



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

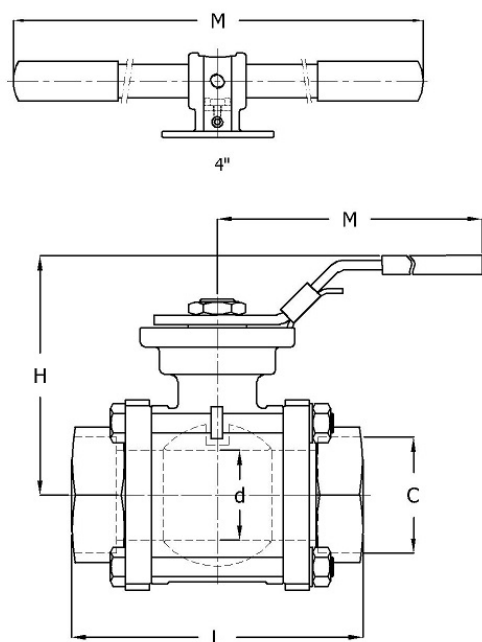
- Three-piece housing construction.
- Design of the ball valve as per MSS SP-110
- Full bore.
- Equipped with anti-static design between ball, spindle and housing.

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	L	H	M	C	Weight
	mm	mm	mm	mm	mm	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	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	With locking device	Actuator material	Maximum operating pressure	Article
	mm								bar	
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

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