



ECON® Ball valve Type: 7642 Stainless steel Butt weld SMS 3008 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: SMS 3008
Top flange standard: ISO 5211 Direct Mount
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: ASTM A351 CF8
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: Food & Beverages

Technical Information

- Connection according to EN 10357-D (SMS 3008).
- 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.

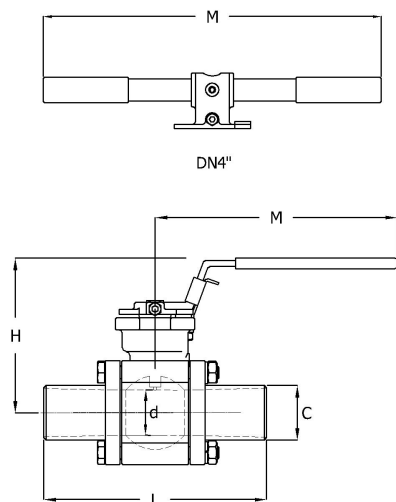
Options

- 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 ISO 1127 S1 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
DN20	No	15	116	83	140	25	1



Pressure and temperature range									
Seat material + DN full bore	-40	50	100	150	175	200	250	300	[°C]
TF4103 & TFM1600 DN08 - DN25	99.3	96.2	72	48	25	0	-	-	[bar]
TF4215 DN08 - DN25	99.3	96.2	84.4	65	45	23	0	-	[bar]
PEEK DN08 - DN25	99.3	96.2	84.4	77	58	37	13	0	[bar]
TF4103 & TFM1600 DN32 - DN40	80	80	60	40	20	0	-	-	[bar]
TF4215 DN32 - DN40	80	80	80	61	42	21	0	-	[bar]
PEEK DN32 - DN40	80	80	80	77	57	36	13	0	[bar]
TF4103 & TFM1600 DN50	76	76	56	38	20	0	-	-	[bar]
TF4215 DN50	76	76	76	58	39	20	0	-	[bar]
PEEK DN50	76	76	76	76	56	35	12	0	[bar]
TF4103 & TFM1600 DN65	69	69	52	35	18	0	-	-	[bar]
TF4215 DN65	69	69	69	53	37	19	0	-	[bar]
PEEK DN65	69	69	69	69	50	31	10	0	[bar]
TF4103 & TFM1600 DN80 - DN100	49.6	48.1	37	25	12	0	-	-	[bar]
TF4215 DN80 - DN100	49.6	48.1	42.2	38.5	37	18	0	-	[bar]

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Pressure and temperature range									
PEEK DN80 - DN100	49.6	48.1	42.2	38.5	37	35.7	13	0	[bar]

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	With locking device	Article
DN20	26.9	1.6	Class 600	Manufacturer standard	Bare stem	F03	F04	Reduced bore	No	EC0764203/4-RRWES

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