



ECON® Ball valve Type: 7642+7412 Stainless steel Butt weld B16.25 S40 Class 300/600



Characteristics

Type: 7642CR+7412
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: B16.25 S40
Top flange standard: ISO 5211 Direct Mount
Bore: Full bore
Material ball: ASTM A351 CF8M
Seat material: TF 4103
Spindle material: ASTM A276 316 Grade S
Primary spindle seal material: RPTFE
Secondary spindle seal material: EPDM
Tertiary spindle seal material: RPTFE
Body seal: RPTFE
Material connection piece: ASTM A351 CF3M
Actuator material: 1.4301
Minimum medium temperature (continuous): -50 °C
Maximum medium temperature (continuous): 150 °C
Pressure relief: Yes

Application

- "Cold" applications to -50°C (industry and maritime sector).
- Liquid and gaseous media.
- Recommended in: Food & Beverages, Machine Construction, Utilities

Technical Information

- Connection according to ASME B16.25 S40.
- Pressure class 600 up to and including 2.1/2". Class 300 for 3" and 4".
- Ball with hole on the pressure side (pressure relief).
- Unidirectional, arrow on the outside shows direction of flow.
- Includes extension stem, type 7412, filled with silicone-based grease.
- Filling nipple in the upper flange shut-off valve for filling the extended spindle with grease.
- All components intended to come into contact with food comply with EC 1935.
- Medium temperature for a ball valve with standard TF 4103 seats: -50°C/+150°C.

Construction

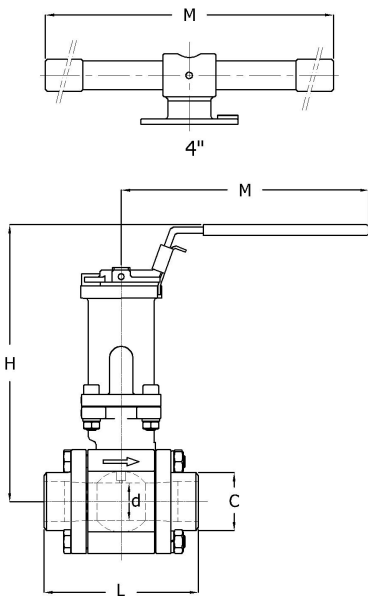
- Three-piece housing construction.
- Design certified according to ISO 7121, MSS SP-110 and MSS SP-72.
- Wall thickness according to EN 12516-1 and ASME B16.34.
- Equipped with anti-static design between ball and housing.
- The O-rings in the spindle seal are made of EPDM and are therefore suitable for ammonia solutions.

Approval

- TA Luft certified in accordance with VDI 2440, section 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

- Equipped with worm gearbox and pneumatic, electric or hydraulic actuators.
- Position feedback for manual or automated valves.



Size table:

DN	Full bore	d	L	H	M	C	Weight
		mm	mm	mm	mm	mm	kg
1/4" [8]	Yes	15	71	183	140	13.7	0.9
3/8" [10]	Yes	15	71	183	140	17.1	0.9
1/2" [15]	Yes	15	72	183	140	21.3	1
3/4" [20]	Yes	20	97	188	140	26.7	1.5
1" [25]	Yes	25	109	197	165	33.4	2
1.1/4" [32]	Yes	31.8	118	203	165	42.2	3
1.1/2" [40]	Yes	38	129	230	202	48.3	4.5
2" [50]	Yes	50	145	239	202	60.3	6.5
2.1/2" [65]	Yes	65	185	278	257	75	12.5
3" [80]	Yes	76	205	288	257	88.9	16.5
4" [100]	Yes	100	240	307.5	405	114.3	26

Nominal inner diameter	External tube diameter of connection	Wall thickness, connection	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	With locking device	Maximum operating pressure	Article
	mm	mm							bar	
1/4" [8]	13.7	2.25	Class 600	Manufacturer standard	Handle	F03	F04	Yes	100	14229939
3/8" [10]	17.1	2.3	Class 600	Manufacturer standard	Handle	F03	F04	Yes	100	14229940
1/2" [15]	21.3	2.75	Class 600	Manufacturer standard	Handle	F03	F04	Yes	100	14229941
3/4" [20]	26.7	2.85	Class 600	Manufacturer standard	Handle	F03	F04	Yes	100	14229942
1" [25]	33.4	3.4	Class 600	Manufacturer standard	Handle	F04	F05	Yes	100	14229943
1.1/4" [32]	42.2	3.55	Class 600	Manufacturer standard	Handle	F04	F05	Yes	80	14229944
1.1/2" [40]	48.3	3.7	Class 600	Manufacturer standard	Handle	F07		Yes	80	14229945
2" [50]	60.3	3.9	Class 600	Manufacturer standard	Handle	F07		Yes	76	14229946
2.1/2" [65]	75	6.25	Class 600	Manufacturer standard	Handle	F07	F10	Yes	69	14229947
3" [80]	88.9	5.5	Class 300	Manufacturer standard	Handle	F07	F10	Yes	50	14229948
4" [100]	114.3	6	Class 300	Manufacturer standard	T-wrench	F10		No	50	14229949

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