

# CAST IRON

# BUTTERFLY VALVE (WAFER)

## 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 FG 260 grade cast iron to ensure additional strength.
- Valve disc made of ductile iron with epoxy coating / SS304 / SS316 offers high strength against pressure.
- Shaft 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 ASME B16.1 Class-125, ASME B16.5 Class-150, IS 6392, Table 17, IS 1538, BSEN 1092 PN25, BS:10 Table D, E, F, H.

## UTILISATION & SERVICE

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

## WORKING PRESSURE & TEMPERATURE LIMITS

Maximum Working Pressure: 16 Bar.  
Maximum Working temperature: 120°C.  
See Pressure / Temperature Diagram.



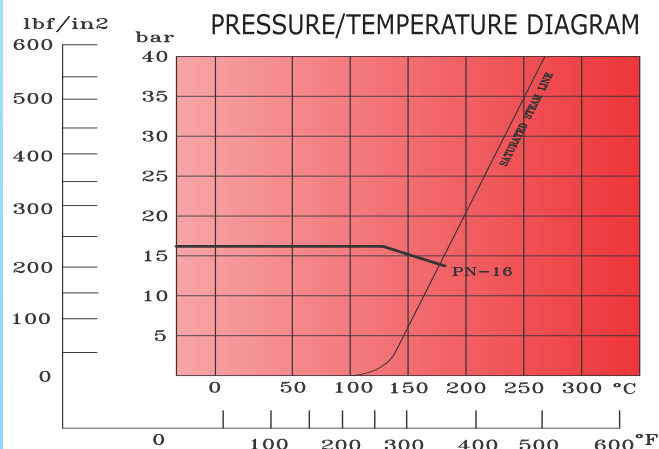
■ <b>Item Code:</b>	CI0061,	CI0061A,	CI0061B
■ <b>Disc:</b>	Ductile Iron,	SS(CF8),	SS(CF8M)
■ <b>Pressure Rating:</b>	PN-16		
■ <b>Testing Standard:</b>	BSEN 12266 Part-1		
■ <b>Size Range:</b>	40mm to 350mm		
■ <b>Product Standard:</b>	BS 5155, EN 593, API 609 CAT. A.		

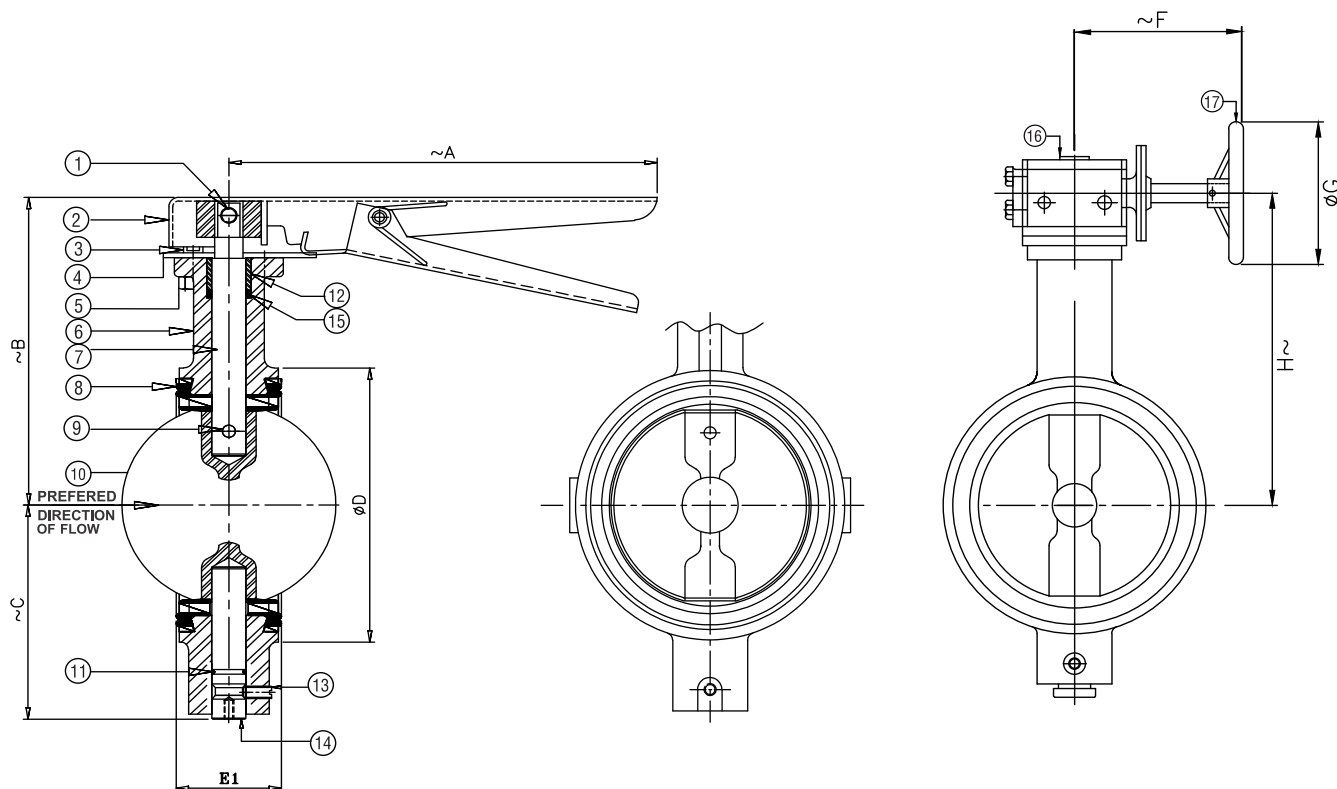
## SUITABLE FOR

Water	Oil	Air	Gases
✓			

## TEST PRESSURE (Hydrostatic)

<b>Rating</b>	<b>PN-16</b>
Body (Hyd.)	24 Bar
Seat (Hyd.)	17.6 Bar





## DIMENSIONAL DATA

SIZE (mm)	40	50	65	80	100	125	150	200	250	300	350
~A	214	212	212	212	212	212	214	356	406	406	-
~B	118	130	146	151	182	192	210	236	290	320	-
~C	64	70	81	81	106	142	137	159	201	248	255
D	81	95	111	120	144	175	200	255	325	374	406
E1 (COMPRESSED)	33 <sup>±1</sup>	43 <sup>±1</sup>	46 <sup>±1</sup>	46 <sup>±1</sup>	52 <sup>±1</sup>	56 <sup>±1</sup>	56 <sup>±1</sup>	60 <sup>±1</sup>	68 <sup>±2</sup>	78 <sup>±2</sup>	92 <sup>±2</sup>
~F	180	180	180	180	180	180	180	180	220	220	-
ØG	175	175	175	175	175	175	175	175	250	350	350
H~	125	137	153	160	170	207	218	243	300	330	344

## MATERIAL SPECIFICATION

P.No.	NAME OF PART	MATERIAL
1	GRUB SCREW	MILD STEEL
2	HANDLE	UP TO 6" 8" TO 12" M.S. SHEET (IS 2062) FABRICATED (POWDER COATED) / 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	C.I. (EN 1561 Gr. GJL 200)
7	UPPER STEM	S.S. (ASTM A276 TYPE 410) OR ITS EQ.
8	MOULDED LINER	BUNA-N / EPDM (SHORE HARDNESS 70°±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	BUNA-N / EPDM (SHORE HARDNESS 60°±4)
12	BUSHING	PTFE
13	LOWER STEM	S.S. (ASTM A276 TYPE 410) OR ITS EQ.
14	GRUB SCREW	MILD STEEL
15	PACKING	BUNA-N / EPDM (SHORE HARDNESS 60°±4)
16	GEAR BOX	----
17	HAND WHEEL	MILD STEEL (IS 2062)

