



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

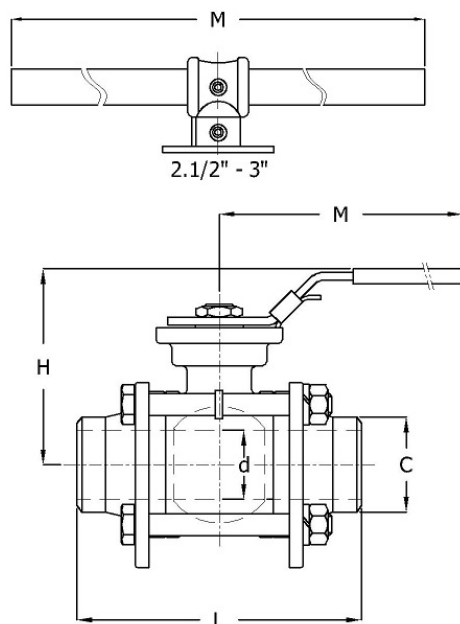
- Quick-weld model: fast, efficient mounting and positioning after welding via freely rotating butt-weld ends

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" [50]	50	150	110	197	61.5	4.3
2.1/2" [65]	63.5	190	149	265	73.1	8.3
3" [80]	76	220	159	265	88.9	11.9

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	12725835
3/8" [10]	17.2	2.35	1000 PSI WOG	Handle	F03	F04	Yes	1.4301	63	12725838
1/2" [15]	21.4	2.8	1000 PSI WOG	Handle	F03	F04	Yes	1.4301	63	12725834
3/4" [20]	26.7	2.9	1000 PSI WOG	Handle	F03	F05	Yes	1.4301	63	12725837
1" [25]	33.4	3.4	1000 PSI WOG	Handle	F04	F05	Yes	1.4301	63	12622193
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	12659631
2" [50]	61.5	4.5	1000 PSI WOG	Handle	F05	F07	Yes	1.4301	63	12700675
2.1/2" [65]	73.1	5.2	1000 PSI WOG	T-wrench	F07	F10	No	Steel, galvanized	51	12700676
3" [80]	88.9	5.5	1000 PSI WOG	T-wrench	F07	F10	No	Steel, galvanized	51	12700677

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.