ECON® Ball valve Type: 7522 Steel Internal thread (NPT) Class 300/600









Type: 7522 Norm: ASME

Construction type: 2-way Housing construction: 3-part Housing material: Steel

Material quality: ASTM A216 WCB Surface protection: Chemical blackened 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: RPTFE

Body seal: RPTFE

Material connection piece: ASTM A216 WCB

Actuator material: 1.4301

Minimum medium temperature (continuous): -29 °C Maximum medium temperature (continuous): 220 °C ● Design with worm gearbox, pneumatic, electric or

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 up to and including 2.1/2". Class 300 for 3" and 4".
- With direct-mount top flange according to ISO 5211.
- Closed neck design with leak detection opening.
- The chevron seal set used as a spindle seal and the axial seal ensure a longer service life and lower
- Equipped with a robust, lockable lever.
- Average temperature for a tap with standard TF 4103 seats: -29°C/+220°C. Up to a maximum of 280° C for taps with PEEK seats.

Construction

- Three-part housing construction.
- Design certified according to ISO 7121, MSS SP-110 and MSS SP-72.
- Wall thickness according to EN 12516-1 and ASME B16.34.
- Full or reduced bore.
- Design with antistatic equipment between ball and housing.

Approval

- Fugitive emission certified according to the German Technical Instructions on Air Quality Control (TA-Luft), VDI 2440, point 3.3.1.3.
- Fugitive emission certified according to ISO 15848-1, CO1 and CO2.
- Safety integrity level (SIL) 2.

Options

- 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.

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- Stainless steel extended spindle for insulation.
- 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.

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Ball Valves | Ball valves with threaded connection

Weight kg

0.9

0.9

1

1

1.5

1.5

2

2

3

3

4.5

4.5

6.5

6.5

12.5

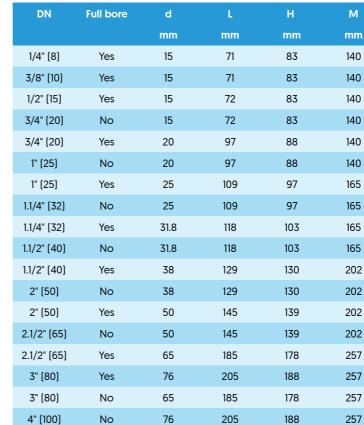
16.5

12.5

16.5

26

Size table:

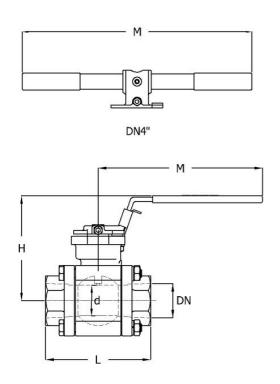


100

240

207.5

405



| Pressure and temperature range | | | | | | | | | | |
|--|-------|-------|------|-----|-----|-----|-----|-------|--|--|
| Seat material + DN full bore | -29 | 50 | 100 | 150 | 200 | 250 | 300 | [°C] | | |
| TF4103 & TFM1600 1/4" - 1" | 102.1 | 100.2 | 68 | 34 | 0 | - | - | [bar] | | |
| TF4215 1/4" - 1" | 102.1 | 100.2 | 93.2 | 63 | 32 | 0 | - | [bar] | | |
| PEEK 1/4" - 1" | 102.1 | 100.2 | 93.2 | 77 | 48 | 18 | 0 | [bar] | | |
| TF4103 & TFM1600 1.1/4" - 1.1/2" | 80 | 80 | 55 | 28 | 0 | - | - | [bar] | | |
| TF4215 1.1/4" - 1.1/2" | 80 | 80 | 80 | 55 | 28 | 0 | - | [bar] | | |
| PEEK 1.1/4" - 1.1/2" | 80 | 80 | 80 | 77 | 48 | 18 | 0 | [bar] | | |
| TF4103 & TFM1600 2" | 76 | 76 | 53 | 27 | 0 | - | - | [bar] | | |
| TF4215 2" | 76 | 76 | 76 | 51 | 25 | 0 | - | [bar] | | |
| PEEK 2" | 76 | 76 | 76 | 76 | 47 | 18 | 0 | [bar] | | |
| TF4103 & TFM1600 2.1/2" | 69 | 69 | 48 | 24 | 0 | - | - | [bar] | | |
| TF4215 2.1/2" | 69 | 69 | 69 | 47 | 24 | 0 | - | [bar] | | |

4" (100)

Yes

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Ball Valves | Ball valves with threaded connection

| Pressure and temperature range | | | | | | | | | |
|---------------------------------|------|------|------|------|------|-----|-----|-------|--|
| Seat material + DN full bore | -29 | 50 | 100 | 150 | 200 | 250 | 300 | [°C] | |
| PEEK 2.1/2" | 69 | 69 | 69 | 69 | 42 | 16 | 0 | [bar] | |
| TF4103 & TFM1600 3" - 4" | 51.1 | 50.1 | 34 | 17 | 0 | - | - | [bar] | |
| TF4215 3" - 4" | 51.1 | 50.1 | 46.6 | 45.1 | 23 | 0 | - | [bar] | |
| PEEK 3" - 4" | 51.1 | 50.1 | 46.6 | 45.1 | 43.8 | 17 | 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 | Yes | 102 | 13278849 |
| 3/8" (10) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Full bore | Yes | 102 | 13278850 |
| 1/2" (15) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Full bore | Yes | 102 | 13278851 |
| 3/4" (20) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Reduced bore | Yes | 102 | 13278841 |
| 3/4" [20] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Full bore | Yes | 102 | 13278852 |
| 1" (25) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F03 | F04 | Reduced bore | Yes | 102 | 13278842 |
| 1" (25) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F04 | F05 | Full bore | Yes | 102 | 13278853 |
| 1.1/4" (32) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F04 | F05 | Reduced bore | Yes | 102 | 13278843 |
| 1.1/4" (32) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F04 | F05 | Full bore | Yes | 80 | 13278854 |
| 1.1/2" (40) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F04 | F05 | Reduced bore | Yes | 80 | 13278844 |
| 1.1/2" (40) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F07 | | Full bore | Yes | 80 | 13278855 |
| 2" (50) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F07 | | Reduced bore | Yes | 80 | 13278845 |
| 2" (50) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F07 | | Full bore | Yes | 76 | 13278856 |
| 2.1/2" [65] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F07 | | Reduced bore | Yes | 76 | 13278846 |
| 2.1/2" [65] | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F07 | F10 | Full bore | Yes | 69 | 13278857 |
| 3" (80) | ASME B1.20.1 | Class 300 | Manufacturer standard | Handle | F07 | F10 | Full bore | Yes | 51 | 13278858 |
| 3" (80) | ASME B1.20.1 | Class 600 | Manufacturer standard | Handle | F07 | F10 | Reduced bore | Yes | 69 | 13278847 |
| 4" (100) | ASME B1.20.1 | Class 300 | Manufacturer standard | Handle | F07 | F10 | Reduced bore | Yes | 51 | 13278848 |
| 4" (100) | ASME B1.20.1 | Class 300 | Manufacturer standard | T-wrench | F10 | | Full bore | No | 51 | 13278859 |

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