

Actuated Valves and Actuators

Type 01313 - Actuated Globe Valve



Cryogenic-Globe Valves with Pneumatic Actuator, PN50

Bronze body and stainless steel topwork (internal parts bronze)

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 01313.X.*017

Complete with stainless steel stubs acc. to DIN EN 10216-5 or ASTM A312

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Actuator "cleaned and degreased for oxygen service"
- Electric actuator
- Valve with check disc
- Valve with control disc (tapered design)
- Further pipe wall thicknesses

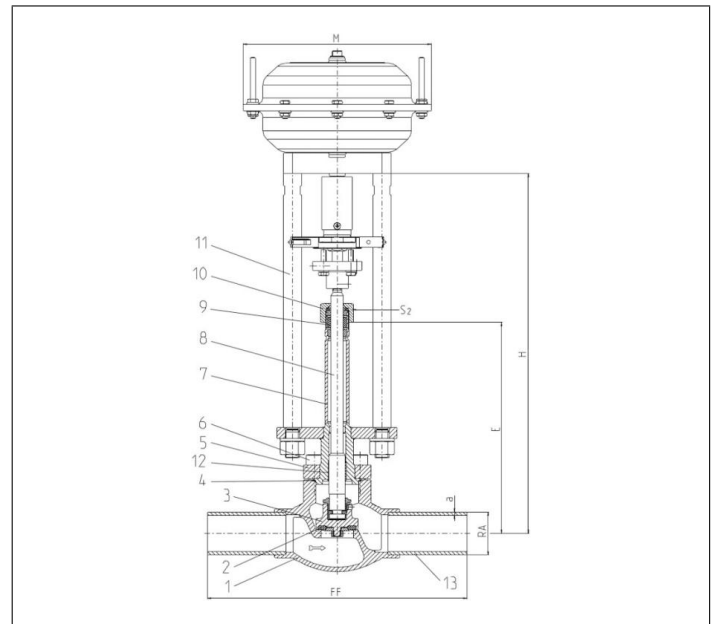
Applications:

Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



| Materials | DIN EN | ASTM |
|--------------------------|----------------------------|------------------|
| 1 Body | CC491K | B 62 UNS C83600 |
| 2 Valve seal | PTFE / Carbon filled (25%) | |
| 3 Disc | CW614N | B 283 UNS C38500 |
| 4 Bonnet gasket | PTFE | |
| 5 Headpiece | 1.4301 | A 276 Grade 304 |
| 6 Bolts | 1.4301/A2 | A 194 B8 |
| 7 Elongation tube | 1.4541 | A 213 TP 321 |
| 8 Stem | 1.4301 | A 276 Grade 304 |
| 9 Gland packing | Graphite / PTFE / MICA | |
| 10 Gland nut | CW614N | B 283 UNS C38500 |
| 11 Pillars | 1.4404 | A 276 Grade 316L |
| 12 Bush | CW452K | B 159 UNS C51900 |
| 13 Stainless steel stubs | 1.4306 | A 312 TP304L |



| Type 01313 - Standard design | Technical data | | | | | | | | | |
|-------------------------------|-------------------|-------------------------------|-------|-------|-------|------|-------|-------|-------|--|
| Nominal size | DN | 10 | 10 | 15 | 20 | 25 | 32 | 40 | 50 | |
| Dimension code | .X. | 1012 | 1017 | 1521 | 2027 | 2533 | 3242 | 4048 | 5060 | |
| Face-to-face dimension | FF | 210 | 210 | 235 | 235 | 265 | 265 | 290 | 310 | |
| Height | H | 370 | 370 | 370 | 370 | 375 | 405 | 420 | 425 | |
| Length | E | 195 | 195 | 195 | 200 | 200 | 230 | 230 | 235 | |
| Outside pipe-Ø ISO 1127 | RA | 12.0 | 17.2 | 21.3 | 26.9 | 33.7 | 42.4 | 48.3 | 60.3 | |
| Wall thickness pipe ISO 1127 | a | 1.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.2 | 3.6 | 3.6 | |
| Outside pipe-Ø ASTM A312 | RA | - | 17.15 | 21.34 | 26.67 | 33.4 | 42.16 | 48.26 | 60.33 | |
| Wall thickness pipe ASTM A312 | a | dimensions acc. to S10 or S40 | | | | | | | | |
| Actuator-Ø | M | dependent on actuator | | | | | | | | |
| Wrench size across flats | S ₂ | 30 | 30 | 30 | 30 | 30 | 36 | 36 | 36 | |
| Weight w/o actuator | ca. kg | 1.75 | 1.85 | 2.6 | 3.0 | 3.5 | 4.7 | 6.7 | 9.8 | |
| *Kvs-Value | m ³ /h | 1.6 | 2.2 | 4.3 | 6.7 | 11.5 | 12.1 | 22.6 | 37.1 | |
| *Cv-Value | gal/min | 1.9 | 2.6 | 5.0 | 7.8 | 13.4 | 14.1 | 26.3 | 43.2 | |
| Stroke | mm | 10 | 10 | 10 | 7 | 9 | 9 | 11 | 15 | |

Dimensions in mm. * These figures refer to measurements for the flow direction.