

# Fire Safe and Offshore Valves

## Type 03843 - Actuated Globe Valve



**Cryogenic-Globe Valves with Pneumatic Actuator, PN16**  
**" Fire safe " type test approval acc. to EN ISO 10497**

Stainless steel body and topwork  
 Actuator - air opens, spring closes or vice versa  
 "live loaded" gland packing  
 "cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

**Part No. 03843.X.\*014**

Flanged connection acc. to DIN EN 1092-1 PN16

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

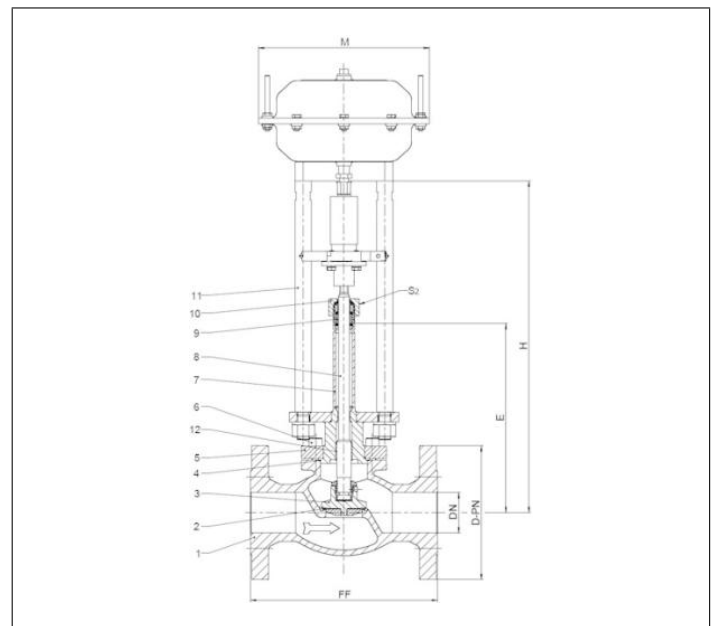
- Actuator - "cleaned and degreased for oxygen service"
- Electric actuator
- Valve with check disc
- Valve with control disc (tapered design)



### Applications:

Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.  
 Working temperature: -255°C / -427°F (18K) up to +120°C / +248°F (393K)

| Materials         | DIN EN                     | ASTM              |
|-------------------|----------------------------|-------------------|
| 1 Body            | 1.4409                     | A 351 CF3M        |
| 2 Valve seal      | PTFE / Carbon filled (25%) |                   |
| 3 Disc            | 1.4404                     | A 276 Grade 316L  |
| 4 Bonnet gasket   | Graphite                   |                   |
| 5 Headpiece       | 1.4404                     | A 276 Grade 316L  |
| 6 Bolts           | 1.4571/A4                  | similar A 194 B8T |
| 7 Elongation tube | 1.4571                     | A 213 TP 316Ti    |
| 8 Stem            | 1.4404                     | A 276 Grade 316L  |
| 9 Gland packing   | Graphite / PTFE / MICA     |                   |
| 10 Gland nut      | 1.4404                     | A 276 Grade 316L  |
| 11 Pillars        | 1.4404                     | A 276 Grade 316L  |
| 12 Bush           | CW452K                     | B 159 UNS C51900  |



| Type 03843 - Standard design           | Technical data    |                       |      |      |      |      |      |       |       |       |
|--|-------------------|-----------------------|------|------|------|------|------|-------|-------|-------|
| Nominal size                           | DN                | 15                    | 20   | 25   | 40   | 50   | 65   | 80    | 100   | 150   |
| Dimension code - Flange EN 1092-1 PN16 | .X.               | 0150                  | 0200 | 0250 | 0400 | 0500 | 0650 | 0800  | 1000  | 1500  |
| Flange-Ø                               | D-PN              | 95                    | 105  | 115  | 150  | 165  | 185  | 200   | 220   | 285   |
| Face-to-face dimension                 | FF                | 140                   | 150  | 160  | 200  | 230  | 295  | 310   | 350   | 510   |
| Height                                 | H                 | 370                   | 370  | 375  | 420  | 425  | 510  | 575   | 635   | 685   |
| Length                                 | E                 | 195                   | 200  | 200  | 230  | 235  | 300  | 300   | 300   | 350   |
| Actuator-Ø                             | M                 | dependent on actuator |      |      |      |      |      |       |       |       |
| Wrench size across flats               | S <sub>2</sub>    | 30                    | 30   | 30   | 36   | 36   | 36   | 36    | 41    | 41    |
| Weight w/o actuator                    | ca. kg            | 4.6                   | 6.5  | 8.5  | 12.0 | 16.0 | 30.0 | 36.0  | 53.0  | 87.0  |
| *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 |
| Stroke                                 | mm                | 10                    | 7    | 9    | 11   | 15   | 23   | 23    | 30    | 40    |

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. \* These figures refer to measurements for the flow direction.