



**Centrally mounted butterfly valve**

**Elastomer lined**

**KG9 / KG7**

**K19 / K17 · K08 / K07 · K11**

**Elastically sealing butterfly valve KG9 / KG7**

- two-piece body
- **GEFA - MULTITOP**

**Automation system**

**Exchangeable flange for direct installation**

**Unsurpassed benefits for the user:**

- Safety
- Service friendliness

From applications involving acids to the highly sensitive food sector, GEFA butterfly valves are optimally suitable for a wide range of applications for reliable sealing, control and regulation of process flows

**Butterfly valve Series K**





## Type KG 9 [ DN 50 — DN 300 ]

### Technical data:

Wafer-type valve for installation between Flanges DIN EN 1092-1, PN 10/16, ANSI 150.

**Two-piece body**, self-centring, One-piece disc/stem, tightly closing up to 16 bar, vacuum tight.

**Overall length:** DIN EN 558-1 range 20 (DIN 3202-K1)

**Connection flange:** DIN 3337 - ISO 5211

**Tests:** DIN 3230, T3 - BA/BO-1  
DIN 3230, T5, T6



## Type KG 7 [ DN 50 — DN 300 ]

### Technical data:

Lug-type valve for installation between flanges DIN EN 1092-1, PN 10 (DN 50 - DN 150: PN 10/16), ANSI 150.

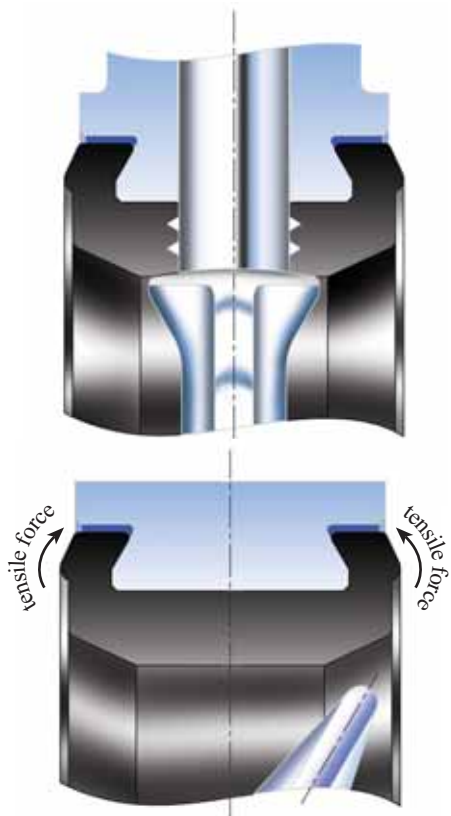
**Two-piece body with threaded lugs** for firm flanged connection from both sides. One-piece disc/stem, tightly sealing up to 16 bar and vacuum tight.

**Special features:** The pipe can be flanged on one side for dead-end service, the closed valve in its function as terminal fitting seals against a pressure of up to 10 bar in dependence on the temperature.

**Overall length:** DIN EN 558-1 range 20 (DIN 3202-K1)

**Connection flange:** DIN 3337 - ISO 5211

**Tests:** DIN 3230, T3 - BA/BO-1  
DIN 3230, T5, T6



One-piece disc/stem connection – without play and hysteresis, clearance-free and suitable for sterilizing. Bacterial invasion caused by cavities and all other disadvantages of „stretched“ stem connections can be ruled out.

For primary sealing of the stem gate by the seat, the valve disc is spherically shaped, whereby an even contact pressure of the valve disc sealing face to the seat and thus reliable area sealing is achieved.

The additional labyrinth function between valve disc stem and seat provides a second sealing function.

Sturdy, thick walled dimensioning of the seat in the sealing area, inside and to the flanks. The edge-free, rounded transition to the dovetail guide (clamping zone to the flanges) ensures secure locking with high tear strength. High flow speeds, formation of incrustations, closing media are optimally handled.

No formation of bulbs towards the inside, because the seat is pulled outwards by the clamping of the flange in the dovetail.

# Efficient and reliable automation with the exchangeable flange

## GEFA - MULTITOP

# Advantages of the butterfly valve



Bearing bush with O-ring seal

One-piece valve disc/stem

absolutely free of play, large free cross-section, minimal pressure loss

### Automation

- Standard installation flange acc. to DIN 3337
- Direct actuator installation **without interruption of the control stem**
- Variable and exchangeable for any actuator size
- Actuator protection to prevent leakage



### Primary seal

integrated in the seat, causes clearance-free and pressure stable sealing to the outside, additional labyrinth arrangement.

### Seat

multi-functional sealing element, easy to exchange, maintenance-free, long lifetime, reliable sealing in the seat, to the flanges and at the stem gate; reliable locking in the dovetail, embedded in the body without edges protruding over the flange surface

### Two-piece body

Standard overall length; very service friendly, simple exchange of internal parts only possible because of the two-piece body construction

Hand lever



Hand gear



Pneumatic actuator



Electric-actuator





# Seat change

## Pit stop in maintenance

The seat is the only wear item and can be changed in only a few minutes.  
An unbeatable advantage in preventive maintenance and saving on costs and resources.

Service and Maintenance



After loosening the two body screws only the bottom part of the body with the internal parts needs to be pulled down.  
The actuator remains assembled to the upper part of the body!



Simply pull the seat off the valve disc



Pull the new seat on the valve disc - that's how simple it is!



Press the bottom part of the body with the internal parts tightly against the upper part and tighten both body screws. Job done!

**! This is how quickly the GEFA butterfly valve has been returned to new condition, so that it can be used for another number of years. This saves money, because the disassembly and waste disposal of butterfly valves, which can sensibly not be repaired, is very expensive.**

## Available materials

Code	Body
22	Gray cast iron GG25
72	Gray cast iron, plastic coated
44	Cast steel GS-C25
24	Nodular cast iron
63	Stainless steel 1.4301/1.4308
66	Stainless steel 1.4571/1.4408

Code	Valve disc
61	Steel 1.4008
66	Stainless steel (up to DN 150-1.4581) from DN 200-1.4408
31	Stainless steel, polished
13	Bronze
23	Nodular cast iron GGG 40
69	Stainless steel 1.4529
77	PTFE coated
78	E-CTFE lined
79	EPDM rubberized
92	Alloy C 22
93	Alloy C
94	Titanium

Code	Seat
E	EPDM
Ew	EPDM white
B	NBR (nitrile)
H	CSM (Hypalon)
S	MVQ (silicone)
V	FPM
PU	PU (Urepan)

### EPDM

(Ethylene-Propylene-Terpolymer)  
Application temperature: -30 °C to +140 °C

### NBR

(Nitrile-caoutchouc) perbunan  
Application temperature: -20 °C to +120 °C

### CSM

(Chlorsulfoniertes polyethylene) Hypalon  
Application temperature: -20 °C to +140 °C

### MVQ

(Silicone-rubber)  
Application temperature: -40 °C to +200 °C

### FPM

(Fluoro-rubber)  
Application temperature: -30 °C to +180 °C

### PU

(Urepan)  
Application temperature: -30 °C to +80 °C

Technical changes reserved



### Typ K 19 [ DN 350 — DN 500 ]

**Technical data:**

Wafer-type valve for installation between flanges DIN EN 1092-1, PN 10/16, ANSI 150.

**Two-piece body**, self-centring, One-piece disc/stem, tightly closing up to 16 bar, vacuum tight.

**Overall length:** DIN EN 558-1 range 20 (DIN 3202-K1)

**Connection flange:** ISO 5211

**Tests:** DIN 3230, T3 - BA/BO-1  
DIN 3230, T5, T6



### Typ K 08 [ DN 600 — DN 1200 ]

**Technical data:**

Wafer-type valve for installation between flanges PN 6/10/16, ANSI 150.

One-piece body. Continuous valve stem, internally connected to the valve disc by dowel pins. The connection is sealed off against medium.

Exchangeable seat with additional steel backing ring as firm rubber-metal combination by adhering to a solid elastomer thickness of approx. 15-17 mm.

**Connection flange:** ISO 5211

**Tests:** DIN 3230, T3 - BA/BO-1  
DIN 3230, T5, T6



### Typ K 11 [ DN 25 — DN 150 ]

**Technical data:**

Wafer-type valve for installation between flanges DIN EN 1092-1, PN 10/16, ANSI 150.

**Two-piece stainless steel body** with centring lugs.

We offer this version completely made of stainless steel for all areas requiring corrosion resistance of even the external parts, while maintaining all advantages of the basic series K 19. This are the requirements of the food/beverage industry as well as the pharmaceutical and chemical industries, or even for applications in connection with seawater. The body is optimized in weight by precision casting.

**Option:** Surfaces electrically polished.

Media contacting internal parts can be variably adapted to media and applications and taken from the basic product range.

**Overall length:** DIN EN 558-1 range 20 (DIN 3202-K1)

**Connection flange:** DIN 3337 - ISO 5211

**Tests:** DIN 3230, T3 - BA/BO-1



### Typ K 17 [ DN 350 — DN 500 ]

**Technical data:**

Lug-type valve for installation between flanges DIN EN 1092-1, PN 10, ANSI 150.

**Two-piece body with threaded lugs** for firm flanged connection from both sides. One-piece disc/stem, tightly sealing up to 16 bar and vacuum tight. The pipe can be flanged on one side for dead-end service, the closed valve in its function as terminal fitting seals against a pressure of up to 10 bar in dependence on the temperature.

**Overall length:** DIN EN 558-1 range 20 (DIN 3202-K1)

**Connection flange:** ISO 5211

**Tests:** DIN 3230, T3 - BA/BO-1  
DIN 3230, T5, T6



### Typ K 07 [ DN 600 — DN 1200 ]

**Technical data:**

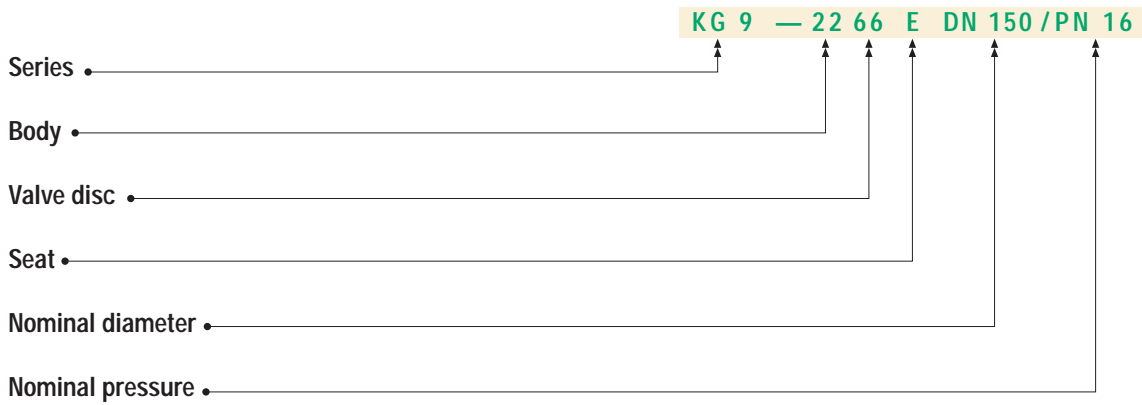
Double flange valve for installation between flanges PN 6/10/16, ANSI 150.

One-piece body in double flange design, to be flanged on one side (6 bar). Continuous valve stem, internally connected to the valve disc by dowel pins. The connection is sealed off against medium.

Exchangeable seat with additional steel backing ring as firm rubber-metal combination by adhering to a solid elastomer thickness of approx. 15-17 mm.

**Connection flange:** ISO 5211

**Tests:** DIN 3230, T3 - BA/BO-1  
DIN 3230, T5, T6



Ordering example



GEFA Prozesstechnik GmbH Dortmund is a special manufacturer in the range of industrial valves and fittings, filtration technology as well as measuring and control technology. The enterprise was founded in 1964 as one of the first to manufacture three-piece ball valves, centrally soft seated butterfly valves and pneumatic piston actuators.

In the field of filtration technology GEFA launched an innovative product range in the German market.

Since 1992 the company is certified according to EN ISO 9001 and offers products of superior reliability and safety. We also offer a product range for specific applications. Our large-scale storage system (4 million Euro) guarantees short delivery times.

## Our product ranges

**Valves** • Butterfly valves • Ball valves • Knife gate valves • Pinch valves • Non-return valves Actuators  
• Compressed air operated diaphragm pumps • Bursting discs • Special valves

**Filtration** • Fine filtration • Micro filtration • Manual filters • Separation and handling technology

**Messuring and control technology** • Flow measurements • Signal processing modules  
Switching cabinet construction • Pressure transmitters • Temperature measurements



### Germany

Germaniastraße 28  
D-44379 Dortmund

P.O. Box 70 01 10  
D-44371 Dortmund



Phone 0049-2 31-610 09-0  
Fax 0049-2 31-610 09 80

www.gefa.com  
gefa@gefa.com