



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

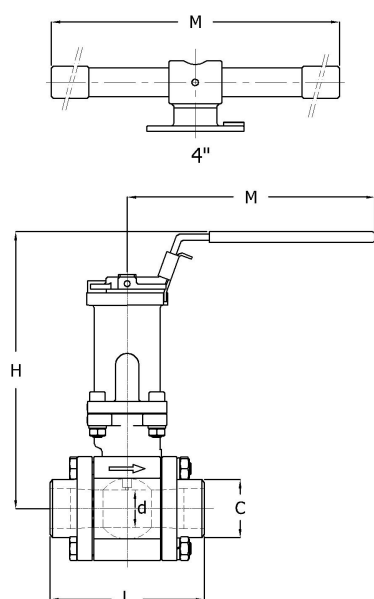
- Three-piece housing construction.
- Design certified according to ISO 7121, MSS SP-110 and MSS SP-72.
- Wall thickness according to EN 12516-1 and ASME B16.34.
- Equipped with anti-static design between ball and housing.
- The O-rings in the spindle seal are made of EPDM and are therefore suitable 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 mm	L mm	H mm	M mm	C mm	Weight 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 mm	Wall thickness, connection mm	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	With locking device	Maximum operating pressure bar	Article
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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