CI BALL VALVE FLANGED PN16

Cast Iron Floating Ball Valve · Full Port · DIN PN16 Flanged, Lever Operated

BRAND: SW FLOW CONTROLS | SKU: SW-0376 | SIZE DN40 TO DN200 | PN16 / 16 BAR

FIG. 1 | CI BALL VALVE FLANGED PN16, LEVER OPERATED

SUPPLIED UNDER THE
SW FLOW CONTROLS BRAND

PRODUCT OVERVIEW

The SWBM CI Ball Valve Flanged PN16 is a quarter-turn floating ball valve with a full port bore, so the flow area matches the pipe and the pressure drop across an open valve is close to zero. The cast iron body and end cap are drawn together on studs with a spiral wound gasket at the joint.

The stainless steel ball floats between two PTFE seats. Line pressure pushes it against the downstream seat, which gives bubble tight shut off and keeps the operating torque low. The stem is sealed with PTFE packing under an adjustable gland, and a locator card sets the open and closed stops so the lever cannot be driven past 90 degrees.

Valve type	**Floating ball valve, full port**
Operation	**Manual, 90° quarter-turn lever**
Body material	**Cast iron, GG20 or GGG40**
Ball and stem	**Stainless steel**
Seats and packing	**PTFE**
End connection	**DIN 2501 / DIN 2533 PN16 flanged**

TECHNICAL SPECIFICATION

Design	**Full port floating ball**
Face to face	**DIN 3202 F4 up to DN100**
Face to face, DN125 and above	**DIN 3202 F5**
Flange standard	**DIN 2501 / DIN 2533**
Pressure test standard	**ISO 5208 or API 598**
Body gasket	**Spiral wound, stainless steel and graphite**
Handle	**Ductile iron lever**

Nominal pressure	**PN16**
Shell test, water	**2.4 MPa**
Seat test, water	**1.8 MPa**
Seat test, air	**0.6 MPa**
Port	**Full bore**
Flange facing	**Alternatives available on request**
Country of origin	**Advised at time of quotation**

BILL OF MATERIALS

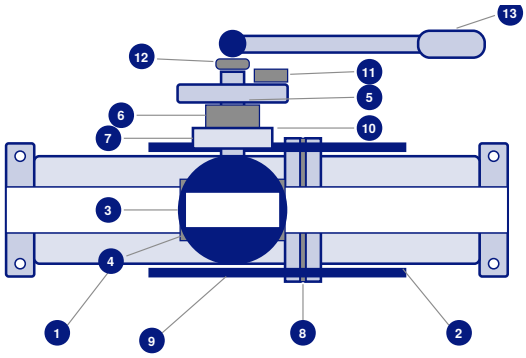

FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	Cast iron, GG20 or GGG40
2	Bonnet / end cap	Cast iron, GG20 or GGG40
3	Ball	Stainless steel
4	Seat (2 nos.)	PTFE
5	Stem	Stainless steel
6	Stem packing	PTFE
7	Gland	Cast iron, GG20 or GGG40
8	Body gasket	Spiral wound, stainless steel and graphite
9	Stud bolt and nut	Carbon steel
10	Hex bolt	Carbon steel
11	Locator card	Carbon steel
12	Flexible washer	65Mn spring steel
13	Handle	Ductile iron

Materials are as listed on the manufacturer leaflet. Three PTFE packing rings are fitted at the stem. Gear operator, locking device and extended stem are available on request.

DIMENSIONS

SIZE	DN	BORE D	L (MM)	FLANGE D	BOLT C	RAISED FACE G	BOLT HOLES	FLANGE T	H (MM)	LEVER LO
1.1/2"	40	40	140	150	110	88	4-18	18	130	245
2"	50	50	150	165	125	102	4-18	18	132	250
2.1/2"	65	65	170	185	145	122	4-18	18	152	250
3"	80	80	180	200	160	138	8-18	20	170	350
4"	100	100	190	220	180	158	8-18	20	205	400
5"	125	125	325	250	210	188	8-18	22	250	545
6"	150	150	350	285	240	212	8-22	22	270	545
8"	200	200	400	340	295	268	12-22	24	340	750

All dimensions in mm and taken from the manufacturer leaflet. L = face to face, H = centreline to top of the stem assembly, Lo = lever length. Face to face follows DIN 3202 series F4 up to DN100 and series F5 from DN125, which is why L steps up sharply at DN125. DN250 is available with a gear operator against enquiry. Weights are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0376
Size	1.1/2", 2", 2.1/2", 3", 4", 5", 6", 8"
Flange	DIN 2501 / DIN 2533 PN16
Operation	Lever standard, gear operator on request
Order example	**SW-0376 / DN100 / PN16 / LEVER**

Stock held in Dubai. Contact our sales desk for pricing, availability and certification requirements.

PRESSURE AND TEMPERATURE

Nominal pressure	**PN16**
Shell test, water	**2.4 MPa**
Seat test, water	**1.8 MPa**
Seat test, air	**0.6 MPa**

Ratings are as published on the manufacturer leaflet. The upper temperature limit is set by the PTFE seats and is not stated on the source document, so confirm the working temperature with SWBM before specifying this valve on hot service.

TYPICAL APPLICATIONS

- Water treatment and distribution mains
- HVAC and chilled water plant
- Pump and compressor isolation
- Fire fighting and sprinkler headers
- General industrial process lines
- Building services and utility piping

COMPLIANCE AND QUALITY

- Full port design and manufacture to the DIN pattern
- Face to face to DIN 3202 F4 and F5
- Flanges to DIN 2501 and DIN 2533
- Pressure testing to ISO 5208 or API 598
- Spiral wound stainless steel and graphite body gasket
- Blow-out proof stem with PTFE packing under an adjustable gland
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Flush the line before installation to clear weld slag, sand and debris
- Install with the valve fully open so the ball and seats are not scored
- Bolt up evenly across the flange, tightening opposite pairs in turn
- The valve is fully open when the lever is in line with the pipe and closed at 90 degrees
- Do not use the lever as a step or a lifting point
- Operate the valve periodically to prevent the seats sticking in low use lines

COMPANY

Sunel Wala Building Materials
Trading Co. LLC (SWBM)
Dubai, United Arab Emirates

SALES ENQUIRIES

info@swbm-fittings.com
Tel: +971 4 238 5652
Mobile / WhatsApp: +971 50 748 1772

ONLINE

www.swbm-fittings.com
Brand: SW Flow Controls