

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: 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 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.
- 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.

Size table:

DN	Full bore	d mm	L mm	H mm	M mm	C mm	Weight 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	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

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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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