

Features

- Swiss manufacturer
- One-piece body design (*with screwed insert)
- Laser welded, without body seal
- Full bore
- Chambered seats
- Integrated cavity pressure relief system
- Replaceable packing in depressurized, built-in condition
- Anti blow-out stem
- Low cavity behind the seats
- Antistatic device
- Smart construction shape, minimum weight and good accessibility
- Fire Safe acc. to BS 6755 Part 2 (*design)
- All valves comply to PED 2014/68/EU
- SVGW approved
- All valves are in compliance with TA-Luft
- ATEX certification acc. directive 2014/34/EU
- Tightness test acc. to EN 12266-1

Technical data

- Sizes (mm):** DN 10 – DN 150
- Pressure class:** PN (*6) 10–40 or ANSI Class 150/300 lbs (other pressure classes on request)
- Temperature range:** - 60°C up to +370°C (in acc. to the ratings)
- Connections:** Flanges acc. to EN 1092-1
Butt welding ends acc. to EN 12627
Threaded ends internal in acc. to DIN ISO 228-1
Threaded ends external in acc. to DIN ISO 228-1
- Face-to-face:** Flanged in acc. to EN 558 and ANSI B16.10
Butt welding ends in acc. to EN 12982 R1
Threaded ends in acc. to DIN 3202 T4 M2
In acc. to DIN EN ISO 5211:2001
- Top flange:** In acc. to DIN EN ISO 5211:2001

Options

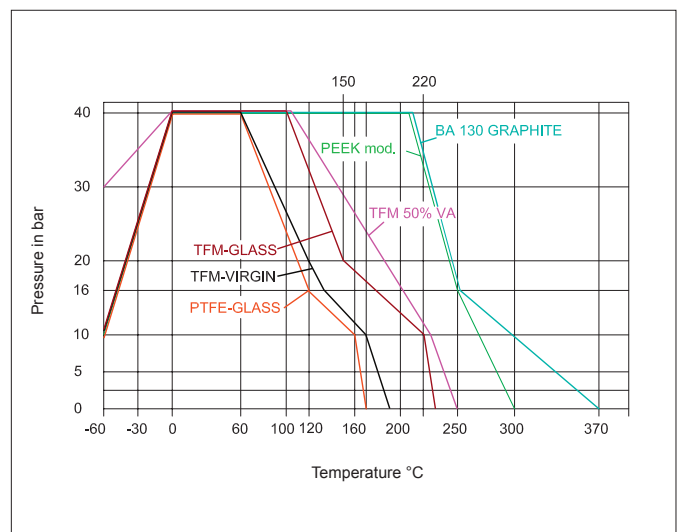
- Stem extension (special length available)
- Double gland packing with monitoring port
- Bio-Execution, surface finish Ra <0.8 µm in the through bore
- Pressure balancing hole in the ball
- Heating jacket
- Flushing bore
- Different connections and face-to-faces are available on request

General applications

Especially oriented to chemical and pharmaceutical industries, as well as for food and beverage processing.



Pressure and Temperature Ratings for the seats



Depending on size and pressure rating

*Tank bottom valves

Flanged ball valves

Dimensions and weight

with wrench

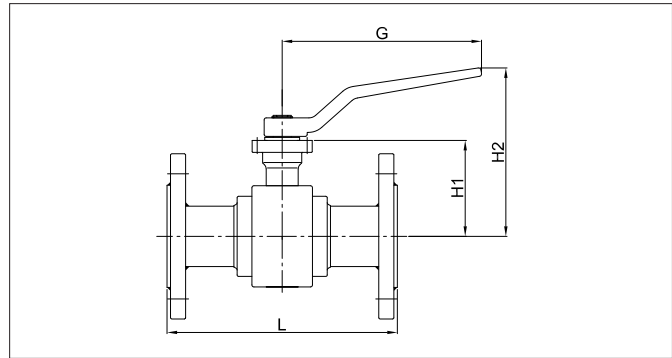
DN	KB* Ø mm	PN	L acc. to 558		H1	H2	G	ISO 5211	Weight (kg)
			R1	R27					R1
10	14	40	130	110	47	110	120	F03	1.8
15	14	40	130	115	47	110	120	F03	1.8
20	20	40	150	120	53	115	120	F03	2.4
25	25	40	160	125	63	125	120	F04	3.4
32	32	40	180	130	71	132	120	F04	5.2
40	40	40	200	140	87	160	200	F05	6.4
50	50	40	230	150	96	170	200	F05	9.6
65	65	16/40	290	170	119	156	300*	F07	13.9
80	80	16/40	310	180	131	164	300*	F07	21.1
100	100	16/40	350	190	146	184	300*	F07	28.3
150	150	16/40	480 ¹⁾	350	221	280	550*	F12	80

*KB = Ball bore

1) on request 450 mm (R28)

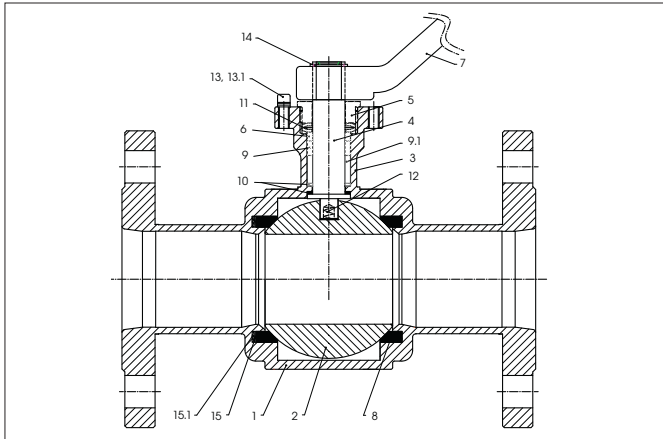
*double wrench total length

Dimensions in mm



Flanges in acc. to EN 1092-1 Form B

Parts list



Item	Description	Material	Quantity
1	Body	1.4404	1
2	Ball	1.4408	1
3	Gland	1.4404	1
4	Stem	1.4404	1
5	Gland cover	1.4305	1
6	Thrust ring	1.4305	1
7	Wrench	Anticorodal	1
8	Seat	PTFE Glas/TFM pure	2
9	Stem packing	Graphite	1
9.1	Stem packing	PTFE	1
10	Slide ring	PTFE	2
11	Spring washer	1.4310	2
12	Antistatic spring	1.4401	1
13	Stop screw	1.4301	2
13.1	Washer	1.4301	6
14	Circlip ring	1.4034	1
15	Spring ring	Alloy718	1
15.1	Ground ring	PTFE	1

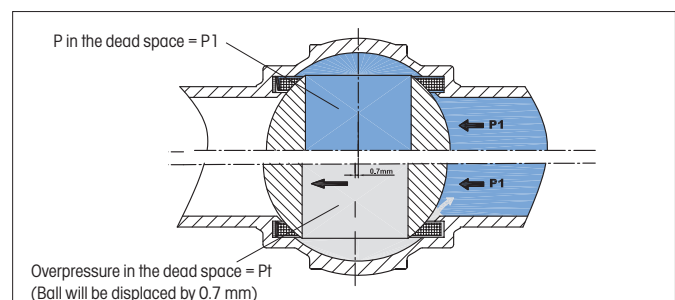
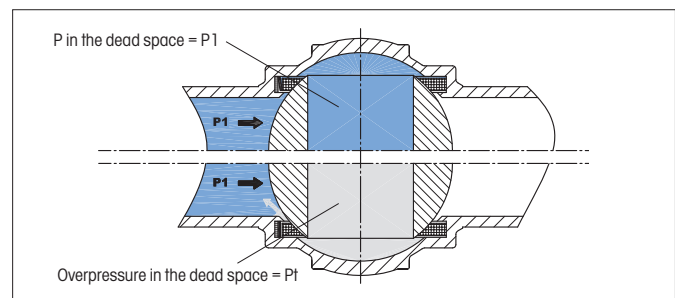
Other body materials such as 1.4435, 1.4539, Hastelloy, Titan, Tantal, etc. on request.

Integrated cavity pressure relief system

Features

- The system relieves the overpressure inside the ball (Pt) to the upstream pressure side P1 independent of the flow direction. If the medium is able to freeze, the upstream pressure must be on spring side. The spring is always on the body welding side.
- The chambered seats remain always in contact with the ball. The system is relieving over channels between seat and body (no abrasion or dirt in the sealing surface of the seat).
- The system is suitable for liquid and gaseous media.
- The system is also suitable for vacuum applications.

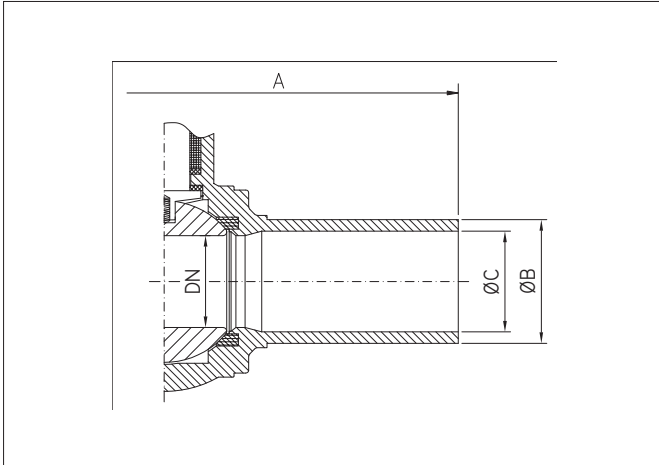
Cavity pressure relieving over spring loaded seat



Subject to alterations

Butt welding and threaded ends ball valves

Butt welding ends



DN	KB* Ø mm	PN	A	ØB	ØC	Weight. (kg)	S
10	14	40	130	17.2	14	0.6	1.6
15	14	40	130	21.3	18.1	0.6	1.6
20	20	40	150	26.9	23.7	0.9	1.6
25	25	40	160	33.7	29.7	1.3	2.0
32	32	40	180	42.4	38.4	2.1	2.0
40	40	40	200	48.3	44.3	2.9	2.0
50	50	40	230	60.3	56.3	4.8	2.0
65	65	16	290	76.1	71.5	7.9	2.0
80	80	16	310	88.9	84.3	12.4	2.3
100	100	16	350	114.3	109.1	20	2.6
150	150	16	480	168.3	163.1	57	

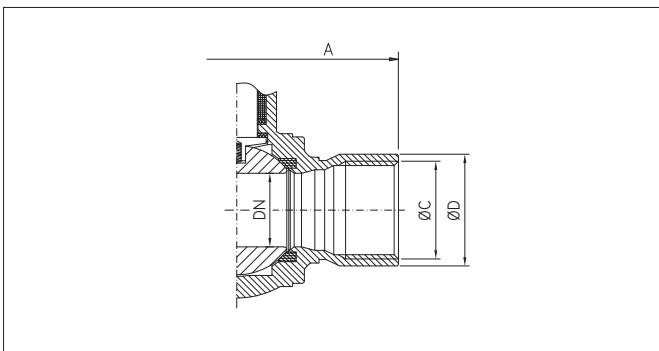
*KB = Ball bore

Dimensions in mm

Face-to-face dimensions acc. to EN 12982 R1

Butt welding ends acc. to DIN 11866 line B

Internal threads



DN	KB* Ø mm	PN	A	B	ØC	ØD	Weight. (kg)
10	14	40	70	7	G 3/8"	21	0.6
15	14	40	85	10	G 1/2"	26	0.6
20	20	40	100	12	G 3/4"	35	0.9
25	25	40	110	14	G 1"	42	1.3
32	32	40	130	16	G 1 1/4"	60	2.4
40	40	40	150	18	G 1 1/2"	65	3.4
50	50	40	180	20	G 2"	75	5.4

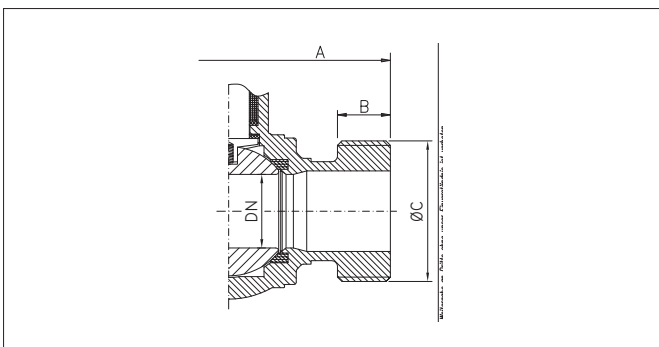
*KB = Ball bore

Dimensions in mm

Face-to-face dimensions acc. to DIN 3202 T4 M2

Parallel threads acc. to EN ISO 228-1

External threads



DN	KB* Ø mm	PN	A	B	ØC	Weight. (kg)
10	14	40	70	12	G 3/4"	0.7
15	14	40	85	17	G 1"	0.7
20	20	40	100	21	G 1 1/4"	1
25	25	40	110	22	G 1 1/2"	1.4
32	32	40	130	26	G 2"	2.5
40	40	40	150	26	G 2 1/4"	3.3
50	50	40	180	26	G 2 3/4"	5.9

*KB = Ball bore

Dimensions in mm

Face-to-face dimensions acc. to DIN 3202 T4 M2

Parallel threads acc. to EN ISO 228-1 Tolerance Class A

Tank bottom valves

with integrated cavity pressure relief system

Dimensions and weight

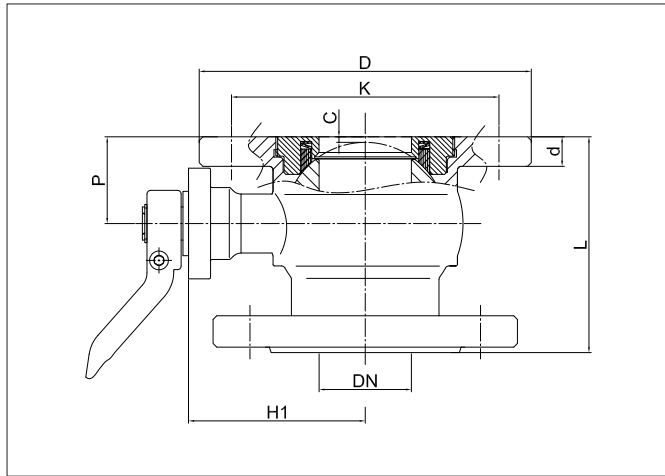
with wrench

DN	DN Tank side	DN Outlet	PN	H1	L	P	Flange tank side					Outlet				ISO 5211	Weight (kg) BOF
							D	K	d	C	G	M	ØBW	L1			
40	40	40	16	87	91	38	150	110	16	-3.5	G 1½"	16.5	48.3	97	F05	6	
50	65	50	16	96	117	47	180	145	18	-4	G 2"	17	60.3	117	F05	9.5	
65	80	65	16	119	130	54	200	160	18	0	G 2½"	17	76.1	130	F07	14	
80	100	80	16	131	140	65	220	180	18	1	G 3"	16	88.9	150	F07	18	
100	125	100	16	146	155	76	250	210	22	5	G 4"	16	114.3	175	F07	25	
125*	150	125	16	146	202	76	285	240	22	5	-	-	138.4	-	F07	38	
150	200	150	16	221	235	109	340	295	24	12	-	-	164.5	-	F12	62	

*reduced bore

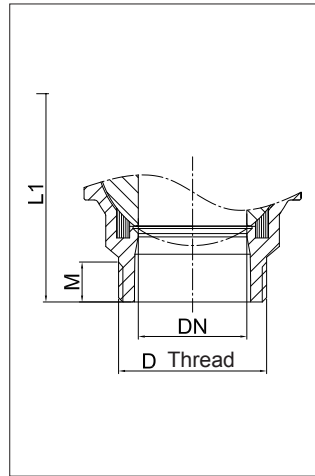
Dimensions in mm

Type BOF DN 40-150



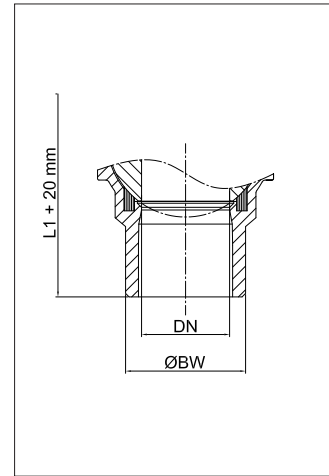
Outlet with flange

Type BOG DN 40-100



Outlet with external thread

Type BOS DN 40-150



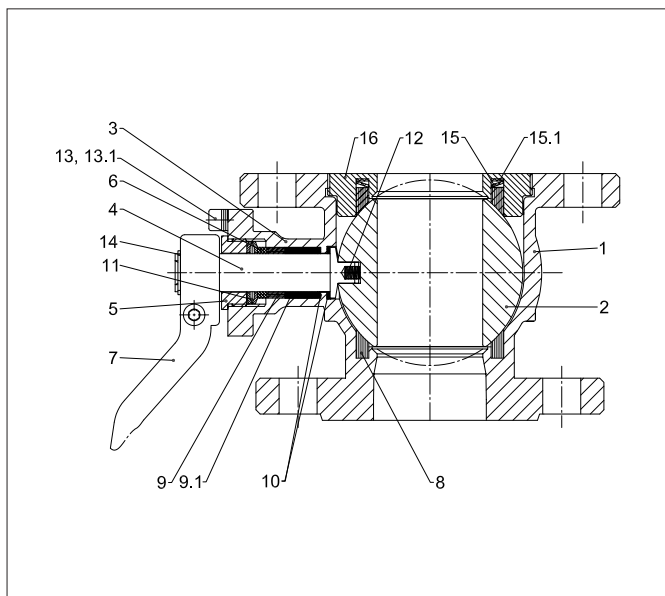
Outlet with butt welding ends

Outlet flange:

DN 40-65 through holes

DN 80-150 threaded holes

Parts list

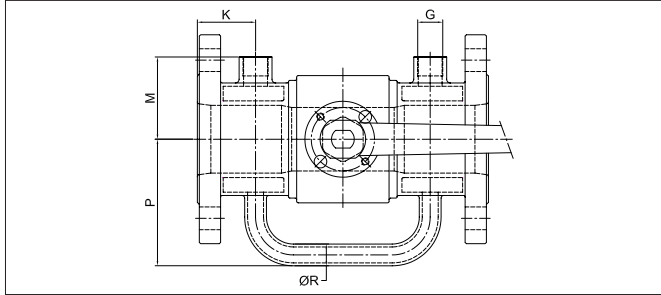


Item	Description	Material	Quantity
1	Body	1.4404	1
2	Ball	1.4408	1
3	Gland	1.4404	1
4	Stem	1.4404	1
5	Gland cover	1.4305	1
6	Thrust ring	1.4305	1
7	Wrench	Anticorodal	1
8	Seat	PTFE Glas/TFM pure	2
9	Stem packing	Graphit	1
9.1	Stem packing	PTFE	1
10	Slide ring	PTFE	2
11	Spring washer	1.4310	2
12	Antistatic spring	1.4401	1
13	Stop screw	1.4301	2
13.1	Washer	1.4301	6
14	Circlip ring	1.4034	1
15	Spring ring	Alloy 718	1
15.1	Ground ring	PTFE	1
16	Screwed insert	1.4404	1

Subject to alterations

Options

Flanged ball valve with heating jacket in 1.4307



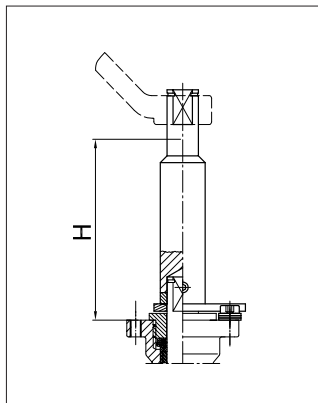
DN	PN	K±2	M±2	P	G	ØR
10-15	40	30	28	65	¼"	17.2x2.3
20	40	33	31	70	¼"	17.2x2.3
25	40	36	34	70	¼"	17.2x2.3
32	40	40	42	80	¼"	17.2x2.3
40	40	43	54	85	½"	17.2x2.3
50	40	46	64	95	½"	17.2x2.3
65	16/40	51	74	100	½"	17.2x2.3
80	16/40	61	84	115	½"	17.2x2.3
100	16/40	65	96	130	½"	17.2x2.3

Ball valves with heating jacket are always supplied with integrated cavity pressure relief system

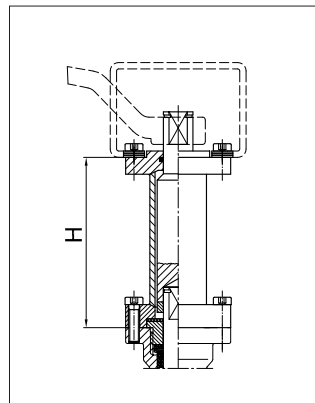
Dimensions in mm

Stem extension in 1.4307/1.4305/1.4404

For wrench

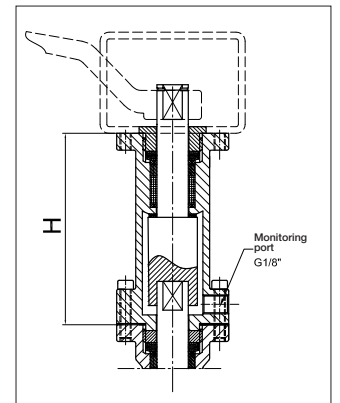


For wrench or mounting bracket



Double gland packing

For wrench or mounting bracket



For application involving hazardous media.
(only onto valve with integrated cavity pressure relief system).

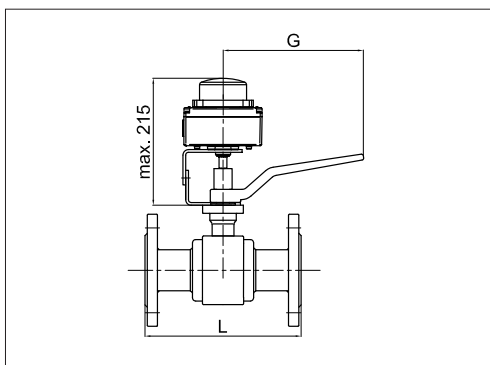
DN	Type	H
10-20	SVL+AB010020PM	81
25-32	SVL+AB025032PM	81
40-50	SVL+AB040050PM	105
65-100	SVL+AB065100PM	105
150	SVL+AB150000PM	105

DN	Type	H
10-20	SVL+SVS010020PM	81
25-32	SVL+SVS025032PM	81
40-50	SVL+SVS040050PM	105
65-100	SVL+SVS065100PM	105
150	SVL+SVS150000PM	105

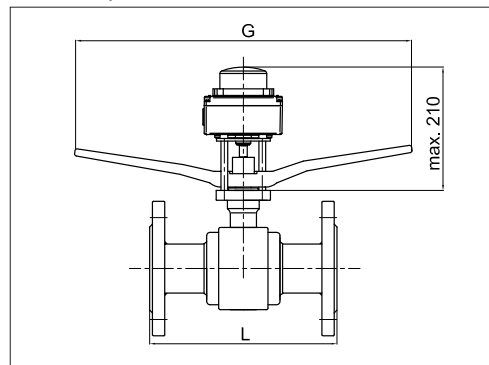
DN	Type	H
10-20	DOSB440410020PM	81
25-32	DOSB440425032PM	81
40-50	DOSB440440050PM	105
65-100	DOSB440465100PM	105
150	DOSB4404150PM	160

Dimensions in mm

Assembled limit switch box acc. to VDI/VDE 3845

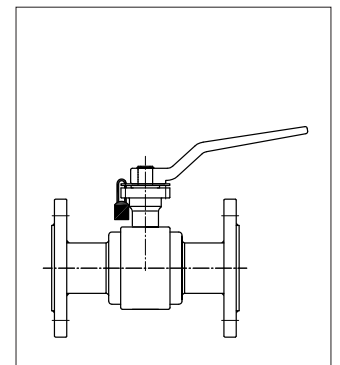


DN 10-50
with Soldo limit switch box type SF



DN 65-150
with Soldo limit switch box type SF

Locking device



in «open» and «closed» position

Subject to alterations

Product coding

P 2 5 0 5 1 4404 40 050

Connections

- D** – External threads
- E** – Internal threads
- G** – ANSI Class 150 lbs flanges in body material
- H** – ANSI Class 300 lbs flanges in body material
- K** – Short pattern DIN flanges in 1.4003 plated with body material (only DN 150)
- L** – Short pattern DIN flanges in body material
- M** – DIN flanges 1.4003 plated with body material (DN80–150)*
- P** – DIN flanges in body material (DN10–65)*
- S** – Butt welding ends
- BOF** – Tank bottom valve with flanges
- BOG** – Tank bottom valve with thread
- BOS** – Tank bottom valve with butt welding end
- C** – Wafer type

Seat/packing material

- 0** – TFM-Virgin/PTFE & graphite
- 1** – PTFE pure/PTFE & graphite
- 2** – PTFE-Glass or TFM pure/PTFE & graphite*
- 3** – TFM-Glass/PTFE & graphite
- 4** – BA 130/graphite
- 5** – PEEK mod./graphite
- 9** – TFM 50% VA/graphite

Certificates

- 5** – EN 10204 – 3.1*
- B** – Bio execution

Options

- 0** – No options*
- 2** – Flushing bore
- 3** – Pressure balancing hole
- 5** – Grooved to EN 1092-1, Form D
- 6** – Heating jacket 1.4301

* Standard

Size

- 010** – DN 10
- 015** – DN 15 / 1/2"
- 020** – DN 20 / 3/4"
- 025** – DN 25 / 1"
- 032** – DN 32 / 1 1/4"
- 040** – DN 40 / 1 1/2"
- 050** – DN 50 / 2"
- 065** – DN 65 / 2 1/2"
- 080** – DN 80 / 3"
- 100** – DN 100 / 4"
- 150** – DN 150 / 6"

Pressure rating

- 16** – 16 bar (*DN 65 – 150)
- 25** – 25 bar
- 40** – 40 bar (*DN 10 – 50)
- 15** – 150 lbs (DN 15 – 150)
- 30** – 300 lbs (DN 15 – 150)

Body material

- 4404** – 1.4404*
- 4435** – 1.4435
- TIT2** – Titan Grad 2 (3.7035)
- C276** – Hastelloy C 276
- TANT** – Tantal

Wrench

- 1** – Aluminium white* DN 10–50
Aluminium black DN 65–100, 1.4305 DN 150

Cavity pressure relief system

- 0** – Without* (only DN 10.15)
- 1** – Without, Ra <0.8 µm in the trough bore (only DN 10.15)
- 5** – Integrated*
- B** – Integrated, Ra <0.8 µm in the trough bore

Version_08.22



Other Products from Peter Meyer & Co. AG

Segment Ball Valves

- Eccentric mounted shaft
- 2 piece design
- Full bore
- Seats in Metal, PEEK or TFM
- Suitable for resinous media such as adhesives and colorants, products with catalyst, and so on



Cryogenic Ball Valves

- One-piece body design
- Laser welded, without body seal
- Chambered seats
- Integrated cavity pressure relief system
- Suitable for very cold media in cryogenic process installations



Metal Seated Ball Valves

- One-piece or split body design
- Seats and ball surface coated
- Suitable for high temperature range, for abrasive, erosive and other wide range of applications



Ball Valves for Solids

- Trunnion mounted design
- Only one seat with pre-loaded spring element
- Full ball or segment
- Seat in metal, PEEK or TFM
- Suitable for dry and abrasive solids, such as powders, ash, and so on



Top Entry Segment Ball Valves

- Top Entry Design (Valve can be opened from the top)
- Access to the interior parts without removing the valve from the pipeline
- Eccentric mounted shaft
- No cavity
- Especially suitable for chemical, pharmaceutical and food industry in multipurpose plants where fast and good cleaning is required

