ECON[®] Ball valve Type: 7622FS Steel Fire safe Butt weld B16.25 S40 Class 600





Characteristics

Type: 7622FS Norm: ASME Construction type: 2-way Housing construction: 3-part Housing material: Steel Material quality: ASTM A216 WCB Surface protection: Chemical blackened Connection: Butt weld Standard welding connection: B16.25 S40 Top flange standard: ISO 5211 Direct Mount With locking device: No 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 A216 WCB

Minimum medium temperature (continuous): -29 °C Maximum medium temperature (continuous): 220 °C • Fire-safe design available. Fire safe: Yes

Pressure relief:

Application

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

Technical Information

- Connection according to ASME B16.25 S40.
- 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: -29°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 housina.

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.
- 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, BSPP thread according to ISO 228-1, socket weld according to ASME B16.11 or EN 12760, and butt weld according to EN 12627.

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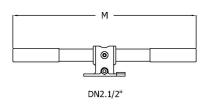
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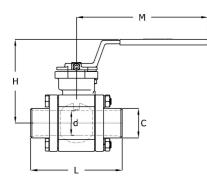
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Size table:





DN	Full bore	d	L	Н	М	С	Weight
		mm	mm	mm	mm	mm	kg
1/4" [8]	Yes	15	71	83	140	13.7	0.9
3/8" (10)	Yes	15	71	83	140	17.1	0.9
1/2" (15)	Yes	15	72	83	140	21.3	1
3/4" (20)	No	15	72	83	140	26.7	1
3/4" (20)	Yes	20	97	88	140	26.7	1.5
1" (25)	No	20	97	88	140	33.4	1.5
1" (25)	Yes	25	109	97	190	33.4	2
1.1/4" (32)	No	25	109	97	190	42.2	2
1.1/4" (32)	Yes	31.8	118	103	190	42.2	3
1.1/2" [40]	No	31.8	118	103	190	48.3	3
1.1/2" (40)	Yes	38	129	148	290	48.3	4.5
2" (50)	No	38	129	148	290	60.3	4.5
2" (50)	Yes	50	145	157	209	60.3	6.5
2.1/2" (65)	No	50	145	157	290	75	6.5

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]	

Nominal inner diameter	External tube diameter of connection	Wall thickness, connection	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	Maximum operating pressure	Article
	mm	mm							bar	
1/4" [8]	13.7	2.25	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	102	13708520
3/8" (10)	17.1	2.3	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	102	13708521
1/2" (15)	21.3	2.75	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	102	13559672
3/4" [20]	26.7	2.85	Class 600	Manufacturer standard	Handle	F03	F04	Reduced bore	102	14256505
3/4" [20] 26.7 2.85 Class 600 Minutaced Handle F03 F04 Reduced bore 102 14256505 Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.										



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	mm	mm							bar	
3/4" [20]	26.7	2.85	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	102	13559673
1" (25)	33.4	3.4	Class 600	Manufacturer standard	Handle	F03	F04	Reduced bore	102	14256506
1" (25)	33.4	3.4	Class 600	Manufacturer standard	Handle	F04	F05	Full bore	102	13559674
1.1/4" (32)	42.2	3.55	Class 600	Manufacturer standard	Handle	F04	F05	Reduced bore	102	14256507
1.1/4" (32)	42.2	3.55	Class 600	Manufacturer standard	Handle	F04	F05	Full bore	80	13559675
1.1/2" [40]	48.3	3.7	Class 600	Manufacturer standard	Handle	F04	F05	Reduced bore	80	14256508
1.1/2" [40]	48.3	3.7	Class 600	Manufacturer standard	Handle	F07		Full bore	80	13559676
2" (50)	60.3	3.9	Class 600	Manufacturer standard	Handle	F07		Reduced bore	80	14256509
2" (50)	60.3	3.9	Class 600	Manufacturer standard	Handle	F07		Full bore	76	13559677
2.1/2" (65)	75	6.25	Class 600	Manufacturer standard	Handle	F07		Reduced bore	76	14256510

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