

ECON® Ball valve Type: 7297 Stainless steel Fire safe Flange Class 300



Characteristics

Type: 7297

Norm: ASME

Construction type: 2-way

Housing construction: 2-part

Housing material: Stainless steel

Material quality: ASTM A351 CF8M

Connection: Flange

Flange finish: Raised face

Top flange standard: ISO 5211 Direct Mount

Seat material: TFM 1600

Spindle material: ASTM A276 316

Primary spindle seal material: PTFE

Secondary spindle seal material: FPM (FKM)

Tertiary spindle seal material: Graphite

Body seal: SWG 316L/PTFE/Graphite

Minimum medium temperature (continuous): -29 °C

Maximum medium temperature (continuous): 200 °C

Maximum operating pressure [Bar]: 51 bar

Fire safe: Yes

Application

- Industrial applications up to 51 bar.
- Liquid and gaseous media.
- Recommended in: Food & Beverages

Technical Information

- Flanged connection in accordance with ASME B16.5 RF.
- Floating ball.
- ASME pressure rating: class 300.
- With direct-mount top flange in accordance with ISO 5211.
- All components intended to come into contact with food comply with EC 1935.
- Media temperature: -29/+200°C.
- ½" to 3" with lever and locking device.
- 4" to 6" with T-bar.
- 8" without control as standard.

Construction

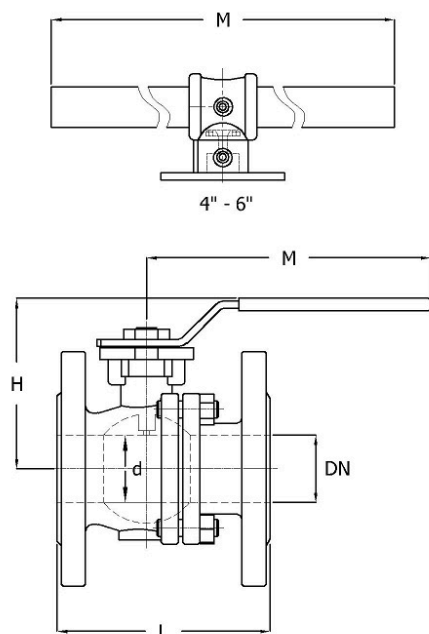
- Two-piece housing construction.
- Design according to ASME B16.34.
- Full bore.
- With anti-static design between ball and housing.
- Face-to-face dimension according to ASME B16.10: long pattern.

Approval

- Fugitive emission certified in accordance with TA-Luft VDI 2440 / VDI 3479.
- Fugitive emission certified in accordance with ISO 15848-1 BH-CO1 and CH-CO3.
- Fire-safe approval in accordance with ISO 10497 and API 607, sixth edition.
- Safety integrity level IEC 61508 SIL 2.
- Declaration of conformity according to EC 1935/2004.

Options

- Equipped with worm gearbox and pneumatic, electric or hydraulic actuators.
- Position feedback for manually actuated or automated valves.
- Available with seats in TF4215.
- Stainless steel extended spindle type 8007 for insulation.



Size table:

DN	d mm	L mm	H mm	M mm	Weight kg
1/2" [15]	15	140	79	145	2.4
3/4" [20]	20	152	89	145	3.2
1" [25]	25	165	94.5	175	4.2
1.1/2" [40]	38	190	110	190	6.9
2" [50]	50	216	115	190	9.5
3" [80]	76	282	176	265	17.7
4" [100]	100	305	204	400	25.2

Pressure and temperature range						
DN	-29	38	93	149	200	[°C]
1/2" - 1"	51	48	41	37	16	[bar]
1.1/2" - 2"	51	48	41	32	15	[bar]
3" - 4"	51	48	41	27	11	[bar]
6" - 8"	51	48	35	18	4	[bar]

Nominal inner diameter	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	With locking device	Material ball	Actuator material	Article
1/2" [15]	Class 300	ASME B16.10, T2, Serie 7	Handle	F03	F04	Full bore	Yes	ASTM A351 CF8M	1.4301	EC0729701/2-RP3L
3/4" [20]	Class 300	ASME B16.10, T2, Serie 7	Handle	F03	F04	Full bore	Yes	ASTM A351 CF8M	1.4301	EC0729703/4-RP3L
1" [25]	Class 300	ASME B16.10, T2, Serie 7	Handle	F04	F05	Full bore	Yes	ASTM A351 CF8M	1.4301	EC072970001-RP3L
1.1/2" [40]	Class 300	ASME B16.10, T2, Serie 7	Handle	F05	F07	Full bore	Yes	ASTM A351 CF8M	1.4301	EC0729711/2RP3L
2" [50]	Class 300	ASME B16.10, T2, Serie 7	Handle	F05	F07	Full bore	Yes	ASTM A351 CF8M	1.4301	EC072970002-RP3L
3" [80]	Class 300	ASME B16.10, T2, Serie 7	Handle	F07	F10	Full bore	Yes	ASTM A351 CF8M	1.4301	EC072970003-RP3L
4" [100]	Class 300	ASME B16.10, T2, Serie 7	T-wrench	F10		Full bore	No	ASTM A351 CF8M	Steel, galvanized	EC072970004-RP3L

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