



ECON® Ball valve Type: 7654 Stainless steel Butt welded loose end B16.25 S40 1000 PSI WOG



Characteristics

Type: 7654
Norm: ASME
Construction type: 2-way
Housing construction: 3-part
Housing material: Stainless steel
Material quality: ASTM A351 CF8M
Connection: Butt welded loose end
Standard welding connection: B16.25 S40
Face to Face norm: Manufacturer standard
Top flange standard: ISO 5211 Direct Mount
Bore: Full bore
Material ball: ASTM A351 CF8M
Seat material: TFM 1600
Spindle material: ASTM A276 316
Primary spindle seal material: PTFE
Secondary spindle seal material: FPM (FKM)
Tertiary spindle seal material: PTFE
Body seal: TFM 1600
Material connection piece: ASTM A351 CF3M
Minimum medium temperature (continuous): -29 °C
Maximum medium temperature (continuous): 205 °C

Application

- Compressed air, central heating systems, water, fuel and slightly corrosive systems up to a maximum of 68 bar.
- Recommended in: Food & Beverages

Technical Information

- Connection according to ASME B16.25, Schedule 40 [butt-welding].
- Floating ball.
- Pressure class 1000 PSI WOG.
- In sizes 0.25-3 inches.
- With "direct mount" top-flange in accordance with ISO-5211.
- Cavity relief bore in the ball.
- Double self-adjusting gland packing in accordance with TA Luft regulations.
- Equipped with lockable lever, 2.1/2 and 3 inches with T-wrench.

Construction

- Three-piece housing construction.
- Design in accordance with MSS SP-110.
- Full bore.
- Equipped with anti-static design between ball, spindle and housing.

Execution

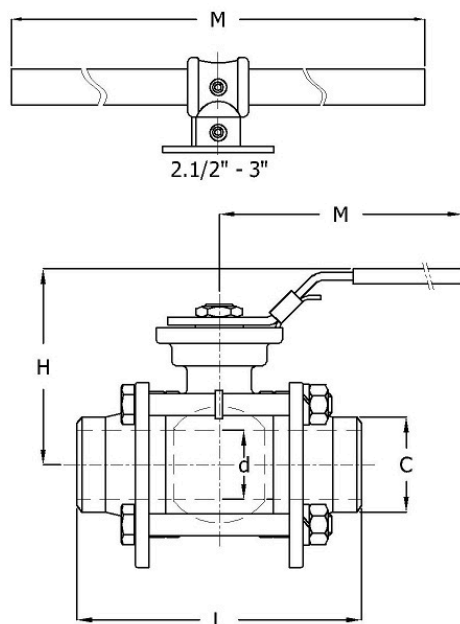
- Quick-weld model: fast, efficient mounting and positioning after welding via freely rotating butt-weld ends

Approval

- TA Luft certified in accordance with VDI 2440, section 3.3.1.3.
- Declaration of conformity according to EC 1935/2004.

Options

- Equipped with worm gearbox and pneumatic, electric or hydraulic actuators.
- Position feedback for manual or automated valves.
- Ball seals in TFM4215
- Stainless steel extended spindle type 8007 for insulation.
- With rotating butt-weld ends [quick-weld design] according to ISO 1127-1, type 7641, EN 10357-A or EN 10357-D, type 7611, and ASME B16.25 for cold applications down to -40°C, type 7645



Size table:

DN	d	L	H	M	C	Weight
	mm	mm	mm	mm	mm	kg
1/4" [8]	10.6	70	72	145	13.8	0.7
3/8" [10]	12.7	70	72	145	17.2	0.7
1/2" [15]	15	75	72	145	21.4	0.7
3/4" [20]	20	90	80	145	26.7	0.9
1" [25]	25	100	90	175	33.4	1.4
1.1/4" [32]	32	110	95	175	42.2	2.1
1.1/2" [40]	38	125	106	194	48.3	3
2.1/2" [65]	63.5	190	149	265	73.1	8.3

Pressure and temperature range							
Size	Temperature range	-29	38	100	150	200	[°C]
1/4" - 2"	-29°C/+200°C	68	68	44	22	1	[bar]
2.1/2" - 3"	-29°C/+200°C	50	50	32	16	1	[bar]
Pressure class 1000 PSI WOG							

Nominal inner diameter	External tube diameter of connection	Wall thickness, connection	Pressure rating	Manual operation	Mounting flange	Mounting flange 2	With locking device	Actuator material	Maximum operating pressure	Article
	mm	mm							bar	
1/4" [8]	13.8	2.3	1000 PSI WOG	Handle	F03	F04	Yes	1.4301	63	EC0765401/4-RPWL
3/8" [10]	17.2	2.35	1000 PSI WOG	Handle	F03	F04	Yes	1.4301	63	EC0765403/8-RPWL
1/2" [15]	21.4	2.8	1000 PSI WOG	Handle	F03	F04	Yes	1.4301	63	EC0765401/2-RPWL
3/4" [20]	26.7	2.9	1000 PSI WOG	Handle	F03	F05	Yes	1.4301	63	EC0765403/4-RPWL
1" [25]	33.4	3.4	1000 PSI WOG	Handle	F04	F05	Yes	1.4301	63	EC076540001-RPWL
1.1/4" [32]	42.2	3.6	1000 PSI WOG	Handle	F04	F07	Yes	1.4301	63	12695573
1.1/2" [40]	48.3	3.7	1000 PSI WOG	Handle	F05	F07	Yes	1.4301	63	EC0765411/2R-PWL
2.1/2" [65]	73.1	5.2	1000 PSI WOG	T-wrench	F07	F10	No	Steel, galvanized	51	12700676

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