



ECON® Ball valve Type: 7642 Stainless steel Butt weld EN ISO 1127-1 Class 300/600



Characteristics

Type: 7642
Norm: ASME
Construction type: 2-way
Housing construction: 3-part
Housing material: Stainless steel
Material quality: ASTM A351 CF8M
Connection: Butt weld
Standard welding connection: EN ISO 1127-1
Top flange standard: ISO 5211 Direct Mount
With locking device: No
Material ball: ASTM A351 CF8M
Seat material: TF 4215
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 CF3M
Actuator material: 1.4301
Minimum medium temperature (continuous): -40 °C
Maximum medium temperature (continuous): 220 °C

Application

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

Technical Information

- Connection according to ISO 1127 S1.
- 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.

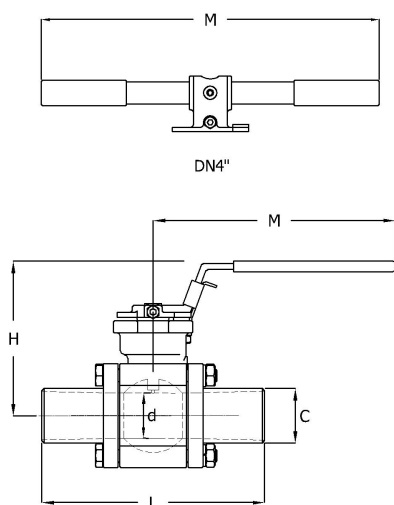
Options

- 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, 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 or SMS 3008 [EN 10357 series D] or DIN 11850 series 1 and 2 [EN 10357 series B and A].

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Size table:

DN	Full bore	d mm	L mm	H mm	M mm	C mm	Weight kg
1/4" [8]	Yes	15	116	83	140	13.5	0.9
3/8" [10]	Yes	15	116	83	140	17.2	0.9
3/4" [20]	No	15	116	83	140	26.9	1.5
1.1/4" [32]	No	25	135	97	165	42.4	2
1.1/2" [40]	No	31.8	146	103	165	48.3	3
2" [50]	No	38	167	130	202	60.3	4.5



Pressure and temperature range									
Seat material + DN full bore	-40	50	100	150	175	200	250	300	[°C]
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]

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Nominal inner diameter	External tube diameter of connection mm	Wall thickness, connection mm	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	Maximum operating pressure bar	Article
1/4" [8]	13.5	1.6	Class 600	Manufacturer standard	Bare stem	F03	F04	Full bore	99	EC0764201/4-RRWDI
3/8" [10]	17.2	1.6	Class 600	Manufacturer standard	Bare stem	F03	F04	Full bore	99	EC0764203/8-RRWDI
3/4" [20]	26.9	1.6	Class 600	Manufacturer standard	Bare stem	F03	F04	Reduced bore	99	EC0764203/4-RRWEI
1.1/4" [32]	42.4	2	Class 600	Manufacturer standard	Bare stem	F04	F05	Reduced bore	99	EC0764211/4R-RWEI
1.1/2" [40]	48.3	2	Class 600	Manufacturer standard	Bare stem	F04	F05	Reduced bore	80	EC0764211/2R-RWEI
2" [50]	60.3	2.6	Class 600	Manufacturer standard	Bare stem	F07		Reduced bore	80	EC076420002-RRWEI

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