

FLANGED BALL VALVE

Stainless steel | PFA-lined | type FGT

Advantages

Reliable chemical resistance due to PFA-lining on the inside – stainless steel on the outside

High diffusion-resistance due to thick-walled lining

Full bore

Minimum contamination due to optimised/reduced cavity

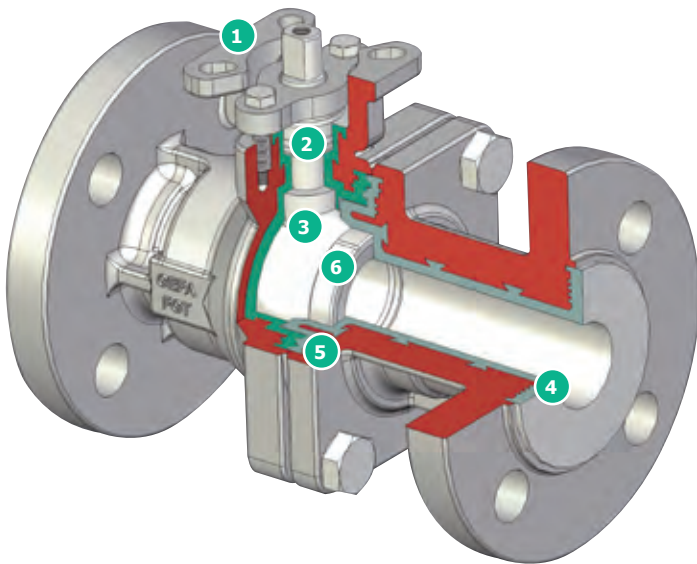
Direct mounting of actuators – safe and efficient – due to interface according to EN ISO 5211



TECHNICAL FEATURES

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Two-piece stainless-steel ball valve – ideally and cost-effectively prepared for the automation according to your requirements



1 Automation

- Standard mounting flange according to EN ISO 5211
- Direct actuator mounting without interruption of the stem
- Pneumatic, electrical or manual actuation possible

2 Safety

- Low-maintenance due to spring-loaded V-rings made of PTFE
- Anti-blowout stem
- Optional: TA-Luft

3 Stem and ball

Ball and stem are PFA-lined for maximum protection against aggressive media.

4 Lining

Thick-walled designed PFA-lining (3 mm), dimensionally stable, connected with the body and highly diffusion-resistant.

5 Body seal

Safe, labyrinth-shaped sealing of the body halves due to the lining material. No separate body seal necessary.

6 Seat ring

Completely leak-tight in the bore due to the special form of the PTFE seat rings. The preload of the seat rings causes a spring effect, which results in a reliable sealing in all pressure ranges.

THE TYPES

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Type FGT

PFA-lined flanged ball valve DN 15 – 100
PN 10 – PN 40 / class 150 with full bore

The material combination stainless steel 1.4408** on the outside and PFA fluoropolymer as lining coming into contact with the medium ensures a very good chemical resistance and the external corrosive influences are also considered. The interface according to EN ISO 5211 allows a cost-effective automation and the direct mounting of actuating elements and actuators.

** From DN 65 body made of steel epoxy coated, stainless steel upon request

Technical data

Lining of body, ball and stem:

PFA

Mounting flange

EN ISO 5211

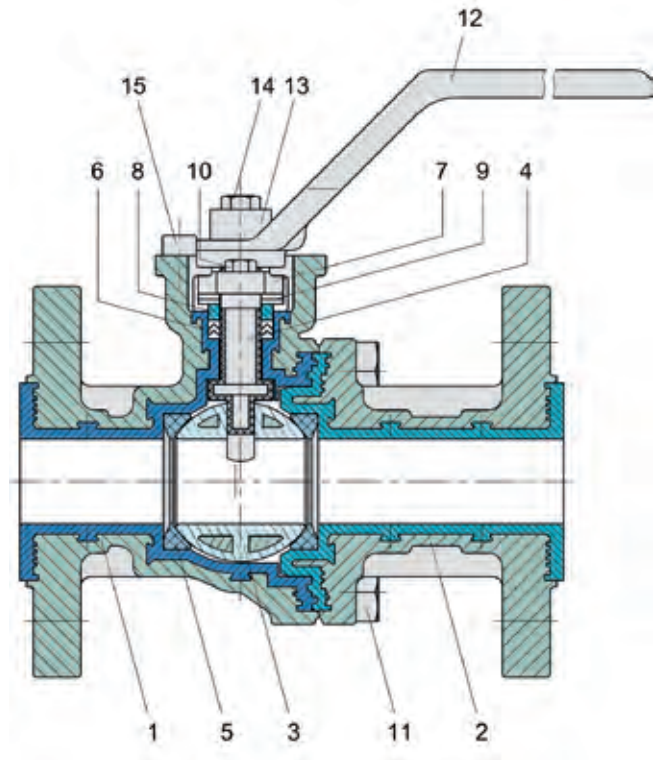
Face-to-face dimension

EN 558 line 1 (DIN3202-F1)

Flange connection

EN 1092, PN 10 - PN 40

ASME B 16.5 – Class 150



Parts list

Pos.	Designation	Werkstoffe
1	Body**	1.4408 / PFA
2	Partial body halves	1.4408 / PFA
3	Ball	1.4408 / PFA
4	Stem	1.4313 / PFA
5*	Seat ring	PTFE
6*	Packing	PTFE
7	Gland flange	1.4308
8	Gland	1.4301
9	Disc spring washer	1.4310
10	Hexagon screw	Stainless steel A2
11	Hexagon screw	Stainless steel A2
12	Hand lever	1.4308
13	Case	1.4305
14	Hexagon screw	Stainless steel A2
15	Stop screw	Stainless steel A2

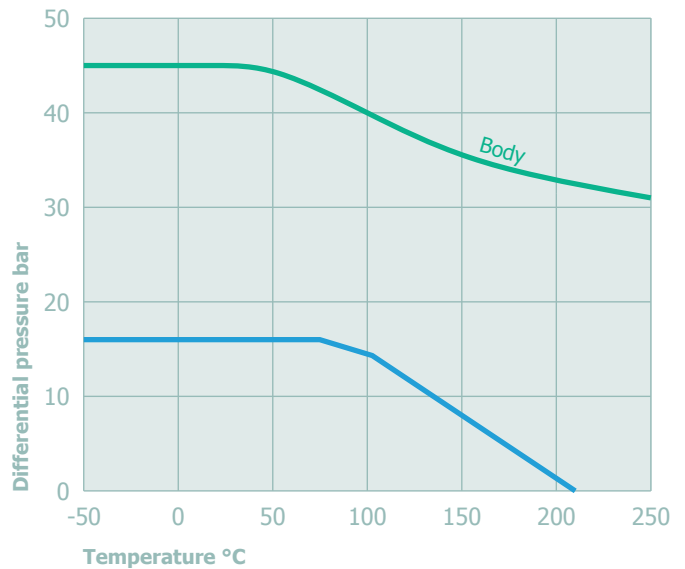
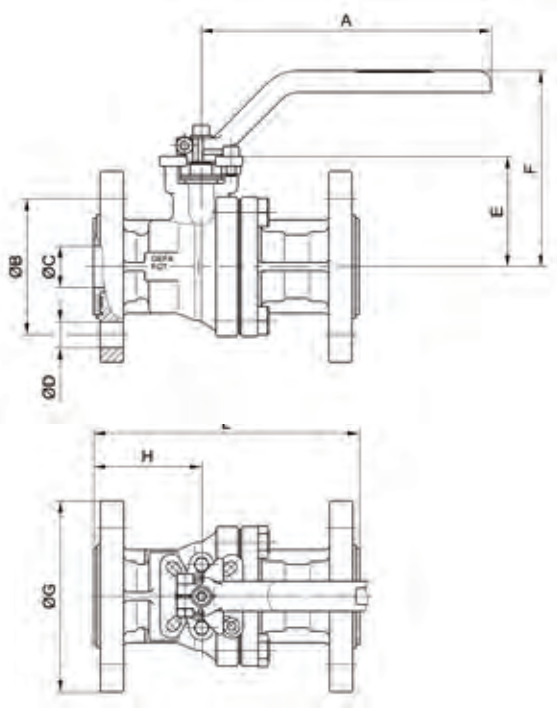
* Wear parts (seal kit)

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Other materials available

TECHNICAL DATA

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Pressure and temperature range diagram



DN	NPS	A	ø B		ø C	ø D		E	F	ø G	H	L	kg
			PN10-40	Class150		PN10-40	Class150						
15	½"	160	65	60,5	17	4 x 14	4 x 15,7	53	102	95	58	130	2,5
20	¾"	160	75	69,9	20	4 x 14	4 x 15,7	56	104	105	65	150	3,3
25	1"	175	85	79,2	25	4 x 14	4 x 15,7	67	120	115	65	160	4,2
32	1 ¼"	175	100	88,9	32	4 x 18	4 x 15,7	72	125	140	75	180	5,7
40	1 ½"	220	110	98,6	40	4 x 18	4 x 15,7	83	140	150	85	200	7,3
50	2"	220	125	120,7	50	4 x 18	4 x 19,1	91	147	165	100	230	10
65	2 ½"	251	145	139,7	65	4 x 18	4 x 19,1	106	164	185	77	290	17,2
80	3"	251	160	152,4	80	8 x 18	4 x 19,1	115	177	200	81	310	20,7
100	4"	315	180	190,5	100	8 x 18	8 x 19,1	130	192	220	92	350	32

All pressure and temperature specifications are maximum application limits, which are influenced by the interaction of all application factors. Therefore, without technical design and without our confirmation, the specifications are without commitment.