

BVA23 - Ball valve (stainless steel, 3-piece body) 1/4" - 4"

Description

Stainless steel ball valve with 3-piece body, full bore, top flange for mounting of actuator

Product features

- Connection (Face to face dimension)
 - BVA23FT threaded ends DIN EN 10226-1 Rp $\frac{1}{4}$ " - 4" (DIN 3202-M3)
 - BVA23FB buttweld ends DN10-100 (DIN 3202-S13)
 - BVA23FL buttweld ends long DN15-100
 - BVA23FF flanged ends PN40 DN15-100 (DIN 3202-F1)
- Max. working pressure 63 bar (BVA23FF 40bar)
- Temperature range -10°C ÷ 160°C, Versions for lower temperatures on request



The ball valves BVA23 meet the safety requirements of the pressure Equipments Directive 97/23/EC (PED) appendix 1 for fluids of the groups 1 and 2.



BVA23FT



BVA23FB



BVA23FL

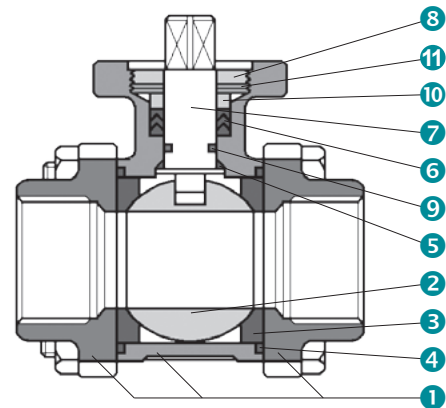


BVA23FF

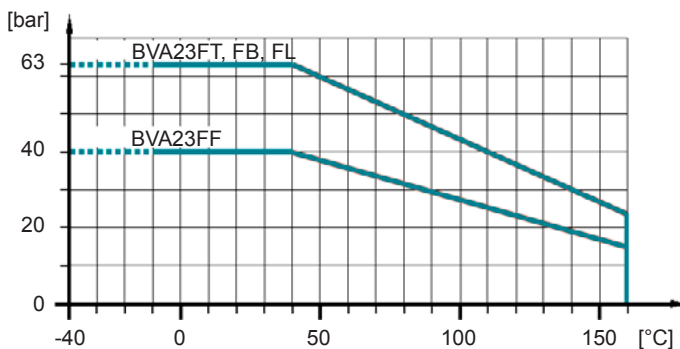


Construction

| | | |
|----|--|--------------------|
| 1 | 3-piece body | CF8M (1.4408) |
| 2 | Ball | AISI 316 (1.4401) |
| 3 | Seat ring white (standard) | PTFE + 15% GF |
| 3 | Seat ring grey (for steam) | PTFE-C, 25% Carbon |
| 4 | Seal ring | PTFE |
| 5 | Washer | PTFE |
| 6 | Stem seal self-adjusting with bevel washer (for approx. 30.000 cycles) | PTFE |
| 7 | Stem | AISI 316 (1.4401) |
| 8 | Gland nut | AISI 304 (1.4301) |
| 9 | Seal ring | Viton |
| 10 | Gland ring | AISI 304 (1.4301) |
| 11 | Bevel washer | Spring steel |



Pressure / temperature diagram



For temperatures >100°C a mounting bracket with adapter is mounted between ball valve and actuator.

For applications with steam:
 - use seat ring „S“ PTFE-C, 25% Carbon
 - t_{max} = 160°C, p_{max} = 6 bar

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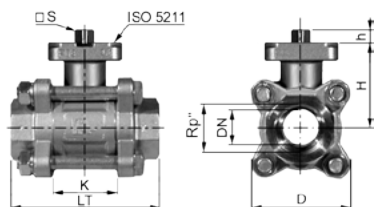
Type code

| | | | | | | |
|------------|-----------|----------|----------|------------|-----------|----------|
| BVA | 23 | F | T | 014 | SS | T |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

| | | |
|--------------------------------|----------------------------------|--|
| 1 Type | BVA | Ball valve with top flange |
| 2 Construction | 23 | 2/2 ways, 3-piece body |
| 3 Bore | F | Full bore |
| 4 Connection | T | Threaded ends DIN EN 10226-1 (DIN 2999) |
| | B | Buttweld ends ≈ according to DIN EN 12627 |
| | L | Buttweld ends long ≈ according to DIN EN 12627 |
| | F | Flanged ends PN40 |
| 5 Size | 014-400 015-100 | Rp 1/4" - 4" DN15-100 (BVA23FF) |
| 6 Materials body / ball | S | Body stainless steel CF8M (1.4408) |
| | S | Ball stainless steel AISI 316 (1.4401) |
| 7 Materials seat ring | T | Seat ring white (standard) PTFE + 15% GF |
| | S | Seat ring grey (for steam tmax = 160°C, pmax = 5 bar) PTFE-C, 25% Carbon |

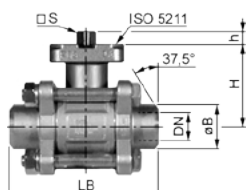
Dimensions

BVA23FT



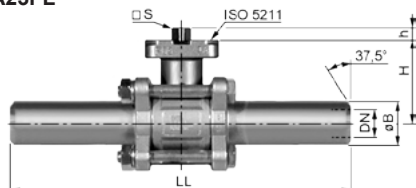
| | Rp" | DN | LT | H | K | h | D | S | ISO | kv(m³/h) | kg |
|-----------------|-----|-----|-----|-----|-----|----|------|----|--------|----------|------|
| BVA23FT.014.SST | ¼ | 10 | 60 | 40 | 21 | 7 | 48.5 | 9 | F03+04 | 8.6 | 0.35 |
| BVA23FT.038.SST | ⅜ | 12 | 60 | 40 | 21 | 7 | 48.5 | 9 | F03+04 | 21 | 0.40 |
| BVA23FT.012.SST | ½ | 15 | 75 | 40 | 26 | 7 | 48.5 | 9 | F03+04 | 35 | 0.65 |
| BVA23FT.034.SST | ¾ | 20 | 80 | 44 | 33 | 9 | 53.5 | 9 | F03+04 | 46 | 0.80 |
| BVA23FT.100.SST | 1 | 25 | 90 | 52 | 39 | 12 | 60.5 | 11 | F04+05 | 72 | 1.20 |
| BVA23FT.114.SST | 1¼ | 32 | 110 | 58 | 51 | 12 | 72 | 11 | F04+05 | 105 | 1.95 |
| BVA23FT.112.SST | 1½ | 40 | 120 | 68 | 58 | 16 | 81.5 | 14 | F05+07 | 170 | 2.75 |
| BVA23FT.200.SST | 2 | 50 | 140 | 72 | 71 | 16 | 99.5 | 14 | F05+07 | 275 | 4.50 |
| BVA23FT.212.SST | 2½ | 65 | 185 | 98 | 77 | 19 | 126 | 17 | F07+10 | 507 | 8.90 |
| BVA23FT.300.SST | 3 | 80 | 205 | 110 | 105 | 19 | 191 | 17 | F07+10 | 905 | 12.9 |
| BVA23FT.400.SST | 4 | 100 | 240 | 138 | 130 | 24 | 223 | 22 | F10 | 1414 | 22.5 |

BVA23FB



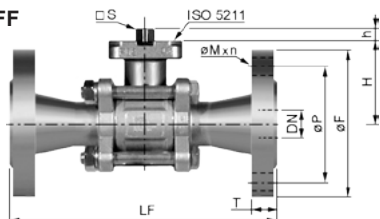
| | DN | øB | LB | H | h | S | ISO | kv(m³/h) | kg | |
|-----------------|----|-----|-----|-----|-----|----|-----|----------|------|------|
| BVA23FB.014.SST | ¼ | 10 | 20 | 70 | 40 | 7 | 9 | F03+04 | 8.6 | 0.35 |
| BVA23FB.038.SST | ⅜ | 12 | 20 | 70 | 40 | 7 | 9 | F03+04 | 21 | 0.40 |
| BVA23FB.012.SST | ½ | 15 | 23 | 75 | 40 | 7 | 9 | F03+04 | 35 | 0.65 |
| BVA23FB.034.SST | ¾ | 20 | 28 | 90 | 44 | 9 | 9 | F03+04 | 46 | 0.80 |
| BVA23FB.100.SST | 1 | 25 | 34 | 100 | 52 | 12 | 11 | F04+05 | 72 | 1.20 |
| BVA23FB.114.SST | 1¼ | 32 | 41 | 110 | 58 | 12 | 11 | F04+05 | 105 | 1.95 |
| BVA23FB.112.SST | 1½ | 40 | 49 | 125 | 68 | 16 | 14 | F05+07 | 170 | 2.75 |
| BVA23FB.200.SST | 2 | 50 | 62 | 150 | 72 | 16 | 14 | F05+07 | 275 | 4.50 |
| BVA23FB.212.SST | 2½ | 65 | 78 | 190 | 98 | 19 | 17 | F07+10 | 507 | 8.90 |
| BVA23FB.300.SST | 3 | 80 | 94 | 220 | 110 | 19 | 17 | F07+10 | 905 | 12.9 |
| BVA23FB.400.SST | 4 | 100 | 125 | 270 | 138 | 24 | 22 | F10 | 1414 | 22.5 |

BVA23FL



| | DN | øB | LL | H | h | S | ISO | kv(m³/h) | kg | |
|-----------------|----|-----|-----|-----|-----|----|-----|----------|------|------|
| BVA23FL.012.SST | ½ | 15 | 23 | 225 | 40 | 7 | 9 | F03+04 | 35 | 0.72 |
| BVA23FL.034.SST | ¾ | 20 | 28 | 225 | 44 | 9 | 9 | F03+04 | 46 | 0.88 |
| BVA23FL.100.SST | 1 | 25 | 34 | 245 | 52 | 12 | 11 | F04+05 | 72 | 1.32 |
| BVA23FL.114.SST | 1¼ | 32 | 41 | 255 | 58 | 12 | 11 | F04+05 | 105 | 2.15 |
| BVA23FL.112.SST | 1½ | 40 | 49 | 260 | 68 | 16 | 14 | F05+07 | 170 | 3.03 |
| BVA23FL.200.SST | 2 | 50 | 62 | 275 | 72 | 16 | 14 | F05+07 | 275 | 4.95 |
| BVA23FL.212.SST | 2½ | 65 | 78 | 335 | 98 | 19 | 17 | F07+10 | 507 | 9.79 |
| BVA23FL.300.SST | 3 | 80 | 94 | 355 | 110 | 19 | 17 | F07+10 | 905 | 14.2 |
| BVA23FL.400.SST | 4 | 100 | 125 | 365 | 138 | 24 | 22 | F10 | 1414 | 24.8 |

BVA23FF



| | DN | øF | øP | T | øMxN | LF | H | h | S | ISO | kv(m³/h) | kg |
|-----------------|-----|-----|-----|----|------|-----|-----|----|----|--------|----------|------|
| BVA23FF.015.SST | 15 | 95 | 65 | 16 | 14x4 | 130 | 40 | 7 | 9 | F03+04 | 35 | 2.45 |
| BVA23FF.020.SST | 20 | 105 | 75 | 18 | 14x4 | 150 | 44 | 9 | 9 | F03+04 | 46 | 3.50 |
| BVA23FF.025.SST | 25 | 115 | 85 | 18 | 14x4 | 160 | 52 | 12 | 11 | F04+05 | 72 | 4.70 |
| BVA23FF.032.SST | 32 | 140 | 100 | 18 | 18x4 | 180 | 58 | 12 | 11 | F04+05 | 105 | 5.90 |
| BVA23FF.040.SST | 40 | 150 | 110 | 18 | 18x4 | 200 | 68 | 16 | 14 | F05+07 | 170 | 7.80 |
| BVA23FF.050.SST | 50 | 165 | 125 | 20 | 18x4 | 230 | 72 | 16 | 14 | F05+07 | 275 | 11.3 |
| BVA23FF.065.SST | 65 | 185 | 145 | 22 | 18x8 | 290 | 98 | 19 | 17 | F07+10 | 507 | 16.9 |
| BVA23FF.080.SST | 80 | 200 | 160 | 24 | 18x8 | 310 | 110 | 19 | 17 | F07+10 | 905 | 23.9 |
| BVA23FF.100.SST | 100 | 235 | 190 | 24 | 22x8 | 350 | 138 | 24 | 22 | F10 | 1414 | 34.9 |

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