



ECON® Ball valve Type: 72491 Steel Fire safe Flange PN16/40



Characteristics

Type: 72491
Norm: EN (DIN)
Construction type: 2-way
Housing construction: 2-part
Housing material: Steel
Material quality: 1.0619
Surface protection: Acrylic polyurethane
Connection: Flange
Flange finish: Raised face
Top flange standard: ISO 5211 Direct Mount
Material ball: 1.4308
Seat material: TFM 1600
Spindle material: 1.4301
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
Fire safe: Yes

Application

- Industrial and chemical applications up to 16 or 40 bar.
- Liquid and gaseous media.
- Recommended in: Chemical

Technical Information

- Flanged connection in accordance with EN1092-1.
- Floating ball.
- Pressure rating PN16 or PN40.
- With direct-mount top flange in accordance with ISO 5211.
- Media temperature: -10/+200°C.
- Designed with Kalrez spindle seal.
- Acrylic polyurethane coating in RAL5015.
- DN15 to DN80 with "Heavy Duty" lever.
- DN100 to DN150 with T-bar.
- DN200 as standard with bare stem.

Construction

- Two-piece housing construction.
- Design according to EN 12516-1.
- Full bore.
- Equipped with anti-static design between ball and housing.
- Face-to-face dimension according to EN 558, series 27.

Approval

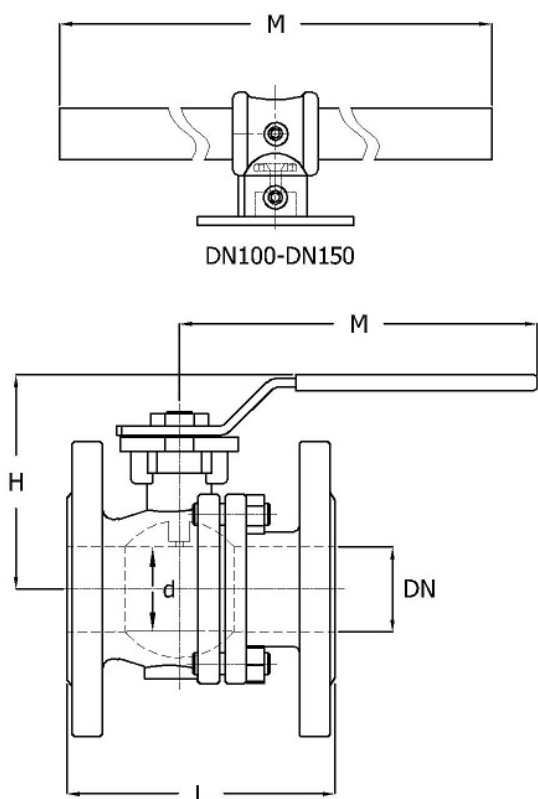
- Fugitive emission certified in accordance with TA-Luft VDI 2440 / VDI 3479.
- Fugitive emission certified in accordance with ISO 15848-1 BH-CO1 and CH-CO3.
- Fire-safe approval in accordance with ISO 10497 and API 607, sixth edition.
- Safety integrity level IEC 61508 SIL 2.

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	Pressure class	d	L	H	M	Weight
		mm	mm	mm	mm	kg
DN15	PN40	15	115	79	145	2.4
DN20	PN40	20	120	84	145	3.2
DN25	PN40	25	125	91	175	4.2
DN32	PN40	32	130	103	175	5.5
DN40	PN40	38	140	111	194	6.9
DN50	PN40	50	150	120	194	9.5
DN65	PN16	63.5	170	150	265	13.8
DN65	PN40	63.5	170	150	265	13.8
DN80	PN16	76	180	160	265	17.7
DN80	PN40	76	180	160	265	17.8
DN100	PN16	100	190	182	400	25.2
DN100	PN40	100	190	182	400	30.5
DN125	PN16	125	325	260	600	60
DN125	PN40	125	325	260	600	62.5
DN150	PN16	150	350	280	800	71.8
DN150	PN40	150	350	280	800	73.8
DN200	PN16	200	400	280		127
DN200	PN40	200	400	280		152



Pressure and temperature range							
DN	Pressure rating	-10	50	100	150	200	[°C]
DN15-DN200	PN16	16	16	15	13	11	[bar]
DN15-DN50	PN40	40	40	38	34	19	[bar]
DN65-DN100	PN40	40	40	38	34	16	[bar]
DN125-DN200	PN40	40	40	38	34	12	[bar]

Nominal inner diameter	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	With locking device	Actuator material	Maximum operating pressure bar	Article
DN15	PN40	EN 558, Series 27	Handle	F03	F04	Full bore	Yes	1.4301	40	13290680
DN20	PN40	EN 558, Series 27	Handle	F03	F04	Full bore	Yes	1.4301	40	13290681
DN25	PN40	EN 558, Series 27	Handle	F04	F05	Full bore	Yes	1.4301	40	13290682
DN32	PN40	EN 558, Series 27	Handle	F04	F05	Full bore	Yes	1.4301	40	13290683
DN40	PN40	EN 558, Series 27	Handle	F05	F07	Full bore	Yes	1.4301	40	13290684
DN50	PN40	EN 558, Series 27	Handle	F05	F07	Full bore	Yes	1.4301	40	13290685
DN65	PN16	EN 558, Series 27	Handle	F07	F10	Full bore	Yes	1.4301	16	13290692
DN65	PN40	EN 558, Series 27	Handle	F07	F10	Full bore	Yes	1.4301	40	13290686

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Nominal inner diameter	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Mounting flange 2	Bore	With locking device	Actuator material	Maximum operating pressure bar	Article
DN80	PN16	EN 558, Series 27	Handle	F07	F10	Full bore	Yes	1.4301	16	13290693
DN80	PN40	EN 558, Series 27	Handle	F07	F10	Full bore	Yes	1.4301	40	13290687
DN100	PN16	EN 558, Series 27	T-wrench	F10		Full bore	No	Steel, galvanized	16	13290694
DN100	PN40	EN 558, Series 27	T-wrench	F10		Full bore	No	Steel, galvanized	40	13290688
DN125	PN16	EN 558, Series 27	T-wrench	F12		Full bore	No	Steel, galvanized	16	13290695
DN125	PN40	EN 558, Series 27	T-wrench	F12		Full bore	No	Steel, galvanized	40	13290689
DN150	PN16	EN 558, Series 27	T-wrench	F12		Full bore	No	Steel, galvanized	16	13290696
DN150	PN40	EN 558, Series 27	T-wrench	F12		Full bore	No	Steel, galvanized	40	13290690
DN200	PN16	EN 558, Series 27	Bare stem	F14		Full bore	No		16	14463303
DN200	PN40	EN 558, Series 27	Bare stem	F14		Full bore	No		40	14463282

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