

ECON® Ball valve Type: 7422 Steel Internal thread (BSPP) Class 300/600









Type: 7422 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 (BSPP)

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 ISO 228-1 BSPP.
- 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

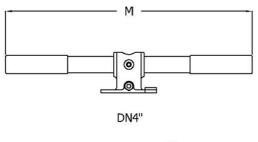
- hydraulic drives.
- Position feedback for manual and automatic valves.
- Available with different seat materials such as TF 4215, TFM 1600 and PEEK.
- Fire-safe design available.
- Stainless steel extended spindle for insulation.
- With connection for earthing.
- With 30°, 60° or 90° V-shaped ball bore for modulating applications.
- Connections with NPT thread according to ASME B1.20.1, socket weld according to ASME B16.11 or EN 12760, and butt weld according to ASME B16.25 S40 or EN 12627.

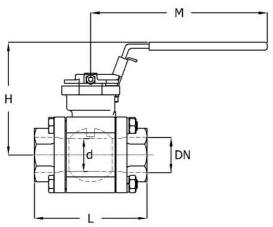


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Ball Valves | Ball valves with threaded connection





Size table:

DN	Full bore	d	L	Н	М	Weight
		mm	mm	mm	mm	kg
1/4" (8)	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)	No	20	97	88	140	1.5
1" (25)	Yes	25	109	97	165	2
1.1/4" (32)	No	25	109	97	165	2
1.1/4" (32)	Yes	31.8	118	103	165	3
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
2" (50)	Yes	50	145	139	202	6.5
2.1/2" [65]	No	50	145	139	202	6.5
2.1/2" [65]	Yes	65	185	178	257	12.5
3" (80)	No	65	185	178	257	12.5

PEEK 1/4" - 1" 102.1 100.2 93.2 77 48 18 TF4103 & 80 80 55 28 0 - TF4215 1.1/4" - 80 80 80 80 55 28 0 PEEK 1.1/4" - 80 80 80 80 77 48 18 TF4103 & 76 76 76 51 25 0 PEEK 2" 76 76 76 76 76 76 76 76 76 76 76 76 76	- 0 - - 0	[bar] [bar] [bar] [bar] [bar] [bar] [bar] [bar]
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TFM1600 2" 76 76 55 27 U - TF4215 2" 76 76 76 51 25 0 PEEK 2" 76 76 76 76 76 47 18 TF4103 & FM1600 2.1/2" 69 69 48 24 0 -	-	
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TFM1600 2.1/2" 69 69 48 24 0 -	0	[bar]
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TF4215 2.1/2" 69 69 69 47 24 0	-	[bar]
PEEK 2.1/2" 69 69 69 42 16	0	[bar]
TF4103 & 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]

Ball Valves | Ball valves with threaded connection

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]	ISO 228-1	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	Yes	102	EC0742201/4S PBD
1/2" (15)	ISO 228-1	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	Yes	102	13278832
3/4" [20]	ISO 228-1	Class 600	Manufacturer standard	Handle	F03	F04	Reduced bore	Yes	102	EC0742203/4 SPBE
3/4" [20]	ISO 228-1	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	Yes	102	13278833
1" (25)	ISO 228-1	Class 600	Manufacturer standard	Handle	F03	F04	Reduced bore	Yes	102	13278810
1" (25)	ISO 228-1	Class 600	Manufacturer standard	Handle	F04	F05	Full bore	Yes	102	13278834
1.1/4" (32)	ISO 228-1	Class 600	Manufacturer standard	Handle	F04	F05	Reduced bore	Yes	102	13278824
1.1/4" (32)	ISO 228-1	Class 600	Manufacturer standard	Handle	F04	F05	Full bore	Yes	80	13278835
1.1/2" [40]	ISO 228-1	Class 600	Manufacturer standard	Handle	F04	F05	Reduced bore	Yes	80	EC0742211/2SPB
1.1/2" [40]	ISO 228-1	Class 600	Manufacturer standard	Handle	F07		Full bore	Yes	80	13278836
2" (50)	ISO 228-1	Class 600	Manufacturer standard	Handle	F07		Reduced bore	Yes	80	13278826
2" (50)	ISO 228-1	Class 600	Manufacturer standard	Handle	F07		Full bore	Yes	76	13278837
2.1/2" [65]	ISO 228-1	Class 600	Manufacturer standard	Handle	F07		Reduced bore	Yes	76	EC0742221/2S PBE
2.1/2" [65]	ISO 228-1	Class 600	Manufacturer standard	Handle	F07	F10	Full bore	Yes	69	EC0742221/2S PBD
3" (80)	ISO 228-1	Class 600	Manufacturer standard	Handle	F07	F10	Reduced bore	Yes	69	13278828

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