



# CI BUTTERFLY VALVE LUG SS DISC L/O CL150

Lug Type Butterfly Valve · Stainless Steel Disc · ANSI 150LB Drilling · Lever Operated

|                         |              |          |         |       |                |
|-------------------------|--------------|----------|---------|-------|----------------|
| BRAND: SW FLOW CONTROLS | SKU: SW-0386 | LUG TYPE | SS DISC | CL150 | LEVER OPERATED |
|-------------------------|--------------|----------|---------|-------|----------------|



FIG. 1 | CI BUTTERFLY VALVE LUG SS DISC L/O CL150

## PRODUCT OVERVIEW

The lug type butterfly valve has tapped lugs cast into the body, so it bolts independently to each flange instead of being clamped between them. That means the downstream pipework can be removed with the valve still holding pressure, and the valve can be used at the end of a line as a dead end shut off, neither of which a wafer body allows.

The body is drilled ANSI 150LB, the disc is stainless steel and the seat is a full bore elastomer liner, so the flange faces seal against the seat itself and no separate flange gasket is needed. A notched locking plate on the lever holds the disc at intermediate positions for rough throttling.

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Product type    | Butterfly valve, lug pattern                    |
| Body material   | Cast iron A126 Class B or ductile iron A536     |
| Disc material   | Stainless steel 304 A351 CF-8 or 316 A351 CF-8M |
| Seat material   | EPDM or NBR                                     |
| Flange drilling | ANSI 150LB                                      |
| Size range      | DN40 to DN300 (1.1/2" to 12")                   |

## TECHNICAL SPECIFICATION

|                |                                                      |                   |                                                |
|----------------|------------------------------------------------------|-------------------|------------------------------------------------|
| Valve standard | ISO 5752 / BS 5155 / BS EN 593 / MSS SP-67 / API 609 | O ring            | NBR                                            |
| Pattern        | Lug, tapped lugs both faces                          | Bushing           | Bronze B62 C83600                              |
| Body           | Cast iron A126 Class B or ductile iron A536          | Media             | Water, oil and gas                             |
| Disc           | Stainless steel 304 A351 CF-8 or 316 A351 CF-8M      | Temperature range | -20 to +110°C EPDM, -10 to +80°C NBR           |
| Shaft          | Stainless steel 410 A276 S41000 or 431 A276 S43100   | Top flange        | ISO 5211 F07 to DN200, F10 for DN250 and DN300 |
| Seat           | EPDM standard, NBR on request                        | Operation         | Lever with locking plate                       |

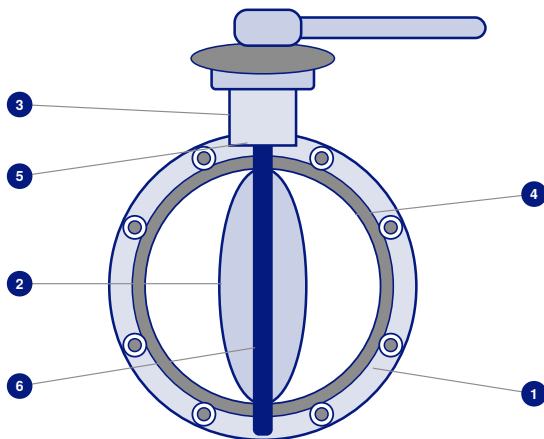


## PRODUCT DATA SHEET

CI BUTTERFLY VALVE LUG SS DISC L/O CL150

Ref. SW-0386 | Rev. 01

### BILL OF MATERIALS



| # | COMPONENT | MATERIAL                                                  |
|---|-----------|-----------------------------------------------------------|
| 1 | Body      | Cast iron A126 Class B, or ductile iron A536 Gr. 65-45-12 |
| 2 | Disc      | Stainless steel 304 A351 CF-8, or 316 A351 CF-8M          |
| 3 | Shaft     | Stainless steel 410 A276 S41000, or 431 A276 S43100       |
| 4 | Seat      | EPDM or NBR                                               |
| 5 | O ring    | NBR                                                       |
| 6 | Bushing   | Bronze B62 C83600                                         |

The lever and locking plate are not part of the catalogue parts list. The same body is offered with a ductile iron or bronze disc, and with a gear operator in place of the lever. Stem diameter runs from 10 mm at DN40 to 28 mm at DN300, and the ISO 5211 top flange allows an actuator to be fitted later without changing the valve.

FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS  
NUMBERED PER THE BILL OF MATERIALS

### DIMENSIONS AND WEIGHTS

| SIZE (INCH) | DN  | ØD  | ØD  | L  | H   | H1   | H2    | ØC    | HOLES | THREAD | WT (KG) |
|-------------|-----|-----|-----|----|-----|------|-------|-------|-------|--------|---------|
| 1.1/2       | 40  | 86  | 40  | 33 | 205 | 58   | 124   | 98.5  | 4     | 1/2"   | 3.5     |
| 2           | 50  | 100 | 52  | 43 | 235 | 72.5 | 130.5 | 120.5 | 4     | 5/8"   | 4.1     |
| 2.1/2       | 65  | 112 | 65  | 46 | 237 | 75.5 | 129.5 | 139.5 | 4     | 5/8"   | 5.5     |
| 3           | 80  | 126 | 80  | 46 | 255 | 82   | 143   | 152.5 | 4     | 5/8"   | 6.8     |
| 4           | 100 | 153 | 100 | 52 | 292 | 99.5 | 160.5 | 190.5 | 8     | 5/8"   | 8.6     |
| 5           | 125 | 182 | 125 | 56 | 317 | 111  | 177   | 216   | 8     | 3/4"   | 10.5    |
| 6           | 150 | 210 | 150 | 56 | 357 | 134  | 191   | 241.5 | 8     | 3/4"   | 12.5    |
| 8           | 200 | 255 | 198 | 60 | 412 | 163  | 217   | 298.5 | 8     | 3/4"   | 21.4    |
| 10          | 250 | 328 | 248 | 68 | 519 | 218  | 267   | 362   | 12    | 7/8"   | 29.3    |
| 12          | 300 | 374 | 298 | 78 | 588 | 249  | 295   | 432   | 12    | 7/8"   | 44      |

ØD = body outside diameter, Ød = bore, L = face to face, H = overall height including the lever, h1 and h2 = disc centre heights, ØC = bolt circle, with the number of lugs and the tapping for ANSI 150LB. All dimensions in mm except the thread. Figures are taken from the manufacturer catalogue and are nominal. The same body is drilled for JIS 5K, 10K and 16K and for BS 4504 PN10 against enquiry. Certified drawings are issued on request.



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### ORDERING INFORMATION

| FIELD               | OPTIONS                                                         |
|---------------------|-----------------------------------------------------------------|
| Product description | CI Butterfly Valve Lug SS Disc L/O CL150                        |
| SKU                 | SW-0386                                                         |
| Size                | DN40 to DN300                                                   |
| Flange drilling     | ANSI 150LB                                                      |
| Body                | Cast iron or ductile iron                                       |
| Disc                | Stainless steel 304 or 316                                      |
| Order example       | <b>SW-0386 / DN150 / CL150 / SS316 DISC / EPDM SEAT / LEVER</b> |

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

### COMPLIANCE AND QUALITY

- Complies with ISO 5752 / BS 5155 / BS EN 593 / MSS SP-67 / API 609
- Lugs tapped for ANSI 150LB bolting
- Suitable for dead end service and downstream dismantling
- Full bore elastomer liner, no flange gaskets required
- ISO 5211 top flange for direct actuator mounting
- Material certificate available on request

### INSTALLATION

- Bolt each flange to the lugs separately, do not run studs through the body
- Fit the valve with the disc slightly open so it is not damaged by the flanges
- Do not use flange gaskets, the seat face seals against the flange
- Open the disc fully and check it clears the pipe bore before pressurising

### TYPICAL APPLICATIONS

- Isolation and throttling on water mains
- End of line and dead end isolation
- HVAC and chilled water circuits
- Firefighting and sprinkler systems
- Pump station and plant room isolation
- General industrial pipework

### OPERATION AND MAINTENANCE

- Operate the lever through its full quarter turn and seat it in a notch
- Derate the valve for dead end service, confirm the pressure with our sales desk
- Check the locking plate and trigger for wear at each inspection
- Exercise the valve periodically so the disc does not bond to the seat

#### COMPANY

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

#### SALES ENQUIRIES

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#### ONLINE

**[www.swbm-fittings.com](http://www.swbm-fittings.com)**  
Brand: SW Flow Controls

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