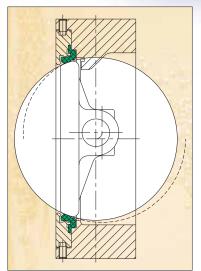


High performance butterfly valve (on/off- and control valve) type HG

Proven on/off- and control valve - significantly optimized

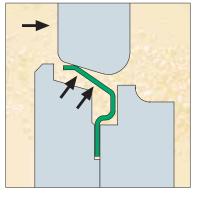
Since many years high performance butterfly valves have been part of our product range. Based on our wide experience in the use of high performance butterfly valves this »new« product was developed:

- optimized seat- and sealing system
- Automation with all actuator systems without interrupting the valve shaft

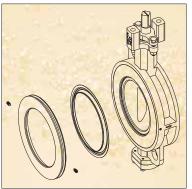


The double-eccentric principle

makes closing reliable as possible and nearly free from wear. Due to the double displacement of the shaft the valve disc is raised up from its seat at the beginning of the opening move. The seat is then free from heavy pressure over the whole circumference, this means that 90° turning is frictionless at even reduced torques. Due to these construction features an extremely high rate of operational functionality is achieved and maintained — also at a high frequency of operations.



The recommended flow direction (arrow on body) guarantees absolute tightness. The working pressure (differential pressure) of the medium also supports the function of sealing, pressing the seat against the sealing surface of the disc. The insert ring and the body protect the flexible seat with efficiency against negative flow conditions, even in case of flow and pressure changes the valve remains tight.



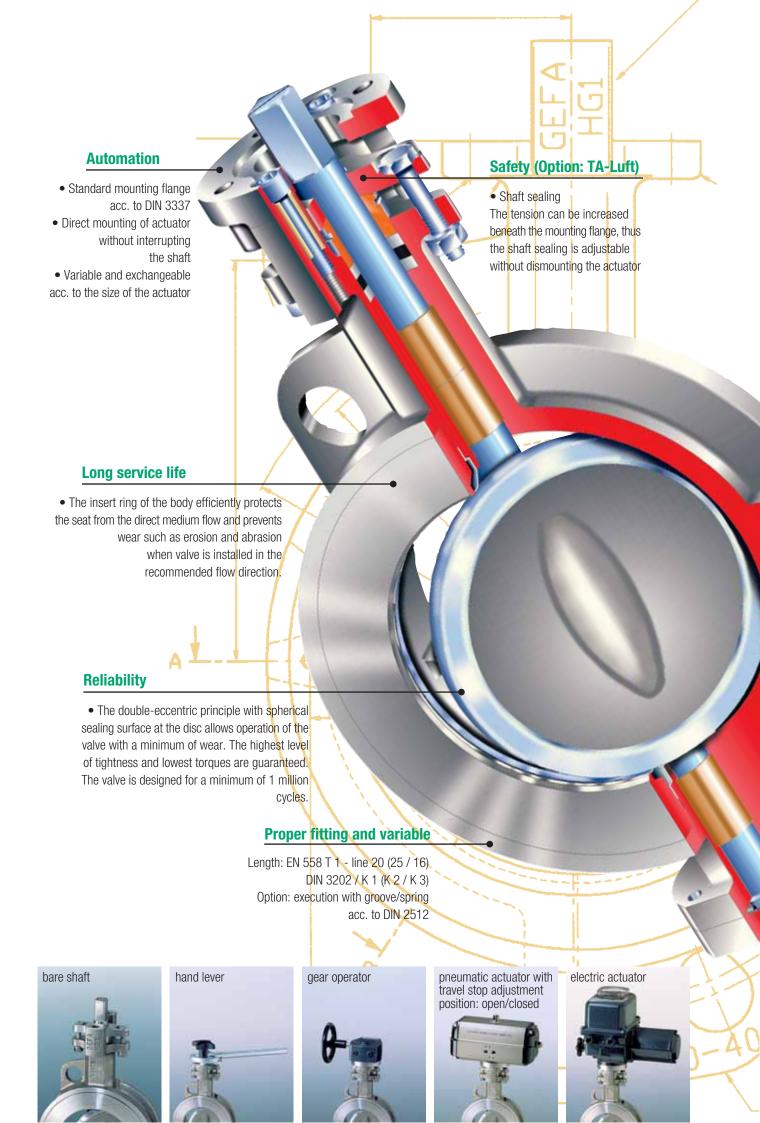
The seat is a functional part and very easy to reach and service, seat changing can be done on-site in a short space of time without the need of special tools.

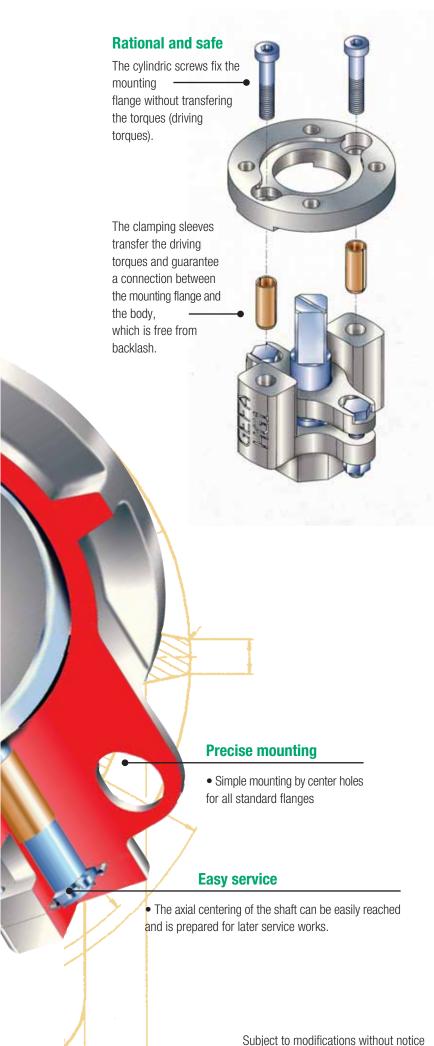
Options





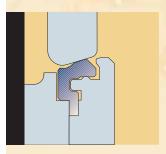






Seat systems

Highly flexible with an optimized restoring force. If the installation is carried out in the recommended flow direction, the differential pressure efficiently supports the tight closing of the valve.

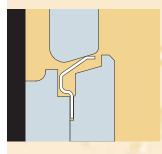


R-PTFE seat

Highly flexible designed – chemically speaking the seat has an almost permanent life. Remains stable with respect to pressure due to glass fiber content – even in case of high temperatures.

Tightness: FN 12266-1/PG 12-A

Tightness: EN 12266-1/PG 12-A (DIN 3230, T3/B01/BN1)



Metal seat

Very good spring characteristics due to a special form. Resistant to high temperatures due to a seat construction consisting of:

• 1.4571 nitrated Tightness: EN 12266-1/PG 12-B (DIN 3230, T3/B02/BN2)

Options

- Fire safe seat
- Seat for low temperature
- Special seat materials for extreme applications



Automatic unit HG 1 with electro-pneumatic positioner (control valve)

Materials available			M	а	t	е	r i	a	I	
Part N	lo. Description	HG4466 TG	HG666	6 TG	HG4466 N	1	HG6666 M	HG446	6 HM	HG6666 HM
max. v	working temperature	+ 220°C	+ 220°C		+ 220°C		+ 220°C	+ 450°C		+ 450°C
1	Body	GS-C 25	1.4408		GS-C 25		1.4408	GS-C 25		1.4408
2	Disc	1.4408	1.4408		1.4408/nitra	ted	1.4408/nitrate	d 1.4408/r	nitrated	1.4408/nitrated
3	Shaft	1.4571	1.4571		1.4571		1.4571	1.4571		1.4571
4*	Seat	PTFE/Glass	PTFE/Gla	SS	1.4571/nitra	ted	1.4571/nitrate	<mark>d</mark> 1.4571/r	nitrated	1.4571/nitrated
5	Bearing	1.4401/PTFE	1.4401/F	TFE	1.4401/PTF	Ξ	1.4401/PTFE	1.4571/r	nitrated	1.4571/nitrated
6*	Gland packing	PTFE	PTFE		PTFE		PTFE	Graphite		Graphite
7	Insert ring	C-steel	1.4571		C-steel		1.4571	C-steel		1.4571
* Spai	re parts/wearing part	S						S	ubject to changes	

١	.0			oubject to changes
	Pres	sure class,	/ max. worki	ng pressure
	size	nomina	al pressure	max. working pressure
	DN 50 - DN 300		/ 16 / 25 / 40 50 / 300	25 bar
	DN 350 - DN 500	PN 10 / ANSI 15	/ 16 / 25 50	16 bar
	DN 600 - DN 1000	PN 10 / ANSI 15		10 bar

The maximal working pressure is depending on the working temperature.

Subject to changes

Lugged body design



Valve with lugged body design for end of line service. Directly behind the valve the pipe can be flanged on one side (recommended pressure direction: please see arrow on the body)



Valve with lugged body design and pressuretightly screwed insert ring, the valve can be flanged on both sides (HG7-...BK). The max. working pressure has to be observed!

Other executions



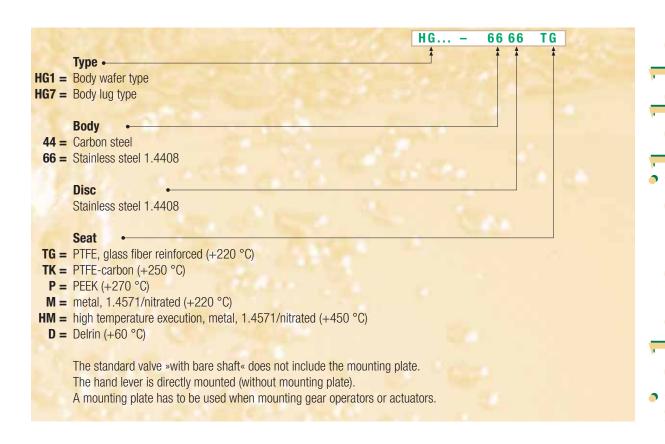
High performance butterfly valve as welded valve with double shell for heating — without interruption of the heating jacket in the pipe

Other Options

- Pressure ranges: PN 40 / PN 63
- Valve with heating-/cooling jacket
- Special materials
- Throttle valve without dead space
- 0-ring sealing for bearings and shaft guidance
- 3-way combination



Low temperature execution for cool media up to $-200 \,^{\circ}\text{C}$







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