



ECON® Ball valve Type: 7542 Stainless steel Internal thread (NPT) Class 300/600



Characteristics

Type: 7542

Norm: ASME

Construction type: 2-way

Housing construction: 3-part

Housing material: Stainless steel

Material quality: ASTM A351 CF8M

Connection: Internal thread (NPT)

Top flange standard: ISO 5211 Direct Mount

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 A351 CF8M

Actuator material: 1.4301

Minimum medium temperature (continuous): -40 °C

Maximum medium temperature (continuous): 220 °C

Maximum operating pressure [Bar]: 99 bar

Application

- Industrial and maritime applications.
- Liquid and gaseous media.
- Recommended in: Chemical, Food & Beverages

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.
- All components intended to come into contact with food comply with EC 1935.
- 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: -40°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

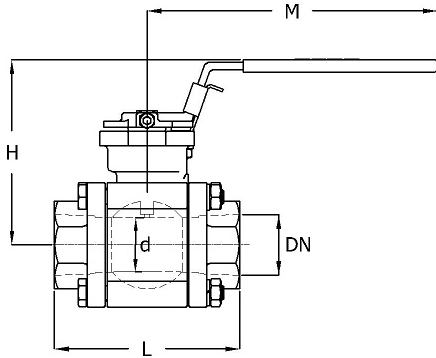
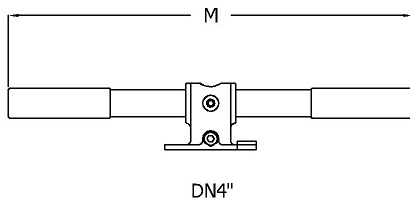
- Fugitive emission certified according to the German Technical Instructions on Air Quality Control [TA-Luft], VDI 2440, point 3.3.1.3.
- Fugitive emission certified according to ISO 15848-1, CO1 and CO2.
- Safety integrity level [SIL] 2.
- Declaration of conformity according to EC 1935/2004.

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 or for cold applications (up to -50°C).
- 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 or ISO 1127 S1 or SMS 3008 [EN 10357 series D] or DIN 11850 series 1 and 2 [EN 10357 series B and A].

Size table:

DN	Full bore	d mm	L mm	H mm	M mm	Weight kg
1/2" [15]	Yes	15	72	83	140	1
3/4" [20]	No	15	72	83	83	1
3/4" [20]	Yes	20	97	88	140	1.5



Seat material + DN full bore	Pressure and temperature range								[°C]
	-40	50	100	150	175	200	250	300	
TF4103 & TFM1600 1/4" - 1"	99.3	96.2	72	48	25	0	-	-	[bar]
TF4215 1/4" - 1"	99.3	96.2	84.4	65	45	23	0	-	[bar]
PEEK 1/4" - 1"	99.3	96.2	84.4	77	58	37	13	0	[bar]
TF4103 & TFM1600 1.1/4 " - 1.1/2"	80	80	60	40	20	0	-	-	[bar]
TF4215 1.1/4" - 1.1/2"	80	80	80	61	42	21	0	-	[bar]
PEEK 1.1/4" - 1.1/2"	80	80	80	77	57	36	13	0	[bar]
TF4103 & TFM1600 2"	76	76	56	38	20	0	-	-	[bar]
TF4215 2"	76	76	76	58	39	20	0	-	[bar]
PEEK 2"	76	76	76	76	56	35	12	0	[bar]
TF4103 & TFM1600 2.1/2 "	69	69	52	35	18	0	-	-	[bar]
TF4215 2.1/2"	69	69	69	53	37	19	0	-	[bar]
PEEK 2.1/2"	69	69	69	69	50	31	10	0	[bar]
TF4103 & TFM1600 3" - 4"	49.6	48.1	37	25	12	0	-	-	[bar]
TF4215 3" - 4"	49.6	48.1	42.2	38.5	37	18	0	-	[bar]
PEEK 3" - 4"	49.6	48.1	42.2	38.5	37	35.7	13	0	[bar]

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.

Nominal inner diameter	Standard thread connection	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	With locking device	Material ball	Article
1/2" [15]	ASME B1.20.1	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	Yes	ASTM A351 CF8M	13278916
3/4" [20]	ASME B1.20.1	Class 600	Manufacturer standard	Handle	F03	F04	Reduced bore	Yes	ASTM A351 CF8M	13278929
3/4" [20]	ASME B1.20.1	Class 600	Manufacturer standard	Handle	F03	F04	Full bore	Yes	ASTM A351 CF8M	13278918

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.