

## Description

Stainless steel ball valve with buttweld ends, with 3 piece body, available with bare shaft, handlever or pneumatic actuator. Suitable for Pharma, Food and Biotech.

## Product features

- Connection: Buttweld ends DN 8-100 (1/4" - 4") According to EN ISO 1127, Length of buttweld ends suitable for orbital welding Other connection standards (ASME BPE, DIN 11850 R2 / DIN EN 10357 - Serie A) on request.
- Materials and surface: Stainless steel 1.4435 / inside 0,8 µm mechanical polished, outside electrical polished
- Seals: PTFE FDA (GGF) PTFE+SS (metal reinforced)-FDA (GGD)
- Max. working pressure: According to buttweld ends standard (max. body pressure 63 bar). For steam 6 bar at 160°C
- Temperature range: -10°C ÷ 200°C. For steam 6 bar at 160°C
- TA-Luft: EN ISO 15848-1 compliant for selected materials



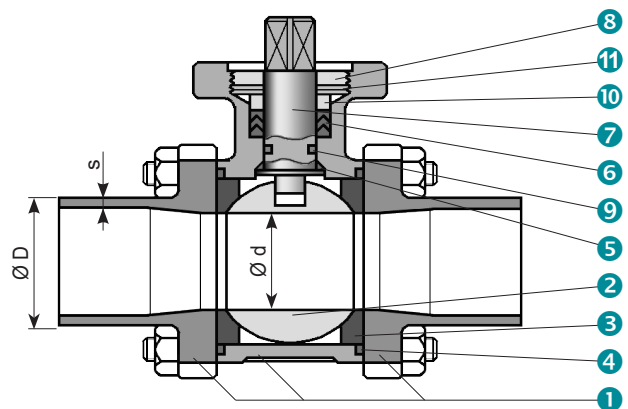
The ball valves BVP meet the safety requirements of the Pressure Equipments Directive 2014/68 (PED) appendix 1 for fluids of the groups 1 and 2.



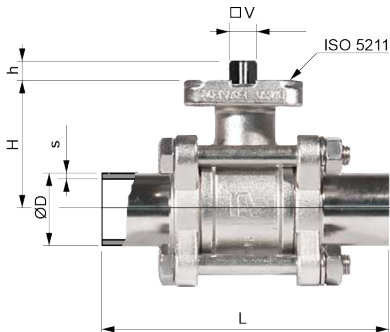
## Construction

1	Body (3 parts)	1.4435 ΔFe < 1%
2	Ball	1.4435 ΔFe < 1%
3	Seat ring	PTFE FDA (GGF) or PTFE-SS FDA (GGD) (for steam)
4	Seal ring	PTFE FDA
5	Washer	PTFE FDA
6	Stem seal self-adjusting	PTFE FDA
7	Stem	1.4435 ΔFe < 1%
8	Gland nut	AISI 316 (1.4401)
9	Seal ring	Silicone - FDA
10	Gland ring	AISI 316 (1.4401)
11	Bevel washer	Spring steel

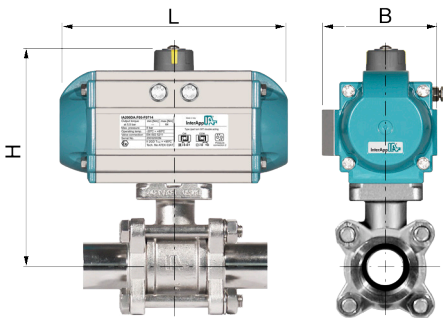
Option cavity filler seats (very low dead volume)



## Dimensions



	Size	DN	H	h	□ V	ISO	kv [m³/h]	[kg]	L	s	Ø D	Ø d
<b>BVP23FG.014.GGD</b>	1/4	8	40	9	9	F03+04	8,6	0,8	100	1,6	13,5	10
<b>BVP23FG.038.GGD</b>	3/8	10	40	9	9	F03+04	21	0,8	100	1,6	17,2	14
<b>BVP23FG.012.GGD</b>	1/2	15	40	9	9	F03+04	35	0,8	100	1,6	21,3	16
<b>BVP23FG.034.GGD</b>	3/4	20	44	9	9	F03+04	46	1,0	105	1,6	26,9	20
<b>BVP23FG.100.GGD</b>	1	25	52	12	11	F04+05	72	1,4	115	2	33,7	25
<b>BVP23FG.114.GGD</b>	1 1/4	32	58	12	11	F04+05	105	2,2	140	2	42,4	32
<b>BVP23FG.112.GGD</b>	1 1/2	40	68	12	14	F05+07	170	3,2	150	2	48,3	38
<b>BVP23FG.200.GGD</b>	2	50	77	16	14	F05+07	275	4,8	170	2	60,3	50
<b>BVP23FG.212.GGD</b>	2 1/2	65	98	19	17	F07+10	507	9,9	220	2	76,1	65
<b>BVP23FG.300.GGD</b>	3	80	110	19	17	F07+10	905	15,1	300	2,3	88,9	80
<b>BVP23FG.400.GGD</b>	4	100	138	24	22	F10	1414	23,4	325	2,3	114,3	100



### BVP + IA...D (pneum. double acting actuator)

	Size	DN	L	B	H	[kg]
<b>BVP23FG.014.GGD + IA045D.F0309</b>	1/4	8	118	62	126	1,6
<b>BVP23FG.038.GGD + IA045D.F0309</b>	3/8	10	118	62	126	1,6
<b>BVP23FG.012.GGD + IA050D.F0411 (R09)</b>	1/2	15	137	79	129	2,0
<b>BVP23FG.034.GGD + IA050D.F0411 (R09)</b>	3/4	20	137	79	133	2,2
<b>BVP23FG.100.GGD + IA050D.F03-F0511</b>	1	25	137	79	141	2,6
<b>BVP23FG.114.GGD + IA100D.F05-F0711</b>	1 1/4	32	154	92	163	3,9
<b>BVP23FG.112.GGD + IA100D.F05-F0714</b>	1 1/2	40	154	92	173	4,9
<b>BVP23FG.200.GGD + IA200D.F05-F0714</b>	2	50	204	105	199	7,8
<b>BVP23FG.212.GGD + IA250D.F05-F0714</b>	2 1/2	65	241	119	233	14,1
<b>BVP23FG.300.GGD + IA300D.F07-F1017</b>	3	80	259	127	257	20,8
<b>BVP23FG.400.GGD + IA300D.F07-F1022</b>	4	100	259	127	285	29,1

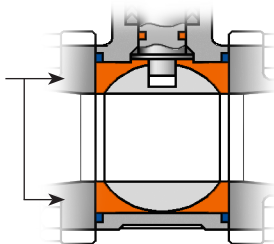
Actuator selection for  
 - standard PTFE seat ring,  
 - working pressure 16 bar,  
 - air supply pressure 6 bar.

For other seat ring versions or other working conditions please contact our technical department.

#### Option:

very low dead volume

**Not for steam applications**



### BVP + IA...S (pneum. single acting actuator)

	Size	DN	L	B	H	[kg]
<b>BVP23FG.014.GGD + IA050S12.F0411 (R09)</b>	1/4	8	118	79	129	1,7
<b>BVP23FG.038.GGD + IA050S12.F0411 (R09)</b>	3/8	10	118	79	129	2,1
<b>BVP23FG.012.GGD + IA050S12.F0411 (R09)</b>	1/2	15	118	79	129	2,1
<b>BVP23FG.034.GGD + IA100S12.F0411 (R09)</b>	3/4	20	154	92	149	2,9
<b>BVP23FG.100.GGD + IA100S12.F05-F0711</b>	1	25	154	92	157	3,3
<b>BVP23FG.114.GGD + IA200S12.F05-F0711</b>	1 1/4	32	204	105	180	5,6
<b>BVP23FG.112.GGD + IA200S12.F05-F0714</b>	1 1/2	40	204	105	190	6,6
<b>BVP23FG.200.GGD + IA250S12.F05-F0714</b>	2	50	241	119	212	9,6
<b>BVP23FG.212.GGD + IA300S12.F05-F07-F1017</b>	2 1/2	65	259	131	245	16,5
<b>BVP23FG.300.GGD + IA350S12.F07-F1017</b>	3	80	304	149	285	25,3
<b>BVP23FG.400.GGD + IA400S12.F07-F1022</b>	4	100	333	159	325	36,0

For temperatures >100°C a mounting bracket with adapter is mounted between ball valve and actuator. Please add the following values to dimension H:

DN 8-20 +50mm

DN 25-50 +60mm

DN 65-100 +80mm

Additionally up to 150°C a high temperature version of the IA Motion can be used without the mounting bracket.

### BVP + HL (hand lever 1.4401)

	Size	DN	W	H
<b>BVP23FG.014.GGD + HLS</b>	1/4	8	124	64
<b>BVP23FG.038.GGD + HLS</b>	3/8	10	124	64
<b>BVP23FG.012.GGD + HLS</b>	1/2	15	124	64
<b>BVP23FG.034.GGD + HLS</b>	3/4	20	124	68
<b>BVP23FG.100.GGD + HLS</b>	1	25	189	91
<b>BVP23FG.114.GGD + HLS</b>	1 1/4	32	189	97
<b>BVP23FG.112.GGD + HLS</b>	1 1/2	40	222	107
<b>BVP23FG.200.GGD + HLS</b>	2	50	222	117
<b>BVP23FG.212.GGD + HLS</b>	2 1/2	65	350	155
<b>BVP23FG.300.GGD + HLS</b>	3	80	350	167
<b>BVP23FG.400.GGD + HLS</b>	4	100	350	220

