

ECON® Ball valve Type: 7722FS Steel Fire safe Socket weld B16.11 Class 600



Characteristics

Type: 7722FS
Norm: ASME
Construction type: 2-way
Housing construction: 3-part
Housing material: Steel
Material quality: ASTM A216 WCB
Surface protection: Chemical blackened
Connection: Socket weld
Standard welding connection: B16.11
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: 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 B16.11, size 1/4" to 2" full bore also meet the EN 12760 standard.
- 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.

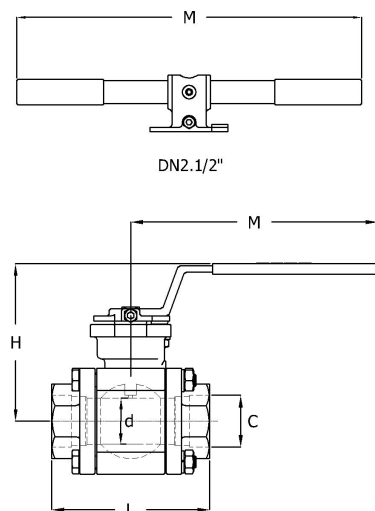
Approval

- 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 BSPP thread according to ISO 228-1, NPT thread according to ASME B1.20.1, socket weld according to EN 12760 and butt weld according to ASME B16.25 S40 or 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	14.4	0.9
3/8" [10]	Yes	15	71	83	140	17.8	0.9
1/2" [15]	Yes	15	72	83	140	21.9	1
3/4" [20]	No	15	72	83	140	27.4	1
3/4" [20]	Yes	20	97	88	140	27.4	1.5
1" [25]	No	20	97	88	140	34.1	1.5
1" [25]	Yes	25	109	97	190	34.1	2
1.1/4" [32]	No	25	109	97	190	42.9	2
1.1/2" [40]	No	31.8	118	103	190	49	3
1.1/2" [40]	Yes	38	129	148	290	49	4.5
2" [50]	No	38	129	148	290	61.5	4.5
2" [50]	Yes	50	145	157	209	61.5	6.5
2.1/2" [65]	No	50	145	157	290	74	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	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	With locking device	Maximum operating pressure	Article
mm	mm								bar	
1/4" [8]	14.4	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	No	102	13708524
3/8" [10]	17.8	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	No	102	13708525
1/2" [15]	21.9	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	No	102	13559678
3/4" [20]	27.4	Class 600	Manufacturer standard	Handle	F03	F04	Reduced bore	No	102	14256511
3/4" [20]	27.4	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	No	102	13559679

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Nominal inner diameter	External tube diameter of connection mm	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	With locking device	Maximum operating pressure bar	Article
1" [25]	34.1	Class 600	Manufacturer standard	Handle	F03	F04	Reduced bore	No	102	14256512
1" [25]	34.1	Class 600	Manufacturer standard	Handle	F04	F05	Full bore	No	102	13559680
1.1/4" [32]	42.9	Class 600	Manufacturer standard	Handle	F04	F05	Reduced bore	No	102	14256514
1.1/2" [40]	49	Class 600	Manufacturer standard	Handle	F04	F05	Reduced bore	No	80	14256515
1.1/2" [40]	49	Class 600	Manufacturer standard	Handle	F07		Full bore	No	80	13559681
2" [50]	61.5	Class 600	Manufacturer standard	Handle	F07		Reduced bore	No	80	14256516
2" [50]	61.5	Class 600	Manufacturer standard	Handle	F07		Full bore	No	76	13559682
2.1/2" [65]	74	Class 600	Manufacturer standard	Handle	F07		Reduced bore	No	76	14256517

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