



**Centrally mounted butterfly valve
PTFE lined
Type KG 6 · KG 8 · K 16 · K 18**

- two-piece body
- **GEFA-MULTITOP**
Automation system
Exchangeable flange for direct installation

Unsurpassed benefits for the user:

- Safety
- Service friendliness

This chemical valve guarantees permanent sealing with full chemical resistance. Highly aggressive and corrosive media are reliably conducted.





Type KG 6 [DN 50 to 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 sealing up to 10 bar.

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 8 [DN 50 to DN 300]

Technical data:

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

Two-piece body with threaded lugs for firm flanged connection from both sides.
One-piece disc/stem.

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



Primary seal

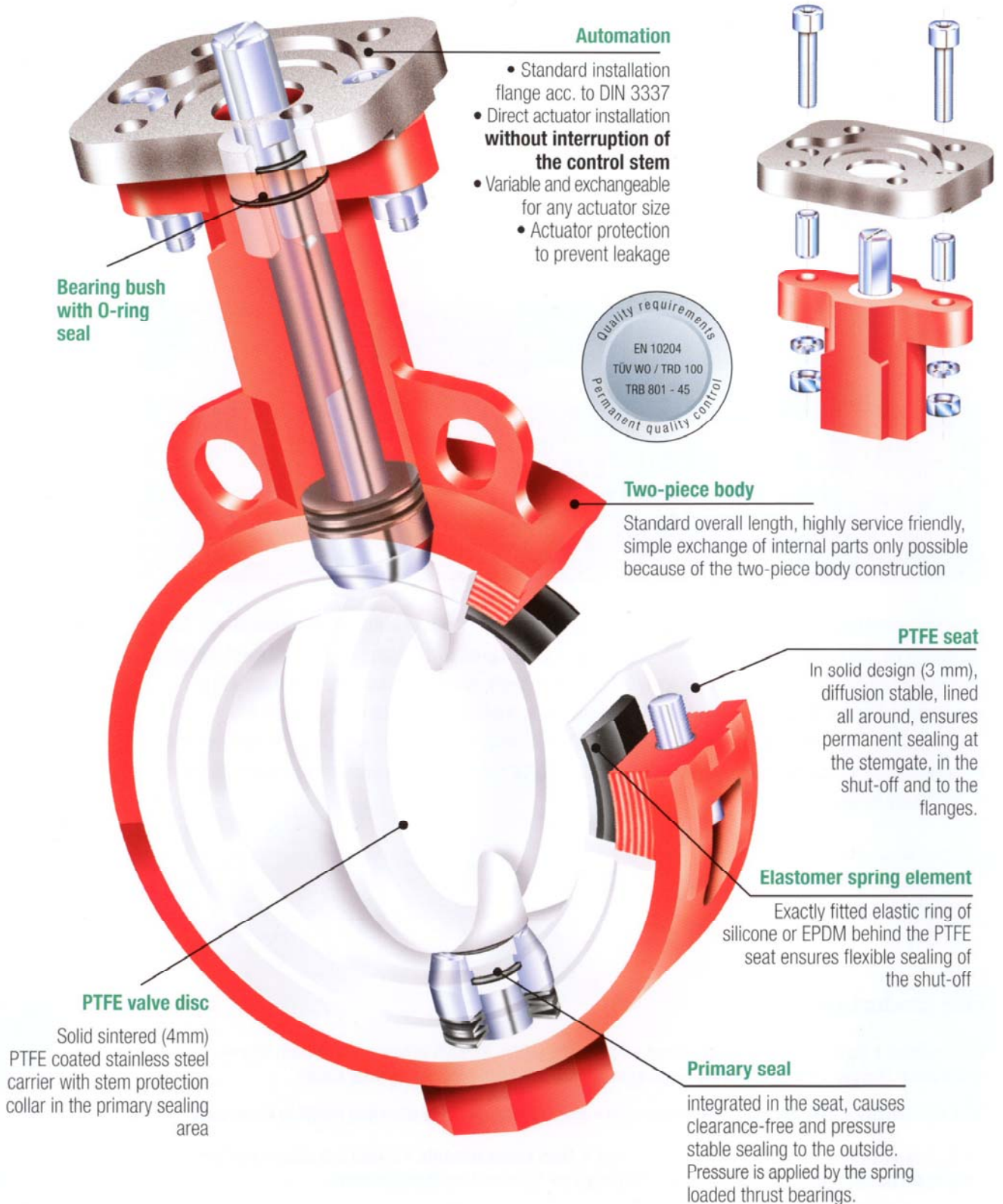
The primary seal of the shaft gate is adjusted in a defined way via spring loaded stainless steel thrust bearings.

Between the primary sealing face of the valve disc and the preloaded PTFE lining the medium is reliably sealed off already at this press fit area (supported by an additional elastic PTFE seal). The valve stem has no contact with medium. A PFA coated O-ring on the stem output directly behind the primary seal serves as an additional – third – barrier. This „triple sealing" ensures the absolutely leakage-free function to the outside and also prevents any leakage into the interior of the body behind. This is the safest and most effective method to prevent emissions as specified in the „TA-Luft".

Advantages of the Butterfly valves

Efficient and reliable automation with the exchangeable flange

GEFA-MULTITOP



Hand lever



Hand gear



Pneumatic actuator



Electric actuator



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
66	Edelstahl (up to DN 150-1.4581) from DN 200-1.4408
31	Stainless steel, polished
77	PTFE coated
92	Hastelloy C 22
93	Hastelloy C
94	Titanium

Code	Seat
T	PTFE
TK	PTFE/carb
U	UHMWPE

Technical changes reserved

TA-Luft / VDI 2440

PTFE lined butterfly valves have been tested and certified according to the applicable regulations of the TA-Luft / VDI 2440. The stringent test requirements were fully met by the butterfly valves, even with safety reserves, under continuous load and permanent switching as well as under temperature and pressure.

Result: 1×10^{-4} mbar x ltr./ (s x m) as max. leakage is by far not reached. The requirements of the TA-Luft are clearly outperformed by the butterfly valves.

Advantages for the user: A butterfly valve with safe properties concerning leak tightness, function and lifetime. References confirm the excellent quality of this convincing butterfly technology.

With the material PTFE (fluoroplastic) the user has a material at hand which can hardly be replaced by any other material with respect to properties like corrosion or chemical resistance. This material has become indispensable for the lining and coating of product contacting valve components - like in GEFA butterfly valves KG 6 / KG 8.

PTFE (Polytetrafluoroethylene)

Application temperature: -30 °C to +180 °C

PTFE/carbon

(Reinforced polytetrafluoroethylene with 25% carbon as filler)

Application temperature: -30 °C to +200 °C

UHMWPE

(Ultra high molecular polyethylene)

Application temperature: -30 °C to +70 °C



ZERTIFIKAT

Hiermit wird die Gleichwertigkeit der Well

GEFA-Chemieklappen
Serie KG6/KG8 mit PFA-beschichteten
(TA Luft-Ausführung)

Hersteller:
GEFA Prozesstechnik GmbH

gegenüber einer Spindelabdichtung
und nachgeschalteter Sicherheitsstopp

Die Anforderungen der Ersten Allgemeine
Bundes-Immissionsschutzgesetz (Technisch
Luft - TA Luft) vom 24.07.02, Absatz 5.2.6
Ausgabe November 2000, Absatz

Dieses Zertifikat gilt nur in Verbindung
4.3-3374/98 vom 09.08.00, Pr

Essen, 06.12.2005

RWTUV Systems GmbH
Bereich West
Region Essen

Essen, 06.12.2005

RWTUV Systems GmbH
Bereich West
Region Essen

Der Sachverständige
des RWTUV e.V.



ZERTIFIKAT

Hiermit wird die Gleichwertigkeit der Wellenabdichtung für

GEFA-Chemieklappen
Serie KG6/KG8 mit Klappenscheiben aus Edelstahl
(TA Luft-Ausführung)

Hersteller:
GEFA Prozesstechnik GmbH, Dortmund

gegenüber einer Spindelabdichtung mittels Faltenbalg
und nachgeschalteter Sicherheitsstoppbuchse bescheinigt.

Die Anforderungen der Ersten Allgemeinen Verwaltungsvorschrift zum
Bundes-Immissionsschutzgesetz (Technische Anleitung zur Reinhaltung der
Luft - TA Luft) vom 24.07.02, Absatz 5.2.6.4, und der Richtlinie VDI 2440,
Ausgabe November 2000, Absatz 3.3.1.3, sind erfüllt.

Dieses Zertifikat gilt nur in Verbindung mit unserer Bescheinigung
4.3-3374/98 vom 09.08.00, Prüf-Nr. GI/180700/01.

Available Materials



Type K 16 [DN 350 to DN 600]

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, tight sealing up to 10 bar.

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 K 18 [DN 350 to DN 600]

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.

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

With the PTFE-lined and centrally mounted butterfly valve for chemical applications aggressive and corrosive media can be reliably sealed off, controlled and regulated.

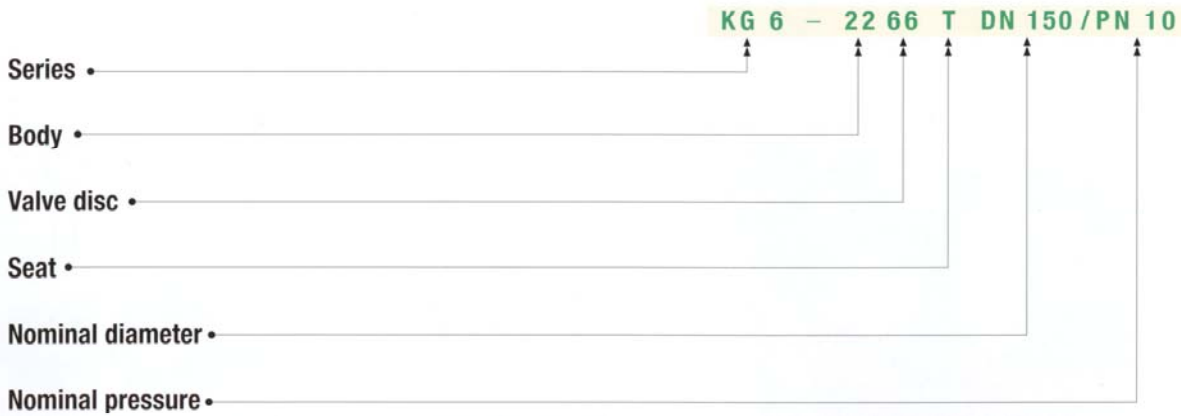
The material PTFE guarantees almost unlimited use with full chemical resistance. In many important sectors the minimum material thickness is even exceeded to guarantee high diffusion stability.

Only two components actually have contact with medium: Valve disc and seat ring. Thanks to the absolutely clearance-free construction and the physiologically neutral properties of the product contacting PTFE material, this valve can typically be used in food production and in the pharmaceutical industry.

The dual spring principle behind the seat guarantees permanent sealing at the shut-off.

- With the elastomer „spring element“ behind the PTFE-lining, sealing around the entire outline of the shut-off is reliably achieved.
- The primary sealing for the shaft gate is separately spring loaded by exactly adjusted Belleville springs behind the PTFE.





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



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