

DUCTILE IRON

BUTTERFLY VALVE

INTRODUCTION

Leader Butterfly Valves are designed to meet the flow control requirement of plumbing, fire-fighting and HVAC application. The body seat is vulcanised in-situ onto the body and offers 100% bi-directional sealing. The wafer style body has universal design to fit between flanges of all almost all standards.

PRINCIPAL FEATURES

- Design Standard: BS 5155, EN 593, API 609 CAT. A.
- Wafer type design makes it compact and take lesser space.
- Dynamic sealing of concentric disc is obtained with vulcanised rubber seat at very low torque.
- High precision disc external profile for smooth operation & tight shut off sealing with low operating torque.
- Moulded rubber body seat is extending on to the contact faces ensures perfect sealing and eliminates the need for separate flange gaskets.
- Notch plate ensures the locking of the hand lever at different position in addition to open and closed position.
- Shaft sealing is ensured by double sealing of Bush and 'O' ring combination.
- Body castings made of superior Ductile Iron ASTM A395 grade cast iron to ensure additional strength.
- Valve disc made of ductile iron with epoxy Coating / SS304 / SS316 offers high strength against pressure.
- Shafts made of martensitic stainless steel to ensure maximum strength and torsional rigidity.
- Two piece stem design which is precisely guided between the PTFE bush & Rubber 'O' Rings to prevent leakage, corrosion and stem seizure.
- Taper disc holder pins to ensure shock proof shaft to disc connection & suitability of replacement at field.
- Easy visual control of open / closed position marked on the notch plate.
- Operation mode manual, gear, electric, pneumatic.
- Available with locking arrangement on request.
- Temper Switch / supervisory limit switches option available on request.
- Top flange as per ISO 5211 to suit F Series flanges of Gears and Actuators.

END CONNECTION

Suitable for Clamping between flanges as per BSEN 1092 PN-25. Suitability for insertion between other flange standards also available upon request.

UTILISATION & SERVICE

Best suited for water, HVAC, fire-fighting service.

WORKING PRESSURE & TEMPERATURE LIMITS

Maximum Working Pressure: 25 Bar.
Maximum Working temperature: 120°C.
See Pressure / Temperature Diagram.



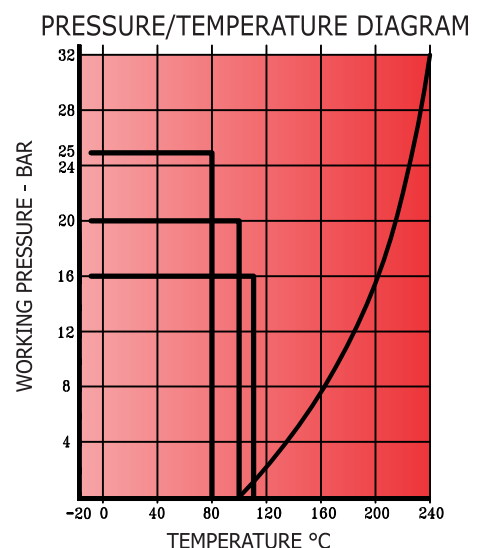
■ Item Code:	DI0096,	DI096A,	DI096B
■ Disc:	Ductile Iron,	SS(CF8),	SS(CF8M)
■ Pressure Rating:	PN-25		
■ Testing Standard:	BSEN 12266 Part-1		
■ Size Range:	40mm to 300mm		
■ Product Standard:	BS 5155, EN 593, API 609 CAT. A.		

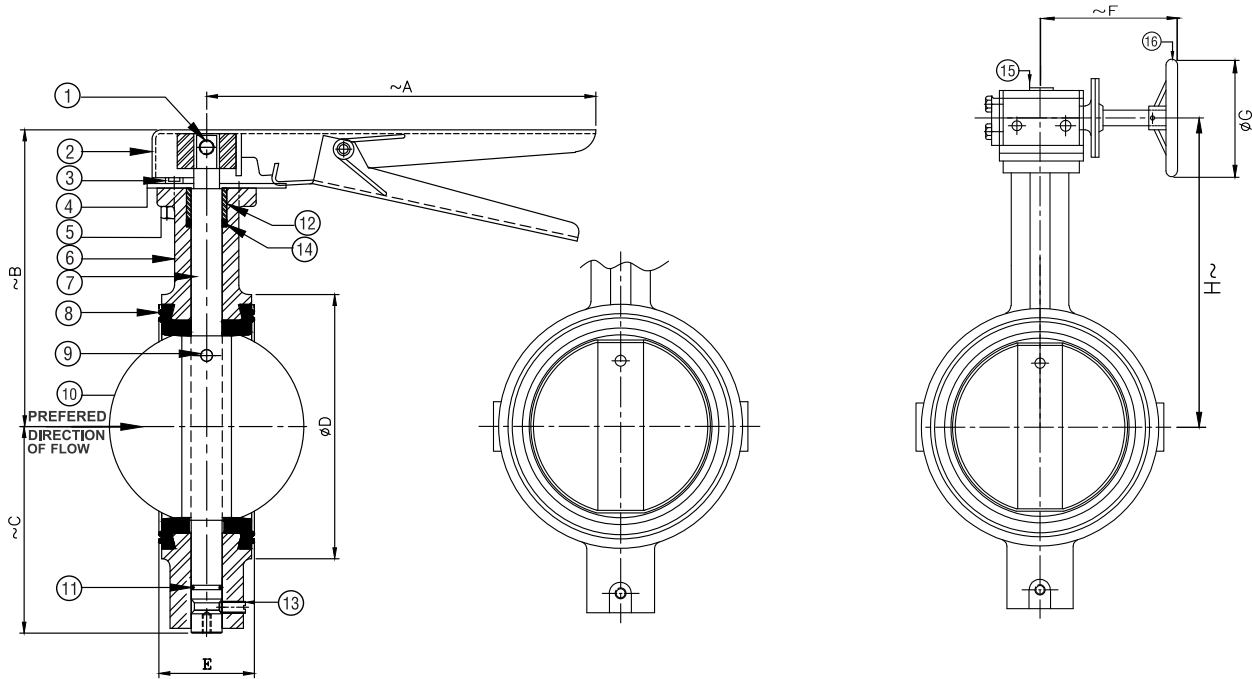
SUITABLE FOR

Water	Oil	Air	Gases
✓			

TEST PRESSURE (Hydrostatic)

Rating	PN-25
Body (Hyd.)	37.5 Bar
Seat (Hyd.)	27.5 Bar





DIMENSIONAL DATA

SIZE (mm)	40	50	65	80	100	125	150	200	250	300
~A	212	212	212	212	212	212	260	356	406	406
~B	118	130	146	151	182	191	210	236	290	320
~C	64	70	81	81	116	142	147	171	211	248
ØD	81	95	111	120	144	175	200	255	325	374
E	33±1	43±1	46±1	46±1	52±1	56±1	56±1	60±1	68±2	78±2
~F	180	180	180	180	180	180	180	180	220	220
ØG	175	175	175	175	175	175	175	175	250	350
H~	125	137	153	160	170	207	218	243	300	330

MATERIAL SPECIFICATION

P.No.	NAME OF PART	MATERIAL
1	GRUB SCREW	MILD STEEL
2	HANDLE	UP TO 6" M.S. SHEET (IS 2062) FABRICATED (POWDER COATED) / 8" TO 12" C.C.S. (ASTM A216 Gr. WCB)
3	L-KEY BOLT	CARBON STEEL
4	INDEXING PLATE	MILD STEEL (IS 2062)
5	NUT	CARBON STEEL
6	BODY	D.I. (ASTM A395)
7	STEM	S.S. (ASTM A276 TYPE 410) OR ITS EQ.
8	MOULDED LINER	BUNA-N / EPDM (SHORE HARDNESS 60°±4)
9	TAPER PIN	HANDENED STEEL
10	DISC	D.I. (ASTM A395) / S.S. (ASTM A351 Gr. CF8) / S.S. (ASTM A351 Gr. CF8M)
11	'O' RING	EPDM (SHORE HARDNESS 60°±4)
12	BUSHING	PTFE
13	GRUB SCREW	MILD STEEL
14	PACKING	EPDM (SHORE HARDNESS 60°±4)
15	GEAR BOX	----
16	HAND WHEEL	MILD STEEL (IS 2062)

