



JC Ball valve Series: 516AIT/540AIT Type: 3191 Steel Fire safe Flange PN16/40

Characteristics

Series: 516AIT/540AIT

Type: 3191

Norm: EN (DIN)

Construction type: 2-way

Housing construction: 2-part

Housing material: Steel

Material quality: 1.0619

Surface protection: Epoxy coating (external)

Connection: Flange

Flange finish: Raised face

Top flange standard: ISO 5211

Primary spindle seal material: RPTFE

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): 230 °C

Fire safe: Yes

Application

- Heavy-duty industrial applications up to 16 or 40bar.
- Recommended in: Chemical

Technical Information

- Flanged connection in accordance with EN 1092-1.
- Floating ball, DN200 (PN40) and DN250 (PN16 and PN40), with support ball.
- Pressure rating PN16 or PN40.
- With top-flange in accordance with ISO 5211.
- Media temperature: -29/+230°C.
- DN15 to DN150 with handle.
- DN200 and DN250 with worm gear.

Construction

- Two-piece housing construction.
- Design in accordance with EN 12516 and EN 1983.
- Full flow capacity.
- Equipped with antistatic design between ball and housing.
- According to NACE MR0175/ISO 15156 & AMP, NACE MR0103/ISO 17945.
- Construction length in accordance with EN 558, series 27.

Approval

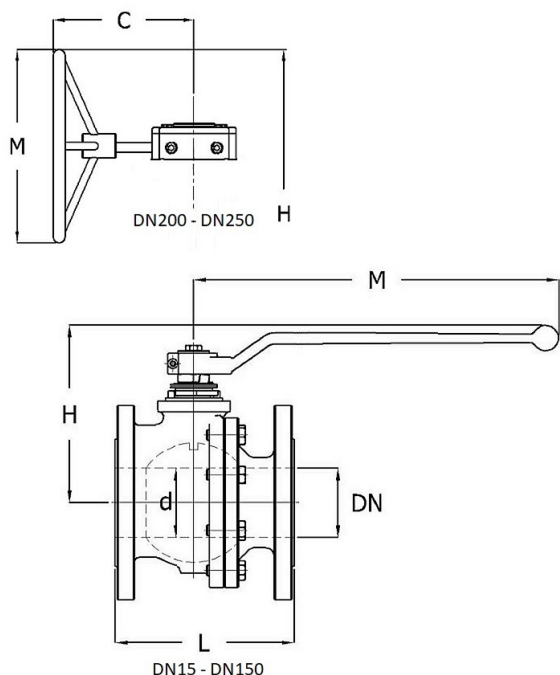
- Fire-safe certified in accordance with ISO 10497, API 6FA and API 607.
- Fugitive emissions certified according to TA Luft.
- Fugitive emissions certified in accordance with ISO 15848-1 (VDI 2440), class B, and optionally according to ISO 15848-1, class A, with double spindle seal.
- Safety integrity level IEC 61508 SIL3.

Options

- Equipped with worm gearbox and pneumatic, electric or hydraulic actuators.
- Position feedback for manual or automated valves.
- Pressure-relief seats or a pressure-relief hole in the ball.
- Dead space – free seats.
- Stainless-steel extended spindle for insulation (type 3222).
- Handle with lock.
- Other seat materials.

Size table:

DN	Pressure class	d	L	H	M	C	Weight
		mm	mm	mm	mm	mm	kg
DN15	PN40	15	115	111	164		2.8
DN20	PN40	20	120	118	164		3.6
DN25	PN40	25	125	130	164		5
DN32	PN40	32	130	131	210		7
DN40	PN40	40	140	148	213		9
DN50	PN40	50	150	155	213		12
DN65	PN16	65	170	169	348		16
DN65	PN40	65	170	169	348		17
DN80	PN16	80	180	207	445		22
DN80	PN40	80	180	207	445		23
DN100	PN16	100	190	232	495		32
DN100	PN40	100	190	232	495		35
DN125	PN16	125	325	265	698		52.5
DN125	PN40	125	325	265	698		57
DN150	PN16	151	350	298	698		76
DN150	PN40	151	350	298	698		83.5
DN200	PN16	203	400	601	465	229	128.8
DN250	PN16	254	450	691	600	370	245.5



Pressure and temperature range									
Size	Pressure rating	Temperature range	-29	38	100	150	200	230	[°C]
DN15 - DN100	PN16	-29°/+230°C	15.5	15.5	13.3	12	11	0	[bar]
DN15 - DN100	PN40	-29°/+230°C	39	39	34.1	25	11	0	[bar]
DN125 - DN250	PN16	-29°/+230°C	15.5	15.5	13.3	12	9	0	[bar]
DN125 - DN250	PN40	-29°/+230°C	39	39	34.1	22	9	0	[bar]

Nominal inner diameter	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Bore	Material ball	Seat material	Spindle material	Actuator material	Article
DN15	PN40	EN 558, Series 27	Handle	F05	Full bore	1.4401	PTFE	1.4401	ASTM A216 WCB	10054190
DN20	PN40	EN 558, Series 27	Handle	F05	Full bore	1.4401	PTFE	1.4401	ASTM A216 WCB	10054191
DN25	PN40	EN 558, Series 27	Handle	F05	Full bore	1.4401	PTFE	1.4401	ASTM A216 WCB	10054192
DN32	PN40	EN 558, Series 27	Handle	F05	Full bore	1.4408	PTFE	1.4401	ASTM A216 WCB	10054189
DN40	PN40	EN 558, Series 27	Handle	F07	Full bore	1.4408	PTFE	1.4401	ASTM A216 WCB	10054193
DN50	PN40	EN 558, Series 27	Handle	F07	Full bore	1.4408	PTFE	1.4401	ASTM A216 WCB	10054194

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Nominal inner diameter	Pressure rating	Face to Face norm	Manual operation	Mounting flange	Bore	Material ball	Seat material	Spindle material	Actuator material	Article
DN65	PN16	EN 558, Series 27	Handle	F07	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	ASTM A216 WCB	10054184
DN65	PN40	EN 558, Series 27	Handle	F07	Full bore	1.4408	PTFE	1.4401	ASTM A216 WCB	10054195
DN80	PN16	EN 558, Series 27	Handle	F10	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	ASTM A216 WCB	11299376
DN80	PN40	EN 558, Series 27	Handle	F10	Full bore	1.4408	PTFE	1.4401	ASTM A216 WCB	10054196
DN100	PN16	EN 558, Series 27	Handle	F10	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	ASTM A216 WCB	10054185
DN100	PN40	EN 558, Series 27	Handle	F10	Full bore	1.4408	PTFE	1.4401	ASTM A216 WCB	10054197
DN125	PN16	EN 558, Series 27	Handle	F12	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	ASTM A216 WCB	10054186
DN125	PN40	EN 558, Series 27	Handle	F12	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	ASTM A216 WCB	11182869
DN150	PN16	EN 558, Series 27	Handle	F12	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	ASTM A216 WCB	10054187
DN150	PN40	EN 558, Series 27	Handle	F12	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	ASTM A216 WCB	11044992
DN200	PN16	EN 558, Series 27	Gearbox	F14	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	EN-JS1030	10054188
DN250	PN16	EN 558, Series 27	Gearbox	F14	Full bore	ASTM A351 CF8M	PTFE	ASTM A479 316	EN-JS1030	11036388

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