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

Characteristics

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

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 torque.
- 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

- 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.
- 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.

PR13035270623142539_EN_04.05.2024

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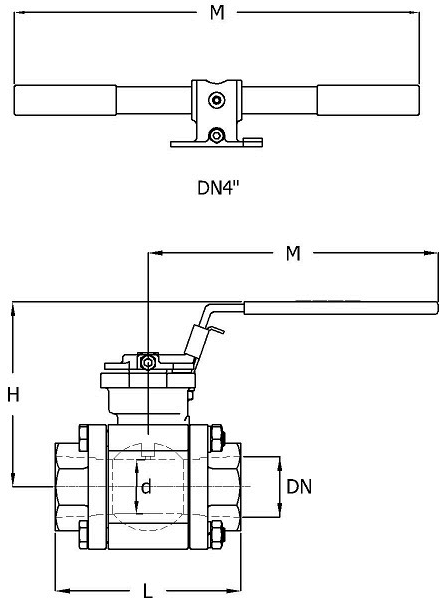

Size table:

DN	Full bore	d	L	H	M	Weight
		mm	mm	mm	mm	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]	No	15	72	83	140	1
3/4" [20]	Yes	20	97	88	140	1.5
1" [25]	Yes	25	109	97	165	2
1.1/2" [40]	No	31.8	118	103	165	3
1.1/2" [40]	Yes	38	129	130	202	4.5
2" [50]	No	38	129	130	202	4.5

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]
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]

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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	EC0752201/4-SPND
3/8" [10]	ASME B1.20.1	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	Yes	102	EC0752203/8-SPND
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	EC0752203/4-SPNE
3/4" [20]	ASME B1.20.1	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	Yes	102	EC0752203/4-SPND
1" [25]	ASME B1.20.1	Class 600	Manufacturer standard	Handle	F04	F05	Full bore	Yes	102	13278853
1.1/2" [40]	ASME B1.20.1	Class 600	Manufacturer standard	Handle	F04	F05	Reduced bore	Yes	80	EC0752211/2S-PNE
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	EC075220002-SPNE

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