

# Globe Valves

## Type 03321 - Globe Valve, ASME B16.5 Flanges



### Cryogenic-Globe and Globe/Check Valves, class 300

Stainless steel body and bronze topwork,  
 "live loaded" gland packing  
 "cleaned and degreased for oxygen service"

- Part No. 03321.X.0013** (H = 270mm)
  - Part No. 03321.X.0023** (H = 370mm)
  - Part No. 03321.X.5013** (H = 270mm) **Globe/Check Valve**
  - Part No. 03321.X.5023** (H = 370mm) **Globe/Check Valve**
- Flanged connection acc. to ASME B16.5 class 300

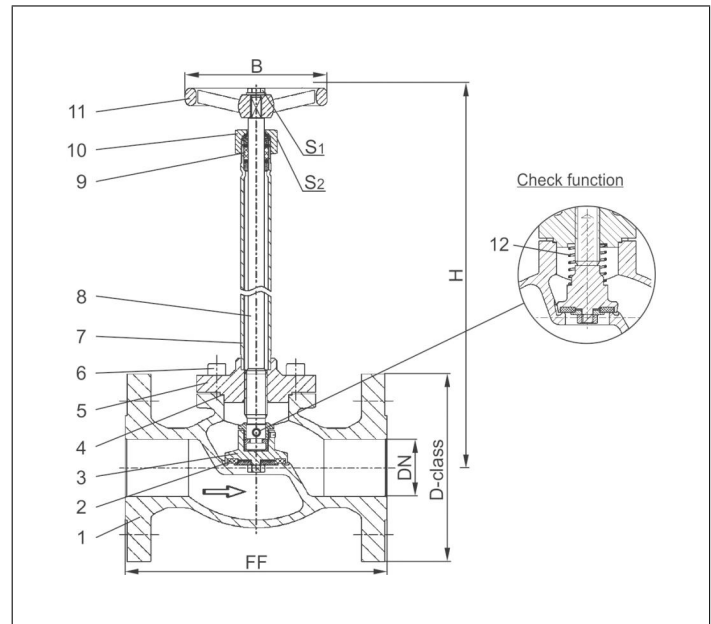
- Available options - on request only:
- Extension H up to 900mm
  - Valve with control disc (tapered design)



### 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                  | 1.4308                     | A 351 CF8        |
| 2 Valve seal up to DN50 | PTFE / Carbon filled (25%) |                  |
| 2a Valve seal from DN65 | PTFE                       |                  |
| 3 Disc                  | CW614N                     | B 283 UNS C38500 |
| 4 Bonnet gasket         | PTFE                       |                  |
| 5 Headpiece             | CC493K                     | B 505 UNS C93200 |
| 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            |                  |
| 10 Gland nut            | CW614N                     | B 283 UNS C38500 |
| 11 Handwheel            | Aluminium alloy            |                  |
| 12 Spring               | CW452K                     | B 159 UNS C51900 |



| Type 03321 - Standard design                 | Technical data    |                  |      |      |      |      |      |       |       |       |     |
|--|-------------------|------------------|------|------|------|------|------|-------|-------|-------|-----|
| Nominal size                                 | DN                | 15               | 20   | 25   | 40   | 50   | 65   | 80    | 100   | 150   |     |
| Dimension code - Flange ASME B16.5 class 300 | .X.               | 0400             | 0600 | 1000 | 1400 | 2000 | 2400 | 3000  | 4000  | 6000  |     |
| Flange-Ø                                     | D-class           | 95               | 115  | 125  | 155  | 165  | 190  | 210   | 255   | 320   |     |
| Face-to-face dimension                       | FF                | 140              | 150  | 160  | 200  | 230  | 290  | 310   | 350   | 597   |     |
| Height                                       | H                 | 270 mm or 370 mm |      |      |      |      |      |       |       | 370   | 420 |
| Handwheel-Ø                                  | B                 | 100              | 100  | 100  | 125  | 125  | 200  | 250   | 315   | 360   |     |
| Wrench size across flats                     | S <sub>1</sub>    | 7                | 7    | 7    | 10   | 10   | 10   | 10    | 12    | 15    |     |
| Wrench size across flats                     | S <sub>2</sub>    | 30               | 30   | 30   | 36   | 36   | 36   | 36    | 41    | 41    |     |
| Weight                                       | ca. kg            | 3.0              | 3.5  | 5.0  | 9.0  | 13.0 | 21.0 | 28.0  | 42.0  | 83.0  |     |
| Kvs-Value                                    | m <sup>3</sup> /h | 4.3              | 6.7  | 11.5 | 22.6 | 37.1 | 71.1 | 104.0 | 170.0 | 350.0 |     |
| Cv-Value                                     | gal/min           | 5.0              | 7.8  | 13.4 | 26.3 | 43.2 | 82.9 | 121.3 | 198.3 | 408.4 |     |

Dimensions in mm. Compliance of tightness requirements acc. to EN 1626 for DN150 up to 20 bar differential pressure. In the range of >20-40 bar, 350-700ml per second (1 bar, 20°C [68°F]) are reached.