



ECON® Ball valve Type: 7249ES Steel Fire safe Pneumatic operated Single acting, spring closing Flange PN16/40



Characteristics

Type: 7249ES
Norm: EN (DIN)
Construction type: 2-way
Housing construction: 2-part
Housing material: Steel
Material quality: 1.0619
Surface protection: Acrylic polyurethane
Connection: Flange
Flange finish: Raised face
Actuator: Pneumatic operated
Operating principle: Single acting, spring closing
Top flange standard: ISO 5211 Direct Mount
Secondary spindle seal material: FPM (FKM)
Tertiary spindle seal material: Graphite
Body seal: SWG 316L/PTFE/Graphite
Actuator material: Aluminium
Minimum medium temperature (continuous): -10 °C
Maximum medium temperature (continuous): 200 °C
Fire safe: Yes

Application

- Industrial applications up to 16 or 40bar.
- Liquid and gaseous media.

Technical Information

- Flanged connection in accordance with EN 1092-1.
- Pressure rating PN16 or PN40.
- Drive with multi-functional position display suitable for mechanical limit switches or double proximity sensors.
- Air supply and upper flanged connection of drive in accordance with NAMUR VDI/VDE 3845.

Construction

- Two-piece housing construction.
- Design of ball valve in accordance with EN 12516-1.
- Full bore.
- Ball valve equipped with anti-static design between ball and housing.
- Face-to-face dimension according to EN 558, series 27.

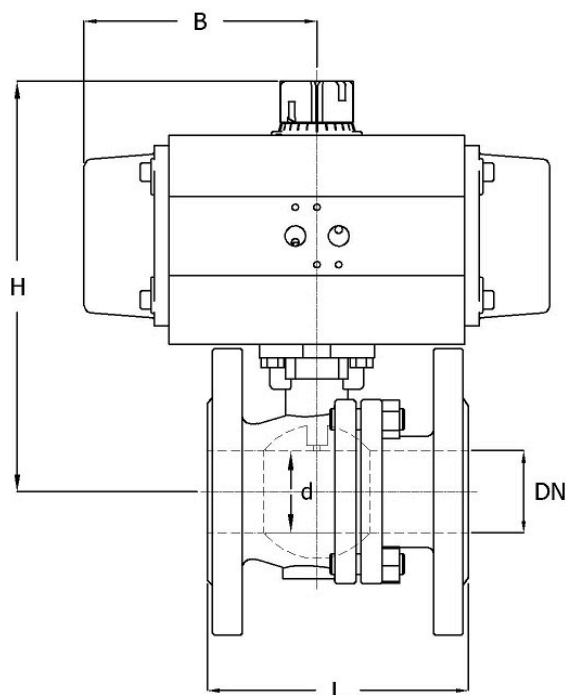
Approval

- Fugitive emission certified in accordance with TA-Luft VDI 2440 / VDI 3479.
- Fugitive emission certified in accordance with ISO 15848-1 BH-CO1 and CH-CO3.
- Fire-safe approval in accordance with ISO 10497 and API 607, sixth edition.
- Safety class of ball valve in accordance with IEC 61508 SIL 2.
- Safety class of drive in accordance with IEC 61508 SIL 2 (SIL 3 for redundant configuration).
- Declaration of conformity according to EC1935/2004.

Options

- With double-acting pneumatic drive [Fig. 7249ED].
- Position feedback.
- Stainless-steel extended spindle for insulation [Fig. 8007].

Size table:



| DN | Pressure class | d | L | H | B | Weight |
|-------|----------------|------|-----|-------|-------|--------|
| | | mm | mm | mm | mm | kg |
| DN15 | PN40 | 15 | 115 | 144 | 81.5 | 3.9 |
| DN20 | PN40 | 20 | 120 | 149 | 81.5 | 4.7 |
| DN25 | PN40 | 25 | 125 | 173.5 | 97.5 | 6.5 |
| DN32 | PN40 | 32 | 130 | 208 | 108.5 | 9.1 |
| DN40 | PN40 | 38 | 140 | 213 | 108.5 | 10.5 |
| DN50 | PN40 | 50 | 150 | 232 | 129 | 14.3 |
| DN65 | PN16 | 63.5 | 170 | 266.5 | 149.5 | 21.1 |
| DN65 | PN40 | 63.5 | 170 | 266.5 | 149.5 | 21.1 |
| DN80 | PN16 | 76 | 180 | 293.5 | 174.5 | 28.5 |
| DN80 | PN40 | 76 | 180 | 293.5 | 174.5 | 28.6 |
| DN100 | PN16 | 100 | 190 | 339 | 198.5 | 40.6 |
| DN100 | PN40 | 100 | 190 | 339 | 198.5 | 45.9 |
| DN125 | PN16 | 125 | 325 | 432 | 280 | 94.3 |
| DN125 | PN40 | 125 | 325 | 432 | 280 | 96.8 |
| DN150 | PN16 | 150 | 350 | 482 | 300.5 | 117.8 |
| DN150 | PN40 | 150 | 350 | 482 | 300.5 | 119.8 |
| DN200 | PN16 | 200 | 400 | 532.5 | 300.5 | 173 |

| Nominal inner diameter | Pressure rating | Face to Face norm | Type coding actuator | Brand actuator | Bore | Material ball | Seat material | Spindle material | Primary spindle seal material | Article |
|------------------------|-----------------|-------------------|----------------------|----------------|-----------|---------------|---------------|------------------|-------------------------------|----------|
| DN15 | PN40 | EN 558, Series 27 | SR20 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533541 |
| DN20 | PN40 | EN 558, Series 27 | SR20 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533542 |
| DN25 | PN40 | EN 558, Series 27 | SR40 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533543 |
| DN32 | PN40 | EN 558, Series 27 | SR80 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533544 |
| DN40 | PN40 | EN 558, Series 27 | SR80 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533545 |
| DN50 | PN40 | EN 558, Series 27 | SR130 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533546 |
| DN65 | PN16 | EN 558, Series 27 | SR200 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533547 |
| DN65 | PN40 | EN 558, Series 27 | SR200 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533548 |
| DN80 | PN16 | EN 558, Series 27 | SR300 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533549 |
| DN80 | PN40 | EN 558, Series 27 | SR300 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533550 |
| DN100 | PN16 | EN 558, Series 27 | SR500 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533551 |
| DN100 | PN40 | EN 558, Series 27 | SR500 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533552 |
| DN125 | PN16 | EN 558, Series 27 | SR1200 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533553 |
| DN125 | PN40 | EN 558, Series 27 | SR1200 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533554 |
| DN150 | PN16 | EN 558, Series 27 | SR1750 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533555 |

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Ball Valves | Automated ball valves with flange connection

| Nominal inner diameter | Pressure rating | Face to Face norm | Type coding actuator | Brand actuator | Bore | Material ball | Seat material | Spindle material | Primary spindle seal material | Article |
|------------------------|-----------------|-------------------|----------------------|----------------|-----------|---------------|---------------|------------------|-------------------------------|----------|
| DN150 | PN40 | EN 558, Series 27 | SR1750 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533556 |
| DN200 | PN16 | EN 558, Series 27 | SR1750 | ECON | Full bore | 1.4308 | TFM 1600 | 1.4301 | PTFE | 12533557 |

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