



ECON® Ball valve Type: 7644 Stainless steel Socket weld B16.11 1000 PSI WOG



Characteristics

Type: 7644
Norm: ASME
Construction type: 2-way
Housing construction: 3-part
Housing material: Stainless steel
Material quality: 1.4408
Connection: Socket weld
Standard welding connection: B16.11
Top flange standard: ISO 5211 Direct Mount
Bore: Full bore
Material ball: 1.4408
Seat material: PTFE
Spindle material: 1.4401
Primary spindle seal material: PTFE
Secondary spindle seal material: FPM (FKM)
Tertiary spindle seal material: PTFE
Body seal: PTFE
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 B16.11 (projection welding)
- Floating ball.
- Pressure class 1000 PSI WOG
- In sizes 0.25-4 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, 4 inches with T-wrench.

Construction

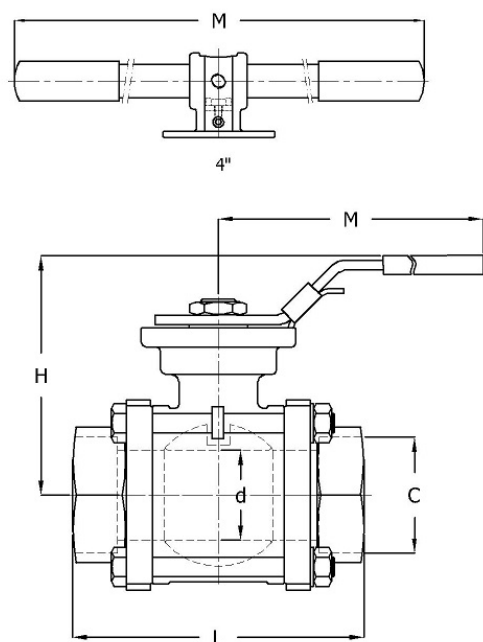
- Three-piece housing construction.
- Design of the ball valve as per MSS SP-110
- Full bore.
- Equipped with anti-static design between ball, spindle and housing.

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.
- Steel housing, type 7624
- Ball seals in TFM4215
- Stainless steel extended spindle type 8007 for insulation.
- Connection ASME B16.25, Schedule 40
- Connection in NPT according to ASME B1.20.1, type 7544
- Connection in BSP according to ISO 228-1, type 7444
- Connection in butt weld according to ISO 1127-1, type 7621
- With rotating butt-weld ends (quick-weld design) according to ISO 1127-1, type 7641, ASME B16.25, type 7654, 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 mm	L mm	H mm	M mm	C mm	Weight kg
1/4" [8]	10.6	75	72	147	14.2	0.7
3/8" [10]	12.7	75	72	147	17.8	0.7
1/2" [15]	15	75	72	147	21.8	0.7
3/4" [20]	20	80	79	147	27.3	0.9
1" [25]	25	90	89	177	34	1.4
1.1/4" [32]	32	110	93	177	42.8	2.1
1.1/2" [40]	38	120	103	197	48.9	3
2" [50]	50	140	110	197	61.4	4.3
2.1/2" [65]	63.5	185.5	149	267	74	8.3
3" [80]	76	205	159	267	90	11.9
4" [100]	100	240	212	400	115.4	22.7

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" - 4"	-29°C/+200°C	50	50	32	16	1	[bar]

Pressure class 1000 PSI WOG

Nominal inner diameter	External tube diameter of connection mm	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	With locking device	Actuator material	Maximum operating pressure bar	Article
1/4" [8]	14.2	1000 PSI WOG	Manufacturer standard	Handle	F03	F04	Yes	1.4301	63	11814613
3/8" [10]	17.8	1000 PSI WOG	Manufacturer standard	Handle	F03	F04	Yes	1.4301	63	13486609
1/2" [15]	21.8	1000 PSI WOG	Manufacturer standard	Handle	F03	F04	Yes	1.4301	63	11814615
3/4" [20]	27.3	1000 PSI WOG	Manufacturer standard	Handle	F03	F05	Yes	1.4301	63	11814616
1" [25]	34	1000 PSI WOG	Manufacturer standard	Handle	F04	F05	Yes	1.4301	63	11814617
1.1/4" [32]	42.8	1000 PSI WOG	Manufacturer standard	Handle	F04	F07	Yes	1.4301	63	11814618
1.1/2" [40]	48.9	1000 PSI WOG	Manufacturer standard	Handle	F05	F07	Yes	1.4301	63	11814619
2" [50]	61.4	1000 PSI WOG	Manufacturer standard	Handle	F05	F07	Yes	1.4301	63	11814620
2.1/2" [65]	74	1000 PSI WOG	Manufacturer standard	Handle	F07	F10	Yes	1.4301	51	11814621
3" [80]	90	1000 PSI WOG	Manufacturer standard	Handle	F07	F10	Yes	1.4301	51	11814622
4" [100]	115.4	1000 PSI WOG	Manufacturer standard	T-wrench	F10		No	Steel, galvanized	51	11814623

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.