

ECON® Ball valve Type: 72451 Steel Fire safe Flange Class 150**Characteristics**

- Type:** 72451
- Norm:** ASME
- Construction type:** 2-way
- Housing construction:** 2-part
- Housing material:** Steel
- Material quality:** ASTM A216 WCB
- Surface protection:** Acrylic polyurethane
- 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:** Kalrez 6375
- Tertiary spindle seal material:** Graphite
- Body seal:** SWG 316L/PTFE/Graphite
- Minimum medium temperature (continuous):** -10 °C
- Maximum medium temperature (continuous):** 200 °C
- Maximum operating pressure [Bar]:** 20 bar
- Fire safe:** Yes

Application

- Industrial applications, e.g. for chemicals, gases and corrosive media up to 20 bar.
- Suitable for SIL2 applications.

Technical Information

- Flanged connection in accordance with ASME B16.5 RF.
- Floating ball.
- ASME pressure rating: class 150.
- With direct-mount top flange in accordance with ISO 5211.
- Media temperature: -10/+200°C.
- Acrylic polyurethane coating in RAL5015.
- Designed with Kalrez spindle seal.
- ½" to 3" with "Heavy Duty" lever.
- 4" to 6" with T-bar.
- 8" without control as standard.

Construction

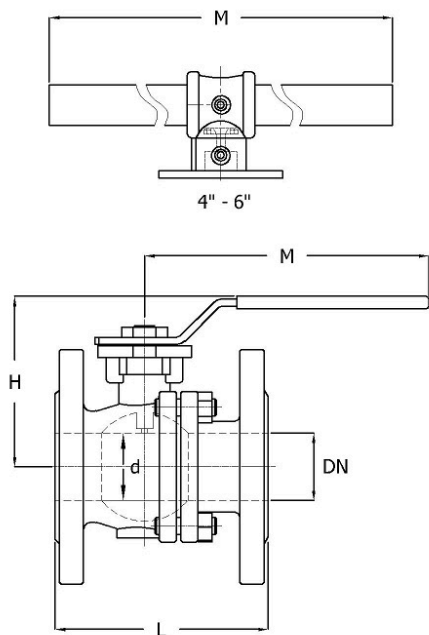
- Two-piece housing construction.
- Design according to ASME B16.34.
- Full bore.
- Equipped with anti-static design between ball and housing.
- Face-to-face dimension according to ASME B16.10: long pattern.

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.

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	108	79	145	1.7
3/4" [20]	20	117	84	145	2.2
1" [25]	25	127	90.5	175	2.9
1.1/2" [40]	38	165	111	194	5.9
2" [50]	50	178	116	194	8.4
3" [80]	76	203	160	265	17.8
4" [100]	100	229	182	400	30.5
6" [150]	150	394	280	800	72
8" [200]	200	457	279.5		131.4

Pressure and temperature range						
DN	-10	38	93	149	200	[°C]
1/2" - 4"	20	20	18	16	14	[bar]
6" - 8"	20	20	18	16	12	[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 150	ASME B16.10, T1, Serie 18	Handle	F03	F04	Full bore	Yes	ASTM A351 CF8M	1.4301	13291112
3/4" [20]	Class 150	ASME B16.10, T1, Serie 18	Handle	F03	F05	Full bore	Yes	ASTM A351 CF8M	1.4301	13291113
1" [25]	Class 150	ASME B16.10, T1, Serie 18	Handle	F04	F05	Full bore	Yes	ASTM A351 CF8M	1.4301	13291114
1.1/2" [40]	Class 150	ASME B16.10, T1, Serie 18	Handle	F05	F07	Full bore	Yes	ASTM A351 CF8M	1.4301	13291115
2" [50]	Class 150	ASME B16.10, T1, Serie 18	Handle	F05	F07	Full bore	Yes	ASTM A351 CF8M	1.4301	13291116
3" [80]	Class 150	ASME B16.10, T1, Serie 18	Handle	F07	F10	Full bore	Yes	ASTM A351 CF8M	1.4301	13291117
4" [100]	Class 150	ASME B16.10, T1, Serie 18	T-wrench	F10		Full bore	No	ASTM A351 CF8M	Steel, galvanized	13291118
6" [150]	Class 150	ASME B16.10, T1, Serie 18	T-wrench	F12		Full bore	No	ASTM A351 CF8M	Steel, galvanized	13291119
8" [200]	Class 150	ASME B16.10, T1, Serie 18	Bare stem	F14		Full bore	No	ASTM A351 CF8M		14463305

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.