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# Stainless steel ball valves with pneumatic rotary actuator 1/4" up to 4"
# Series BAC1-...-SSTV

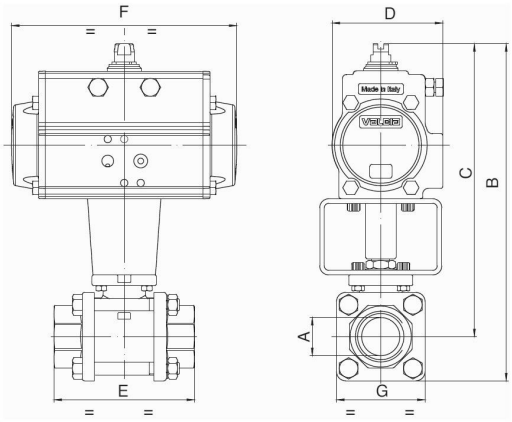


| | |
|---|---|
| Design type | Ball valve: Shut-off valve with floating ball, full bore passage, Compensation hole<br>Actuator: piston actuator with 2 opposed pistons, elastic sealing, actuator in all details in accordance with ISO 5211 or according to NAMUR recommendations, End positions adjustable on both sides +/-5° |
| Function | available in double-acting or single-acting Version |
| Connection | RP1/4"...RP4" according to ISO7/1 |
| Materials<br>Standard version | Actuator: Hard anodized aluminium, Pinion, nickel-plated steel, Piston guide POM, Seals NBR<br>Ball valve: Body and ball stainless steel 1.4401, Ball seal PTFE, Spindle seal PTFE/FKM |
| Application range | gaseous and liquid media that do not attack the materials used |
| Medium temperature | -20°C...+160°C |
| Ambient temperature | -20°C...+85°C |
| Operating pressure | 0bar up to Operating pressure according to table and pressure-temperature diagram, suitable for rough vacuum |
| Control medium | filtered and lubricated or unlubricated compressed air |
| Control pressure | 5,5-8 bar, Adaptation to lower pilot pressures available on request |
| Mounting type | Installation in rigid piping system |
| Mounting position | any |
| Special version | Ball valve: ATEX EX II 2G Ex h IIC T6...T1 Gb / II 2D Ex h IIIC T85°C...T450°C Db,<br>Actuator: ATEX II 2G Ex h IIC T6...T3 Gb / II 2D Ex h IIIC T85°C...T200°C Db<br>Pinion in stainless steel, Ambient temperatures from -40°C...+85°C, or rather -20°C...+150°C |
| Accessories | assembled manual, pneumatic or electric control valve<br>electrical end position feedback, Positioner in I/P or P/P Version<br>Adjustment of the switching speed |
| Ordering note | Please also specify control pressure, operating medium, operating pressure and operating temperature when placing the order. |
| Application note | The pressure and temperature specifications are maximum values for normal conditions, for lubricating or non-degreasing media. In particular, degreasing media reduce the specified values and increase the required torque. For these special cases, we recommend prior consultation. When selecting the valve, the lowest control pressure occurring in the system must be taken as the basis. |



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## Dimensions




## Ball valves with double-acting rotary actuator

| Connection A | Nominal size DN[mm] | max. Operating pressure [bar] up to 85°C | B | C | D | E | F | G | Actuator type | Kv value [$m^3$/h] | Weight [approx. kg] | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RP1/4" | 8 | 64 | 128 | 111 | 45 | 57 | 110 | 33 | PAD032 | 5,4 | 0,9 | BAC1-002-SSTV-D0 |
| RP1/4" | 8 | 64 | 164,5 | 147,5 | 71 | 57 | 141 | 33 | PAD052 | 5,4 | 1,7 | BAC1-002-SSTV-D0B* |
| RP3/8" | 10 | 64 | 128 | 111 | 45 | 57 | 110 | 33 | PAD032 | 6 | 0,9 | BAC1-003-SSTV-D0 |
| RP3/8" | 10 | 64 | 164,5 | 147,5 | 71 | 57 | 141 | 33 | PAD052 | 6 | 1,7 | BAC1-003-SSTV-D0B* |
| RP1/2" | 15 | 64 | 135 | 116 | 45 | 65 | 110 | 38 | PAD032 | 16,3 | 1,0 | BAC1-004-SSTV-D0 |
| RP1/2" | 15 | 64 | 171,5 | 152,5 | 71 | 65 | 141 | 38 | PAD052 | 16,3 | 1,8 | BAC1-004-SSTV-D0B* |
| RP3/4" | 20 | 40 | 212 | 188 | 71 | 76 | 141 | 47 | PAD052 | 29,5 | 2,1 | BAC1-005-SSTV-D0 |
| RP1" | 25 | 40 | 222 | 193 | 71 | 92 | 141 | 58 | PAD052 | 43 | 2,7 | BAC1-006-SSTV-D0 |
| RP11/4" | 32 | 25 | 230 | 197 | 71 | 106 | 141 | 67 | PAD052 | 89 | 3,2 | BAC1-007-SSTV-D0 |
| RP11/2" | 40 | 25 | 267 | 229 | 81 | 116 | 164 | 76 | PAD063 | 230 | 4,7 | BAC1-008-SSTV-D0 |
| RP2" | 50 | 25 | 298 | 253 | 95 | 136 | 210 | 90 | PAD075 | 265 | 6,9 | BAC1-009-SSTV-D0 |
| RP21/2" | 65 | 16 | 348 | 281 | 106 | 153 | 241 | 134 | PAD085 | 540 | 13,1 | BAC1-010-SSTV-D0 |
| RP3" | 80 | 16 | 373 | 292 | 106 | 180 | 241 | 161 | PAD085 | 873 | 19,6 | BAC1-011-SSTV-D0 |
| RP4" | 100 | 16 | 436 | 341 | 123 | 217 | 275 | 190 | PAD100 | 1390 | 29,7 | BAC1-012-SSTV-D0 |

*With the suffix B, the ball valves are equipped with the PAD052 actuator. When using limit switch boxes and NAMUR control valves, B types must be used.

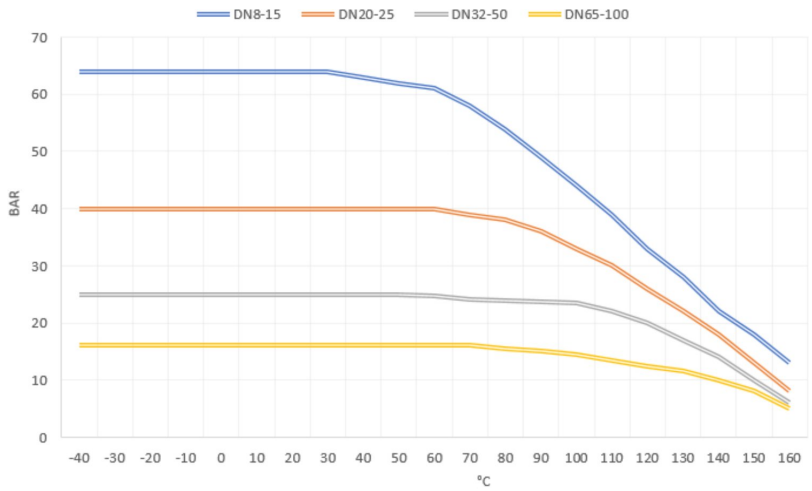

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## Ball valves with single-acting rotary actuator

| Connection A | Nominal size DN[mm] | max. Operating pressure [bar] up to 85°C | B | C | D | E | F | G | Actuator type | Kv value [m³/h] | Weight [approx. kg] | Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RP1/4" | 8 | 64 | 164 | 148 | 71 | 57 | 141 | 33 | PAS0525 | 5,4 | 2,0 | BAC1-002-SSTV-S0 |
| RP3/8" | 10 | 64 | 164 | 148 | 71 | 57 | 141 | 33 | PAS0525 | 6 | 2,0 | BAC1-003-SSTV-S0 |
| RP1/2" | 15 | 64 | 171 | 152 | 71 | 65 | 141 | 38 | PAS0525 | 16,3 | 2,1 | BAC1-004-SSTV-S0 |
| RP3/4" | 20 | 40 | 224 | 200 | 81 | 76 | 164 | 47 | PAS0635 | 29,5 | 3,1 | BAC1-005-SSTV-S0 |
| RP1" | 25 | 40 | 234 | 205 | 81 | 92 | 164 | 58 | PAS0635 | 43 | 3,7 | BAC1-006-SSTV-S0 |
| RP11/4" | 32 | 25 | 242 | 209 | 81 | 106 | 164 | 67 | PAS0635 | 89 | 4,3 | BAC1-007-SSTV-S0 |
| RP11/2" | 40 | 25 | 299 | 261 | 106 | 116 | 241 | 76 | PAS0855 | 230 | 7,8 | BAC1-008-SSTV-S0 |
| RP2" | 50 | 25 | 326 | 281 | 123 | 136 | 275 | 90 | PAS1005 | 265 | 12,0 | BAC1-009-SSTV-S0 |
| RP21/2" | 65 | 16 | 415 | 348 | 137 | 153 | 333 | 134 | PAS1155 | 540 | 23,7 | BAC1-010-SSTV-S0 |
| RP3" | 80 | 16 | 452 | 371 | 148 | 180 | 372 | 161 | PAS1255 | 873 | 28,3 | BAC1-011-SSTV-S0 |
| RP4" | 100 | 16 | 482 | 387 | 148 | 217 | 372 | 190 | PAS1255 | 1390 | 37,2 | BAC1-012-SSTV-S0 |

Single-acting actuators are supplied spring-closing (NC) unless otherwise ordered.

## Pressure-temperature diagram




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