INTERVALVE® (INDIA) LTD.

IVTFE

PTFE Lined Butterfly Valve

The ultimate in corrosion resistant Butterfly valve

Intervalve's PTFE lined Butterfly valve model IVTFE provides optimum solution to the corrosion problems Encountered by the chemical process industries with conventional Butterfly valves. The PTFE seat liner covers the entire wetted surface of the body and extends on to the flange contact faces, thus eliminating possibility of any media contact with the body metal.

The fully circular back up elastomer and live loaded disc, shoulder sealing ensures bubble tight closing of the Valve with zero shaft leakage. The valve is adaptable for ON / OFF as well as control duty and can be fitted with actuators and accessories as required to meet the specific duty conditions.

Conformity to codes and standards :

General design and manufacturing	:	API 609 category A
Valve face to face dimensions	:	ISO 5752 Tab 5 & API 609 category A
Top flange drilling	:	ISO 5211 part
Valve inspection and testing	:	API 598 /ANSI / FCI – 70-2
Flange standard conformity	:	ANSI 150, DIN PN 10/PN 16

Technical specifications :

1. Construction type	:	Centric Disc Design Butterfly valve with PTFE lined body
2. Body type & end connection	:	Short wafer, 2 piece body
3. Seat type`	:	PTFE / GFT with viton backup ring
4. Size range	:	50 NB to 300 NB
5. Pressure rating	:	PN 10 (max)
6. Operating temperature range	:	-25 C to 200 C (depending on MOC)
7. Seat leakage	:	Tight shut off (better than class VI as per ANSI/FCI 70-2
8. Operation	:	Handlever for sizes upto 200 NB Worm gear boxes for 50 NB to 300 NB Pneumatic / Electric actuator operation – optional.
9. Standard Material of Construction (MOC)		
Body	:	SGI/WCB/CF8/CF8M
Disc	:	CF8/CF8M/Other special alloys
Seat	:	PTFE
Shaft	:	AISI 410 / SS 316 SH

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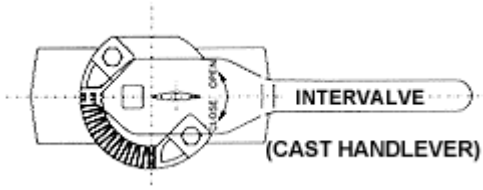
DIMENSIONS (in mm.) with Pressed Steel Handlever

Valve size	A	B	C	D	E	F	WT (kg)
50	50	43	73	113	160	195	4.5
65	65	46	80	121	170	195	5.0
80	80	46	88	128	175	195	5.5
100	100	52	104	146	195	250	7.0
125	125	56	116	158	205	250	8.5
150	150	56	138	174	230	300	12.0



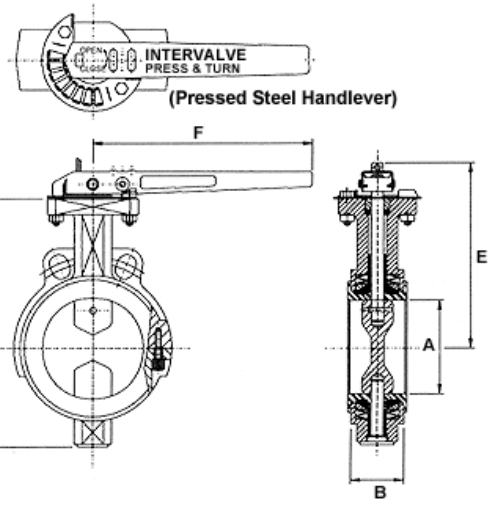
DIMENSIONS (in mm.) with Cast Handlever

Valve size	A	B	C	D	E	F	WT (kg)
200	200	60	163	198	255	500	16.0

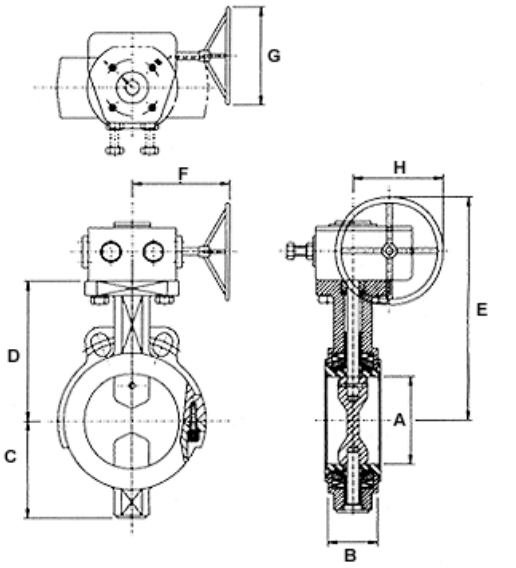
DIMENSIONS (in mm.) with Worm Gear

Valve size	A	B	C	D	E	F	G	H	WT (kg)
50	50	43	73	113	240	195	175	127	9.6
65	65	46	80	121	248	195	175	127	10.0
80	80	46	88	128	255	195	175	127	10.6
100	100	52	104	146	273	195	175	127	12.1
125	125	56	116	158	285	195	175	127	13.6
150	150	56	138	174	340	242	182	182	18.5
200	200	60	163	198	365	242	182	182	22.0
250	250	68	203	245	410	242	182	182	31.5
300	300	78	228	270	486	285	252	252	42.0

IVTFE BUTTERFLY VALVE WITH HANDLEVER



IVTFE BUTTERFLY VALVE WITH WORM GEAR



Key features :

- Full PN 10 pressure rating for the entire range of valve sizes from 50 NB to 300 NB.
- Bi-directional valve with sealing capability to hold rated shut off pressure in either direction.
- Circularly moulded back up elastomer provides uniform contact pressure over the entire seat without losing shaft bore shape, ensuring bubble tight closure every time.
- Unique triple sealing system for shaft sealing, eliminates any fugitive emission or secondary leakage.
- Self lubricated shaft bearings (PTFE coated stainless steel) for both drive end and non-drive end shaft ensures minimum bearing friction torque.
- Live loaded disc shoulder sealing arrangement through pusher and disc springs in both top and bottom shaft bores, acting on PTFE liner ensures leak free mechanical stem seal.
- Back up elastomer standardised in Viton to ensure excellent corrosion protection and maximum temperature resistance against media fumes and higher temperature.
- Disc springs and fasteners standardised on corrosion resistant stainless steel to ensure long service.
- A choice of exotic metallurgy for the disc, to meet any type of aggressive media.
- Low operating torque enables selection of smaller size actuator.
- Perfect adaptability for conversion from manual to actuated operation due to standardised top flange.