CI BUTTERFLY VALVE WAFER SS DISC G/O

Wafer Type Butterfly Valve · Stainless steel Disc · EPDM, NBR or Viton Seat · Worm gearbox with handwheel

BRAND: SW FLOW CONTROLS | SKU: SW-0379 | WAFER TYPE | STAINLESS STEEL DISC | EPDM SEAT | GEAR OPERATED

FIG. 1 | CI BUTTERFLY VALVE WAFER SS DISC G/O

PRODUCT OVERVIEW

The wafer type butterfly valve is clamped between two flanges and gives a quarter turn from fully open to fully shut. It is far shorter and lighter than a gate valve of the same size, which is why it is the usual isolating valve on large water and HVAC lines where space and weight matter. The worm gearbox is self locking, so the disc holds position against flow and cannot be driven open by line pressure, and the handwheel keeps the operating effort low on the larger sizes.

The elastomer seat is moulded to line the whole bore, so the flange faces seal against the seat itself and no separate flange gasket is needed. EPDM is the standard liner for water duty, with NBR for oil and Viton where the medium calls for it.

Product type	**Butterfly valve, wafer 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, NBR or Viton**
Operation	**Worm gearbox with handwheel**
Size range	**DN40 to DN1200**

TECHNICAL SPECIFICATION

Valve standard	**ISO 5752 / BS 5155 / BS EN 593 / MSS SP-67 / API 609**
Pattern	**Wafer, clamped between flanges**
Body	**Cast iron A126 Class B or ductile iron A536**
Disc	**Stainless steel 304 A351 CF-8 or 316 A351 CF-8M**
Shaft	**Stainless steel 410 or 431**
Seat	**EPDM standard, NBR or Viton on request**

O ring	**EPDM, NBR or PTFE**
Bushing	**PTFE or bronze B62 C83600**
Media	**Water, oil and gas**
Temperature range	**-20 to +110°C EPDM, -10 to +80°C NBR**
Operation	**Worm gearbox with handwheel**
Size range	**DN40 to DN1200**

BILL OF MATERIALS

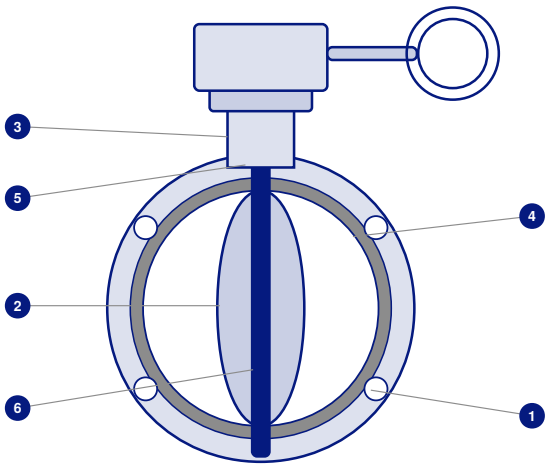

FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS NUMBERED PER THE BILL OF MATERIALS

#	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, NBR or Viton
5	O ring	EPDM, NBR or PTFE
6	Bushing	PTFE, or bronze B62 C83600

The operator is not part of the catalogue parts list. This valve is supplied with a worm gearbox with handwheel. The catalogue lists the seat options as EPDM, NBR and Viton; the PTFE seat shown on the matching listings is confirmed at order stage. Disc material in bronze B148 C95400 is also available.

DIMENSIONS AND WEIGHTS

DN (MM)	SIZE (INCH)	A (MM)	B (MM)	C (MM)	L (MM)
40	1.1/2	68	110	24	33
50	2	80	161	30	42
65	2.1/2	89	175	30	45
80	3	95	181	30	45
100	4	114	200	30	51
125	5	127	213	30	55
150	6	139	226	30	55
200	8	175	260	34	60
250	10	203	292	34	67
300	12	242	337	34	76
350	14	267	368	40	76
400	16	316	400	52	102

DN (MM)	SIZE (INCH)	A (MM)	B (MM)	C (MM)	L (MM)
450	18	334	422	52	114
500	20	370	480	64	127
550	22	433	533	70	151
600	24	468	562	70	151
650	26	484	540	70	172
700	28	530	626	95	165
750	30	554	660	95	167
800	32	605	666	95	188
900	36	668	720	130	203
1000	40	728	806	130	216
1200	48	855	938	150	276

A, B, C and L are the catalogue dimensions for the wafer body and operator envelope, L being the face to face width. Figures are taken from the manufacturer catalogue and are nominal. Two entries in the catalogue do not follow the trend of the table, B at DN650 and L at DN700, and should be confirmed before those sizes are quoted. Lever operation is normally offered up to DN200 and gear operation above, so confirm the operator against the size at enquiry. Certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product description	CI Butterfly Valve Wafer Ss Disc G/O
SKU	SW-0379
Size	DN40 to DN1200
Body	Cast iron or ductile iron
Disc	Stainless steel 304 A351 CF-8 or 316 A351 CF-8M
Seat	EPDM, NBR or Viton
Operation	Worm gearbox with handwheel
Order example	**SW-0379 / DN150 / STAINLESS STEEL DISC / EPDM SEAT / GEAR**

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
- Full bore elastomer liner, no flange gaskets required
- Wafer body for clamping between flanges
- Stainless steel shaft as standard
- Shell and seat tested before despatch
- Material certificate available on request

TYPICAL APPLICATIONS

- Isolation and throttling on water mains
- HVAC and chilled water circuits
- Firefighting and sprinkler systems
- Water treatment and desalination
- Pump station and plant room isolation
- General industrial pipework

INSTALLATION

- Fit the valve with the disc slightly open so it is not damaged by the flanges
- Centre the body on the flange bolts before final tightening
- 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

OPERATION AND MAINTENANCE

- Turn the handwheel through the full travel and respect the gearbox stops
- Do not adjust the gearbox stops without checking the disc position
- Regrease the gearbox at the intervals given by the maker
- Exercise the valve periodically so the disc does not bond to the seat

COMPANY
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