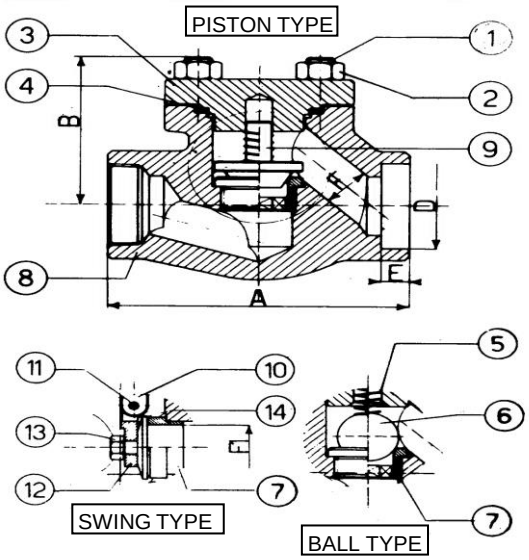
DERVAL s.r.l.

VALVES FOR CHEMICAL AND PETROCHEMICAL INDUSTRIES
STOCK VALVES SPECIALIST SUPPLY

FORGED STEEL CHECK VALVE Class 800 lbs.

DRW: RD-FCV03 Rev1



API 602 - BS 5352 -
Testing according to API 598 - BS 6755
Marking MSS SP25
Bolted Cover
Socket weld Ends to ANSI B16.11
Screwed Ends (NPT) to ANSI B1.20.1
Butt Welding Ends to ANSI B16.25

Ratings *(Class 800 according to API 602 sixth ed.):*

carbon steel class 800 : 1975 PSI at 100°F
136 bar at +38°C

stainless steel 316/L class 800 : 1920 PSI at 100°F
132,3 bar at +38°C

PART NAME	PARTICOLARE	STANDARD MATER.	*STAINLESS STEEL*
1) STUDS COVER	TIRANTE	ASTM A193 - B7	ASTM A193 - B8M
2) NUTS	DADO	ASTM A194 - 2H	ASTM A194 - Gr.8M
3) COVER	COPERCHIO	ASTM A105N	ASTM A182 F316L
4) GASKET	GUARNIZIONE	GRAPHITE + A. 316L	GRAPHITE + A. 316L
5) SPRING	MOLLA	ASTM A182 F316	ASTM A182 F316L
6) BALL	SFERA	S.S A182 F6a	S.S. AISI 316L
7) SEATS	SEDE	S.S A182 F6a+STELLITE Gr.6	S.S. AISI 316L
8) BODY	CORPO	ASTM A105N	ASTM A182 F316L
9) PISTON	PISTONE	S.S A182 F6a	S.S. AISI 316L
10) HINGE SUPPORT	SUPPORTO	S.S A182 F6a	S.S. AISI 316L
11) HINGE PIN	SPINA	S.S A182 F6a	S.S. AISI 316L
12) HINGE	CERNIERA	S.S A182 F6a	S.S. AISI 316L
13) NUTS	DADO	ASTM A194 - 2H	ASTM A194 - Gr.8M
14) SWING	BATTENTE	S.S A182 F6a	S.S. AISI 316L

ALTERNATE MATERIALS AVAILABLE

EXTERNAL MATERIAL			TRIM MATERIAL	
Body & Bonnet		Bolts	Disc	Seat
ASTM A105		B7	420	410 HF
			410 HF	410 HF
		B7M	316	
			316HF	316
			Monel	
A350 - LF2		L7	410	410 HF
ASTM A182	F5	B16	420	410 HF
	F9			
	F11			
	F22			
	F304	B8	316 HF	316
	F304L		316L	
	F316		316 HF	316
	F316L		316L HF	316L

REDUCED BORE		*mm.* *inch.*	*15* *1/2"*	*20* *3/4"*	*25* *1"*	*32* *1 1/4"*	*40* *1 1/2"*	*50* *2"*
A	end to end	*mm*	80	90	110	127	155	170
		inch.	*3,15*	*3,54*	*4,33*	*5,00*	*6,10*	*6,69*
B	center to top	*mm*	49	55	70	77	105	120
		inch.	*1,93*	*2,17*	*2,76*	*3,03*	*4,13*	*4,72*
D	socket weld bore	*mm*	21,72	27,05	33,78	42,55	48,64	61,11
		inch.	*0,86*	*1,06*	*1,33*	*1,68*	*1,91*	*2,41*
E	bore depth (min.)	*mm*	9,65	12,70	12,70	12,70	12,70	15,75
		inch.	*0,38*	*0,50*	*0,50*	*0,50*	*0,50*	*0,62*
F	Dn. Of port Piston/Ball	*mm*	9	12,5	17,5	22,5	29	35
		inch.	*0,35*	*0,49*	*0,69*	*0,89*	*1,14*	*1,38*
F	Dn. Of port Swing	*mm*	10	14	18	24	29,5	36,5
		inch.	*0,39*	*0,55*	*0,71*	*0,94*	*1,16*	*1,44*
WEIGHT		*Kg.*	*1,1*	*1,8*	*2,6*	*3,6*	*5,5*	*8,4*

FULL BORE		*mm.* *inch.*	*6* *1/4"*	*10* *3/8"*	*15* *1/2"*	*20* *3/4"*	*25* *1"*	*32* *1 1/4"*	*40* *1 1/2"*	*50* *2"*
A	end to end	*mm*	80	80	90	110	127	155 *	170 *	210 *
		inch.	*3,15*	*3,15*	*3,54*	*4,33*	*5,00*	*6,10*	*6,69*	*8,27*
B	center to top	*mm*	49	49	55	70	77	105	120	145
		inch.	*1,93*	*1,93*	*2,17*	*2,76*	*3,03*	*4,13*	*4,72*	*5,71*
D	socket weld bore	*mm*	14,1	17,53	21,72	27,05	33,78	42,55	48,64	61,11
		inch.	*0,56*	*0,69*	*0,86*	*1,06*	*1,33*	*1,68*	*1,91*	*2,41*
E	bore depth (min.)	*mm*	9,65	9,65	9,65	12,7	12,7	12,7	12,7	15,75
		inch.	*0,38*	*0,38*	*0,38*	*0,50*	*0,50*	*0,50*	*0,50*	*0,62*
F	Dn. Of port Piston/Ball	*mm*	7	9	12,5	17,5	22,5	29	35	45
		inch.	*0,28*	*0,35*	*0,49*	*0,69*	*0,89*	*1,14*	*1,38*	*1,77*
F	Dn. Of port Swing	*mm*	8	10	14	18	24	29,5	36,5	48
		inch.	*0,31*	*0,39*	*0,55*	*0,71*	*0,94*	*1,16*	*1,44*	*1,89*
WEIGHT		*Kg.*	*1,1*	*1,1*	*1,8*	*2,6*	*3,6*	*5,5*	*8,4*	*11,8*

* For Swing type end to end Dn. 1 1/4" = 127 ; Dn.1 1/2" = 130 ; Dn. 2" = 150/210

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