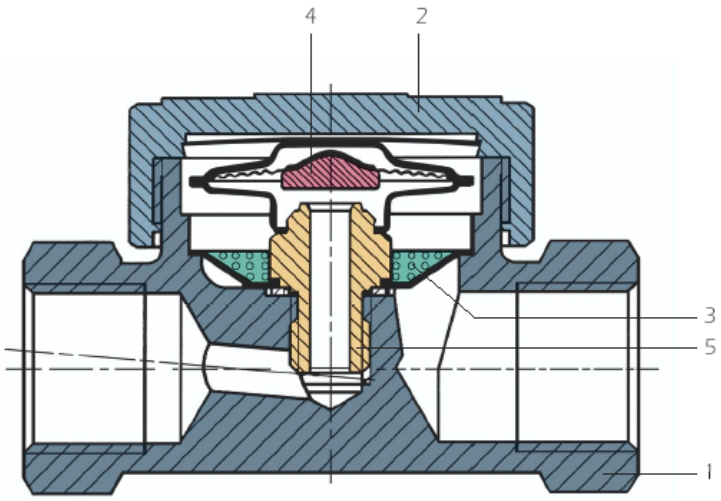
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Fax 039/654.018
www.conflow.it

STK 61 – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES

GRAFICO "A" "A" CHART **Temp. condensa max 10°C al di sotto della temp. del vapore saturo**/ Condensate temp.max 10°C below steam saturation temp.	**GRAFICO "B"** "B" CHART **Temperatura condensa 20°C** Condensate temperatura 20°C





RICAMBI / SPARE PARTS		
1	CORPO / Body	OTTONE / Brass Cu – Zn 40 Pb2
2	COPERCHIO / Cover	OTTONE / Brass Cu – Zn 40 Pb2
3	FILTRO / Strainer	ACCIAIO INOX / Stainless Steel AISI 304
4	CAPSULA TERMOSTATICA / Thermostatic Capsule	ACCIAIO INOX / St. Steel Hastelloy and AISI 316 L
5	SEDE / Seat	ACCIAIO INOX / Stainless Steel AISI 304

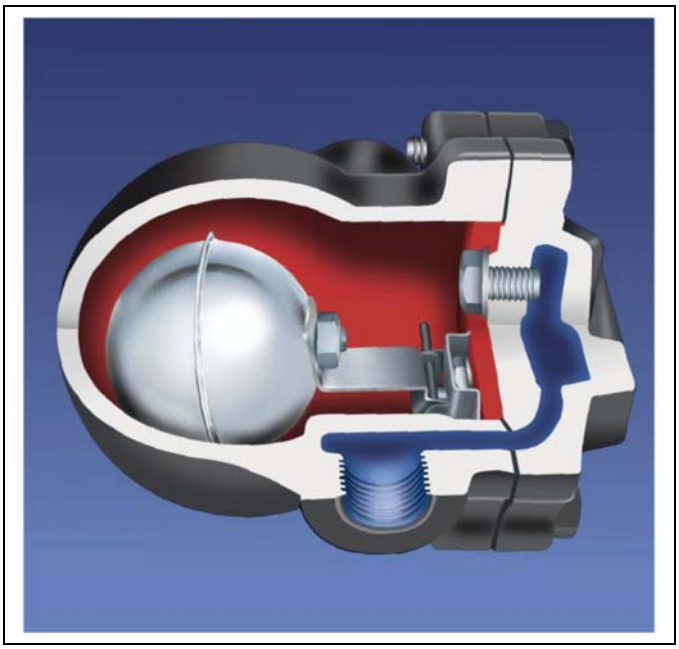
I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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SCARICATORI A GALLEGGIANTE PER ARIA COMPRESSA E GAS
AIR AND GAS FLOAT TRAPS

PED 2014/68/UE

SA14/I/E	
07	2016



TIPO / TYPE

SA14

DESCRIZIONE

Lo scaricatore per aria compressa e gas SA14 è del tipo manutenzionabile con corpo in ghisa sferoidale GGG40.3.

E' disponibile nel diametro 3/4".

DESCRIPTION

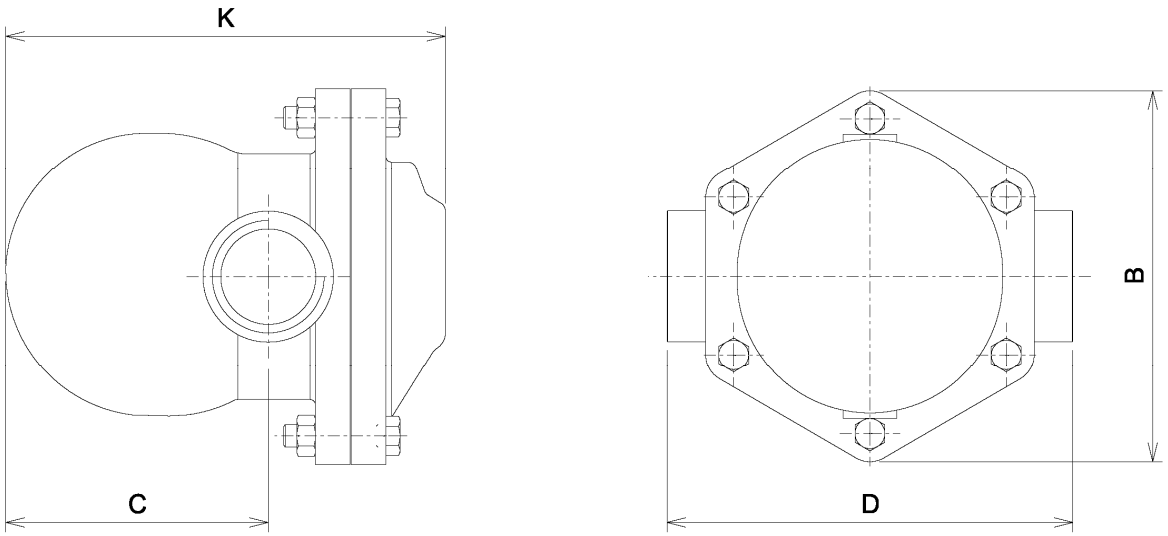
The EAL14 air and gas float eliminator is mainteinable, with spheroid cast iron GGG40.3 body.

Allowable in the Ø3/4" size.

DIAMETRO NOMINALE / NOMINAL SIZE	**3/4"**
ATTACCHI CORPO / BODY CONNECTIONS	**filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)
MATERIALE CORPO E COPERCHIO / BODY MATERIAL AND COVER	**GHISA SFEROIDALE GGG40.3 /** SG IRON GGG40.3
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	**16 bar**
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**150 °C**
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**25 bar**
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**200°C**
MAX PRESS. DIFFERENZIALE (PMD) / MAX DIFFERENTIAL PRESS. (PMD)	**14 bar**

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	A	K	C	D	**Peso**/Weight (Kg)
Ø3/4"	150	150	81.5	122	3.2

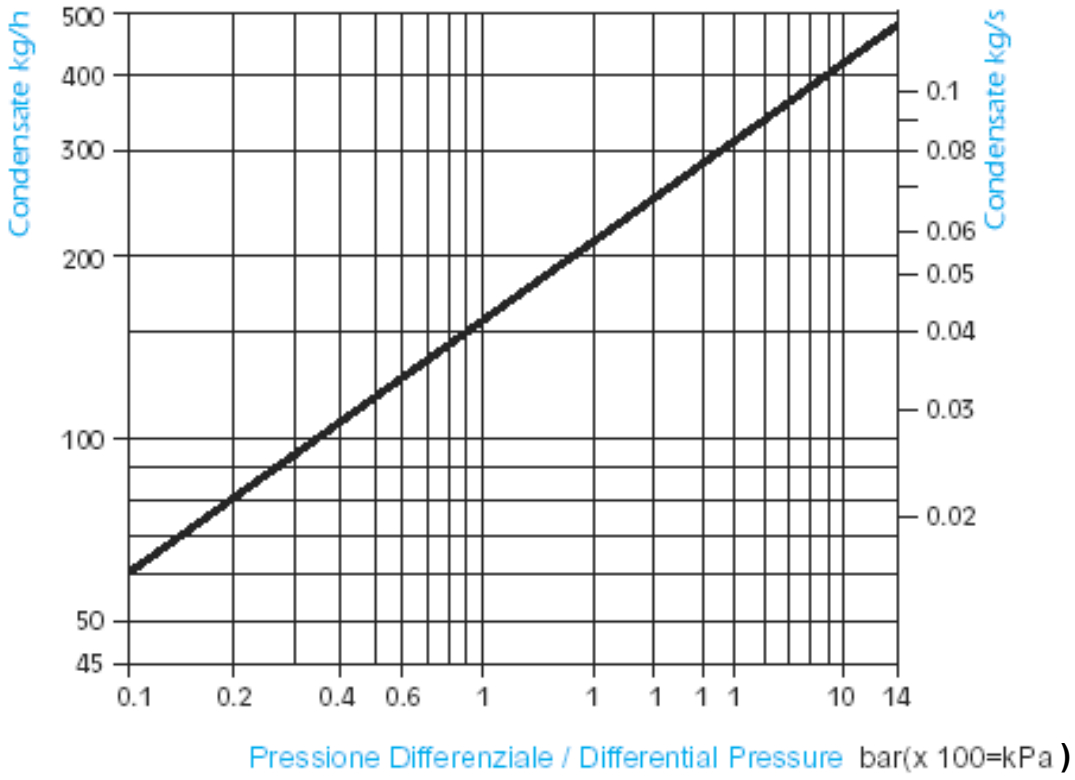


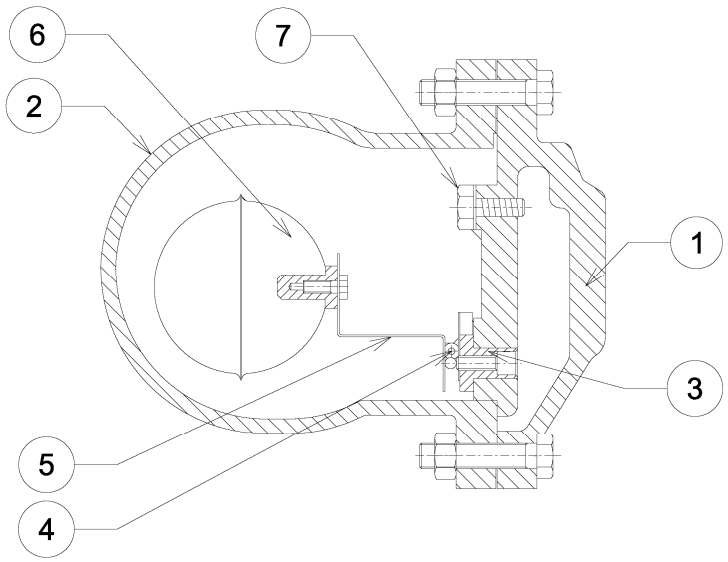
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SA14 – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES





RICAMBI / SPARE PARTS		
1	CORPO / Body	GGG 40.3
2	COPERCHIO / Cover	GGG 40.3
3	SEDE / Float Seat	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
4	VALVOLA / Main Valve (ball)	ACCIAIO INOX / Stainless Steel
5	LEVA GALLEGGIANTE / Float Lever	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
6	GALLEGGIANTE / Float	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
7	VITE / Screw	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304

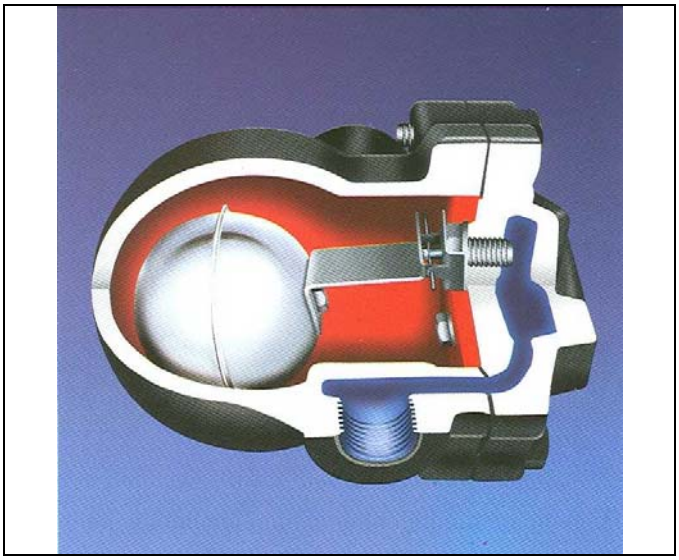
I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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ELIMINATORI D'ARIA PER LIQUIDI
LIQUID DRAINERS

PED 2014/68/UE

EAL14/I/E	
07	2016



TIPO / TYPE

EAL14

DESCRIZIONE

L'eliminatore d'aria per liquidi EAL14 è del tipo a galleggiante, manutenzionabile, con corpo in ghisa sferoidale GGG40.3
E' disponibile nel diametro 3/4".

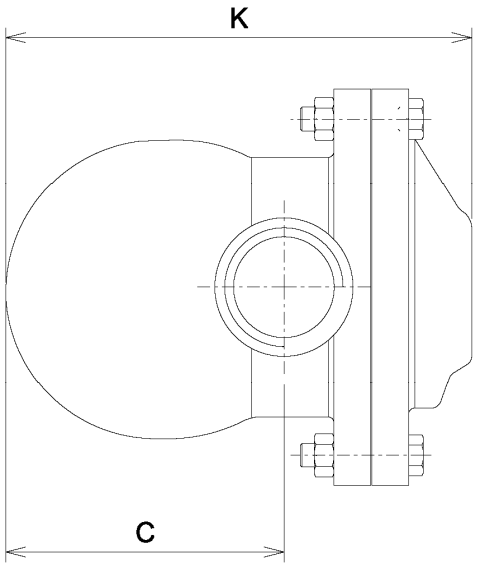
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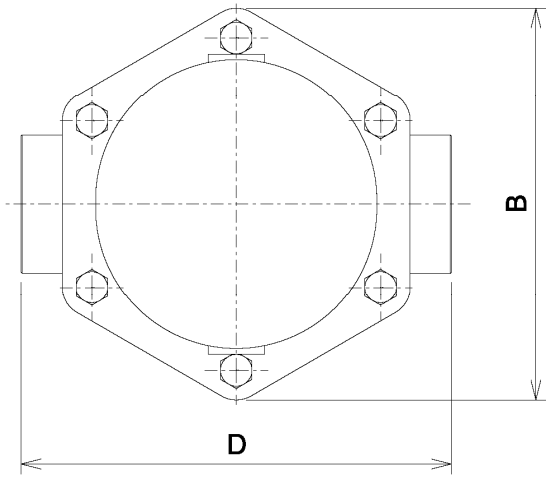
The EAL14 float liquid drainer is maintainable, with spheroid cast iron GGG40.3 body.
Allowable in the Ø 3/4" size.

DIAMETRO NOMINALE / NOMINAL SIZE	**3/4"**
ATTACCHI CORPO / BODY CONNECTIONS	**filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)
MATERIALE CORPO E COPERCHIO / BODY MATERIAL AND COVER	**GHISA SFEROIDALE GGG40.3 /** SG IRON GGG40.3
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304
MAX PRESSIONE OPERATIVA (PMO) / MAX OPERATING PRESSURE (PMO)	**16 bar**
MAX TEMP. OPERATIVA (TMO) / MAX OPERATING TEMP. (TMO)	**250 °C**
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**25 bar**
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**300°C**
MAX PRESS. DIFFERENZIALE (PMD) / MAX DIFFERENTIAL PRESS. (PMD)	**14 bar**

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	K	B	C	D	**Peso**/Weight (Kg)
3/4"	150	108	81.5	122	3.2



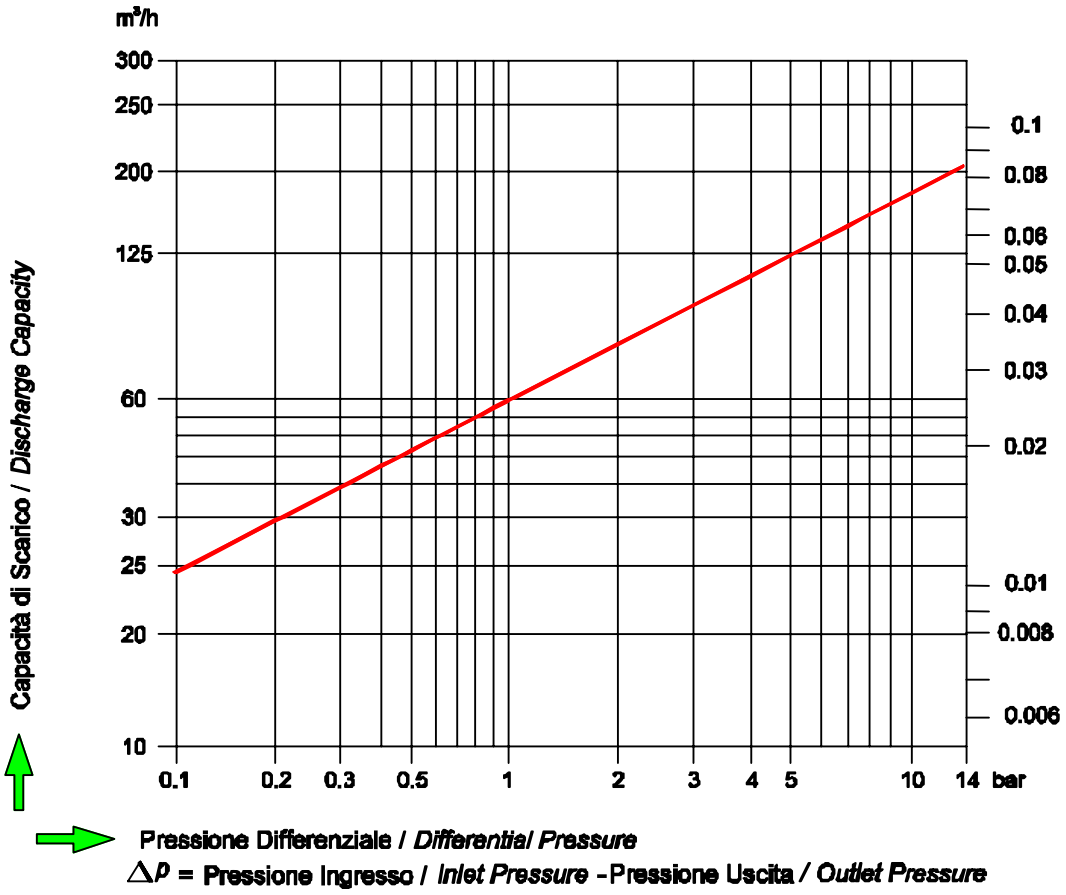


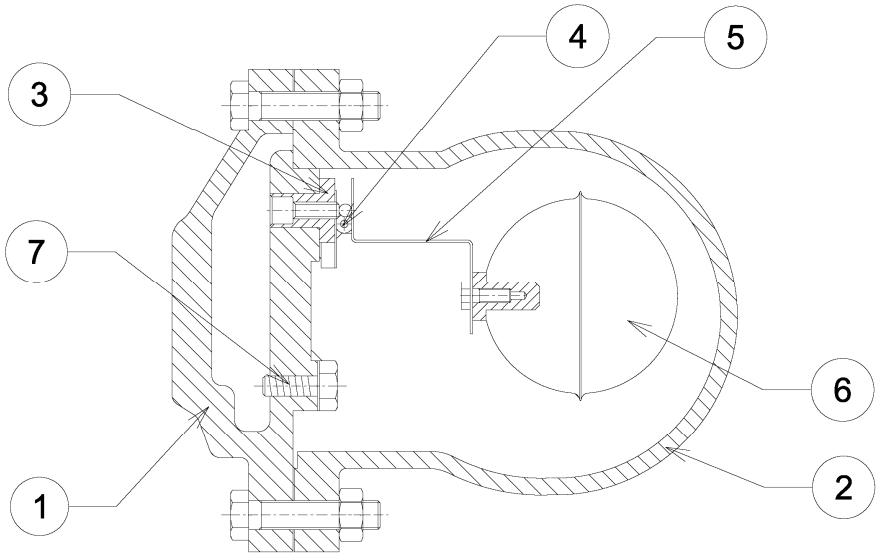
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EAL14 – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES





RICAMBI / SPARE PARTS		
1	CORPO / Body	GGG 40.3
2	COPERCHIO / Cover	GGG 40.3
3	SEDE / Float Seat	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
4	VALVOLA / Main Valve (ball)	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
5	LEVA GALLEGGIANTE / Float Lever	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
6	GALLEGGIANTE / Float	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304
7	VITE / Screw	ACCIAIO INOX AISI 304 / Stainless Steel AISI 304

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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VALVOLE ROMPIVUOTO
VACUUM VALVES

PED 2014/68/UE

RPVO/RPVC/I/E	
07	2016



TIPO / TYPE

RPVO **Corpo in Ottone /** Brass Body

RPVC **Corpo in AISI 304 /** St.St. AISI 304 Body

DESCRIZIONE

Le valvole rompivuoto RPVO (in ottone) e RPVC (interamente in acciaio inox AISI 304) sono del tipo manutenzionabile, progettate per applicazioni con vapori condensanti (vapore acqueo) o sistemi liquidi.

Sono disponibili nel diametro 1/2".

DESCRIPTION

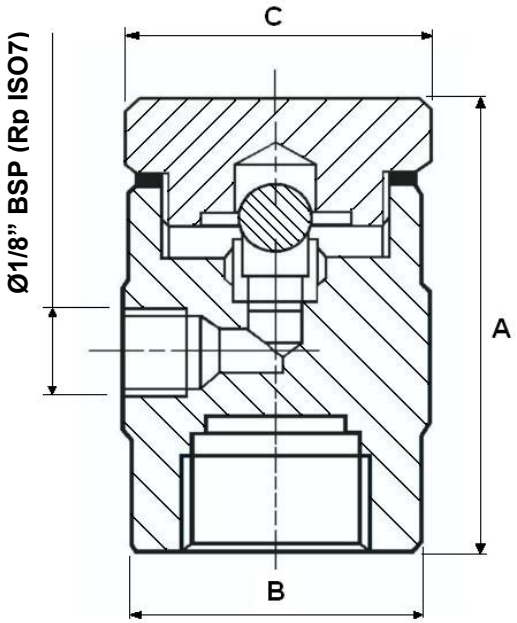
The vacuum braker valves RPVO (brass) and RPVC (stainless steel AISI 304) are mainteinable, for condensate steams (saturated steam) or liquid systems applications.

Allowable in the 1/2" size.

TIPO / TYPE	**RPVO**	**RPVC**
DIAMETRI NOMINALI / NOMINAL SIZES	**Ø 1/2"**	**Ø 1/2"**
ATTACCHI CORPO / BODY CONNECTIONS	**filettati BSP (Rp ISO 7) /** BSP screwed (Rp ISO 7)	
MATERIALE GRUPPO CORPO / BODY MATERIAL	**OTTONE MS 56 /** BRASS MS 56	**ACCIAIO INOX AISI 304 /** ST.STEEL AISI 304
MATERIALI INTERNI / INTERNAL MATERIALS	**ACCIAIO INOX AISI 304 /** STAINLESS STEEL AISI 304	
MAX PRESSIONE AMMISSIBILE (PMA) /MAX ALLOWABLE PRESS URE (PMA)	**16 bar**	**40 bar**
MAX TEMP. AMMISSIBILE (TMA) / MAX ALLOWABLE TEMP. (TMA)	**300 °C**	**300 °C**

DIMENSIONI DI INGOMBRO IN mm E PESO / DIMENSIONS IN mm AND WEIGHT

Ø	A	B	C	**Peso/**Weight (Kg)
1/2"	55	34	39	0.35

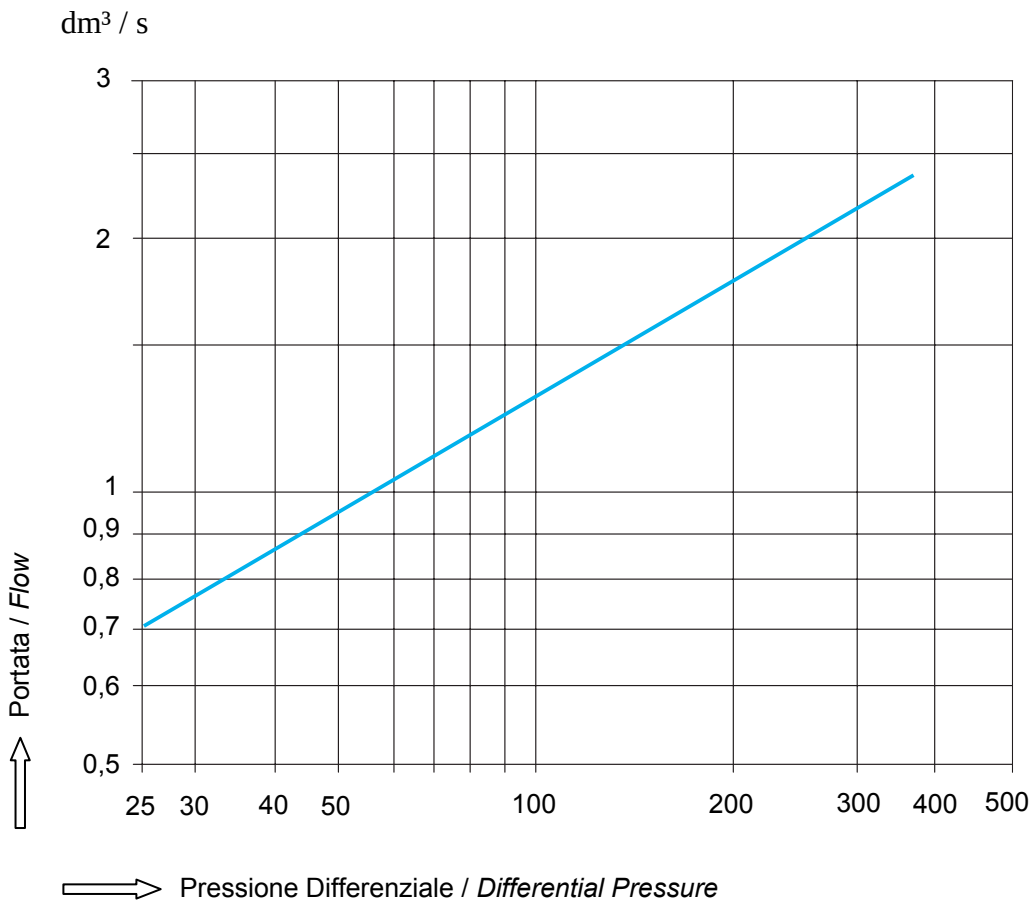


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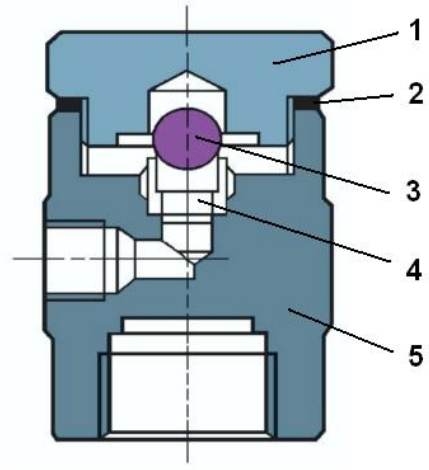
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

RPVO / RPVC – CAPACITA' DI SCARICO / DISCHARGE CAPACITIES



Coefficiente di Portata KV = 0.52 / *Flow Coefficient KV = 0.52*
ΔP Richiesto per aprire la valvola 4.6 mm Hg
ΔP Required to open Vacuum Breaker 4.6 mm Hg



RICAMBI / SPARE PARTS		
1	COPERCHIO / Cover	OTTONE / Brass MS 56 (RPVO) – ACCIAIO INOX / St. St. AISI304 (RPVC)
2	GUARNIZIONE / Gasket	ACCIAIO INOX AISI304 / St. St. AISI304
3	VALVOLA / Valve	ACCIAIO INOX AISI304 / St. St. AISI304
4	SEDE / Seat	ACCIAIO INOX AISI304 / St. St. AISI304
5	CORPO / Body	OTTONE / Brass MS 56 (RPVO) – ACCIAIO INOX / St. St. AISI304 (RPVC)

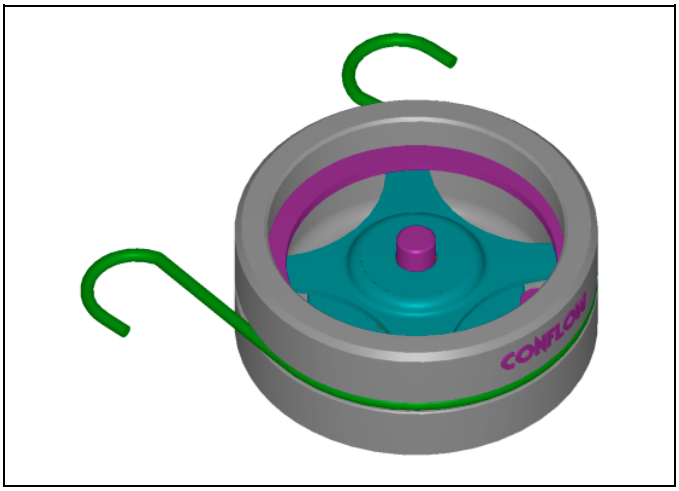
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VALVOLE DI RITEGNO A DISCO
Disc Check Valves

CE

RPX40/I/E	
06	2004



TIPO/Type RPX40

ACCIAIO INOX AISI 420 PN40
PN40 AISI 420 Stainless Steel

DESCRIZIONE

L'otturatore a piattello o disco (rif. n°2) viene aperto dalla pressione del fluido, la forza della molla intercetta il flusso non appena tale pressione viene a cadere.

DIAMETRI NOMINALI

DN 15 - 20 - 25 - 32 – 40 - 50

ATTACCHI
WAFER su flange UNI/DIN PN 16/40

CONDIZIONI LIMITE DI IMPIEGO

40 barg - 120 °C
21 barg - 400 °C

E' sconsigliato l'impiego su fluidi corrosivi e/o aggressivi.

DESCRIPTION

The disc plug (ref. n°2) is opened by the pressure of the fluid, when the pressure drops, the power of the spring intercepts the flow.

SIZES

DN 15 - 20 - 25 - 32 - 40 - 50

CONNECTIONS
Wafer on UNI/DIN PN16/40 flanges

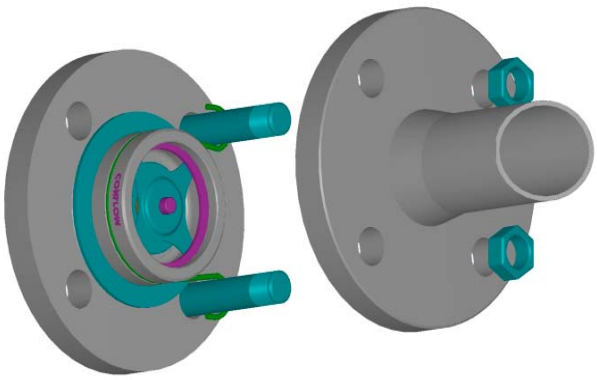
MAX WORKING CONDITIONS

40 barg - 120 °C
21 barg - 400 °C

The valves can not be used on corrosive or aggressive fluids.

MONTAGGIO

1. Appoggiare la valvola sul piano della guarnizione inserita tra flangia e valvola, inserendo l'anello di centraggio nelle due viti (vedi disegno).
2. Assicurarsi che il senso della freccia indicato sulla targhetta sia corrispondente all'entrata del flusso.
3. Inserire le ulteriori viti e serrare i dadi delle flange.



INSTALLATION

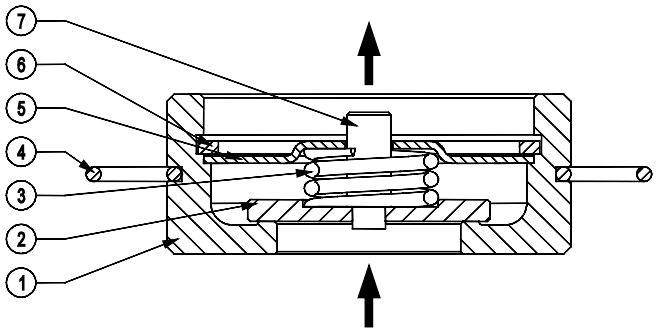
1. Put the valve on the gasket situated between flange and valve, insert the centering ring in the bolts (see drawing).
2. Make sure that the direction of the flow corresponds to the direction of the arrow.
3. Insert the other bolts , screw and tighten.

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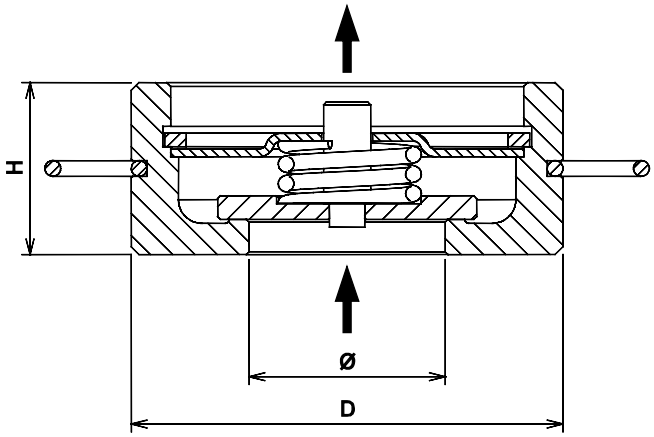
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Fax 039/654.018
www.conflow.it

ELENCO COMPONENTI e MATERIALI / Components list and Materials



ELENCO COMPONENTI Components list	MATERIALI Materials
1) CORPO / Body	1) ACC. INOX AISI 420 S.S. AISI 420
2) OTTURATORE / Disc	2) ACC. INOX AISI 420 S.S. AISI 420
3) MOLLA / Spring	3) ACC. INOX AISI 304 S.S. AISI 304
4) ANELLO DI CENTRAG. Centering ring	4) C. 72
5) DISCO / Spacer	5) ACC. INOX AISI 420 S.S. AISI 420
6) ANELLO DI ARRESTO Stop ring (Seeger)	6) J 40 NICHEL. CHIM. J 40 nickel plated
7) PERNO GUIDA Guide Stem	7) ACC. INOX AISI 304 S.S. AISI 304

DIMENSIONI DI INGOMBRO (mm) e PESI (Kg) / Dimensions (mm) and Weights (Kg)



DN Ø	15	20	25	32	40	50
H	16	19	22	28	32	40
D	35	45	55	68	78	98
PESO Weight	0,06	0,12	0,19	0,28	0,37	0,47

DIAGRAMMA DELLE PERDITE DI CARICO / Pressure Drop Chart

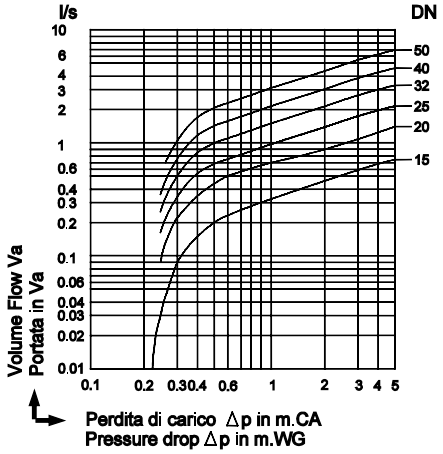
I valori si riferiscono all'acqua alla temperatura di 20°C.
Per determinare le perdite di carico di altri prodotti, si calcoli l'equivalente del volume in acqua.

The curves given in the chart are valid for water at 20°C. To read the pressure drop for other fluids the equivalent water volume flowrate must be calculated.

$$Va = \sqrt{\frac{d}{1000}} \cdot V$$

Va = volume di acqua in l/s
d = densità del prodotto kg/m3
V = volume prodotto in l/s

Va = water volume flow in l/s
d = density of fluid in Kg/m3
V = volume of fluid in l/s



PRESSIONI DI APERTURA / Opening Pressures

DIR. FLUSSO Flow direction	PRESSIONE DI APERTURA in mm. CA / Opening pressure in mm. W.G.					
	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
↑	260	260	265	270	280	285
→	230	230	235	240	245	250
↓	200	200	200	200	205	205

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VALVOLE DI RITEGNO A DISCO in AISI316
AISI316 Disc Check Valves

CE

RPX40K/I/E	
09	2005



TIPO/Type RPX40 K

ACCIAIO INOX AISI 316 PN40
PN40 AISI 316 Stainless Steel

DESCRIZIONE

L'otturatore a piattello o disco (rif. n°2) viene aperto dalla pressione del fluido, la forza della molla intercetta il flusso non appena tale pressione viene a cadere.

DIAMETRI NOMINALI

Dal DN15 al DN100

ATTACCHI
WAFER su flange EN 1092-1 PN16 e PN40

CONDIZIONI LIMITE DI IMPIEGO

40 barg - 100 °C
38 barg - 200 °C
37 barg - 300 °C

DESCRIPTION

The disc plug (ref. n°2) is opened by the pressure of the fluid, when the pressure drops, the power of the spring intercepts the flow.

SIZES

From DN15 to DN100

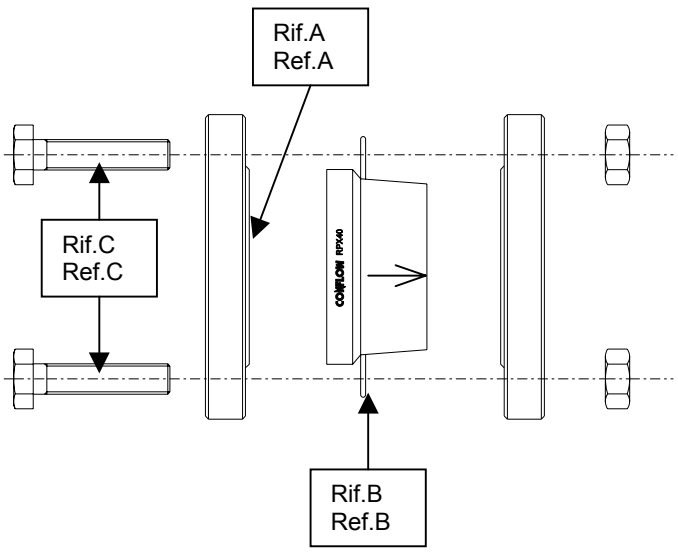
CONNECTIONS
Wafer on EN 1092-1 PN16 and PN40 flanges

MAX WORKING CONDITIONS

40 barg - 100 °C
38 barg - 200 °C
37 barg - 300 °C

MONTAGGIO

1. Appoggiare la valvola sul piano della guarnizione (Rif.A).
2. Inserire le viti Rif.C nella flangia e successivamente nell'anello di centraggio Rif.B.
3. Assicurarsi che il senso della freccia sia corrispondente all'entrata del flusso.
4. Serrare i dadi



INSTALLATION

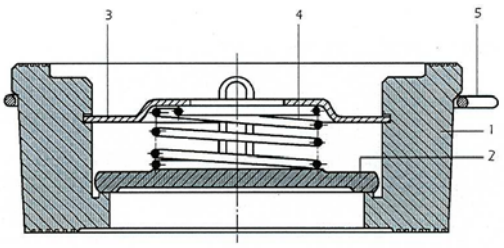
1. Put the valve on the gasket (Ref.A)
2. Insert the screws Ref.C into the flange and into the centering ring Ref.B
3. Make sure that the direction of the flow corresponds to the direction of the arrow.
4. Tighten the bolts.

CONFLOW s.p.a.

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

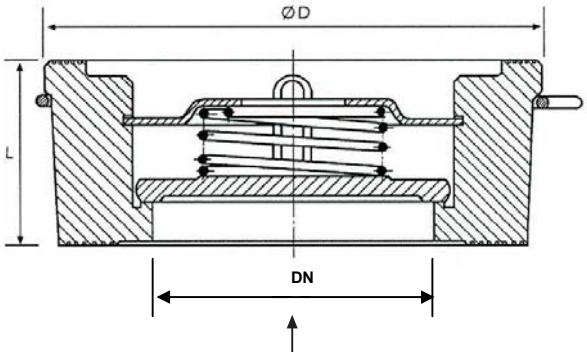
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Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

ELENCO COMPONENTI e MATERIALI / Components list and Materials



ELENCO COMPONENTI Components list	MATERIALI Materials
1) CORPO / Body	1) Acc. Inox AISI316 / St.St. AISI316
2) OTTURATORE / Disc	2) Acc. Inox AISI316 / St.St. AISI316
3) ANELLO DI ARRESTO Stop ring	3) Acc. Inox AISI316 / St.St. AISI316
4) MOLLA / Spring	4) Acc. Inox AISI316 / St.St. AISI316
5) ANELLO DI CENTRAGGIO Centering ring	5) Acc. Inox AISI316 / St.St. AISI316

DIMENSIONI DI INGOMBRO (mm) e PESI (Kg) / Dimensions (mm) and Weights (Kg)



DN	15	20	25	32	40	50	65	80	100
Ø D	39	46	54	70	80	96	113	130	150
L	16	19	21	27	31	40	46	50	60
Peso / Weight	0.8	0.13	0.18	0.33	0.54	0.89	1.2	2.1	3.1

DIAGRAMMA DELLE PERDITE DI CARICO / Pressure Drop Chart

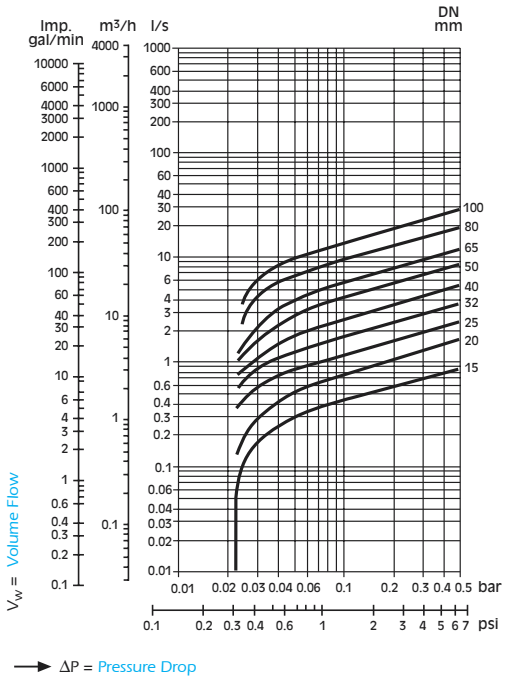
I valori si riferiscono all'acqua alla temperatura di 20°C.
Per determinare le perdite di carico di altri prodotti, si calcoli l'equivalente del volume in acqua.

The curves given in the chart are valid for water at 20°C. To read the pressure drop for other fluids the equivalent water volume flowrate must be calculated.

$$Va = \sqrt{\frac{d}{1000}} \cdot V$$

Va = volume di acqua in l/s
d = densità del prodotto kg/m3
V = volume prodotto in l/s

Va = water volume flow in l/s
d = density of fluid in Kg/m3
V = volume of fluid in l/s



PRESSIONI DI APERTURA / Opening Pressures

DIR. FLUSSO Flow direction	PRESSIONE DI APERTURA in mm. CA / Opening pressure in mm. W.G.								
	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
↑	25	25	25	27	28	29	30	31	33
→	22.5	22.5	22.5	23.5	24	24.5	25	25.5	26.5
↓	20	20	20	20	20	20	20	20	20

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VALVOLE DI RITEGNO A PISTONE
Piston check valves

VF287/I/E	
02	2017



PED 2014/68/UE

CE

EAC **a richiesta** on request

TIPO / Type VF287A
GHISA EN GJL250 PN 16
Cast iron EN GJL250 PN 16

TIPO / Type VF287B
ACCIAIO CARBONIO 1.0619 PN 40
Carbon steel 1.0619 PN 40

IMPIEGHI

Vapore , acqua, acqua surriscaldata
Pressione e temperatura max ammissibili :
VF287A : 16 barg 120 °C / 9,6 barg 300 °C temp. min. - 10°C
VA287B : 40 barg 50 °C / 23,8 barg 400 °C temp. min. - 20°C

APPLICATIONS

Steam , water, superheated water
Maximum allowable pressure and temperature :
VF287A : 16 barg 120 °C / 9,6 barg 300 °C min. temp. - 10°C
VA287B : 40 barg 50 °C / 23,8 barg 400 °C min. temp. - 20°C

MATERIALI

Descrizione	Tipo VF287A	Tipo VF287B
Corpo-Coper.	Ghisa EN-GJL-250	Carbon Steel 1.0619
Sede	X12Cr13 1.4006	X12Cr13 1.4006
Otturatore	X20Cr13 1.4021	X20Cr13 1.4021
Guarnizione	Grafite + NiCr	Grafite + NiCr

MATERIALS

Description	Type VF287A	Type VF287B
Body and Cover	Cast I. EN-GJL-250	Carbon Steel 1.0619
Seat	X12Cr13 1.4006	X12Cr13 1.4006
Seat	X20Cr13 1.4021	X20Cr13 1.4021
Gasket	Graphite + NiCr	Graphite + NiCr

CONNESSIONI

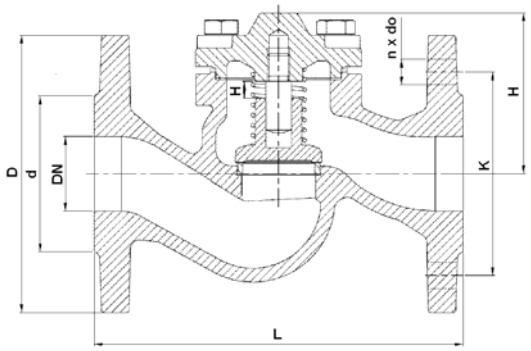
VF287A Flangiata EN 1092-1 form B PN16
VF287B Flangiata EN 1092-1 form B PN40

CONNECTION

VF287A Flanged EN 1092-1 form B PN16
VF287B Flanged EN 1092-1 form B PN40

Dimensioni di ingombro mm e pesi in Kg.

Dimensions mm and weights Kg.



Tipo / Type VF287A

DN	L	H	D	d	K	h	n x do	Kg
15	130	56	95	46	65	5	4x14	2,1
20	150	56	105	56	75	5	4x14	2,7
25	160	67	115	65	85	8	4x14	3,8
32	180	76	140	76	100	8	4x19	5,5
40	200	89	150	84	110	11	4x19	7,4
50	230	96	165	99	125	14	4x19	9,5
65	290	104	185	118	145	17	4x19	15,0
80	310	124	200	132	160	21	8x19	20,0
100	350	161	220	156	180	25	8x19	29,0
125	400	174	250	184	210	32	8x19	41,0
150	480	197	285	211	240	38	8x23	66,0
200	600	248	340	266	295	50	12 x 23	111

Tipo / Type VF287B

DN	L	H	D	d	K	h	n x do	Kg
15	130	75	95	45	65	6	4x14	3,5
20	150	75	105	58	75	6	4x14	4,5
25	160	75	115	68	85	6	4x14	5,5
32	180	91	140	78	100	10	4x18	8,0
40	200	91	150	88	110	10	4x18	11,0
50	230	124	165	102	125	16,5	4x18	14,0
65	290	125	185	122	145	16,5	8x18	23,0
80	310	175	200	138	160	25	8x18	30,0
100	350	176	235	162	190	25	8x22	47,0
125	400	260	270	188	220	40	8x26	70,0
150	480	260	300	218	250	40	8x26	96,0
200	600	270	375	285	320	50	12x30	100

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CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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VALVOLE DI RITEGNO A PISTONE
Piston check valves

VF150/X/K/I/E	
11	2015



TIPO / Type	**VF150**
	BRONZO - Bronze
	PN16
	Ø 3/8" – 2”



TIPO / Type	**VF150X**	**VF150K**
	AISI 304	**AISI 316**
	PN16	
	Ø 3/8" – 1.1/2”	

IMPIEGHI

Descrizione	Tipo VF150	Tipo VF150X/K
Fluidi	Vapore , acqua, acqua surriscaldata	
Max Pressione Max Temperat.	16 bar @ 120 °C 7 bar@ 170 °C	16 bar @ 150 °C
Min. pressione Apertura	-	0,025 bar

APPLICATIONS

Description	Type VF150	Type VF150X/K
Fluids	Steam , water, superheated water	
Max Pressure Max Temperat.	16 bar @ 120 °C 7 bar@ 170 °C	16 bar @ 150 °C
Min. opening Pressure	-	0,025 bar

MATERIALI

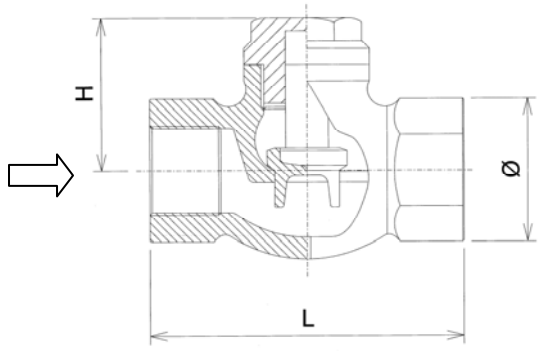
Descrizione	Tipo VF150	Tipo	
		VF150X	VF150K
Corpo- coperchio	Bronzo	AISI	AISI
Otturatore – sede	UNI 7013-72	304	316
Tenuta	metallica	FPM	
Connessione	Filettata UNI-ISO 7/1 Rp	Filettata UNI-ISO 7/1 Rp	

MATERIALS

Description	Type VF150	Type	
		VF150X	VF150K
Body and cover	Bronze	AISI	AISI
Plug and seat	UNI 7013-72	304	316
Seal	Metallic	FPM	
Connection	UNI-ISO 7/1 Rp Female screwed	UNI-ISO 7/1 Rp Female screwed	

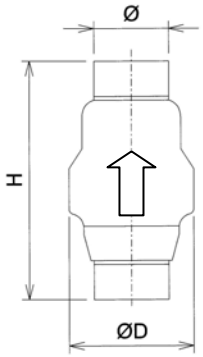
Dimensioni di ingombro mm e pesi in Kg.

Tipo / Type VF150



Dimensions mm and weights Kg.

Tipo / Type VF150X/K



Tipo / Type **VF150**

Ø	3/8”	1/2”	3/4"	1”	1.1/4”	1.1/2”	2”
L	45	50	61	69	85	90	110
H	42	47	55	63	79	89	102
Kg	0,16	0,22	0,33	0,48	0,82	1,03	1,71

Tipo / Type **VF150X/K**

Ø	3/8”	1/2”	3/4"	1”	1.1/4”	1.1/2”
H	55	55	66,7	83	97	115
ØD	32	32	44	53	62	78
Kg	0.12	0.09	0.13	0.19	0.28	0.39

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FILTRI A "Y"
"Y" Strainers

FY821AS/I/E	
02	2017



TIPO / Type FY821A
GHISA EN GJL-250 PN 16
PN 16 Cast iron EN GJL-250

TIPO / Type FY821S
GHISA SFEROIDALE EN-GJS-400-18-LT PN16
PN16 EN-GJS-400-18LT Nodular Cast Iron

PED 2014/68/UE CE

EAC **a richiesta** / on request

IMPIEGHI

Vapore, acqua surriscaldata, acqua, fluidi non corrosivi e Olio Diatermico.

Pressione e temperatura max ammissibili :
FY821A : 16 barg 120 °C / 9,6 barg 300 °C temp. min. - 10°C
FY821S : 16 barg 120 °C / 11,2 barg 350 °C temp. min. - 10°C

APPLICATIONS

Steam, superheated water,water ,non corrosive fluids and Thermoil

Maximum allowable pressure and temperature :
FY821A : 16 barg 120 °C / 9,6 barg 300 °C min. temp. - 10°C
FY821S : 16 barg 120 °C / 11,2 barg 350 °C temp. min. - 10°C

MATERIALI

Descrizione	Tipo FY821A	Tipo FY821S
Corpo e coperchio	EN-GJL-250	EN-GJS-400-18-LT
Filtro	X5 CrNi 18-10 1.4301 AISI 304	
Caratteristiche Filtro		
Guarnizione corpo	AISI 304 + Grafite	
Tappo di spurgo	Acciaio C35	

DN	Mesh Ø	Mesh / cm2
15-50	1.0	45
65-80	1.25	28
100-200	1.6	15

MATERIALS

Description	Tipo FY821A	Tipo FY821S
Body and cover	EN-GJL-250	EN-GJS-400-18-LT
Screen	X5 CrNi 18-10 1.4301 AISI 304	
Strainer charac.		
Body gasket	AISI 304 + Graphite	
Drain Plug	Steel C35	

DN	Mesh Ø	Mesh / cm2
15-50	1.0	45
65-80	1.25	28
100-200	1.6	15

CONNESSIONI

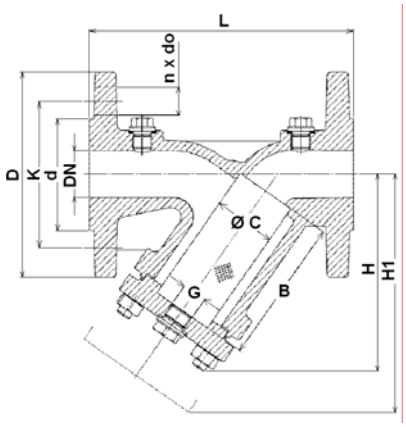
EN 1092-1 PN 16 Form B

CONNECTIONS

EN 1092-1 PN 16 Form B

Dimensioni di ingombro mm e pesi Kg.

Dimensions mm and weights Kgs



DN	L	H	H1	D	K	d	n x do	B	Ø C	G	Kv m3/s	Kg
15	130	90	135	95	65	46	4x14	56	23	3/8"	6,0	2,6
20	150	100	160	105	75	56	4x14	68	28	3/8"	10,4	3
25	160	115	180	115	85	65	4x14	82	36	3/4"	16,4	4,3
32	180	135	215	140	100	76	4x19	98	42	3/4"	25,9	6,8
40	200	150	240	150	10	84	4x19	114	50	1"	36	8,8
50	230	160	250	165	125	99	4x19	119	61,5	1"	60,9	11
65	290	180	285	185	145	118	4x19	134	78,5	1"	98	14,6
80	310	215	330	200	160	132	8x19	149	89,5	1"	149	18,6
100	350	240	395	220	180	156	8x19	169	109,5	1.1/2"	234	27
125	400	280	455	250	210	184	8x19	199	137,5	1.1/2"	376	38,5
150	480	330	525	285	240	211	8x23	224	160	1.1/2"	454	54,5
200	600	405	650	340	295	266	10x23	284	210	1.1/2"	716,5	110

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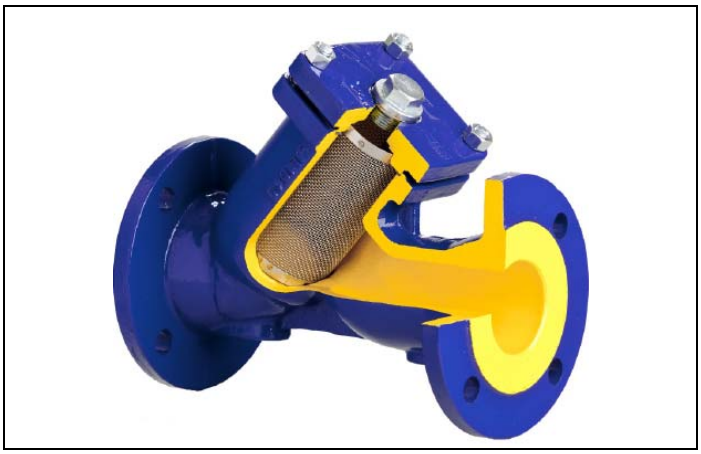
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FILTRI A "Y"
"Y" Strainers

FY821B/I/E	
02	2017



TIPO / Type FY821B

ACC.CARB. 1.0619 PN 40

PN 40 Carbon steel 1.0619

PED 2014/68/UE CE

EAC **a richiesta** / on request

IMPIEGHI

Vapore, acqua surriscaldata, acqua ,fluidi non corrosivi e Olio Diatermico.

Pressione e temperatura max ammissibili :
40 bar 50°C / 24 bar 400°C
30 barg - 20 °C

APPLICATIONS

Steam, superheated water,water and non corrosive fluids and Thermoil.

Maximum allowable pressure and temperature :
40 bar 50°C / 24 bar 400°C
30 barg - 20 °C

MATERIALI

Descrizione	**Tipo FY821B**		
Corpo e coperchio	1.0619		
Filtro	X5 CrNi 18-10 1.4301 AISI 304		
Caratteristiche Filtro	**DN**	**Mesh Ø**	**Meshes cm2**
	15-50	1.0	45
	65-80	1.25	28
	100-200	1.6	15
Guarnizione corpo	AISI 304 + Grafite	AISI 304 + Grafite	
Tappo di spurgo	Acciaio C35		

MATERIALS

Description	**Type FY821B**		
Body and cover	1.0619		
Screen	X5 CrNi 18-10 1.4301 AISI 304		
Strainer charac.	**DN**	**Mesh Ø**	**Meshes cm2**
	15-50	1.0	45
	65-80	1.25	28
	100-200	1.6	15
Body gasket	AISI 304 + Graphite	AISI 304 + Graphite	
Drain Plug	Steel C35		

CONNESSIONI

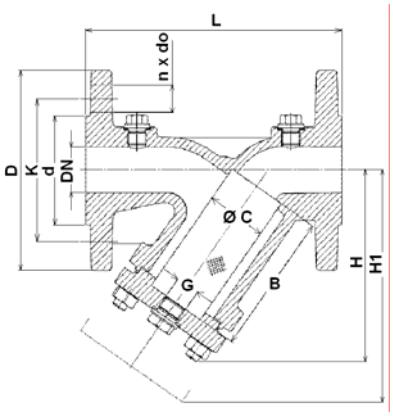
Tipo FY16 **EN 1092-1 PN 16 Form B**
Tipo FY40 **EN 1092-1 PN 40 Form B**

CONNECTION

Type FY16 **EN 1092-1 PN 16 Form B**
Type FY40 **EN 1092-1 PN 40 Form B**

Dimensioni di ingombro mm e pesi Kg.

Dimensions mm and weights Kgs



DN	L	H	H1	D	K	d	n x do	B	Ø C	G	Kv m3/s	Kg
15	130	90	135	95	65	45	4x14	56	23	3/8"	6	2,7
20	150	100	160	105	75	58	4x14	68	28	3/8"	10,4	3,6
25	160	115	180	115	85	68	4x14	82	36	3/4"	16,4	4,5
32	180	135	215	140	100	78	4x18	98	42	3/4"	25,9	6,3
40	200	150	240	150	110	88	4x18	114	50	1"	36	8,7
50	230	160	250	165	125	102	4x18	119	61,5	1"	60,9	11
65	290	180	285	185	145	122	4x18	134	78,5	1"	98	18,5
80	310	215	330	200	160	138	8x18	149	89,5	1"	149	23,5
100	350	240	395	235	190	162	8x22	169	109,5	1.1/2"	234	33
125	400	280	455	270	220	188	8x26	199	137,5	1.1/2"	376	54
150	480	330	525	300	250	218	8x26	224	160	1.1/2"	454	75
200	600	405	650	375	320	285	10x23	284	210	1.1/2"	716,5	137

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FILTRI A "Y"
"Y" Strainers

FY16K/I/E	
11	2015

CE



TIPO / Type FY 16K

ACC.INOX AISI 316 PN 16
PN 16 St. Steel AISI 316

IMPIEGHI

Vapore, acqua surriscaldata, acqua e fluidi

Pressione e temperatura max ammissibili :
10 barg -10 / +50 °C …6,8 barg 400 °C

MATERIALI

Corpo e coperchio	AISI 316
Filtro	AISI 316
Caratteristiche Filtro	Perforazione DN15/50 Ø1 mm passo 2 mm Perforazione DN50/100 Ø2 mm passo 3.5 mm
Guarnizione corpo	AISI 304 + Grafite
Viti e Dadi	AISI 304 – A2

CONNESSIONI

EN 1092-1 PN 16 Form B – flange elettrosaldate

APPLICATIONS

Steam, superheated water, water and fluids.

Maximum allowable pressure and temperature :
10 barg -10 / +50 °C …6,8 barg 400 °C

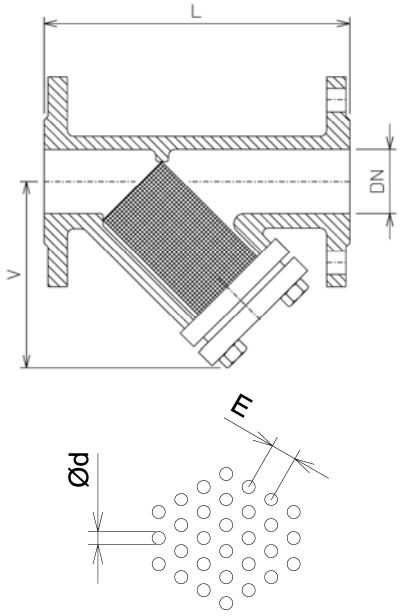
MATERIALS

Body and cover	AISI 316
Strainer	AISI 316
Strainer charac.	Perforation DN15/50 Ø1 mm pitch 2 mm Perforation DN50/100 Ø2 mm pitch 3.5 mm
Body gasket	AISI 304 + Graphite
Screws and Nuts	AISI 304 – A2

CONNECTION

EN 1092-1 PN 16 Form – Electrowelded flanges

Dimensioni di ingombro mm e pesi Kg.



Dimensions mm and weights Kgs

DN	L	H	Kv m3/h	Ød	E	Peso Weight
15	130	70	4,3	1	2	2
20	150	70	7,7	1	2	2,6
25	160	85	12	1	2	3
32	180	85	18,8	1	2	4,5
40	200	110	29	1	2	5,5
50	230	125	45,3	1	2	7,5
65	290	145	77,8	2	3,5	10
80	310	180	118	2	3,5	14
100	350	205	185,5	2	3,5	19,5

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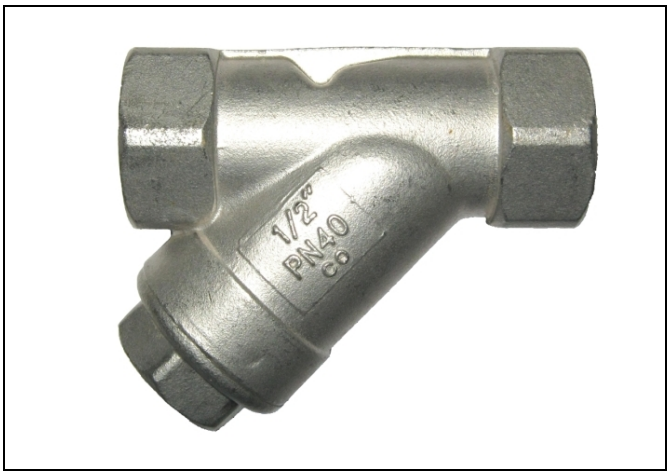
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FILTRI A "Y"
"Y" Strainers

FY600K/I/E	
11	2015



CE

TIPO / Type FY 600K

Esecuzione filettata ISO 7/1 Rp (gas)
Screwed version ISO 7/1 Rp

ACCIAIO INOX AISI 316 PN 40
PN 40 St. St. AISI 316

IMPIEGHI
Vapore, acqua surriscaldata, acqua e fluidi.
Pressione e temperatura max ammissibili :
40 barg -20 / +200 °C

APPLICATIONS
Steam, superheated water, water and fluids.
Maximum allowable pressure and temperature :
40 barg -20 / +200 °C

MATERIALI
Corpo e Tappo AISI 316
Cartuccia filtrante AISI 316
Caratteristiche Filtro – Perforazione Ø 1 mm passo 1 mm
Guarnizione PTFE

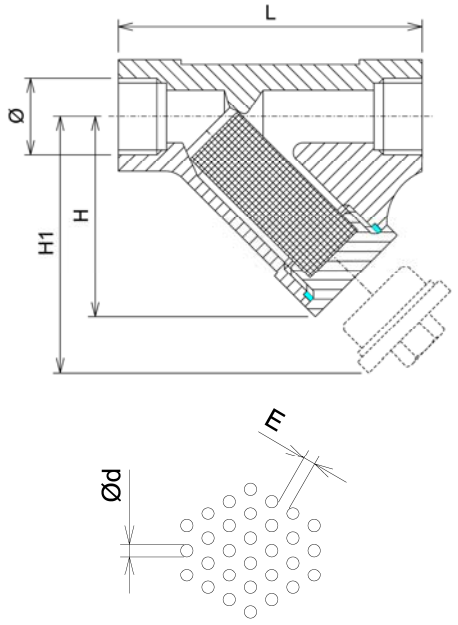
MATERIALS
Body and plug in AISI 316
Strainer AISI 316
Strainer characteristic – perforation Ø 1 mm pitch 1 mm
Gasket PTFE

CONNESSIONI
filettate UNI-ISO 7/1 Rp (GAS femmina)
A richiesta filette NPT

CONNECTIONS
UNI-ISO 7/1 Rp BSP female Screwed
On request NPT

Dimensioni di ingombro mm e pesi Kg.

Dimensions mm and weights Kgs



Ø	L	H	H1	Ød	E	Peso - Weight
3/8"	65	30	75	1	1	0,21
1/2"	65	40	85	1	1	0,22
3/4"	80	45	90	1	1	0,35
1"	55	55	100	1	1	0,66
1.1/4"	65	65	110	1	1	0,77
1.1/2"	70	70	115	1	1	1,15
2"	85	85	130	1	1	1,76

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FILTRI A "Y" FILETTATI

"Y" Screwed Strainers

FY823A/I/E	
02	2017



TIPO / Type FY823A

GHISA EN GJL-250 PN 16

PN16 Cast iron EN-GJL-250

PED 2014/68/UE CE

EAC **a richiesta** / on request

IMPIEGHI

Vapore, acqua surriscaldata, acqua e fluidi non corrosivi
Pressione e temperatura max ammissibili :
16 barg 120 °C / 12,8 barg 200 °C temp. min. impiego -10°C

APPLICATIONS

Steam, superheated water, water and non corrosive fluid
Maximum allowable pressure and temperature :
16 barg 120 °C / 12,8 barg 200 °C min. operating temp. -10°C

MATERIALI

Descrizione	**Tipo FY823A**
Corpo	EN-GJL-250
Coperchio	EN-GJS-500-7
Filtro	X5CrNi 18-10 1.4301 AISI 304
Caratt. Filtro	Mesh 1,0 mm – 45 mesh/cm2
Guarnizione corpo	Carbamide gomma

MATERIALS

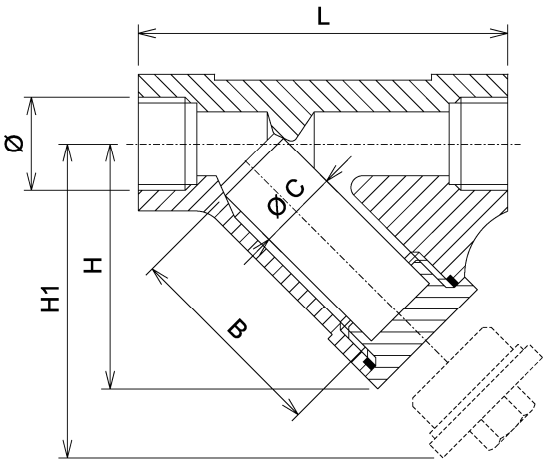
Description	**Type FY823A**
Body	EN-GJL-250
Cover	EN-GJS-500-7
Screen	X5CrNi 18-10 1.4301 AISI 304
Filter characteristic	Mesh 1,0 mm – 45 mesh/cm2
Body gasket	Carbamide Rubber

CONNESSIONI

CONNECTIONS

Dimensioni mm – Kv m3/h - pesi Kg.

Dimensions mm – Kv m3/h - weights Kgs



Ø	L	H	H1	Ø C	B	Kv m3/h	Kg
3/8"	72	45	75	18	48	1,8	0,3
1/2"	85	52	80	23	56	3,6	0,5
3/4"	100	62	90	28	68	11	0,8
1"	120	73	110	36	82	15,5	1,1
1.1/4"	140	86	114	42	98	26	1,9
1.1/2"	160	98	126	50	114	41	2,5
2"	205	144	172	60	154	68	6,1
2.1/2"	245	172	200	76	187	82	8,5
3"	265	186	224	83	200	115	12

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VALVOLE MANUALI a flusso avviato
Manual globe valves

VA201/I/E	
02	2017



TIPO / Type VA201A

Esecuzione filettata BSP Rp ISO 7
Screwed version BSP Rp ISO 7

GHISA EN-GJL-250 PN16
EN-GJL-250 Cast iron PN 16

PED 2014/68/UE CE EAC **a richiesta** / on request

IMPIEGHI

Acqua calda e fredda. Vapore e fluidi non corrosivi
Pressione e temperatura max ammissibili :
16 barg 120 °C / 12,8 barg 200 °C temp. min. impiego -10°C

APPLICATIONS

Hot and cold water. Steam and non corrosive fluids.
Maximum allowable pressure and temperature :
16 barg 120 °C / 12,8 barg 200 °C min. operating temp. -10°C

MATERIALI

Descrizione	**VA201A**
Corpo	Ghisa EN-GJL-250
Coperchio	Ghisa EN-GJL-250
Sede	X12 Cr13
Otturatore	X20 Cr13
Albero	X20 Cr13
Guarnizione corpo	Carbamide - Gomma
Premistoppa	Grafite Pura

MATERIALS

Description	**VA201A**
Body	Cast Iron EN-GJL-250
Bonnet	Cast Iron EN-GJL-250
Seat	X12 Cr13
Plug	X20 Cr13
Stem	X20 Cr13
Body gasket	Carbamide - Rubber
Packing	Pure Graphite

CONNESSIONI

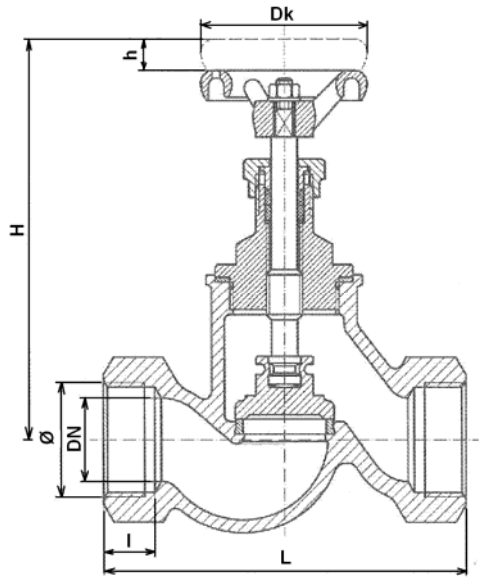
BSP – Rp ISO7

CONNECTIONS

BSP – Rp ISO7

Dimensioni in mm – Kv m3/h - pesi in Kg.

Dimensions mm – Kv m3/h - weights Kg.



Ø	DN	l	L	H	h	Dk	Kv m3/h	Kg
3/8”	10	12	85	112	7	64	4,4	0,7
1/2”	15	14	90	118	9	64	5,9	0,9
3/4”	20	16	100	118	9	64	7,4	1,0
1”	25	18	120	138	9	80	13,0	1,45
1.1/4”	32	20	140	165	13	80	18,0	2,1
1.1/2”	40	22	170	185	18	100	30,0	3,0
2”	50	24	200	198	20	100	41,0	4,3

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VALVOLE MANUALI a flusso avviato
Manual globe valves

VA215A/I/E	
02	2017



TIPO / Type VA215A

GHISA EN-GJL-250 PN16
Cast iron EN-GJL-250 PN16

PED 2014/68/UE CE

EAC **a richiesta** / on request

IMPIEGHI

Acqua calda e fredda. Vapore e fluidi non corrosivi
Pressione e temperatura max ammissibili :
16 barg 120 °C / 9,6 barg 300 °C temp. min. impiego -10°C

APPLICATIONS

Hot and cold water. Steam and non corrosive fluids.
Maximum allowable pressure and temperature :
16 barg 120 °C / 9,6 barg 300 °C min. operating temp. -10°C

MATERIALI

Descrizione	**Tipo VA215A**
Corpo	Ghisa EN-GJL-250
Sede	X12Cr13 1.4406
Bonnet	Ghisa EN-GJL-250
Otturatore	X20Cr13 1.4021
Albero	X20Cr13 1.4021
Volantino	EN-GJS500-7
Premistoppa	Grafite Pura
Guarnizione corpo	Grafite + NiCr
Prigionieri e Dadi	42CrMo5 / C35

MATERIALS

Description	**Type VA215A**
Body	Cast Iron EN-GJL-250
Seat	X12Cr13 1.4406
Bonnet	Cast Iron EN-GJL-250
Plug	X20Cr13 1.4021
Stem	X20Cr13 1.4021
Handwheel	EN-GJS500-7
Packing	Pure Graphite
Body gasket	Graphite + NiCr
Stud Bolts and Nuts	42CrMo5 / C35

CONNESSIONI

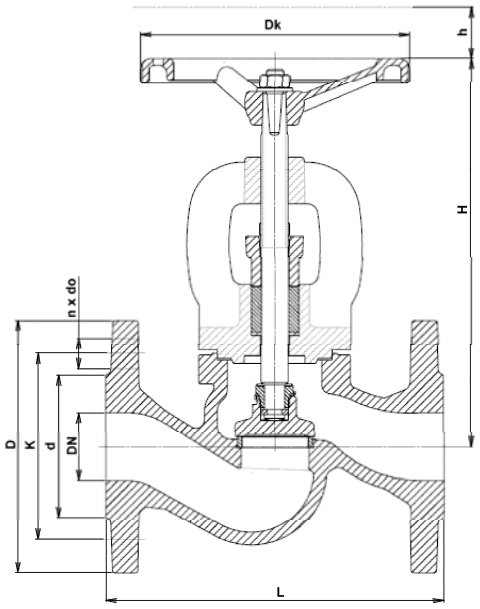
EN1092-1 form B PN16

CONNECTIONS

EN1092-1 form B PN16

Dimensioni in mm – Kv m3/h - pesi in Kg.

Dimensions mm – Kv m3/h - weights Kg.



DN	L	H	h	Dk	D	K	d	n x do	KV m3/h	Kg
15	130	167	5	100	95	65	46	4x14	5,9	3,3
20	150	167	5,5	100	105	75	56	4x14	7,4	3,9
25	160	175	7	120	115	85	65	4x14	13,0	5,0
32	180	186	14	120	140	100	76	4x19	18,0	6,6
40	200	235	20	160	150	110	84	4x19	30,0	8,4
50	230	248	25	160	165	125	99	4x19	41,0	12,0
65	290	260	35	180	185	145	118	4x19	79,0	17,3
80	310	291	41	200	200	160	132	8x19	115,0	22,7
100	350	338	31	250	220	180	156	8x19	181,0	35,8
125	400	384	48	250	250	210	184	8x19	225,0	52,8
150	480	429	57	320	285	240	211	8x23	364,0	74,2
200	600	529	77	360	340	295	266	12x23	690,0	126

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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VALVOLE MANUALI a flusso avviato
Manual globe valves

VA215B/I/E	
02	2017



TIPO / Type VA215B

ACC. CARB. 1.0619 PN40
Carbon steel 1.0619 PN 40

PED 2014/68/UE CE

EAC **a richiesta** / on request

IMPIEGHI

Acqua calda e fredda. Vapore e fluidi non corrosivi
Pressione e temperatura max ammissibili :
40 bar 50°C / 24 bar 400°C
30 barg - 20 °C

APPLICATIONS

Hot and cold water. Steam and non corrosive fluids.
Maximum allowable pressure and temperature :
40 bar 50°C / 24 bar 400°C
30 barg - 20 °C

MATERIALI

Descrizione	**Tipo VA215B**
Corpo	Acciaio Carbonio 1.0619
Sede	G18 8Mn 1.4370
Bonnet	Acciaio Carbonio 1.0619
Otturatore	X20Cr13 1.4021
Albero	X20Cr13 1.4021
Volantino	EN-GJS400-18-LT
Premistoppa	Grafite Pura
Guarnizione corpo	Grafite + NiCr
Prigionieri e Dadi	42CrMo5 / C35

MATERIALS

Description	**Type VA215B**
Body	Carbon steel 1.0619
Seat	G18 8Mn 1.4370
Bonnet	Carbon steel 1.0619
Plug	X20Cr13 1.4021
Stem	X20Cr13 1.4021
Handwheel	EN-GJS400-18-LT
Packing	Pure Graphite
Body gasket	Graphite + NiCr
Stud Bolts and Nuts	42CrMo5 / C35

CONNESSIONI

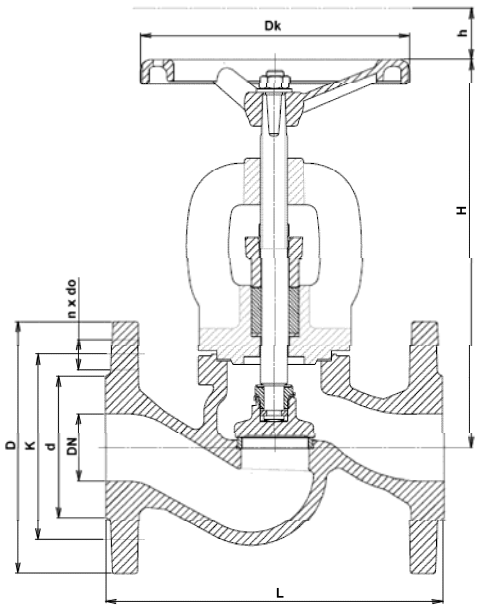
EN1092-1 form B PN40

CONNECTIONS

EN1092-1 form B PN40

Dimensioni in mm – Kv m3/h - pesi in Kg.

Dimensions mm – Kv m3/h - weights Kg.



DN	L	H	h	Dk	D	K	d	n x do	KV m3/h	Kg
15	130	208	6	120	95	65	45	4x14	4,3	4,3
20	150	208	6	120	105	75	58	4x14	7,0	5,1
25	160	208	6	120	115	85	68	4x14	11,0	5,8
32	180	248	10	180	140	100	78	4x18	17,5	9,5
40	200	248	10	180	150	110	88	4x18	27,0	9,8
50	230	332	16,5	250	165	125	102	4x18	47,0	17,5
65	290	332	16,5	250	185	145	122	8x18	68,0	20,5
80	310	407	25	250	200	160	138	8x18	116,0	34,0
100	350	407	25	250	235	190	162	8x22	162,0	44,0
125	400	571	40	320	270	220	188	8x26	250,0	77,0
150	480	571	40	320	300	250	218	8x26	364,0	113
200	600	571	92	400	375	320	285	12x30	550,0	180

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VALVOLE MANUALI con tenuta a soffietto
Manual bellows sealed valves

VA234AS/I/E	
02	2017



TIPO / Type VA234A
GHISA EN-GJL-250 PN16
PN16 EN-GJL-250 Cast iron

TIPO / Type VA234S
GHISA SFEROIDALE EN-GJS-400-18-LT PN16
PN16 EN-GJS-400-18LT Nodular Cast Iron

PED 2014/68/UE CE EAC **a richiesta** / on request

IMPIEGHI

Vapore, acqua surriscaldata, acqua, olio e fluidi non corrosivi
Pressione e temperatura max ammissibili :
VA234A : 16 barg 120 °C / 9,6 barg 300 °C temp. min. - 10°C
VA234S : 16 barg 120 °C / 11,2 barg 350 °C temp. min. - 10°C

APPLICATIONS

Steam, superheated water, water, oil and non corrosive fluids.
Maximum allowable pressure and temperature :
VA234A : 16 barg 120 °C / 9,6 barg 300 °C min. temp. - 10°C
VA234S : 16 barg 120 °C / 11,2 barg 350 °C temp. min. - 10°C

MATERIALI

Descrizione	Tipo VA234A	Tipo VA234S
Corpo e Bonnet	EN-GJL-250	EN-GJS-400-18-LT
Sede	X12Cr13 1.4006	X12Cr13 1.4006
Otturatore - Albero	X20Cr13 1.4021	X20Cr13 1.4021
Soffietto	X8CrNiMo Ti-17-12-2	X8CrNiMo Ti-17-12-2
Premistoppa sic.	Grafite Pura	Grafite Pura
Guarnizione corpo	Grafite+NiCr	Grafite+NiCr
Volantino	Acciaio verniciato	Acciaio verniciato
Prigionieri e dadi	42CrMo5 / C35	42CrMo5 / C35

MATERIALS

Description	Type VA234A	Type VA234S
Body and bonnet	EN-GJL-250	EN-GJS-400-18-LT
Seat	X12Cr13 1.4006	X12Cr13 1.4006
Plug - stem	X20Cr13 1.4021	X20Cr13 1.4021
Bellows	X8CrNiMo Ti-17-12-2	X8CrNiMo Ti-17-12-2
Safety packing	Pure Graphite	Pure Graphite
Body gasket	Graphite+NiCr	Graphite+NiCr
Handwheel	Painted steel	Painted steel
Stud Bolts and Nuts	42CrMo5 / C35	42CrMo5 / C35

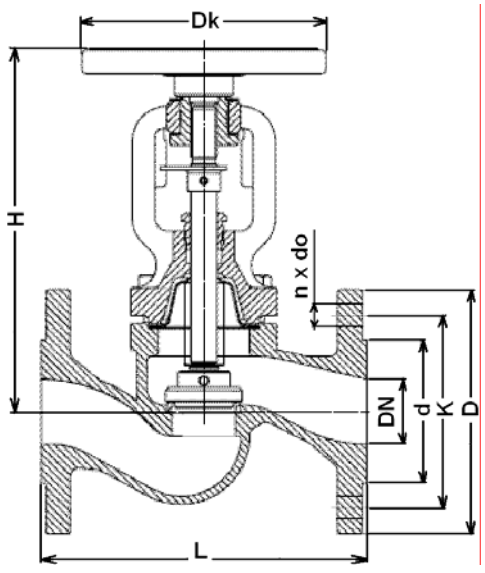
CONNESSIONI

EN 1092-1 PN 16 Form B

CONNECTIONS

EN 1092-1 PN 16 Form B

Dimensioni in mm – Kv m3/h - pesi in Kg. / Dimensions mm – Kv m3/h - weight Kg.



DN	L	H	D	K	d	n x do	Dk	Kv M3/h	Kg
15	130	178	95	65	46	4x14	125	5,9	3,2
20	150	178	105	75	56	4x14	125	7,4	3,9
25	160	193	115	85	65	4x14	125	13,0	4,85
32	180	201	140	100	76	4x19	125	18,0	6,5
40	200	224	150	110	84	4x19	150	30,0	9,0
50	230	228	165	125	99	4x19	150	41,0	11,0
65	290	270	185	145	118	4x19	175	79,0	15,8
80	310	295	200	160	132	8x19	200	115	24,3
100	350	352	220	180	156	8x19	250	181	35,0
125	400	380	250	210	184	8x19	300	225	49,0
150	480	427	285	240	211	8x23	400	364	76,0
200	600	569	340	295	266	12x23	500	725	130,5
250	730	645	405	355	319	12x28	500	1044	210

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VALVOLE MANUALI con tenuta a soffietto
Manual bellows sealed valves

VA234B/I/E	
02	2017



TIPO / Type VA234B

ACCIAIO CARBONIO 1.0619 PN40
PN40 1.0619 Carbon Steel

PED 2014/68/UE CE

EAC **a richiesta** / on request

IMPIEGHI

Vapore, acqua surriscaldata, acqua, olio e fluidi non corrosivi
Pressione e temperatura max ammissibili :
40 barg 50 °C / 23,8 400 °C temp. min. -20°C

APPLICATIONS

Steam, superheated water, water, oil and non corrosive fluids.
Maximum allowable pressure and temperature :
40 barg 50 °C / 23,8 400 °C temp. min. -20°C

MATERIALI

Descrizione	
Corpo e coperchio	Acciaio Carbonio 1.0619
Sede	X12Cr13 1.4006
Plug	X20Cr13 1.4021
Albero	X8CrNiS 18-9 1.4305
Soffietto	X8CrNiMo Ti-17-12-2
Premistoppa sic.	Grafite Pura
Soffietto	X8CrNiMo Ti-17-12-2
Guarnizione corpo	AISI 304 + Grafite
Prigionieri e Dadi	A2-70
Volantino	Acciaio verniciato

MATERIALS

Description	
Body and bonnet	Carbon Steel 1.0619
Seat	X12Cr13 1.4006
Plug	X20Cr13 1.4021
Stem	X8CrNiS 18-9 1.4305
Bellows	X8CrNiMo Ti-17-12-2
Safety Packing	Pure Graphite
Bellows	X8CrNiMo Ti-17-12-2
Body gasket	Graphite + NiCr
Stud Bolts and Nuts	A2-70
Handwheel	Painted steel

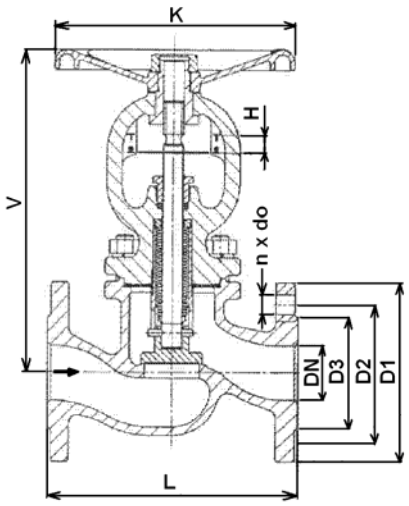
CONNESSIONI

EN 1092-1 PN 40 Form B

CONNECTIONS

EN 1092-1 PN 40 Form B

Dimensioni di ingombro in mm e pesi in Kg. - Dimensions mm and weight Kg.



DN	L	V	H	D1	D2	D3	n x do	K	KV m3/h	Kg
15	130	189	6	95	65	45	4x14	125	4,3	4,3
20	150	189	6	105	75	58	4x14	125	7,0	5,1
25	160	189	6	115	85	68	4x14	125	11,0	5,8
32	180	220	10	140	100	78	4x18	150	17,5	9,5
40	200	220	10	150	110	88	4x18	150	27,0	9,8
50	230	295	16,5	165	125	102	4x18	200	47,0	17,5
65	290	295	16,5	185	145	122	8x18	200	68,0	20,5
80	310	368	25	200	160	138	8x18	300	116	34,0
100	350	368	25	235	190	162	8x22	300	162	44,0
125	400	523	40	270	220	188	8x26	400	250	77,0
150	480	523	40	300	250	218	8x26	400	364	110

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INDICATORI DI PASSAGGIO
SIGHT GLASSES

IF150/I/E	
12	2013





TIPO / Type IF150/1

Corpo in bronzo PN16 a 1 cristallo
Bronze body PN 16 single glass

TIPO / Type IF150/2

Corpo in bronzo PN16 a 2 cristalli
Bronze body PN 16 double glass

IMPIEGHI
Condensa
Pressione e temperatura max ammissibili :
16 barg -10 / +120 °C … 12,8 barg – 200 °C

MATERIALI

Corpo	Bronzo UNI 7013-72
Coperchio	Bronzo UNI 7013-72
Cristallo	Temperato calcio sodico ≤ 180 °C
Guarnizione corpo	Grafite

CONNESSIONI
Filettate GAS femmina UNI-ISO 7/1 Rp

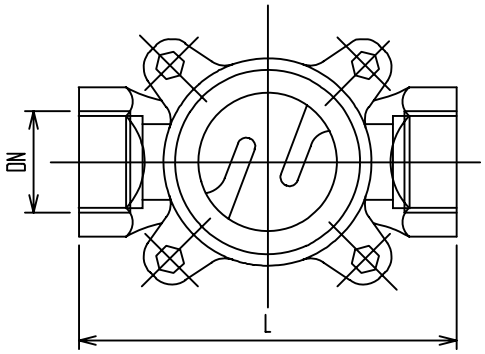
APPLICATIONS
Condensate
Max allowable pressure and temperature :
16 barg -10 / +120 °C …12,8 barg – 200 °C

MATERIALS

Body	Bronze UNI 7013-72
Cover	Bronze UNI 7013-72
Glass	Tempered sodium calcium ≤ 180 °C
Body gasket	Graphite

CONNECTIONS
UNI-ISO 7/1 Rp BSP female Screwed

Dimensioni di ingombro mm e pesi Kg.



Tipo / Type **IF150/1 – IF150/2**

Ø		3/8 “	1/2 “	3/4 “	1 “	1.1/4”	1.1/2 “	2 “
L		95	95	105	105	130	135	165
Peso Weight	IF150/1	0,70	0,75	0,95	1,00	1,70	2,00	3,35
Peso Weight	IF150/2	1,30	1,35	1,50	1,70	2,50	2,80	5,00

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INDICATORI DI PASSAGGIO
SIGHT GLASSES

IF1640600/I/E	
12	2013

CE



TIPO / Type IF16/2
Corpo in ghisa G25 PN16 a 2 cristalli
Cast iron body G25 PN 16 double glass

TIPO / Type IF40/2
Corpo in acciaio carbonio
ASTM A216 WCB PN25 a 2 cristalli
Steel body ASTM A216 WCB
PN25 double glass

TIPO / Type IF600/2
Corpo in acciaio inox CF8M
PN25 a 2 cristalli
S.S CF8M body PN25 double glass

IMPIEGHI
Condensa
Pressione e temperatura max ammissibili :
IF16/2 16 barg - 120 °C / 12,8 barg – 200 °C
IF40/2 – IF600/2 25 barg – 37°C / 10 – 320 °C

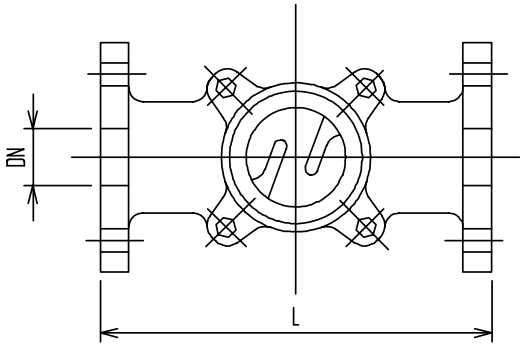
CONNESSIONI
IF16/2 EN 1092-1 PN 16 Form B
IF40/2 – IF600/2 EN 1092-1 PN 25 Form B

MATERIALI	IF16/2	IF40/2	IF600/2
Corpo	EN GJL 250	A216 WCB	CF8M
Coperchio	EN GJL 250	A216 WCB	CF8M
Cristallo	Temperato calciosodico ≤ 180 °C A richiesta boro silicato ≤ 280 °C		
Guarnizione corpo	Grafite		

APPLICATIONS
Condensate
Maximum allowable pressure and temperature :
IF16/2 16 barg - 120 °C / 12,8 barg – 200 °C
IF40/2 – IF600/2 25 barg – 37°C / 10 – 320 °C

CONNECTIONS
IF16/2 EN 1092-1 PN 16 Form B
IF40/2 – IF600/2 EN 1092-1 PN 25 Form B

MATERIALS	IF16/2	IF40/2	IF600/2
Body	EN GJL 250	A216 WCB	CF8M
Cover	EN GJL 250	A216 WCB	CF8M
Glass	Tempered calcium sodium ≤ 180 °C On request boron silicate ≤ 280 °C		
Body gasket	Graphite		



Dimensioni di ingombro mm e pesi (P) Kg

Tipo / Type IF16/2

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	130	150	160	180	200	230	290	310	350	400	480	600
P W	3	3,5	4	6	6,5	9	17	18	23	50	63	120

Dimensions mm and weights (W) Kg

Tipo / Type IF 40/2 – IF600/2

DN	15	20	25	32	40	50	65	80	100	125	150	200
L	130	150	160	180	200	230	290	310	350	400	480	600
P W	3	4	5	6,5	7,3	10,5	17	20	26,5	52	68	125

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VALVOLE MANUALI CON CORPO A FARFALLA
BUTTERFLY HANDLEVER VALVES
WAFER & LUG

BWLA/IE	
03	2014

CON LEVA MANUALE A 10 POSIZIONI
10 POSITIONS HANDLEVER

CE





TIPO **BWA** WAFER

corpo ghisa PN 10 / 16
cast iron body PN 10 / 16

TIPO **BLA** LUG

corpo ghisa PN 16
cast iron body PN 16

DESCRIZIONE

Le valvole manuali a farfalla BWA – BLA sono del tipo a farfalla con corpo wafer e lug.
Il disco in AISI 316 garantisce una perfetta tenuta in classe VI° sull'anello di tenuta EPDM.
Particolarmente compatte sono manovrate con una leva a 10 posizioni con rilascio a molla.

DESCRIPTION

Butterfly manual valves type BWA – BLA are with wafer and lug body.
The s.s. AISI 316 disc makes a perfect tightness class VI° on EPDM seal.
Very compact are moved by a 10 positions handlever with safety spring.

DIAMETRI NOMINALI : dal DN 40 al DN 300
NOMINAL DIAMETERS : from DN 40 to DN 300

ATTACCHI CORPO : Flangiati PN 10 / 16 WAFER - PN 16 LUG
BODY CONNECTIONS : Flanged PN 10 / 16 WAFER - PN 16 LUG

CONDIZIONI LIMITE DI IMPIEGO :
MAX WORKING CONDITIONS :

- Massima press. di ingresso e temperatura : 16 bar 130 °C
- Max inlet pressure and temperature : 16 bar 130 °C

TIPI DI MATERIALE GRUPPO CORPO :
BODY MATERIALS TYPE:

- **Ghisa/Cast Iron EN GJL-250 PN 10 / 16**
- **Ghisa Sferoidale/SG Iron EN-JIS400-15 (a richiesta)**
- **Acc. Carbonio/Carbon Steel ASTM A316 WCB (a richiesta)**
- **Acc. Inox/St.St. 1.4408 (a richiesta)**

Disco / Disc AISI 316
Alberi / Shaft AISI 416
Elastomero / elastomer EPDM (a richiesta BUNA o PTFE)

TIPOLOGIA CORPO : Passaggio Totale
BODY : Total Bore

TIPI DI OTTURATORE : A Disco
PLUG : Disc

TENUTA STELO :
STEM PACKING :

- EPDM ≤ 130 °C

CARATTERISTICHE TECNICHE LEVA DI COMANDO:
HAND LEVER TECHNICAL CHARACTERISTICS:

- Leva manuale DN 40 / DN 200 In alluminio (*) : 10 posizioni rotazione 90 ° con disco in alluminio o in acciaio zincato
- Alluminium hand lever DN 40 / DN 200 (*) : 10 positions rotation 90° with alluminium or galvanized steel disc

(*) Volantino ad ingranaggio DN 250 / DN 300

(*) Hand wheel DN 250 / DN 300

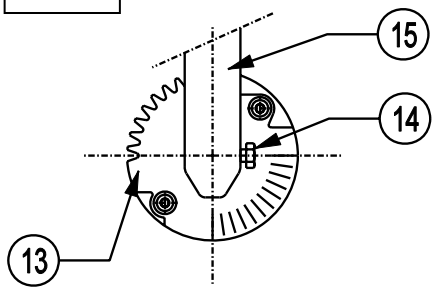
CONFLOW s.p.a.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

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Fax 039/654.018
e-mail : vendite@conflow.it
www.conflow.it

Elenco componenti e materiali – Components and material list

Fig. 1

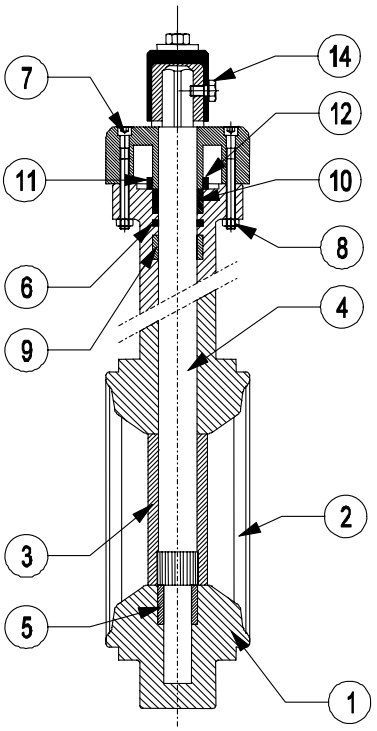


ELENCO COMPONENTI (fig. 1)

1. Corpo
2. Guarnizioni disco/farfalla
3. Disco / Farfalla
4. Albero
5. Boccola albero inferiore
6. Guarnizione albero
7. Viti di serraggio
8. Dadi di serraggio
9. Boccola albero intermedia
10. Boccola albero superiore
11. Rondella
12. Sieger
13. Corona superiore (indicatore di posizione)
14. Vite di bloccaggio leva
15. Leva (DN40/DN200) – Volantino (DN250-DN200)

ELENCO MATERIALI (fig. 1)

1. Ghisa EN-GJL-250
2. EPDM
3. CF8M 1.4408
4. AISI 416
5. PTFE
6. EPDM
7. Acciaio Zincato DIN 993
8. Acciaio Zincato DIN 993
9. PTFE
10. PTFE
11. Acciaio
12. Acciaio
13. Alluminio
14. Acciaio Zincato DIN 993
15. Alluminio

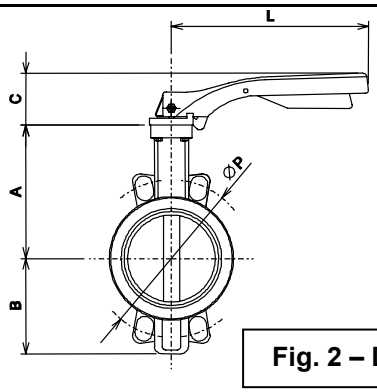


COMPONENTS LIST (fig. 1)

1. Body
2. Disc / butterfly gaskets
3. Disc / butterfly
4. Shaft
5. Lower shaft bush
6. Shaft gasket
7. Locking screws
8. Locking nuts
9. Middle shaft bush
10. Upper shaft bush
11. Washer
12. Sieger
13. Upper crown (position indicator)
14. Lever locking screw
15. Lever (DN40/DN200) – hand wheel (DN250-DN200)

MATERIALS LIST (fig. 1)

1. Cast Iron EN-GJL-250
2. EPDM
3. CF8M 1.4408
4. AISI 416
5. PTFE
6. EPDM
7. Galvanized steel DIN 993
8. Galvanized steel DIN 993
9. PTFE
10. PTFE
11. Steel
12. Steel
13. Alluminium
14. Galvanized steel DIN 993
15. Alluminium



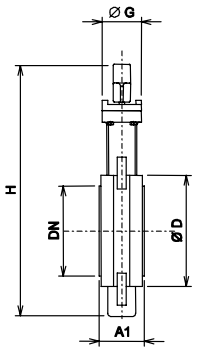
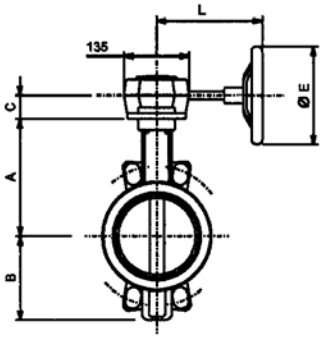
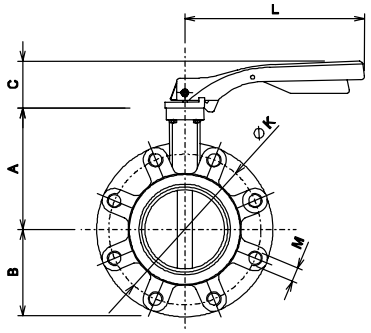
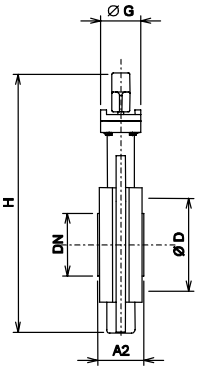


Fig. 2 – DN 40 / DN 200

Fig. 3 – DN 250 / DN 300







Dimensioni in mm - Dimensions (fig. 2 – fig.3)

DN	40	50	65	80	100	125	150	200	250	300
H	223	282	298	321	355	382	436	490	485	545
A	130	137	142	158	180	192	215	242	280	310
B	61	77	88	95	107	122	144	171	205	235
C	68	68	68	68	68	68	77	77	-	-
Ø D	82	95	109	127	150	180	207	260	315	370
Ø P	110	125	145	160	180	210	240	295	350	400
Ø K	110	125	145	160	180	210	240	295	350	400
Ø G	65	65	65	65	65	65	90	90	30 (fig.3)	30 (fig.3)
A1 / A2	33	43	46	46	52	56	56	60	68	78
Ø E	-	-	-	-	-	-	-	-	250	250
L	185	185	185	185	185	275	275	275	240	240
M – PN 16	N°4 M16	N°4 M16	N°4 M16	N°8 M16	N°8 M16	N°8 M16	N°8 M20	N°12 M20	N°12 M24	N°12 M24

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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VALVOLE A SFERA IN ACCIAIO CARBONIO
CARBON STEEL BALL VALVES

VSCVL10/I/E	
02	2017



TIPO / Type VSCVL10

Acciaio carbonio ASTM A105
EN 1092-1 PN16 wafer passaggio pieno
DN15 -150

Carbon steel ASTM A105 PN 16
EN 1092-1 PN16 wafer full bore
DN15 -150

PED 2014/68/UE CE

IMPIEGHI
Vapore, condensa, acqua, gas e fluidi non agressivi
Pressione e temperatura max ammissibili :
16 barg 120 °C / 13,4 barg 180 °C temp. min. impiego -20°C

APPLICATIONS
Steam, condensate, water, gas e non aggressive fluids
Maximum allowable pressure and temperature :
16 barg 120 °C / 13,4 barg 180 °C min. operating temp. -20°C

CONNESSIONI
Flangiate EN1092-1 PN 16 wafer

CONNECTIONS
Flanged EN1092-1 PN 16 wafer

MATERIALI

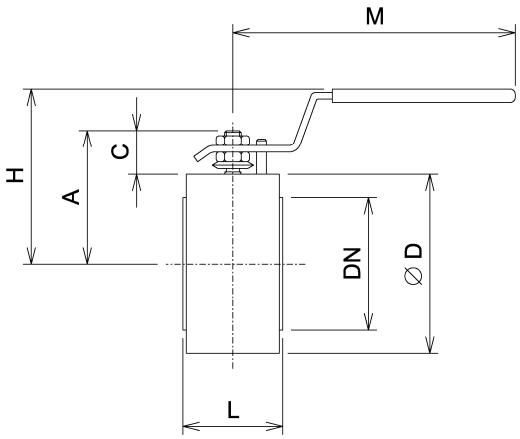
Corpo	ASTM A105
Stelo	AISI 316
Sfera	AISI 304
Seggio	PTFE
Guarnizione corpo	RPTFE
Guarnizione stelo	RPTFE
Leva	Acciaio zincato

MATERIALS

Body	ASTM A 105
Stem	AISI 316
Ball	AISI 304
Seat	PTFE
Body gasket	RPTFE
Stem gasket	RPTFE
Lever	Zinc plated steel

Dimensioni di ingombro mm e pesi Kg

Dimensions mm and weights Kgs



DN	L +/- 1,5 mm	Ø D	H	A	C	M	Kg
15	35	88	78	50	19	150	1,5
20	42	98	87	60	23	185	2
25	46	108	91	65	23	185	2,7
32	55	128	106	80	29	280	3,8
40	66	138	111	90	30	280	6,5
50	72	148	120	96	32	280	8
65	98	168	157	132	53	380	15
80	120	188	161	139	48	380	20
100	140	220	181	160	55	480	30
125	177	250	205	180	65	480	47
150	210	280	220	200	68	480	69

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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Web: www.conflow.it

VALVOLE A SFERA IN ACCIAIO INOX
STAINLESS STEEL BALL VALVES

VSV71/I/E	
02	2017



TIPO / Type VSV71

Acciaio inox CF8M 1.4408
EN 1092-1 PN16 wafer passaggio pieno
DN15 -100

Stainless steel CF8M 1.4408
EN 1092-1 PN16 wafer full bore
DN15 -100

PED 2014/68/UE CE

IMPIEGHI
Vapore, condensa, acqua, gas e fluidi agressivi
(verificare comunque la compatibilità del materiale)
Pressione e temperatura max ammissibili :
16 barg 120 °C / 13,4 barg 180 °C temp. min. impiego -20°C

APPLICATIONS
Steam, condensate, water, gas and aggressive fluids
(Still check the material compatibility)
Maximum allowable pressure and temperature :
16 barg 120 °C / 13,4 barg 180 °C min. operating temp. -20°C

CONNESSIONI
Flangiate EN1092-1 PN 16 wafer

CONNECTIONS
Flangiate EN1092-1 PN 16 wafer

MATERIALI

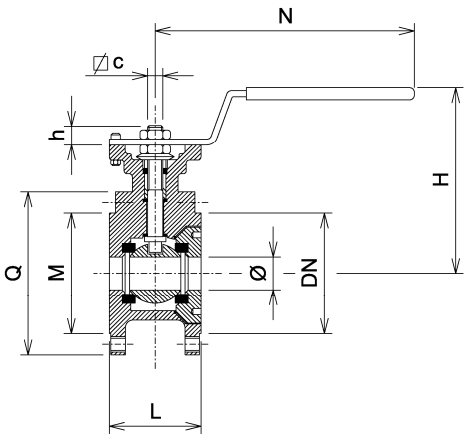
Corpo	ASTM CF8M 1.4408
Stelo	AISI 316
Sfera	AISI 316
Seggio	PTFE+15% fibra vetro
Guarn. Corpo	RPTFE
Guarn. Stelo	RPTFE
Leva	Acciaio inox AISI 304

MATERIALS

Body	ASTM CF8M 1.4408
Stem	AISI 316
Ball	AISI 316
Seat	PTFE+15% Fiber glass
Body gasket	RPTFE
Stem gasket	RPTFE
Lever	Stainleess steel AISI 304

Dimensioni di ingombro mm e pesi Kg

Dimensions mm and weights Kgs



DN	Ø	L	M	Q	h	H	N	c	ISO	Kg
15	15	36	65	95	9,5	89	115	9	F03/04	1,2
20	20	38	75	105	9,5	94	115	9	F03/04	1,7
25	25	50	85	115	10	90	140	11	F04/05	2
32	32	53	100	140	12,5	100	140	11	F04/05	3
40	40	65	110	150	14,5	115	200	14	F05/07	4,5
50	50	78	125	165	14	125	200	14	F05/07	5,8
65	65	98	145	185	17	140	255	17	F07/10	10
80	76	118	160	200	16	145	255	17	F07/10	13
100	94	140	180	220	19	175	300	17	F07/10	22

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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Web: www.conflow.it

VALVOLE A SFERA IN ACCIAIO CARBONIO
CARBON STEEL BALL VALVES

VS1010/I/E	
12	2013



CE

TIPO / Type **VS1010**

Acciaio carbonio ASTM A105
PN40 ≤ DN 80
PN16 ≤ DN 150

Carbon steel ASTM A105 PN 16
PN40 ≤ DN 80
PN16 ≤ DN 150

IMPIEGHI

Vapore, condensa, acqua, gas e fluidi non agressivi
Pressione e temperatura max ammissibili :
≤ DN 80 40 barg -20 / +60 °C …5 barg 220°C
≤ DN 150 16 barg -20 / +60 °C …5 barg 220°C

CONNESSIONI

Flangiate EN1092-1 PN 16/40 ≤ DN 80
Flangiate EN1092-1 PN 16 ≤ DN 150

MATERIALI

Corpo	ASTM A105
Stelo	AISI 410
Sfera	AISI 304
Guarnizione corpo	PTFE

APPLICATIONS

Steam, condensate, water, gas e non aggressive fluids
Maximum allowable pressure and temperature :
≤ DN 80 40 barg -20 / +60 °C …5 barg 220°C
≤ DN 150 16 barg -20 / +60 °C …5 barg 220°C

CONNECTIONS

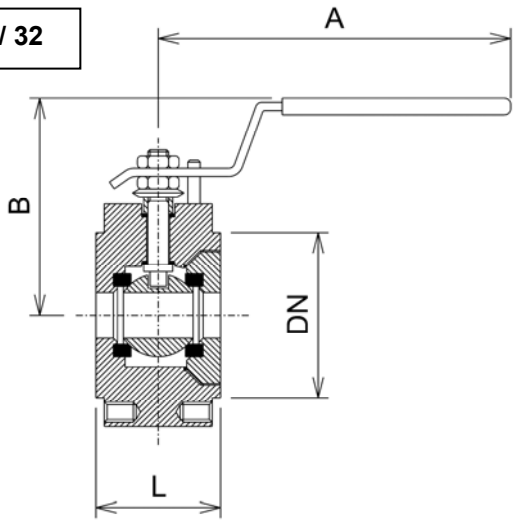
Flanged EN1092-1 PN 16/40 ≤ DN 80
Flanged EN1092-1 PN 16 ≤ DN 150

MATERIALS

Body	ASTM A 105
Stem	AISI 410
Ball	AISI 304
Body gasket	PTFE

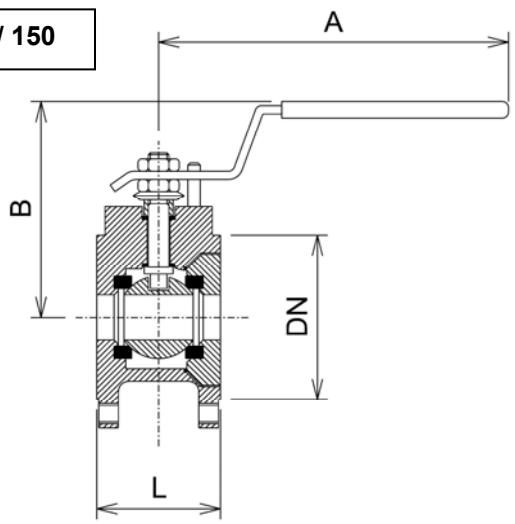
Dimensioni di ingombro mm e pesi Kg

DN 15 / 32



Dimensions mm and weights Kgs

DN 40 / 150



DN	15	20	25	32	40	50	65	80	100	125	150
A	150	150	185	185	275	275	380	380	500	500	800
B	84	87	95	99	118	126	143	149	185	200	273
L	36	39	43	51	63	83	107	120	152	180	243
Peso Weight	1,2	1,7	2	3	4,5	5,8	10	13	22	30	69

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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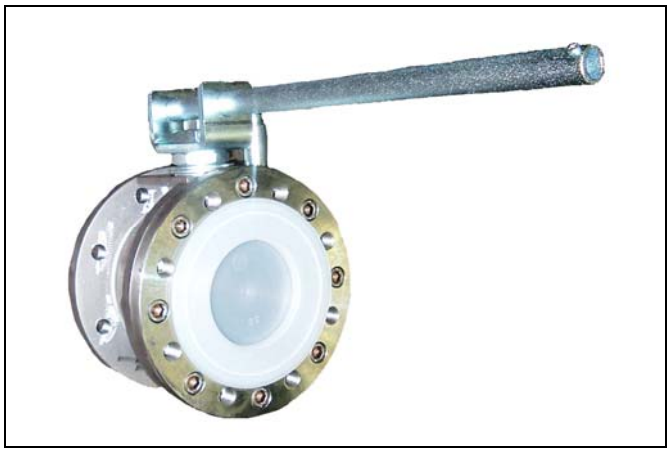
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VALVOLE A SFERA IN ACCIAIO INOX
STAINLESS STEEL BALL VALVES

VS1010X/I/E	
12	2013



CE

TIPO / Type VS 1010X

Acc. inox ASTM A351 CF8M PN 16
PN40 ≤ DN 80
PN16 ≤ DN 150

St. steel ASTM A351 CF8M PN 16
PN40 ≤ DN 80
PN16 ≤ DN 150

IMPIEGHI

Vapore, condensa, acqua, gas e fluidi non agressivi
Pressione e temperatura max ammissibili :
≤ DN 80 40 barg -20 / +60 °C …5 barg 220°C
≤ DN 150 16 barg -20 / +60 °C …5 barg 220°C

APPLICATIONS

Steam, condensate, water, gas e non aggressive fluids
Maximum allowable pressure and temperature :
≤ DN 80 40 barg -20 / +60 °C …5 barg 220°C
≤ DN 150 16 barg -20 / +60 °C …5 barg 220°C

CONNESSIONI

Flangiate EN1092-1 PN 16/40 ≤ DN 80
Flangiate EN1092-1 PN 16 ≤ DN 150

CONNECTIONS

Flanged EN1092-1 PN 16/40 ≤ DN 80
Flanged EN1092-1 PN 16 ≤ DN 150

MATERIALI

Corpo	ASTM A351 CF8M
Stelo	AISI 316
Sfera	AISI 316
Guarnizione corpo	PTFE

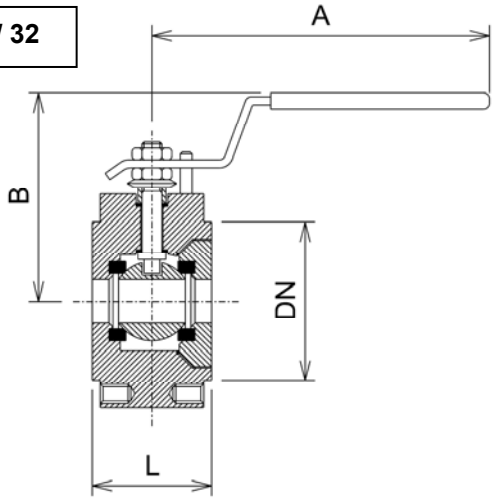
MATERIALS

Body	ASTM A351 CF8M
Stem	AISI 316
Ball	AISI 316
Body gasket	PTFE

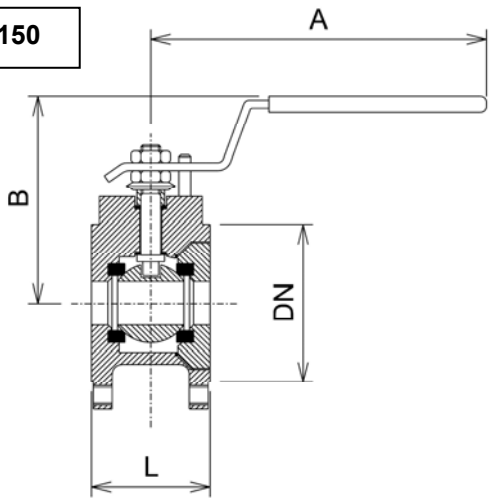
Dimensioni di ingombro mm e pesi Kg

Dimensions mm and weights Kgs

DN 15 / 32



DN 40 / 150



DN	15	20	25	32	40	50	65	80	100	125	150
A	150	150	185	185	275	275	380	380	500	500	800
B	84	87	95	99	118	126	143	149	185	200	273
L	36	39	43	51	63	83	107	120	152	180	243
Peso Weight	1,2	1,7	2	3	4,5	5,8	10	13	22	30	69

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VALVOLE MANUALI CORPO A SFERA IN TRE PEZZI - PASSAGGIO TOTALE
THREE PIECES BALL BODY MANUAL VALVES - FULL BORE

VS2200/I/E	
12	2009



TIPO / TYPE VS2200 CE

Acciaio Inox AISI 316
Stainless Steel AISI 316

DIAMETRI NOMINALI : dal Ø 1/2 " al Ø 4 "

ATTACCHI CORPO : Filettati ISO 7 Rp
Tasca a saldare S.W. (a richiesta)

CONDIZIONI LIMITE DI IMPIEGO :
- Massima press. di ingresso e temperatura : 71 bar 210 °C

TIPI DI MATERIALE GRUPPO CORPO:
- **Acciaio inox 1.4408 (CF8M)**
  interni in acc. inox AISI 316

TIPOLOGIA CORPO : Passaggio Totale

TIPI DI OTTURATORE :
- A SFERA

TENUTA STELO :
- PTFE ≤ 210 °C

NOMINAL DIAMETERS : from Ø 1/2 " to Ø 4 "

BODY CONNECTIONS : Screwed ISO 7 Rp
Socket Welding S.W. (on request)

LIMIT WORKING CONDITIONS :
- Max inlet pressure and temperature : 71 bar 210 °C

BODY MATERIALS:
- **Stainless Steel 1.4408 (CF8M)**
  Internal parts stainless steel AISI 316

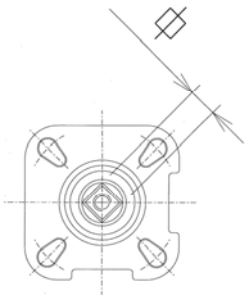
BODY TYPE : Full Bore

PLUGS :
- BALL

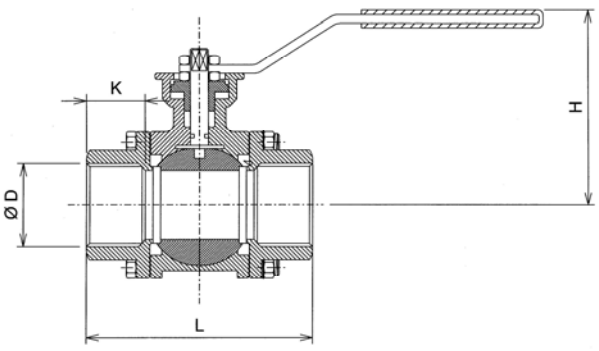
STEM PACKING :
- PTFE ≤ 210 °C

DIMENSIONI IN mm

DIMENSIONS IN mm



Foratura ISO



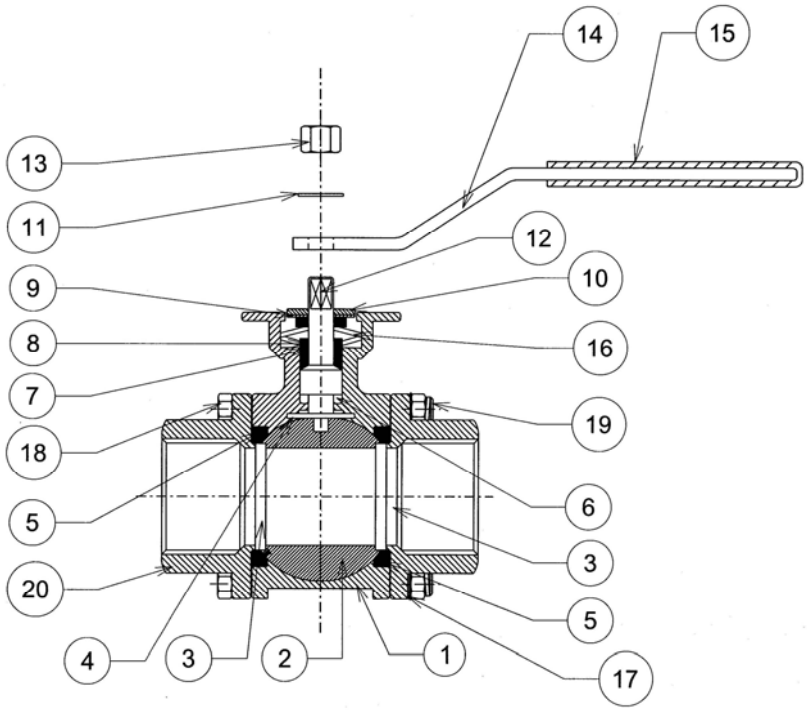
Ø D	L	H	K	⌑	ISO	Peso / Weight Kg
1/2"	75	63	14	9	F03	0.48
3/4"	80	70	15	11	F04/F05	0.90
1"	90	73	18	11	F04/F05	1.21
1.1/4"	110	88	22	14	F05/F07	1.94
1.1/2"	120	93	22	14	F05/F07	2.70
2"	140	101	30	14	F05/F07	3.72
2.1/2"	185	143	30	17	F07/F10	9.20
3"	205	154	32	17	F07/F10	13.6
4"	240	137	39	17	F07/F10	21.4

CONFLOW s.p.a.

COMPANY
WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
=ISO 9001 : 2000=

Via Lecco, 69/71
20041 AGRATE BRIANZA (MI)
Tel. 039/651.705 - 650.397
Fax 039/654.018
e-mail:vendite@conflow.it
e-mail:sales@conflow.it
www.conflow.it

Elenco componenti e materiali / Components list and materials



Elenco componenti	Elenco materiali
1. Corp o centrale	1. Acciaio Inox 1.4408 (CF8M)
2. Sfera	2. Acciaio Inox AISI316
3. Sedi	3. PTFE
4. Rondella di spinta	4. PTFE
5. Guarniz ioni corpo	5. PTFE
6. O-Ring	6. Viton
7. Pacchetto premistoppa	7. PTFE
8. Boccola	8. Acciaio Inox AISI304
9. Rondella a dentatura esterna	9. Acciaio Inox AISI304
10. Disco di bloccaggio	10. Acciaio Inox AISI304
11. Rosetta grower	11. Acciaio Inox AISI304
12. Stelo	12. Acciaio Inox AISI316
13. Dado di bloccaggio	13. Acciaio Inox AISI304
14. Leva di comando	14. Acciaio Inox AISI304
15. Rivestimento leva di comando	15. Plastica
16. Molla a tazza	16. Acciaio Inox AISI301
17. Rosetta grower	17. Acciaio Inox AISI304
18. Dadi di serraggio	18. Acciaio Inox AISI304
19. Viti di serraggio	19. Acciaio Inox AISI304
20. Terminali del corpo	20. Acciaio Inox 1.4408 (CF8M)

Components list	Materials
1. Central Body	1. Stainless Steel 1.4408 (CF8M)
2. Ball	2. Stainless Steel AISI316
3. Seats	3. PTFE
4. Thrust washer	4. PTFE
5. Body Gaskets	5. PTFE
6. O-Ring	6. Viton
7. Stem Packing	7. PTFE
8. Gland	8. Stainless Steel AISI304
9. Tab washer	9. Stainless Steel AISI304
10. Stopper	10. Stainless Steel AISI304
11. Spring washer	11. Stainless Steel AISI304
12. Stem	12. Stainless Steel AISI316
13. Nut	13. Stainless Steel AISI304
14. Handle	14. Stainless Steel AISI304
15. Handle cover	15. Plastic
16. Disc springs	16. Stainless Steel AISI301
17. Spring washer	17. Stainless Steel AISI304
18. Locking nuts	18. Stainless Steel AISI304
19. Locking screws	19. Stainless Steel AISI304
20. Terminals body	20. Stainless Steel 1.4408 (CF8M)

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VALVOLE MANUALI A SPILLO monoblocco
NEEDLE MANUAL VALVE

RS30/I/E	
12	2013



TIPO / Type RS 3000B

ACCIAIO ASTM A105 3000 PSI
3000 PSI Carbon steel ASTM A105

TIPO / Type RS 3000C

ACC.INOX AISI 316 3000 PSI
3000 PSI st. steel AISI 316

IMPIEGHI

Vapore, condensa, acqua e fluidi compatibili
Pressione e temperatura max ammissibili :
Tipo RS 3000 (1) 232 barg 0 / +180 °C

APPLICATIONS

Steam,condensate, water and compatible fluids.
Maximum allowable pressure and temperature :
Type RS 3000 (1) 232 barg 0 / +180 °

CONNESSIONI

Standard	filettati GAS femmina UNI-ISO 7/1 Rp
A richiesta	filettati NPT femmina ANSI B1.20.1

CONNECTIONS

Standard	UNI-ISO 7/1 Rp BSP female Screwed
On request	ANSI B1.20.1 NPT female Screwed

MATERIALI

Descrizione	Tipo 3000B	Tipo 3000C
Corpo	ASTM A105	AISI 316
Sede integrale	ASTM A105	AISI 316
Otturatore – stelo	F6	AISI 316
Guarnizione corpo	Klingerite	Klingerite (2)
Premistoppa	Grafite	Grafite (2)

(1) A richiesta serie 6000 - (2) A richiesta PTFE

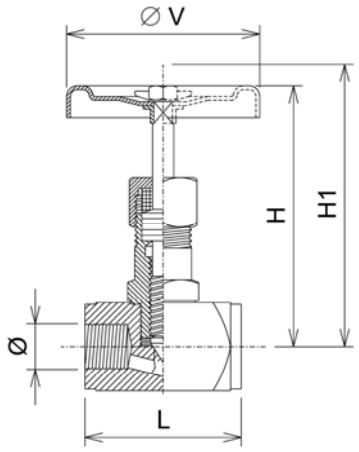
MATERIALS

Description	Tipo 3000B	Tipo 3000C
Body	ASTM A105	AISI 316
Integral seat	ASTM A105	AISI 316
Plug – stem	F6	AISI 316
Body gasket	Klingerite	Klingerite (2)
Packing	Graphite	Graphite (2)

(1) On request 6000 series - (2) A richiesta PTFE

Dimensioni di ingombro mm e pesi Kg.

Dimensions mm and weights Kgs



Ø	L	H	H1	Ø V	Peso / Weight
1/4"	61	100	110	70	0,55
3/8"	61	100	110	70	0,55
1/2"	70	100	110	70	0,75
3/4"	78	115	130	80	1,10
1"	90	145	160	90	2,0

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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

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www.conflow.it

RUBINETTI PORTAMANOMETRO
MALE GAUGE COCKS

RPS30/I/E	
12	2013



Con tappo di spurgo e flangetta di controllo
With drain plug and flange for pressure gauge controlling

TIPO / Type **RPS 3000B**

ACCIAIO ASTM A105 3000 PSI
3000 PSI Carbon steel ASTM A105

TIPO / Type **RPS 3000C**

ACC.INOX AISI 316 3000 PSI
3000 PSI st.steel AISI 316

IMPIEGHI
Vapore, condensa, acqua e fluidi compatibili
Pressione e temperatura max ammissibili :
Tipo RS 3000 232 barg 0 / +180 °C

APPLICATIONS
Steam,condensate, water and compatible fluids.
Maximum allowable pressure and temperature :
Type RS 3000 232 barg 0 / +180 °

CONNESSIONI
Standard Filettati Maschio/Femmina GAS UNI-ISO 7/1 Rp
A richiesta Filettati Maschio/Femmina NPT ANSI B1.20.1

CONNECTIONS
Standard UNI-ISO 7/1 Rp BSP male / female Screwed
On request ANSI B1.20.1 NPT male / female Screwed

MATERIALI

Descrizione	Tipo 3000B	Tipo 3000C
Corpo	ASTM A105	AISI 316
Sede integrale	ASTM A105	AISI 316
Otturatore – stelo	F6	AISI 316
Guarnizione corpo	Klingerite	Klingerite (2)
Premistoppa	Grafite	Grafite (2)

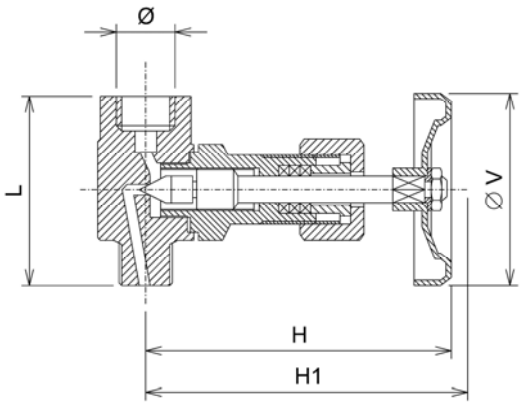
(2) A richiesta PTFE

MATERIALS

Description	Tipo 3000B	Tipo 3000C
Body	ASTM A105	AISI 316
Integral seat	ASTM A105	AISI 316
Plug – stem	F6	AISI 316
Body gasket	Klingerite	Klingerite (2)
Packing	Graphite	Graphite (2)

(2) A richiesta PTFE

Dimensioni di ingombro mm e pesi Kg. Dimensions mm and weights Kgs



Ø	L	H	H1	Ø V	Peso - Weight
1/4”	61	100	110	70	0,6
3/8”	61	100	110	70	0,7
1/2”	70	100	110	70	0,9

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www.conflow.it

MANOMETRI A MOLLA BOURDON RADIALI
BOURDON TUBE RADIAL GAUGES

MAN100/I/E	
07	2016



TIPO/Type MAN100

Conforme alla Direttiva : PED 2014/68/UE
Directive conformity : PED 2014/68/UE

Normativa di rifertimento : EN 837-1
Ref. normatives : EN 837-1

Codice di Sicurezza : S1 - EN 837-2
Safety Code : S1 - EN 837-2

Classe di Precisione : 1,6 secondo EN 837-1
Precision Class : 1,6 according - EN 837-1

Grado di Protezione : IP67 IEC 529
Protection Grade : IP67 IEC 529

DATI TECNICI

Campi di misura std

- 0 – 1 bar
- 0 – 2 bar
- 0 – 4 bar
- 0 – 6 bar – standard
- 0 – 10 bar – standard
- 0 – 16 bar – standard
- 0 – 25 bar – standard
- 0 – 40 bar
- 0 – 60 bar
- 0 – 100 bar
- 0 – 160 bar
- 0 – 250 bar
- 0 – 400 bar
- 0 – 600 bar

- Attacco filettato ISO7 – Rp ½" (gas cilindrico) lega di rame
  Passaggio interno 0,8 mm
- Cassa e Anello — Acc. Inox
- Vetro — Temperato
- Molla — Lega di rame
- Temperatura ambiente — -25 / +65 °C
- Max temp. fluido processo — 100 °C
- Peso — 0,4 Kg

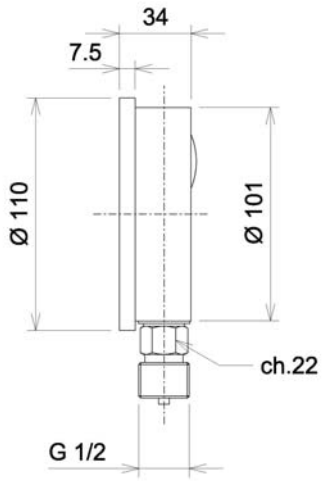
TECHNICAL DATA

Std pressure ranges

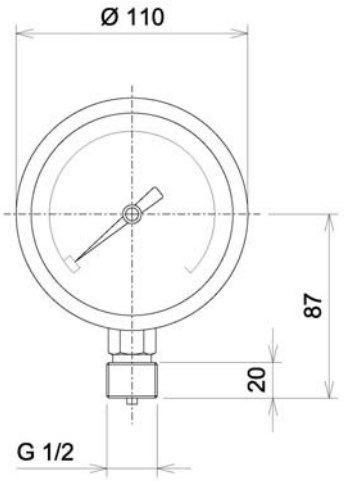
- 0 – 1 bar
- 0 – 2 bar
- 0 – 4 bar
- 0 – 6 bar – standard
- 0 – 10 bar – standard
- 0 – 16 bar – standard
- 0 – 25 bar - standard
- 0 – 40 bar
- 0 – 60 bar
- 0 – 100 bar
- 0 – 160 bar
- 0 – 250 bar
- 0 – 400 bar
- 0 – 600 bar

- ISO7 – Rp ½" screwed connection copper Alloy
  Internal passage 0,8 mm
- Case and Ring — Stainless Steel
- Glass — Tempered
- Bourdon tube — Copper Alloy
- Ambient Temperature — -25 / +65 °C
- Max fluid process temp. — 100 °C
- Weight — 0,4 Kg

DIMENSIONI (mm)



DIMENSIONS (mm)



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SERPENTINI
SIPHONS

RIC/I/E	
07	2016



RIC15OT ***RIC15X***

*TIPO/Type **RIC15OT***
Rame / Copper

*TIPO/Type **RIC15X***
AISI 316 / S.S. AISI 316

CE

Conformi alla Direttiva : PED 2014/68/UE
Directive conformity : PED 2014/68/UE

DATI TECNICI

- Attacco filettato ISO7 – Rp ½" (gas cilindrico)

- **Tipo RIC15OT**
- Materiale serpentino – Rame Cu999 zincato
- Materiale raccordi – Ottone CW6614N Zincato
- Temperatura di processo – 0 – 120 °C
- Max Pressione – 25 barg
- Peso – 0.13 Kg

- **Tipo RIC15X**
- Materiale serpentino – Acc. Inox AISI 316
- Materiale raccordi – Acc. Inox AISI 316
- Temperatura di processo – 0 – 350 °C
- Max Pressione – 50 barg
- Peso – 0.29 Kg

TECHNICAL DATA

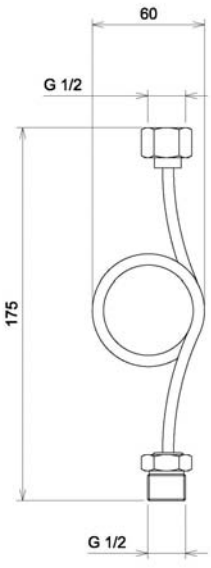
- ISO7 – Rp ½" screwed connection

- **Type RIC15OT**
- Siphon material – Copper Cu9999 galvanized
- Connection material – Brass CW6614N galvanized
- Process Temperature – 0-120 °C
- Maximum Pressure – 25 barg
- Weight – 0.13 Kg

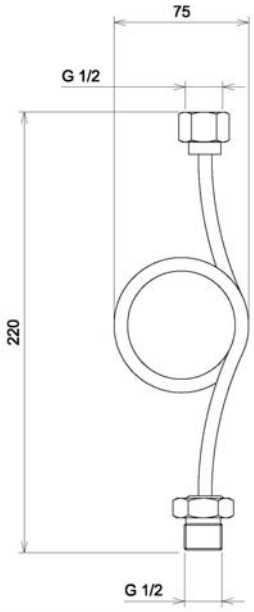
- **Type RIC15X**
- Siphon material – Stainless Steel AISI 316
- Connection material – Stainless Steel AISI 316
- Process Temperature – 0-350 °C
- Maximum Pressure – 50 barg
- Weight – 0.29 Kg

DIMENSIONI (mm)

RIC15OT



DIMENSIONS (mm)



RIC15X

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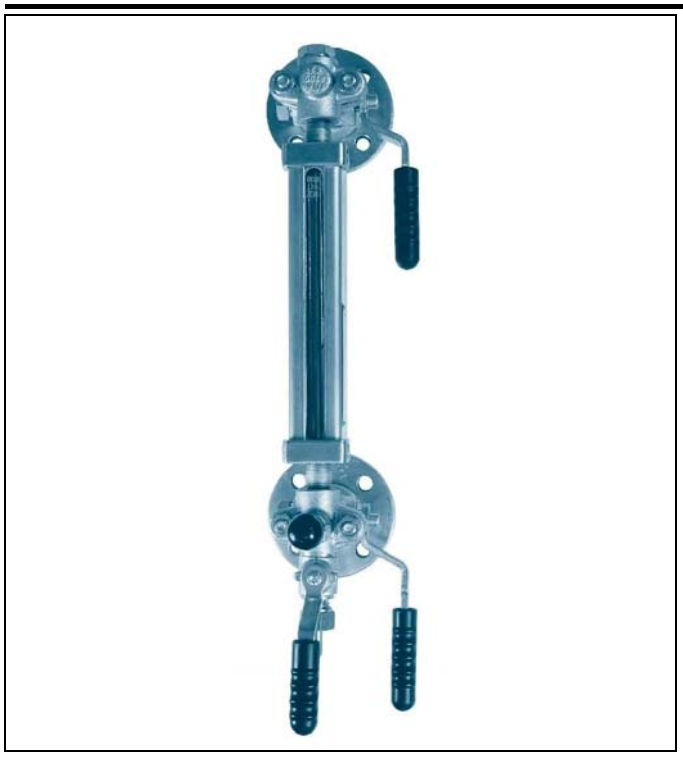
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INDICATORI DI LIVELLO A RIFLESSIONE
REFLECTION LEVEL INDICATORS

RBBRMB/I/E	
02	2017



TIPO / Type RMBB
Corpo in acciaio carbonio PN40
Carbon steel body PN40

TIPO / Type RMBC
Corpo in acciaio inox AISI 316 PN40
Stainlees steel body AISI 316 PN40

TIPO / Type RBBB
Corpo in acciaio carbonio PN40
Carbon steel body PN40

PED 2014/68/UE CE

IMPIEGHI
Liquidi
Pressione e temperatura max ammissibili :
RMBB - RMBC 15 barg - 202 °C
RBBB 6 barg – 165°C

CONNESSIONI
DN20 EN 1092-1 PN 16 Form B

ACCESSORI COMPRESI
Valvole di intercettazione
Valvola di scarico – dreno

MATERIALI	RMBB	RMBC	RBBB
Corpo	Acc. Carb.	AISI 316	Acc. Carb.
Vetro	boro silicato sp. 30 mm		
Guarnizione corpo	Grafite		
Bulloni	A193.B7 zincati		
Rubinetti	Acc. Carb.	AISI 316	Acc. Carb.

APPLICATIONS
Liquids
Maximum allowable pressure and temperature :
RMBB - RMBC 15 barg - 202 °C
RBBB 6 barg – 165°C

CONNECTIONS
DN 20 EN 1092-1 PN 16 Form B

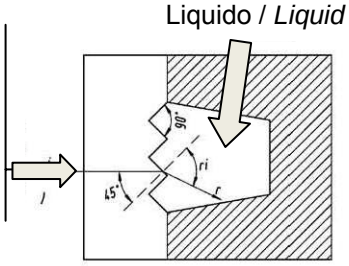
ACCESSORIES INCLUDED
Cock valves
Drain valve

MATERIALS	RMBB	RMBC	RBBB
Body	Carbon steel	S.S. AISI 316	Carbon steel
Glass	boron silicate 30 mm		
Body gasket	Graphite		
Bolts	A193.B7 galvanized		
Cock Valves	Carbon steel	S.S. AISI 316	Carbon steel

Liquido / *Liquid*

Raggi di luce dell'ambiente assorbiti (zona liquida nera)

Ambient light rays absorbed (black liquid zone)



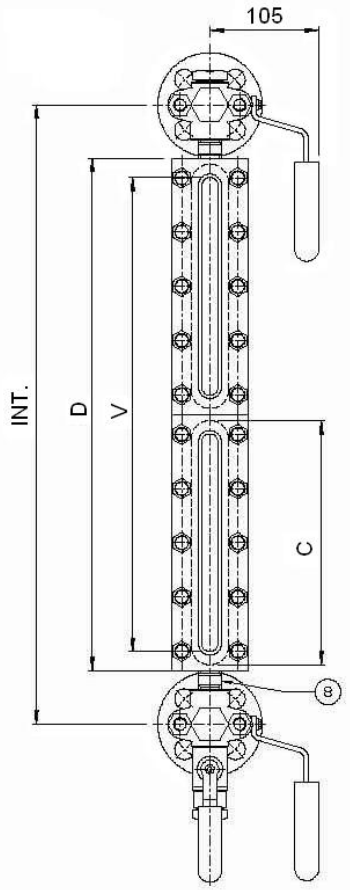
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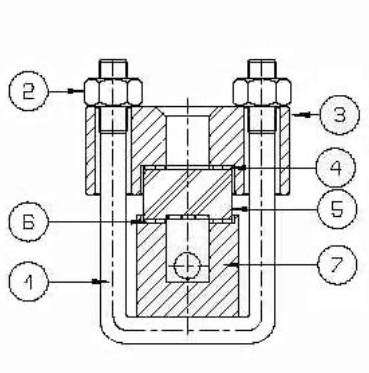
DIMENSIONI in mm e dettaglio interni **DIMENSIONS in mm and internal detail**

Tipo / *Type* **RMBB - RMBC**

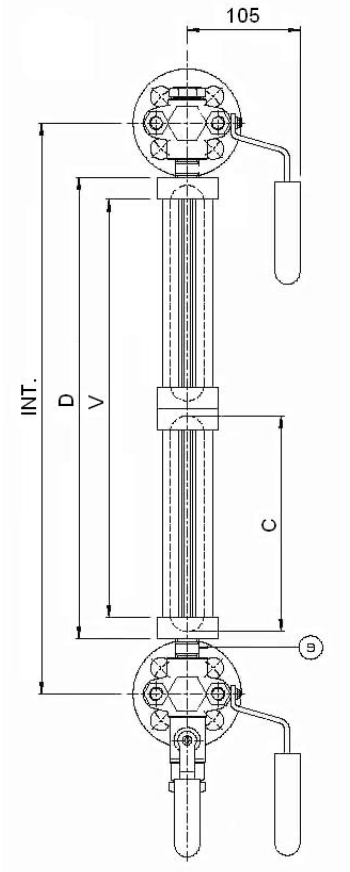


INT.	D	V	C
310	242	205	229
340	272	235	259
370	302	265	289

Rif.	Descrizione
1	Tirante
2	Dado
3	Coperchio
4	Guarnizione superiore
5	Vetro riflessione
6	Guarnizione inferiore
7	Corpo
8	Nipplo

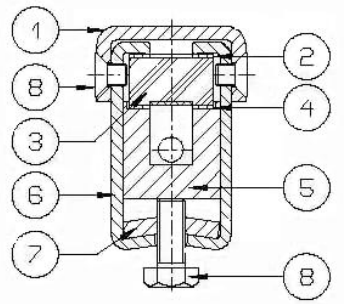


Tipo / *Type* **RBBB**



INT.	D	V	C
800	691	653	325
1000	889	851	290
1500	1387	1359	315

Rif.	Descrizione
1	Griffa di serraggio
2	Guarnizione superiore
3	Vetro riflessione
4	Guarnizione inferiore
5	Corpo
6	Spalla
7	Piastra di bloccaggio
8	Vite
9	Nipplo

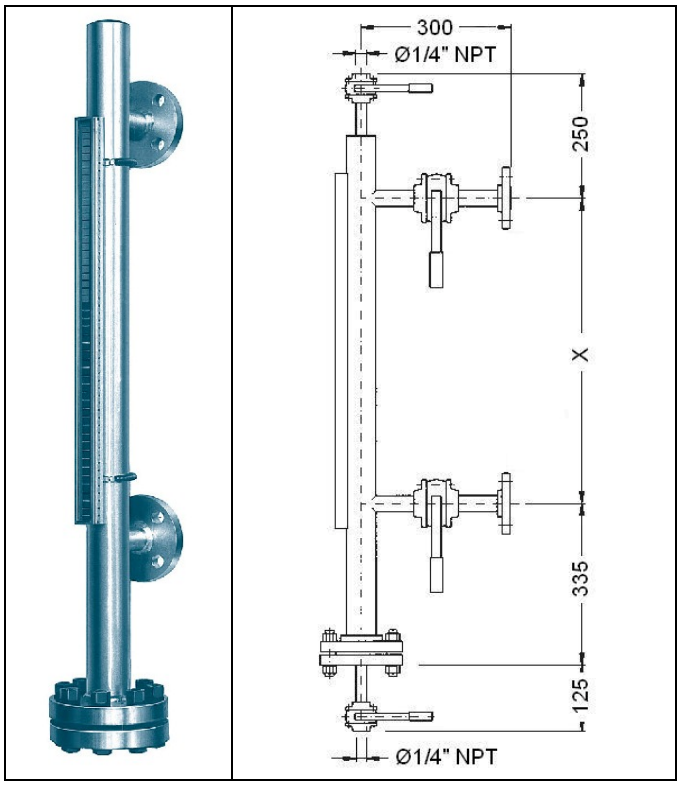


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INDICATORI DI LIVELLO MAGNETICI
MAGNETIC LEVEL INDICATORS

2016J2G/I/E	
03	2017



Serie / Series **2016**

Corpo in acciaio inox AISI 316 PN16
Stainlees steel body AISI 316 PN16

Descrizione
Un magnete permanente incorporato nel galleggiante , comanda gli elementi sensibili (facce bianche galleggiante in discesa, facce rosse galleggiante in salita) montati in una apposite custodia a tenuta stagna, facendoli ruotare su se stessi di 180°, in questo modo risulta evidente l'indicazione e quindi il livello del liquido.

Description
A permanent magnet incorporated in the float, controls the sensitive elements (white faces downhill float, red faces uphill float) mounted in a suitable watertight casing, by rotating about themselves through 180 °, in this way it is clear the indication and then the liquid level.

PED 2014/68/UE CE

IMPIEGHI
Liquidi p.s. min. 0,55 Kg/dm³
Pressione e temperatura max ammissibili :
2016J2. 16 barg 38 °C / 13 bar 200 °C
temperatura min. ammissibile – 20°C
Precisione +/- 5 mm

CONNESSIONI
DN20 EN 1092-1 PN 16 Form B

ACCESSORI COMPRESI
Valvole di intercettazione 3/4" AISI 316 opp. Acc. Carb.
Valvola di scarico – dreno 1/4" AISI 316 opp. Acc. Carb.

ACCESSORI A RICHIESTA
Allarmi di minimo e massimo livello tipo REED - SPDT
Trasmettitore 4-20 mA
Valvola di sfiato Ø1/4"

APPLICATIONS
Liquids s.w. min. 0,55 Kg/dm³
Maximum allowable pressure and temperature :
2016J2. 16 barg 38 °C / 13 bar 200 °C
Min. ammissibile temperature – 20°C
Precision +/- 5 mm

CONNECTIONS
DN 20 EN 1092-1 PN 16 Form B

ACCESSORIES INCLUDED
Cock valves 3/4" AISI 316 opp. Acc. Carb.
Drain valve 1/4" AISI 316 opp. Acc. Carb.

ACCESSORIES ON REQUEST
Allarms minimum and maximum level type REED - SPDT
Transmitter 4-20 mA
Exhaust valve Ø1/4"

MATERIALI

Tipo	**2016J2GB 2016J2GC**	**2016J2TB 2016J2TC**
Corpo	Acciaio Inox AISI 316	
Galleggiante		
Guarnizioni	Grafoil	PTFE
Bulloni	A193.B7 zincati	
Rubinetti	AISI 316 "C" / Acciaio Carbonio "B"	

MATERIALS

Type	**2016J2GB 2016J2GC**	**2016J2TB 2016J2TC**
Body	Stainless Steel AISI 316	
Float		
Gaskets	Grafoil	PTFE
Bolts	A193.B7 galvanized	
Cock Valves	AISI 316 "C" / Carbon steel "B"	

DIMENSIONI mm (vedi disegno in alto)

Modello	**Quota X**
2016J2. - 310	310
2016J2. - 340	340
2016J2. - 370	370

Altre dimensioni a richiesta

DIMENSIONS mm (see drawing above)

Model	**Dimension X**
2016J2. - 310	310
2016J2. - 340	340
2016J2. - 370	370

Other dimensions on request

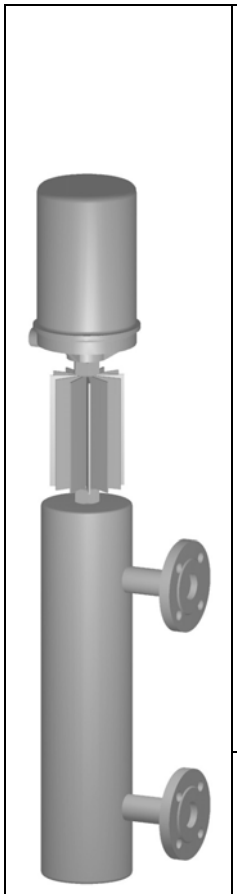
CONFLOW s.p.a.

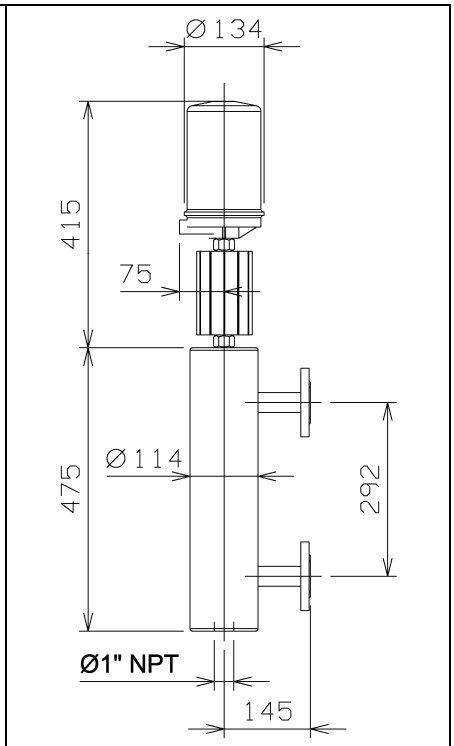
COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

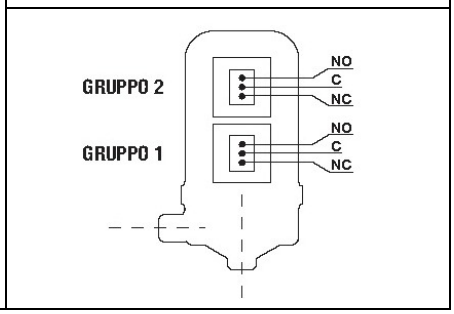
Via Lecco, 69/71
20864 AGRATE BRIANZA (MB)
Tel. 039/651.705 - 650.397
Fax 039/654.018
www.conflow.it

INTERRUTTORI DI LIVELLO A GALLEGGIANTE
FLOAT LEVEL SWITCHES

62D/I/E	
03	2017







TIPO / Type 62DA
Corpo in acciaio Carbonio PN16
Carbon steel body PN16

TIPO / Type 62DJ
Corpo in acciaio inox AISI 316 PN16
Stainlees steel body AISI 316 PN16

Descrizione
L'Interruttore di livello a galleggiante Serie 62 ha il corpo non ispezionabile per montaggio laterale esterno con alettatura per alta temperatura.
Due gruppi di interruttori, ogni gruppo ha montato un contatto SPDT.

Description
The Float Level Switch Series 62 has the body can not be inspected, external side mounting with finned for high temperature.
Two groups of switches, each group has mounted a SPDT contact.

PED 2014/68/UE CE

IMPIEGHI
Liquidi p.s. min. 0,58 Kg/dm³
Pressione e temperatura max ammissibili :
16 barg 100 °C / 11 bar 250 °C (altri rating a richiesta)
temperatura min. ammissibile – 10°C

CONNESSIONI
DN25 EN 1092-1 PN 16 Form B

ACCESSORI COMPRESI
Connessione elettrica 3/4" NPTF
Connessione dreno 1"
Alettatura R1 per temp. >135°C ≤ 250 °C

MATERIALI

Tipo	62DA	62DJ
Corpo	Acciaio Carbonio	AISI 316
Galleggiante	AISI 316	
Custodia	Alluminio WP IP66	
Contatti n° 2	SPDT (220V AC 10A)	

DIMENSIONI mm (vedi disegno in alto)

APPLICATIONS
Liquids s.w. min. 0,58 Kg/dm³
Maximum allowable pressure and temperature :
16 barg 100 °C / 11 bar 250 °C (other rating on request)
Min. ammissibile temperature – 10°C

CONNECTIONS
DN 25 EN 1092-1 PN 16 Form B

ACCESSORIES INCLUDED
Electric connection 3/4" NPTF
Drain connection 1"
Finned R1 for temp. >135°C ≤ 250

MATERIALS

Type	62DA	62DJ
Body	Carbon steel	S.S. AISI 316
Float	AISI 316	
Protection cap	Alluminium WP IP66	
Contacts n° 2	SPDT (220V AC 10A)	

DIMENSIONS mm (see drawing above)

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SONDE DI LIVELLO
LEVEL PROBES

TL30TLC100/I/E	
04	2017



Tipo / Type TL30



Tipo / Type TLC100

TIPO/Type TL30

Sonda unipolare di livello, per liquidi conduttivi
Level unipolar probe, for conductive liquids

TIPO/Type TLC100

Sonda porta elettrodo unipolare di livello, per liquidi conduttivi
Gate electrode probe level unipolar, for conductive liquids

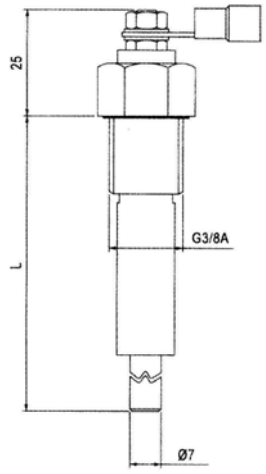
DATI TECNICI

Tipo	TL30	TCL100
Max pressione	15 bar	20 bar
Max Temperatura	150 °C	220°C
Corpo isolante	Teflon	Ceramica
Raccordo	G 3/8"	G 1/2"
Mat. raccordo	AISI 303	AISI 304
Elettrodo	Ø 7 mm integrale	N.A.
Porta elettrodo	N.A.	M6
Collegamento elettrico	Capocorda ad occhiello	Capocorda ad occhiello
Cappuccio	N.A.	Gomma siliconica nera autoestinguente
Lung. elettrodo std	1000 mm	241 mm
	1500 mm	441 mm
		641 mm
Altre lunghezze	A richiesta	A richiesta

TECHNICAL DATA

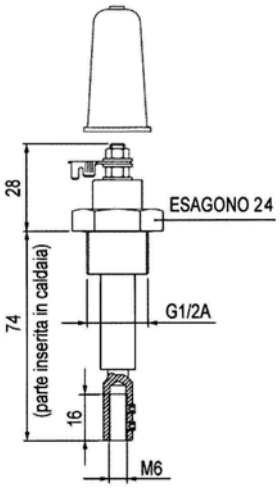
Type	TL30	TCL100
Max pressure	15 bar	20 bar
Max Temperature	150 °C	220°C
Insulating body	Teflon	Ceramic
Connection	G 3/8"	G 1/2"
Connection mat.	AISI 303	AISI 304
Electrode	Ø 7 mm integral	N.A.
Gate electrode	N.A.	M6
Electrical connection	Lug eyelet	Lug eyelet
Hood	N.A.	Silicone rubber black self-extinguishing
Electrode length std	1000 mm	241 mm
	1500 mm	441 mm
	-	641 mm
Other lenght	On request	On request

DIMENSIONI mm



TIPO / TYPE TL30

DIMENSIONS mm



TIPO / TYPE TCL100

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e-mail : vendite@conflow.it
sales@conflow.it

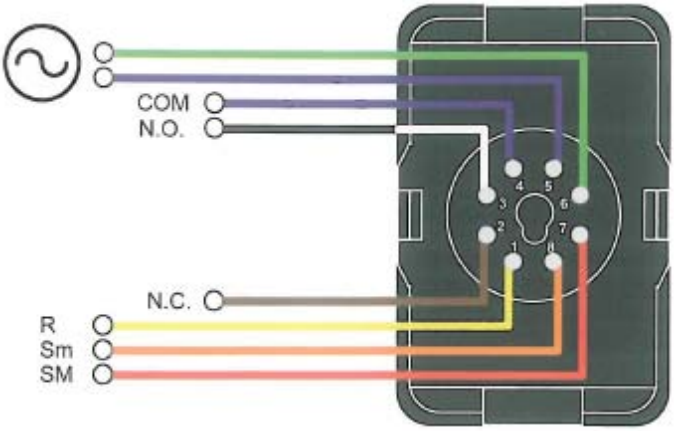
REGOLATORI ELETTRONICI DI LIVELLO
ELECTRONIC LEVEL CONTROLLERS

NRL/I/E	
04	2017



TIPO/Type NRLH S

Esecuzione OCTAL / OCTAL version
Completo di zoccolo / complete of terminal

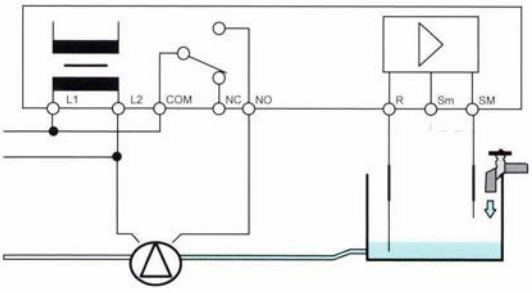


DATI TECNICI

- Alimentazione 24 V AC
- Contatto in scambio 16 A
- Tempo di eccitazione / diseccitazione 0,5”/0,5”
- Sensibilità 10 K
- Temperatura ambiente -20 / + 70 °C
- Materiale custodia Autoestinguente UL94 V rated
- Protezione IP33
- Dimensioni L 42 x H 75 x P 66 mm

FUNZIONE STD SVUOTAMENTO

- LED di presenza tensione acceso
- LED di intervento spento fino a raggiungimento livello
- LED di intervento acceso a raggiungimento livello



ACCESSORI compresi

- Zoccolo OCTAL ZM8 – protezione morsetti IP20
  Tensione max 380 V 10 A

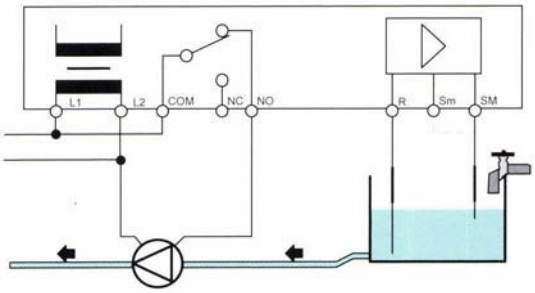
ALTRE VERSIONI A RICHIESTA

TECHNICAL DATA

- Supply 24 V AC
- Exchange contact 16 A
- Excitation / release time 0,5”/0,5”
- Sensibility 10 K
- Ambient temperature -20 / + 70 °C
- Case material Self-extinguishing UL94 V rated
- Protection IP33
- Dimensions L 42 x H 75 x P 66 mm

STD FUNCTION EMPTYING

- voltage presence LED on
- relay LED off until reaching the level
- relay LED on to achieve level



ACCESSORIES included

- Terminal OCTAL ZM8 – clamps protection IP20
  Max Supply 380 V 10 A

OTHER VERSIONS ON REQUEST

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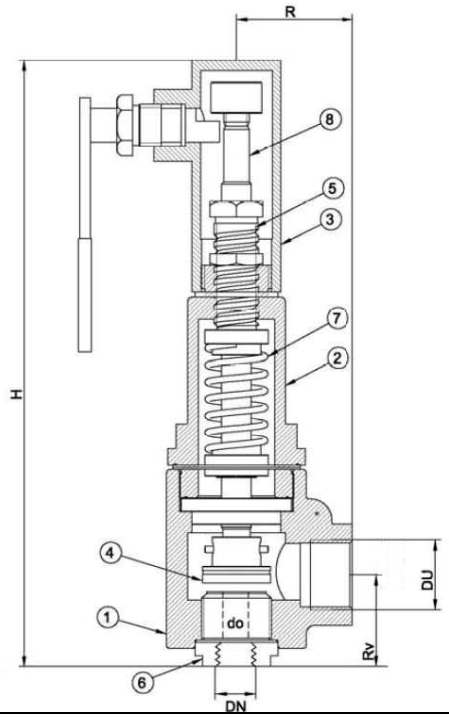


TIPO/Type 209-210-211

Conformità / Conformity **PED 2014/68/UE**
Certificate / Certified **INAIL**
Certificate / Certified **R.I.N.A.**

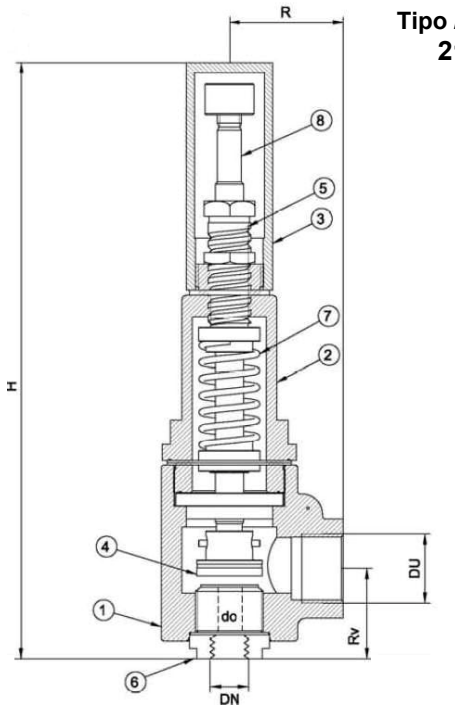
Bonnet chiuso - cappuccio con leva
Closed bonnet - cap with lever
Bonnet chiuso – cappuccio chiuso con leva
Closed bonnet – closed cap with lever

Tipo / Type
209 - 210



Bonnet chiuso - cappuccio senza leva
Closed bonnet – cap without lever

Tipo / Type
211



Pos.	DESCRIZIONE	DESCRIPTION	MATERIALI - MATERIALS		
			TIPO –TYPE 209	TIPO –TYPE 210	TIPO –TYPE 211
1	CORPO	Body	GHISA/CAST IRON EN-GJL-250	ASTM A 216 WCB	ASTM A 351 CF8M
2	BONNET	Bonnet	GHISA/CAST IRON EN-GJL-250	ASTM A 216 WCB	ASTM A 351 CF8M
3	CAPPUCCIO	Cap	EN10025 – S355J2G3	EN10025 – S355J2G3	ASTM A 351 CF8M
4	OTTURATORE	Plug	AISI 316	AISI 316	AISI 316
5	VITE REGISTRO	Register screw	OTTONE / BRASS	OTTONE / BRASS	AISI 316
6	BOCCAGLIO	Nozzle	UNI EN 10277 + AISI316	UNI EN 10277 + AISI316	AISI 316
7	MOLLA	Spring	Acciaio Armonico / Harmonic steel	Acciaio Armonico / Harmonic steel	AISI 316
8	ASTA	Stem	AISI 304 / 316	AISI 304 / 316	AISI 316

Ø *	DU *	do	Area/ Surface (cm²)	Alzata / Lift (mm)	10 %	10-20 %	R	Rv	H	Coefficiente K Liquidi K Liquids coefficient	Coefficiente K K Coefficient
1/2”	1.1/2”	15	1.76	5.5	Sovrapressione Overpressure	Chiusura Blowdown	54	71	300	0.50	0.79
3/4”	1.1/2”	20	3.14	7			54	71	300		
1”	1.1/2”	20	3.14	7			54	71	300		
1”	2”	25	4.9	8			54	71	300		
1.1/4”	2”	25	4.9	8			54	101	300		
1.1/2”	2”	25	4.9	8			54	101	300		

* Attacchi filettati IN-OUT Rp ISO7 Gas F / IN-OUT screwed connections Rp ISO7 Gas F
* Attacchi NPT a richiesta / NPT connection on request

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PORTATE REALI SECONDO UNI EN 4126 / Real calculated flow according UNI EN 4126

Vapore Saturo - Portate reali Kg/h calcolate secondo UNI EN 4126 / Saturated Steam – real calculated flow according UNI EN 4126

Acqua - Portate reali Kg/h calcolate a 20 °C / Water – real calculated flow at 20 °C

Air - Portate reali Kg/h calcolate a 20 °C / Air – real calculated flow at 20 °C

Fluidi Fluids	**P barg**	**Unità** Unit	**Ø (IN / OUT)**		
			1/2" x 1.1/2"	**3/4" x 1.1/2"**	**1" x 1.1/2" - 1" x 2" - 1.1/4" x 2" – 1.1/2" x 2"**
Vapore	**0,4**	Kg/h	82	145	228
Acqua			2406	4295	6712
Aria			130	231	361
Vapore	**0,5**	Kg/h	90	161	252
Acqua			2701	4803	7505
Aria			145	258	403
Vapore	**1**	Kg/h	135	241	377
Acqua			4033	7171	11205
Aria			213	380	595
Vapore	**2**	Kg/h	215	382	598
Acqua			6005	10676	16682
Aria			343	610	954
Vapore	**3**	Kg/h	286	510	797
Acqua			7355	13076	20432
Aria			461	820	1281
Vapore	**4**	Kg/h	358	637	995
Acqua			8493	15099	23593
Aria			579	1030	1609
Vapore	**5**	Kg/h	429	763	1192
Acqua			9496	16882	26378
Aria			697	1240	1938
Vapore	**6**	Kg/h	500	888	1388
Acqua			10452	18493	28896
Aria			816	1450	2266
Vapore	**7**	Kg/h	570	1014	1584
Acqua			11236	19975	31211
Aria			934	1661	2596
Vapore	**8**	Kg/h	640	1138	1780
Acqua			12012	21354	33367
Aria			1053	1872	2925
Vapore	**9**	Kg/h	711	1264	1975
Acqua			12740	22650	35391
Aria			1172	2083	3256
Vapore	**10**	Kg/h	781	1388	2169
Acqua			13430	23875	37306
Aria			1291	2295	3586
Vapore	**12**	Kg/h	920	1635	2556
Acqua			14712	26154	40867
Aria			1529	2719	4249
Vapore	**14**	Kg/h	1059	1883	2942
Acqua			15891	28250	44141
Aria			1768	3144	4913
Vapore	**16**	Kg/h	1198	2130	3328
Acqua			16988	30201	47190
Aria			2008	3571	5579
Vapore	**20**	Kg/h	1476	2625	4102
Acqua			18994	33767	52751
Aria			2490	4427	6917
Vapore	**22**	Kg/h	1614	2870	4484
Acqua			19900	35378	55274
Aria			2731	4856	7588
Vapore	**24**	Kg/h	1753	3118	4872
Acqua			20807	36990	57798
Aria			2974	5287	8261
Vapore	**28**	Kg/h	2033	3615	5649
Acqua			22474	39955	62430
Aria			3460	6152	9613
Vapore	**30**	Kg/h	2173	3863	6036
Acqua			23263	41358	64621
Aria			3704	6586	10291
Vapore	**32**	Kg/h	2312	4111	6424
Acqua			24027	42714	66741
Aria			3949	7021	10971
Vapore	**36**	Kg/h	2590	4606	7197
Acqua			25484	45306	70791
Aria			4441	7895	12336
Vapore	**38**	Kg/h	2731	4856	7587
Acqua			26174	46532	72707
Aria			4687	8333	13021
Vapore	**40**	Kg/h	2872	5106	7979
Acqua			26864	47758	74622
Aria			4934	8773	13708

I dati tecnici forniti hanno solo valore indicativo e non sono impegnativi per il costruttore che si riserva la facoltà di cambiarli in qualsiasi momento senza obbligo di preavviso. **Tutte le specifiche tecniche della CONFLOW SpA, sono disponibili nell'ultimo stato di aggiornamento sul sito www.conflow.it**

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VALVOLE DI SICUREZZA A MOLLA - ATTACCHI FLANGIATI
Spring Safety Valves – Flanged Connections

207/208/I/E	
07	2016

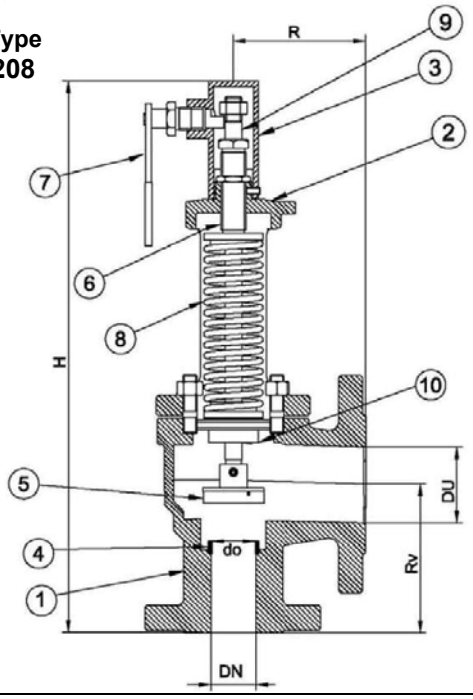


TIPO/Type 207-208-208 I

Conformità / Conformity **PED 2014/68/UE**
Certificate / Certified **INAIL**
Certificate / Certified **R.I.N.A.**

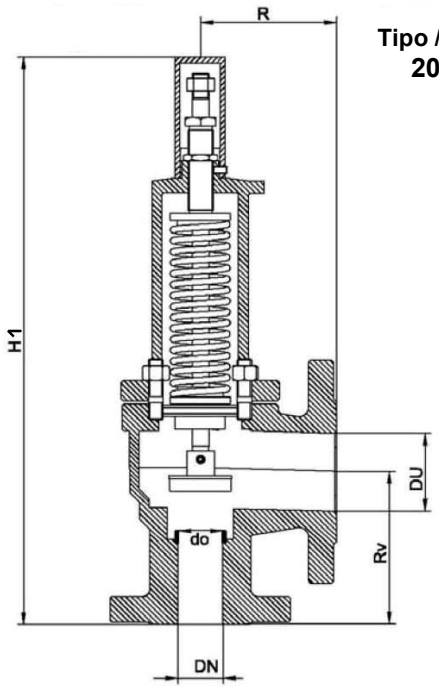
Bonnet aperto - cappuccio con leva
Open bonnet - cap with lever
Bonnet chiuso – cappuccio chiuso con leva
Closed bonnet – closed cap with lever

Tipo / Type
207 - 208



Bonnet chiuso - cappuccio senza leva
Closed bonnet – cap without lever

Tipo / Type
208 I



Pos.	DESCRIZIONE	DESCRIPTION	MATERIALI - MATERIALS		
			TIPO –TYPE 207	TIPO –TYPE 208	TIPO –TYPE 208 I
1	CORPO	Body	GHISA/CAST IRON EN-GJL-250	ASTM A 216 WCB	ASTM A 351 CF8M
2	BONNET	Bonnet	GHISA/CAST IRON EN-GJL-250	ASTM A 216 WCB	ASTM A 351 CF8M
3	CAPPUCCIO	Cap	EN10025 – S355J2G3	EN10025 – S355J2G3	ASTM A 351 CF8M
4	SEDE	Seat	AISI 304	AISI 316	AISI 316
5	OTTURATORE	Plug	AISI 316	AISI 316	AISI 316
6	VITE REGISTRO	Register screw	OTTONE / BRASS	OTTONE / BRASS	AISI 316
7	LEVA (DI PROVA)	(Test) lever	Ferro Zincato / Galvanized Iron	Ferro Zincato / Galvanized Iron	Ferro Zincato / Galvanized Iron
8	MOLLA	Spring	Acciaio Armonico / Harmonic st.	Acciaio Armonico / Harmonic st.	AISI 316
9	ASTA	Stem	AISI 304 / 316	AISI 304 / 316	AISI 316
10	PIATTELLO GUIDA	Guide plate	OTTONE / BRASS	OTTONE / BRASS	AISI 316

DN	DU	do	Area/ Surface (cm²)	Alzata / Lift (mm)	10 %	10-20 %	R	Rv	H1	H	Coefficiente K Liquidi K Liquids coefficient	Coefficiente K K Coefficient
25	40	20	3.141	5.3	Sovrapressione Overpressure	Chiusura Blowdown	95	105	440	400	0.47	0.66
32	50	25	4.909	8.5			100	117	500	450	0.47	0.66
40	65	32	8.04	11.7			105	127	515	480	0.47	0.66
50	80	40	12.56	14			120	132	590	570	0.47	0.66
65	100	50	19.63	16			134	151	620	600	0.35	0.53
80	125	65	33.17	18.6			151	174	700	690	0.35	0.53
100	150	80	50.24	20			167	190	780	750	0.26	0.48

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PORTATE REALI SECONDO UNI EN 4126 / Real calculated flow according UNI EN 4126

Vapore Saturo - Portate reali Kg/h calcolate secondo UNI EN 4126 / Saturated Steam – real calculated flow according UNI EN 4126

Acqua - Portate reali Kg/h calcolate a 20 °C / Water – real calculated flow at 20 °C

Air - Portate reali Kg/h calcolate a 20 °C / Air – real calculated flow at 20 °C

Fluidi Fluids	**P barg**	**Unità** Unit	**DN (IN / OUT)**						
			25/40	**32/50**	**40/65**	**50/80**	**65/100**	**80/125**	**100/150**
Vapore	**0,4**	Kg/h	121	190	313	488	613	1037	1423
Acqua			4038	6309	10338	16153	18795	31765	35744
Aria			193	302	496	775	972	1643	2255
Vapore	**0,5**	Kg/h	134	210	344	539	677	1143	1568
Acqua			4515	7055	11558	18061	21015	35516	39966
Aria			215	336	552	863	1083	1830	2512
Vapore	**1**	Kg/h	201	315	516	808	1013	1714	2351
Acqua			6741	10532	17257	26965	31375	53025	59667
Aria			318	496	815	1274	1598	2700	3706
Vapore	**2**	Kg/h	319	499	818	1279	1605	2712	3721
Acqua			10036	15681	25692	40144	46710	78941	88830
Aria			510	797	1305	2040	2560	4327	5936
Vapore	**3**	Kg/h	426	666	1091	1705	2139	3615	4960
Acqua			12292	19206	31467	49168	57210	96685	108797
Aria			685	1070	1754	2741	3439	5812	7974
Vapore	**4**	Kg/h	532	831	1362	2128	2671	4514	6193
Acqua			14195	22177	36336	56775	66061	111643	125630
Aria			860	1344	2203	3442	4319	7299	10014
Vapore	**5**	Kg/h	637	996	1632	2550	3200	5409	7420
Acqua			15869	24795	40625	63477	73859	124822	140460
Aria			1036	1619	2652	4144	5200	8789	12057
Vapore	**6**	Kg/h	742	1160	1900	2970	3726	6298	8030
Acqua			17323	27067	44347	69292	80626	136258	153328
Aria			1212	1893	3102	4848	6083	10281	14104
Vapore	**7**	Kg/h	847	1324	2169	3389	4252	7187	9860
Acqua			18777	29339	48069	75108	87393	147694	166197
Aria			1388	2168	3553	5552	6966	11774	16152
Vapore	**8**	Kg/h	951	1487	2436	3807	4777	8073	11075
Acqua			20073	31365	51388	80294	93427	157893	177673
Aria			1564	2444	4004	6257	7851	13269	18204
Vapore	**9**	Kg/h	1056	1650	2703	4224	5300	8957	12288
Acqua			21291	33267	54506	85165	99095	167472	188452
Aria			1740	2720	4456	6963	8737	14766	20258
Vapore	**10**	Kg/h	1160	1812	2969	4640	5822	9840	13499
Acqua			22443	35067	57454	89773	104456	176532	198647
Aria			1917	2996	4909	7670	9625	16266	22315
Vapore	**12**	Kg/h	1366	2135	3498	5467	6859	11593	15904
Acqua			24585	38415	62939	98342	114427	193383	217609
Aria			2272	3550	5816	9088	11403	19271	26438
Vapore	**14**	Kg/h	1573	2458	4027	6293	7896	13345	18308
Acqua			26555	41493	67982	106223	123597	208879	235047
Aria			2627	4105	6725	10508	13185	22284	30571
Vapore	**16**	Kg/h	1779	2781	4556	7119	8933	15097	20711
Acqua			28389	44358	72677	113558	132132	223304	251278
Aria			2983	4661	7637	11933	14973	25805	34715
Vapore	**20**	Kg/h	2193	3427	5615	8773	11088	18605	25524
Acqua			31741	49595	81257	126964	147731	249666	280942
Aria			3698	5778	9468	14794	18562	31370	43037
Vapore	**22**	Kg/h	2398	3746	6138	9592	12035	20340	27904
Acqua			33290	52016	85224	133162	154943	261854	294658
Aria			4057	6339	10387	16229	20364	34415	47214
Vapore	**28**	Kg/h	3020	4719	7733	12082	15160	25621	35150
Acqua			37557	58684	96148	150231	174804	295419	332428
Aria			5139	8031	13158	20559	25797	43597	59810
Vapore	**30**	Kg/h	3227	5043	8262	12910	16199	27377	37558
Acqua			38876	60744	99523	155506	180941	305791	344098
Aria			5502	8597	14086	22010	27617	46673	64030
Vapore	**32**	Kg/h	3434	5367	8793	13739	17239	29134	39969
Acqua			40151	62737	102788	160607	186877	315822	355386
Aria			5866	9165	15017	23464	29442	49757	68261
Vapore	**36**	Kg/h	3848	6012	9851	15392	19313	32640	44779
Acqua			42588	66544	109025	170353	198216	334986	376951
Aria			6596	10306	16886	26384	33105	55948	76754
Vapore	**40**	Kg/h	4266	6666	10921	17065	21412	36187	49644
Acqua			44892	70144	114925	179570	208942	353112	397348
Aria			7329	11452	18763	29318	36786	62169	85289

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VALVOLE DI SICUREZZA AD ALTA CAPACITA' DI SCARICO
Spring Safety Valves with high flow capacity

300/310/320/I/E	
07	2016

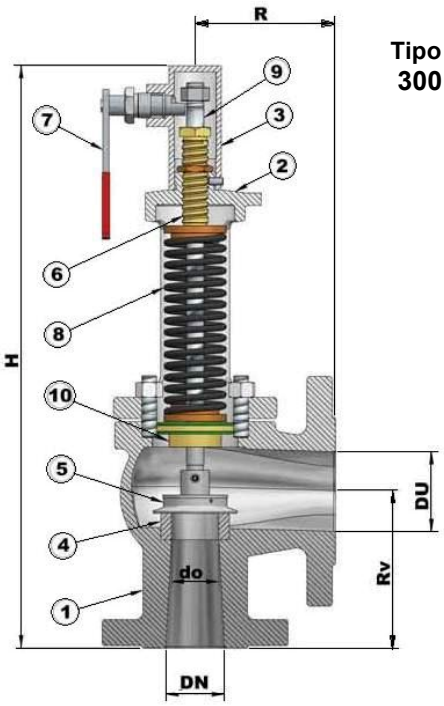




TIPO/Type 300-310-320

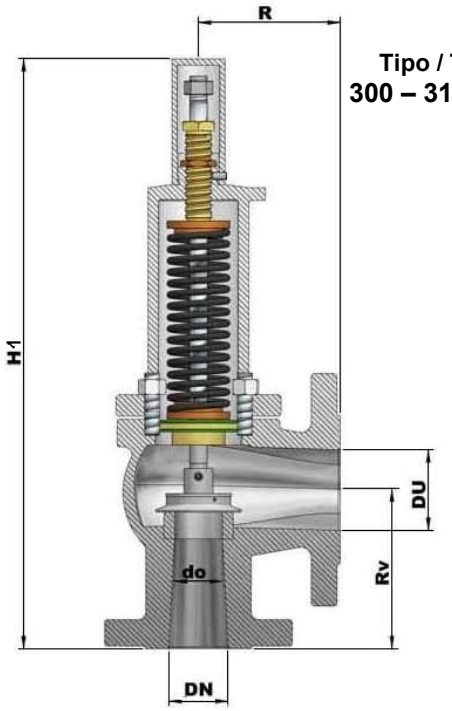
Conformità / Conformity **PED 2014/68/UE**
Certificate / Certified **INAIL**
Certificate / Certified **R.I.N.A.**
Certificate / Certified **ATEX 2014/34/UE**

Bonnet aperto - cappuccio con leva
Open bonnet - cap with lever
Bonnet chiuso – cappuccio chiuso con leva
Closed bonnet – closed cap with lever



Tipo / Type
300 - 310

Bonnet chiuso - cappuccio senza leva
Closed bonnet – cap without lever



Tipo / Type
300 – 310 - 320

Pos.	DESCRIZIONE	DESCRIPTION	MATERIALI - MATERIALS		
			TIPO –TYPE 300	TIPO –TYPE 310	TIPO –TYPE 320
1	CORPO	Body	GHISA/CAST IRON GJS 400.15	ASTM A 216 WCB	ASTM A 351 CF8M
2	BONNET	Bonnet	GHISA/CAST IRON GJS 400.15	ASTM A 216 WCB	ASTM A 351 CF8M
3	CAPPUCCIO	Cap	EN10025 – S355J2G3	EN10025 – S355J2G3	ASTM A 351 CF8M
4	SEDE	Seat	AISI 316	AISI 316	AISI 316
5	OTTURATORE	Plug	AISI 316	AISI 316	AISI 316
6	VITE REGISTRO	Register screw	OTTONE / BRASS	OTTONE / BRASS	AISI 316
7	LEVA (DI PROVA)	(Test) lever	Ferro Zincato / Galvanized Iron	Ferro Zincato / Galvanized Iron	Ferro Zincato / Galvanized Iron
8	MOLLA	Spring	Acciaio Armonico / Harmonic st.	Acciaio Armonico / Harmonic st.	AISI 316
9	ASTA	Stem	AISI 304 / 316	AISI 304 / 316	AISI 316
10	PIATTELLO GUIDA	Guide plate	OTTONE / BRASS	OTTONE / BRASS	AISI 316

DN	DU	Do	Area/ Surface (cm²)	Alzata / Lift (mm)	10 %	10-20 %	R	Rv	H1	H	Coefficiente K Liquidi K Liquids coefficient	Coefficiente K K Coefficient
20	40	18	2.54	7.5	Sovrapressione Overpressure	Chiusura Blowdown	97	90	360	385	0.55	0.80
25	40	23	4.15	9			105	112	375	405		
32	50	30	7.06	12			113	116	400	430		
40	65	38	11.33	14			114	125	435	470		
50	80	47	17.34	19			122	132	560	600		
65	100	61	29.20	27			148	163	660	690		
80	125	74	42.98	26			155	190	730	795		
100	150	93	67.89	34			185	230	875	940		
125	200	99	76.93	39			200	250	965	1030		

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PORTATE REALI SECONDO UNI EN 4126 / Real calculated flow according UNI EN 4126

Vapore Saturo - Portate reali Kg/h calcolate secondo UNI EN 4126 / Saturated Steam – real calculated flow according UNI EN 4126

Acqua - Portate reali Kg/h calcolate a 20 °C / Water – real calculated flow at 20 °C

Air - Portate reali Kg/h calcolate a 20 °C / Air – real calculated flow at 20 °C

Fluidi Fluids	**P barg**	**Unità** Unit	**DN (IN / OUT)**								
			20/40	**25/40**	**32/50**	**40/65**	**50/80**	**65/100**	**80/125**	**100/150**	**125/200**
Vapore	**0.1**	Kg/h	43	70	120	192	296	499	825	1158	1969
Acqua			1225	2004	3416	5488	8428	14197	20894	30526	57907
Aria			64	104	177	285	436	736	1084	1712	2910
Vapore	**0,3**	Kg/h	70	115	196	315	482	812	1196	1889	3212
Acqua			2132	3498	5952	9550	14617	24610	36217	52913	100298
Aria			109	180	306	491	751	1266	1864	2944	5004
Vapore	**0,4**	Kg/h	119	195	333	534	819	1379	2030	3206	3634
Acqua			3827	6249	10632	17060	26098	43962	64697	102186	115815
Aria			190	310	528	847	1297	2185	3215	5079	5756
Vapore	**0,5**	Kg/h	132	216	367	589	901	1520	2237	3533	4005
Acqua			4279	6987	11889	19074	29180	49154	72338	114284	129485
Aria			211	345	588	944	1444	2434	3582	5658	6411
Vapore	**1**	Kg/h	197	324	551	884	1352	2279	3353	5297	6003
Acqua			6389	10432	17749	28478	43566	73385	107997	170576	193294
Aria			312	510	868	1393	2131	3591	5285	8347	9458
Vapore	**2**	Kg/h	313	512	872	1399	2140	3605	5306	8381	9498
Acqua			9512	15532	26424	42397	64858	109252	160781	253943	287748
Aria			500	817	1391	2232	3414	5752	8465	13370	15148
Vapore	**3**	Kg/h	418	683	1162	1865	2853	4806	7073	11171	12659
Acqua			11651	19023	32364	51927	79437	133809	196920	311023	352420
Aria			672	1098	1868	2998	4587	7726	11371	17960	20346
Vapore	**4**	Kg/h	522	853	1451	2328	3562	6001	8832	13949	15807
Acqua			13453	21966	37371	59961	91727	154512	227387	359144	406941
Aria			844	1379	2347	3765	5760	9704	14281	22556	25551
Vapore	**5**	Kg/h	626	1022	1739	2790	4269	7191	10582	16714	18940
Acqua			15042	24559	41783	67039	102555	172751	254229	401539	454976
Aria			1017	1661	2826	4534	6936	11684	17195	27185	30761
Vapore	**6**	Kg/h	729	1190	2025	3249	4971	8374	12323	19464	22057
Acqua			16370	26728	45473	72959	111612	188007	276681	437000	495155
Aria			1190	1942	3305	5303	8113	13666	20112	31766	35979
Vapore	**8**	Kg/h	934	1525	2595	4164	6371	10732	15794	24946	28269
Acqua			19027	31066	52853	84800	129726	218519	321584	507922	575512
Aria			1535	2507	4266	6845	10472	17640	25959	41002	46432
Vapore	**9**	Kg/h	1036	1692	2880	4621	7069	11907	17524	27678	31364
Acqua			20181	32950	56059	89945	137596	231776	341093	538136	610425
Aria			1709	2790	4748	7618	11653	19630	28889	45629	51668
Vapore	**10**	Kg/h	1139	1859	3163	5076	7765	13081	19250	30405	34455
Acqua			21273	34733	59092	94810	145039	244315	359546	567880	643447
Aria			1882	3074	5230	8391	12837	21614	31822	50262	56910
Vapore	**12**	Kg/h	1341	2190	3727	5980	9149	15411	22680	35821	40593
Acqua			23304	38048	64733	103861	158884	267637	393867	622088	704867
Aria			2230	3642	6196	9941	15208	25618	37701	59547	67413
Vapore	**14**	Kg/h	1544	2522	4291	6884	10532	17741	26108	41236	46729
Acqua			25171	41097	69920	112184	171616	289083	425429	671939	761350
Aria			2579	4211	7165	11496	17586	29624	43596	68857	77941
Vapore	**18**	Kg/h	1950	3185	5418	8694	13300	22403	32970	52074	59019
Acqua			28542	46601	79284	127207	194598	327796	482401	761922	863305
Aria			3279	5354	9110	14617	22361	37666	55431	87551	99072
Vapore	**20**	Kg/h	2153	3516	5982	9598	14683	24773	36398	57489	65146
Acqua			30086	49122	83573	134089	205127	345531	508500	803144	910011
Aria			3631	5928	10086	16183	24757	41703	61373	96934	109674
Vapore	**24**	Kg/h	2557	4175	7104	11398	17437	29373	43226	68274	77367
Acqua			32958	53812	91552	146890	224709	378517	557044	879816	996884
Aria			4337	7081	12047	19329	29569	49809	73302	115776	130954
Vapore	**28**	Kg/h	2965	4842	8238	13217	20220	34061	50125	79170	89715
Acqua			35600	58124	98889	158662	242718	408852	601687	950327	1076777
Aria			5046	8239	14018	22491	34406	57957	85292	134714	152332
Vapore	**30**	Kg/h	3168	5174	8802	14123	21605	36394	53559	84594	95862
Acqua			36850	60165	102361	164232	251239	423206	622810	983690	1114579
Aria			5402	8820	15007	27078	36834	62046	91310	144219	163057
Vapore	**34**	Kg/h	3575	5838	9932	15936	24379	41066	60435	-	-
Acqua			39230	64052	108973	174842	267496	450540	663044	-	-
Aria			6117	9988	16992	27264	41708	70256	103392	-	-
Vapore	**38**	Kg/h	3983	6503	11064	17752	27157	-	-	-	-
Acqua			41474	67716	115207	184844	282770	-	-	-	-
Aria			6835	11160	18988	30465	46605	-	-	-	-
Vapore	**40**	Kg/h	4188	6839	11635	18668	28558	-	-	-	-
Acqua			42552	69476	118201	189647	290119	-	-	-	-
Aria			7196	11749	19989	32072	49063	-	-	-	-

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TERMOSTATO DI BLOCCO A RIARMO MANUALE
SAFETY LIMITER THERMOSTAT

TMBRM/I/E	
07	2016

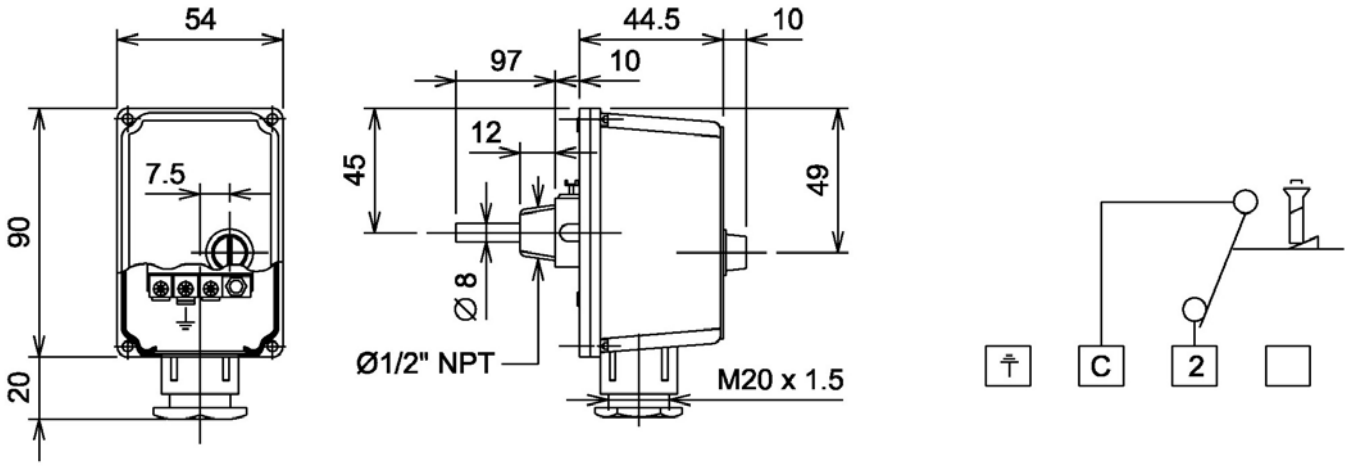


TIPO/Type TMBRM CE

Ref. LSC1 0051

Termostato di blocco a riarmo manuale,
omologato INAIL TS/383/12
Conforme PED 2014/6E/UE cat.IV°

Immersion limiter thermostat failproof safety limiter,
qualified INAIL TS/383/12
Conformed PED 2014/68/UE cat. IV°



DATI TECNICI		TECHNICAL DATA	
• Temperatura di intervento	100 °C	• Set temperature	100 °C
• Riarmo manuale		• Manual reset	
• Portata sui contatti	10(2.5) A 250 V ~ 5A 380 V ~	• Contacts rating	10(2.5) A 250 V ~ 5A 380 V ~
• Grado protezione	IP 50	• Degree of protection	IP 40
• Passacavo	M20 x 1,5	• Fairlead	M20 x 1,5
• Gradiente termico	1 K/min.	• Temperature rate of charge	1 K/min.
• Temperatura max. testa	80 °C	• Max head temperature	80 °C
• Temperatura max. bulbo	125 °C	• Max sensing bulb temperature	125 °C
• Max Pressione	10 bar	• Max pressione	10 bar
CONFORMITA'	PED 2014/68/UE	CONFORMITY	PED 2014/68/UE
OMOLOGAZIONI	INAIL TS/383/12	APPROVALS	INAIL TS/383/12

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PRESSOSTATO DI BLOCCO A RIARMO MANUALE
PRESSURE CONTROL SAFETY LIMITER

PSRM110/I/E	
07	2016



SERIE/Series PSRM CE

Pressione Crescente / Increasing Pressure **RT30AB**

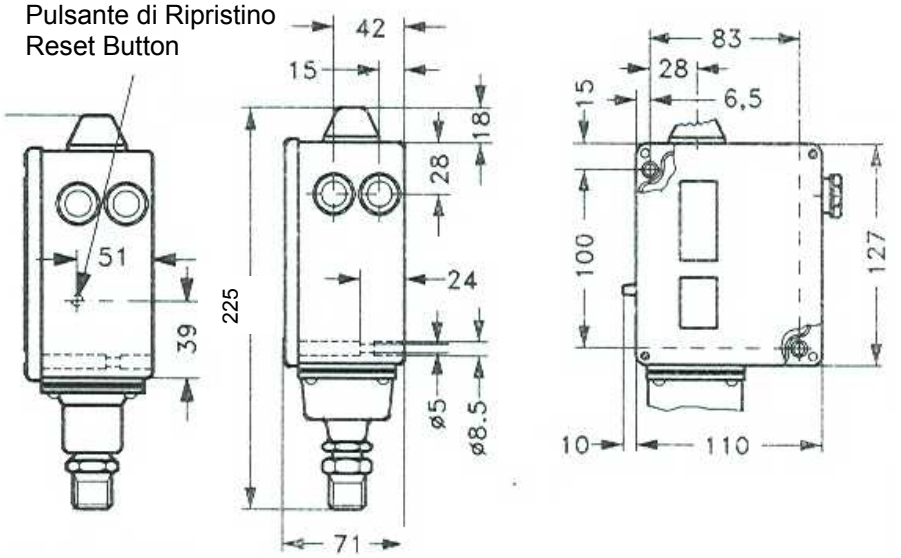
Pressione Decrescente / Falling Pressure **RT31B**

Pressostato di blocco a riarmo manuale, PED 2014/68/UE

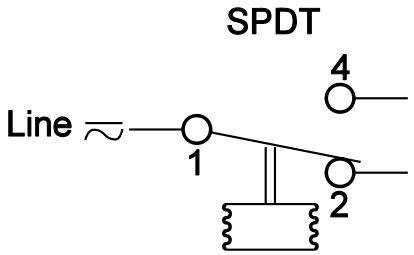
Pressure control safety limiter, according PED 2014/68/UE

Omologato DEMKO
Approved TÜV
Germanischer Lloyd
R.I.N.A.
RMRS

Pulsante di Ripristino
Reset Button



Sistema di Contatto
Contact System



Commutatore Unipolare
Unipolar Commutator

DATI TECNICI		**TECHNICAL DATA**	
• Campo di Regolazione **RT30AB**	1 – 10 bar	• Control Range **RT30AB**	1 – 10 bar
RT31B	2-10 bar	**RT31B**	2-10 bar
• Differenziale Mecc. Fisso **RT30AB**	0,4 bar	• Mechanical differential Fixed **RT30AB**	0,4 bar
RT31B	0,3 bar	**RT31B**	0,3 bar
• Max Pressione di Esercizio	22 bar	• Max Operating Pressure	22 bar
• Max Pressione di Prova	25 bar	• Max Testing Pressure	25 bar
• Attacco Pressione	G ½ A	• Process Connection	G ½ A
• Temperatura Ambiente	da –50 a +70°C	• Ambient Temperature	from –50 to +70°C
• Carico sul Contatto	**A.C.**	• Contact Load	**A.C.**
	AC –1: 10A, 400V		AC –1: 10A, 400V
	AC –3: 4A, 400V		AC –3: 4A, 400V
	AC –15: 3A, 400V		AC –15: 3A, 400V
	C.C.		**C.C**
	DC –13:12W, 230V		DC –13:12W, 230V
• Materiale di Contatto	AgCdO	• Contact Material	AgCdO
• Passacavo	2 PG 13.5 per Ø cavi 6 – 14 mm	• Cable Gland	2 PG 13.5 for Ø cables 6 – 14 mm
• Protezione	IP66 a norma IEC 529 e EN 529. Unità munite di ripristino esterno IP 54. Il corpo del termostato è in bachelite a norma DIN 53470.	• Protection	IP66 according to IEC 529 and EN 529. Equipment with external reset IP 54. Thermostat body made of bakelite according to DIN 53470.

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