



## ECON® Ball valve Type: 7289 Stainless steel Fire safe Flange PN16/40



### Characteristics

**Type:** 7289

**Norm:** EN (DIN)

**Construction type:** 2-way

**Housing construction:** 2-part

**Housing material:** Stainless steel

**Material quality:** 1.4408

**Connection:** Flange

**Flange finish:** Raised face

**Top flange standard:** ISO 5211 Direct Mount

**Material ball:** 1.4408

**Seat material:** TFM 1600

**Spindle material:** 1.4401

**Primary spindle seal material:** PTFE

**Secondary spindle seal material:** FPM (FKM)

**Tertiary spindle seal material:** Graphite

**Body seal:** SWG 316L/PTFE/Graphite

**Minimum medium temperature (continuous):** -29 °C

**Maximum medium temperature (continuous):** 200 °C

**Fire safe:** Yes

### Application

- Industrial applications up to 16 or 40 bar.
- Liquid and gaseous media.
- Recommended in: Food & Beverages

### Technical Information

- Flanged connection in accordance with EN1092-1.
- Floating ball.
- Pressure rating PN16 or PN40.
- With direct-mount top flange in accordance with ISO 5211.
- All components intended to come into contact with food comply with EC 1935.
- Media temperature: -29/+200°C.
- DN15 to DN80 with lever and locking device.
- DN100 to DN150 with T-bar.
- DN200 as standard with bare stem.

### Construction

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

### Approval

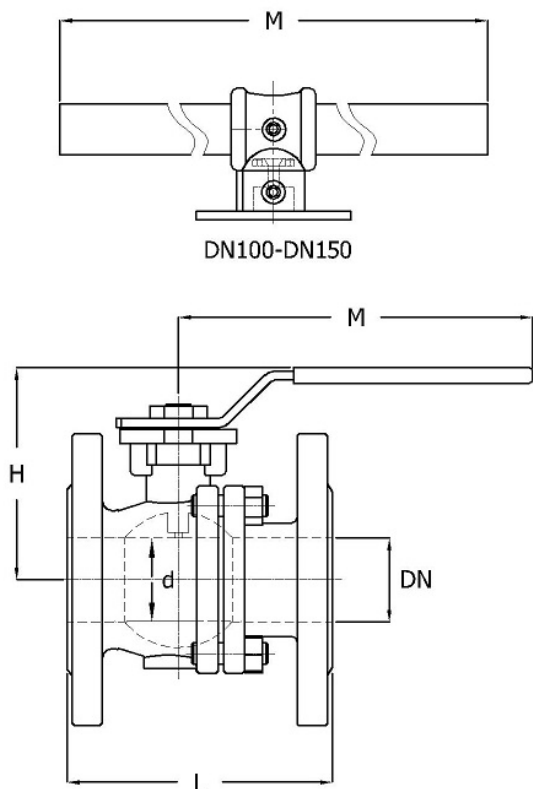
- Fugitive emission certified in accordance with TA-Luft VDI 2440 / VDI 3479.
- Fugitive emission certified in accordance with ISO 15848-1 BH-CO1 and CH-CO3.
- Fire-safe approval in accordance with ISO 10497 and API 607, sixth edition.
- Safety integrity level IEC 61508 SIL 2.
- Declaration of conformity according to EC 1935/2004.

### Options

- Equipped with worm gearbox and pneumatic, electric or hydraulic actuators.
- Position feedback for manually actuated or automated valves.
- Available with seats in TF4215.
- Stainless steel extended spindle type 8007 for insulation.

Size table:

| DN    | Pressure class | d    | L   | H   | M   | Weight |
|-------|----------------|------|-----|-----|-----|--------|
|       |                | mm   | mm  | mm  | mm  | kg     |
| DN15  | PN40           | 15   | 115 | 79  | 145 | 2.4    |
| DN20  | PN40           | 20   | 120 | 84  | 145 | 3.2    |
| DN25  | PN40           | 25   | 125 | 91  | 175 | 4.5    |
| DN32  | PN40           | 32   | 130 | 103 | 175 | 5.5    |
| DN40  | PN40           | 38   | 140 | 111 | 194 | 6.9    |
| DN50  | PN40           | 50   | 150 | 120 | 194 | 9.5    |
| DN65  | PN16           | 63.5 | 170 | 150 | 265 | 13.8   |
| DN65  | PN40           | 63.5 | 170 | 150 | 265 | 13.8   |
| DN80  | PN16           | 76   | 180 | 160 | 265 | 17.7   |
| DN80  | PN40           | 76   | 180 | 160 | 265 | 17.8   |
| DN100 | PN16           | 100  | 190 | 182 | 400 | 25.2   |
| DN100 | PN40           | 100  | 190 | 182 | 400 | 30.5   |
| DN125 | PN16           | 125  | 325 | 260 | 600 | 60     |
| DN125 | PN40           | 125  | 325 | 260 | 600 | 62.5   |
| DN150 | PN16           | 150  | 350 | 280 | 800 | 71.8   |
| DN150 | PN40           | 150  | 350 | 280 | 800 | 73.8   |



Pressure and temperature range

| DN          | Pressure rating | -29 | 50 | 100 | 150 | 200 | [°C]  |
|-------------|-----------------|-----|----|-----|-----|-----|-------|
| DN15-DN200  | PN16            | 16  | 15 | 13  | 13  | 11  | [bar] |
| DN15-DN50   | PN40            | 39  | 37 | 33  | 30  | 19  | [bar] |
| DN65-DN100  | PN40            | 39  | 37 | 33  | 28  | 16  | [bar] |
| DN125-DN200 | PN40            | 30  | 28 | 25  | 19  | 12  | [bar] |

| Nominal inner diameter | Pressure rating | Face to Face norm | Manual operation | Mounting flange | Mounting flange 2 | Bore      | With locking device | Actuator material | Maximum operating pressure bar | Article          |
|------------------------|-----------------|-------------------|------------------|-----------------|-------------------|-----------|---------------------|-------------------|--------------------------------|------------------|
| DN15                   | PN40            | EN 558, Series 27 | Handle           | F03             | F04               | Full bore | Yes                 | 1.4301            | 40                             | EC072890015-RP4L |
| DN20                   | PN40            | EN 558, Series 27 | Handle           | F03             | F04               | Full bore | Yes                 | 1.4301            | 40                             | EC072890020-RP4L |
| DN25                   | PN40            | EN 558, Series 27 | Handle           | F04             | F05               | Full bore | Yes                 | 1.4301            | 40                             | EC072890025-RP4L |
| DN32                   | PN40            | EN 558, Series 27 | Handle           | F04             | F05               | Full bore | Yes                 | 1.4301            | 40                             | EC072890032-RP4L |
| DN40                   | PN40            | EN 558, Series 27 | Handle           | F05             | F07               | Full bore | Yes                 | 1.4301            | 40                             | EC07289004-ORP4L |
| DN50                   | PN40            | EN 558, Series 27 | Handle           | F05             | F07               | Full bore | Yes                 | 1.4301            | 40                             | EC072890050-RP4L |
| DN65                   | PN16            | EN 558, Series 27 | Handle           | F07             | F10               | Full bore | Yes                 | 1.4301            | 16                             | EC072890065-RP6L |
| DN65                   | PN40            | EN 558, Series 27 | Handle           | F07             | F10               | Full bore | Yes                 | 1.4301            | 40                             | EC072890065-RP4L |
| DN80                   | PN16            | EN 558, Series 27 | Handle           | F07             | F10               | Full bore | Yes                 | 1.4301            | 16                             | EC07289008-ORP6L |
| DN80                   | PN40            | EN 558, Series 27 | Handle           | F07             | F10               | Full bore | Yes                 | 1.4301            | 40                             | EC07289008-ORP4L |

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| Nominal inner diameter | Pressure rating | Face to Face norm | Manual operation | Mounting flange | Mounting flange 2 | Bore      | With locking device | Actuator material | Maximum operating pressure bar | Article          |
|------------------------|-----------------|-------------------|------------------|-----------------|-------------------|-----------|---------------------|-------------------|--------------------------------|------------------|
| DN100                  | PN16            | EN 558, Series 27 | T-wrench         | F10             |                   | Full bore | No                  | Steel, galvanized | 16                             | EC072890100-RP6L |
| DN100                  | PN40            | EN 558, Series 27 | T-wrench         | F10             |                   | Full bore | No                  | Steel, galvanized | 40                             | EC072890100-RP4L |
| DN125                  | PN16            | EN 558, Series 27 | T-wrench         | F12             |                   | Full bore | No                  | Steel, galvanized | 16                             | EC072890125-RP6L |
| DN125                  | PN40            | EN 558, Series 27 | T-wrench         | F12             |                   | Full bore | No                  | Steel, galvanized | 40                             | EC072890125-RP4L |
| DN150                  | PN16            | EN 558, Series 27 | T-wrench         | F12             |                   | Full bore | No                  | Steel, galvanized | 16                             | EC072890150-RP6L |
| DN150                  | PN40            | EN 558, Series 27 | T-wrench         | F12             |                   | Full bore | No                  | Steel, galvanized | 40                             | EC072890150-RP4L |

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