CI BUTTERFLY VALVE LUG DI DISC L/O PN16

Lug Type Resilient Seated Butterfly Valve · Cast Iron Body, Ductile iron Disc · Lever operated

BRAND: SW FLOW CONTROLS | SKU: SW-0384 | SIZE 2" TO 12" | PN16 DRILLED



FIG. 1 | CI BUTTERFLY VALVE, LUG TYPE, LEVER OPERATED

PRODUCT OVERVIEW

The SWBM CI Butterfly Valve Lug Type is a quarter turn, concentric resilient seated valve for isolation and coarse regulation of water, oil and gas lines. The cast iron body carries threaded lugs on the full bolt circle, so the valve bolts independently to each flange and the downstream pipework can be removed without breaking the line.

The ductile iron disc runs on a one piece stainless steel shaft supported in bronze bushings, and the elastomer seat forms a bi-directional bubble tight shut off against the disc edge while sealing the flange faces at the same time, so no separate gaskets are needed. Lever operation is fitted as standard and the ISO 5211 top flange accepts a pneumatic or electric actuator without an adaptor.

Valve type	**Lug type butterfly valve, concentric**
Operation	**Manual, 90° lever with notch plate**
Body material	**Cast iron, ASTM A126 Class B**
Disc material	**Ductile iron, ASTM A536 Gr. 65-45-12**
End connection	**Lug body, drilled PN16**
Pressure rating	**16 bar (232 psi)**

TECHNICAL SPECIFICATION

Design standard	**BS EN 593 / MSS SP-67 / API 609**	Seat test	**1.1 x rated pressure, bubble tight**
Face to face	**ISO 5752 / BS 5155**	Working pressure	**16 bar (232 psi)**
Flange drilling	**BS 4504 / EN 1092-2, PN16**	Shaft	**Stainless steel 410, ASTM A276 S41000**
Top flange	**ISO 5211, F07 and F10**	Seat	**EPDM standard, NBR on request**
Testing	**API 598 / EN 12266-1**	Working medium	**Water, oil and gas**
Shell test	**1.5 x rated pressure**	Temperature range	**-20°C to +110°C (EPDM seat)**

BILL OF MATERIALS

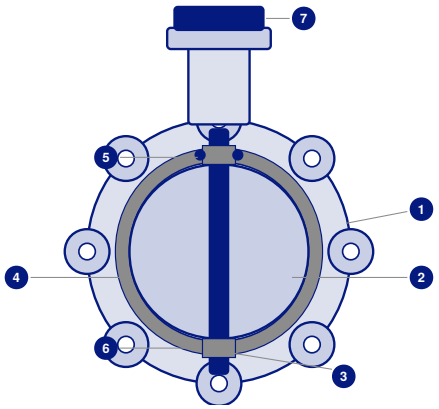


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	Cast iron, ASTM A126 Class B
2	Disc	Ductile iron, ASTM A536 Gr. 65-45-12
3	Shaft	Stainless steel 410, ASTM A276 S41000
4	Seat	EPDM (NBR on request)
5	Bushing	Bronze, ASTM B62 C83600
6	O-ring	NBR
7	Operator	Lever with notch plate, steel

Ductile iron body to ASTM A536 Gr. 65-45-12, and bronze, SS304 or SS316 discs, can be supplied against enquiry. Shaft in SS431 to ASTM A276 S43100 is available as an alternative.

DIMENSIONS AND WEIGHTS

SIZE	DN	BODY OD	BORE	L	H	H1	H2	PCD	BOLTS	BOLT SIZE	WEIGHT (KG)
2"	50	100	52	43	235	72.5	130.5	125	4	M16	4.1
2.1/2"	65	112	65	46	237	75.5	129.5	145	4	M16	5.5
3"	80	126	80	46	255	82	143	160	8	M16	6.8
4"	100	153	100	52	292	99.5	160.5	180	8	M16	8.6
5"	125	182	125	56	317	111	177	210	8	M16	10.5
6"	150	210	150	56	357	134	191	240	8	M20	12.5
8"	200	255	198	60	412	163	217	295	12	M20	21.4
10"	250	328	248	68	519	218	267	355	12	M24	29.3
12"	300	374	298	78	588	249	295	410	12	M24	44.0

All dimensions in mm. L = face to face, H = overall height, h1 = centreline to top of body neck, h2 = centreline to top of operator, PCD = flange bolt circle diameter. Top flange to ISO 5211 is F07 for 2" to 8" and F10 for 10" and 12". Dimensions and weights are nominal and are given for guidance only. Size 1.1/2" (DN40) and sizes above 12" are offered against enquiry. Certified drawings for the supplied make and size are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0384
Size	2", 2.1/2", 3", 4", 5", 6", 8", 10", 12"
Body	Cast iron, ASTM A126 Class B
Disc	Ductile iron, ASTM A536 Gr. 65-45-12
Seat	EPDM standard. NBR on request
Operation	Manual, 90° lever with 10 position notch plate
Flange drilling	PN16
Order example	**SW-0384 / 4" / PN16 / DI DISC / EPDM / LEVER**

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.

PRESSURE AND TEMPERATURE

Working pressure	**16 bar (232 psi)**
Shell test	**1.5 x rated pressure**
Seat test	**1.1 x rated pressure, bubble tight**
Temperature, EPDM seat	**-20°C to +110°C**
Temperature, NBR seat	**-10°C to +80°C**

Ratings apply to cold, non-shock service and to a valve installed between two flanges. The dead end service rating of the lug body is lower than the line rating, confirm the figure with SWBM before specifying the valve for dead end duty.

TYPICAL APPLICATIONS

- Water treatment and distribution networks
- HVAC chilled water and condenser cooling circuits
- Fire protection ring mains and pump rooms
- Irrigation, pumping stations and district cooling
- Marine and offshore deck service lines
- General industrial process and utility piping

COMPLIANCE AND QUALITY

- Design in accordance with BS EN 593 and MSS SP-67
- Face to face to ISO 5752 and BS 5155
- Flange drilling to BS 4504 / EN 1092-2, PN16
- Actuator mounting flange to ISO 5211
- Pressure testing to API 598 / EN 12266-1
- 100% shell and seat tested prior to despatch
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear weld slag, sand and debris
- Install with the disc almost closed, then open it fully once the flange bolts are tight
- Do not fit flange gaskets, the resilient seat faces seal against the flanges
- Check that the disc clears the pipe bore over its full travel before pressurising
- Tighten the flange bolts evenly in a diagonal sequence to avoid distorting the seat
- The valve is fully open when the lever is in line with the pipe, and fully closed at 90°
- Operate the valve periodically to stop the seat bonding to the disc 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

The information in this data sheet is provided in good faith and is believed to be accurate at the date of issue. Dimensions, weights and ratings are nominal and may vary with the manufacturer and production batch. It remains the responsibility of the purchaser to confirm that the product is suitable for the intended service conditions. Sunel Wala Building Materials Trading Co. LLC reserves the right to amend specifications without prior notice. This document does not form part of any contract of sale.