

ECON® Ball valve Type: 7542FS Stainless steel Fire safe Internal thread (NPT) Class 600



Characteristics

Type: 7542FS

Norm: ASME

Construction type: 2-way

Housing construction: 3-part

Housing material: Stainless steel

Material quality: ASTM A351 CF8M

Connection: Internal thread (NPT)

Top flange standard: ISO 5211 Direct Mount

Material ball: ASTM A351 CF8M

Seat material: TF 4103

Spindle material: ASTM A276 316 Grade S

Primary spindle seal material: RPTFE

Secondary spindle seal material: FPM (FKM)

Tertiary spindle seal material: Graphite

Body seal: Graphite

Material connection piece: ASTM A351 CF8M

Minimum medium temperature (continuous): -40 °C

Maximum medium temperature (continuous): 220 °C

Fire safe: Yes

Application

- Industrial and maritime applications.
- Liquid and gaseous media.
- Recommended in: Chemical

Technical Information

- Connection according to ASME B1.20.1.
- Floating ball.
- Pressure class: Class 600.
- With direct-mount top flange according to ISO 5211.
- Closed neck design with leak detection opening.
- Equipped with a robust lever.
- Average temperature for a tap with standard TF 4103 seats: -40°C/+220°C. Up to a maximum of 250° C for taps with TF 4215 seats.

Construction

- Three-part housing construction.
- Wall thickness according to EN 12516-1 and ASME B16.34.
- Full or reduced bore.
- Design with antistatic equipment between ball and

housing.

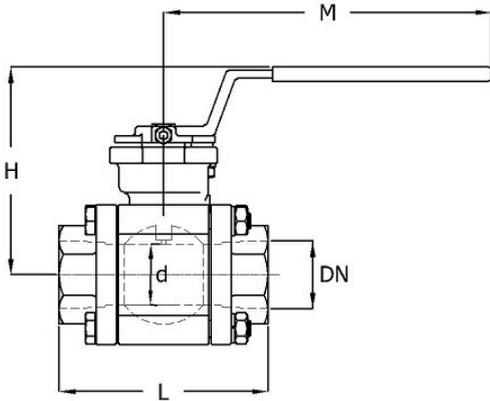
Approval

- Fire-safe according to ISO 10497 (third edition) and API 607 (seventh edition).
- Type approval from Lloyd's Register.
- Safety integrity level (SIL) 2.

Options

- Design with worm gearbox, pneumatic, electric or hydraulic drives.
- Position feedback for manual and automatic valves.
- Available with different seat materials such as TF 4215, TFM 1600 and PEEK.
- Fire-safe design available.
- Stainless steel extended spindle for insulation or for cold applications (up to -50°C).
- With connection for earthing.
- With 30°, 60° or 90° V-shaped ball bore for modulating applications.
- Connections with BSPP thread according to ISO 228-1, socket weld according to ASME B16.11 or EN 12760, and butt weld according to ASME B16.25 S40 or EN 12627 or ISO 1127 S1 or SMS 3008 (EN 10357 series D) or DIN 11850 series 1 and 2 (EN 10357 series B and A).

Size table:



| DN | Full bore | d mm | L mm | H mm | M mm | Weight kg |
|-------------|-----------|---------|---------|---------|---------|--------------|
| 1/4" [8] | Yes | 15 | 71 | 83 | 140 | 0.9 |
| 3/8" [10] | Yes | 15 | 71 | 83 | 140 | 0.9 |
| 1/2" [15] | Yes | 15 | 72 | 83 | 140 | 1 |
| 3/4" [20] | Yes | 20 | 97 | 88 | 140 | 1.5 |
| 1" [25] | Yes | 25 | 109 | 97 | 190 | 2 |
| 1.1/2" [40] | Yes | 38 | 129 | 148 | 290 | 4.5 |
| 2" [50] | Yes | 50 | 145 | 157 | 290 | 6.5 |

| Seat material + DN full bore | Pressure and temperature range | | | | | | | [°C] |
|--|--------------------------------|------|------|-----|-----|-----|-----|-------|
| | -40 | 50 | 100 | 150 | 175 | 200 | 250 | |
| TF4103 & TFM1600 1/4" - 1" | 99.3 | 96.2 | 72 | 48 | 25 | 0 | - | [bar] |
| TF4215 1/4" - 1" | 99.3 | 96.2 | 84.4 | 65 | 45 | 23 | 0 | [bar] |
| TF4103 & TFM1600 1.1/4" - 1.1/2" | 80 | 80 | 60 | 40 | 20 | 0 | - | [bar] |
| TF4215 1.1/4" - 1.1/2" | 80 | 80 | 80 | 61 | 42 | 21 | 0 | [bar] |
| TF4103 & TFM1600 2" | 76 | 76 | 56 | 38 | 20 | 0 | - | [bar] |
| TF4215 2" | 76 | 76 | 76 | 58 | 39 | 20 | 0 | [bar] |

| Nominal inner diameter | Standard thread connection | Pressure rating | Face to Face norm | Manual operation | Mounting flange | Mounting flange 2 | Bore | With locking device | Maximum operating pressure bar | Article |
|------------------------------|----------------------------------|--------------------|--------------------------|---------------------|--------------------|----------------------|-----------|------------------------|---|----------|
| 1/4" [8] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Full bore | No | 99 | 13708518 |
| 3/8" [10] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Full bore | No | 99 | 13708519 |
| 1/2" [15] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Full bore | No | 99 | 13559689 |
| 3/4" [20] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Full bore | No | 99 | 13559690 |
| 1" [25] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F04 | F05 | Full bore | No | 99 | 13559691 |
| 1.1/2" [40] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F07 | | Full bore | No | 80 | 13559692 |
| 2" [50] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F07 | | Full bore | No | 76 | 13559693 |

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