



IVGE, IVTLE

Fully Rubber Encapsulated Butterfly Valve



Intervalve[®] Butterfly Valve model IVGE / IVTLE is an economical answer to the corrosion problems faced by Chemical process industries with conventional metal seated Butterfly valves. The valve's unique design totally eliminates media contact with any metallic surface of the valve. The valve has a fully rubber lined body and a rubber encapsulated disc with a square slot for the drive end shaft.

The integrally moulded spherical profile seat with a matching profile on the disc shoulder (both closed die moulded) ensures perfect sealing with minimum operating torque and prevents any fluid ingress into the shaft bores.

The valve is available in 'wafer' as well as 'wafer lugged' version with a host of seat and encapsulation Material to cater to majority of the chemical process industry requirements.

Conformity to codes and standards :

General design and manufacture	:	API 609 Category A
Valve face to face dimensions	:	ISO 5752 Tab.5 and API 609 Category A
Top flange drilling	:	ISO 5211 Part II
Valve inspection and testing	:	API 598 / ANSI / FCI 70-2
Flange standard conformity	:	ANSI 150, DIN PN 6/10/16, JIS 5K /10K/16K BS 10 Tab.D & E , IS 6392 NP 0.6/1.0/1.6

Technical specifications :

1.Valve type	:	Centric Disc Butterfly valve with rubber lined body
2.Body type	:	Single piece, Short wafer (IVGE) or Wafer lugged (IVTLE)
3.Seat type	:	Integrally moulded with body
4.Size range	:	50 NB to 350 NB
5.Pressure rating	:	PN 10 (max)
6.Operating temperature range	:	-25 C to 180 C (depending on MOC)
7.Seat leakage performance	:	Tight shut off
8.Operation	:	Handlever operation for 50 NB to 150 NB Worm gear operation for 50 NB to 350 NB Pneumatic / Electric actuator operation-optional
9.Standard Material of Construction (MOC)	:	
Body	:	SGI / CF8/ CF8M
Disc	:	SGI + Rubber encapsulation
Seat	:	EPDM / Viton / Nitrile / Neoprene / Hypalon
Shaft	:	AISI 410



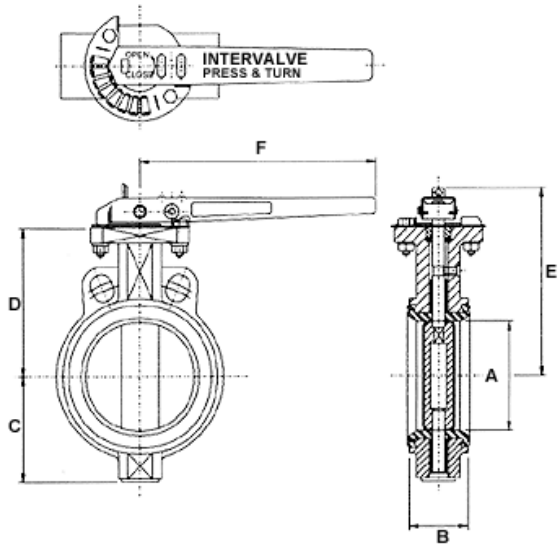
DIMENSIONS (in mm.) with Pressed Steel Handlever

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

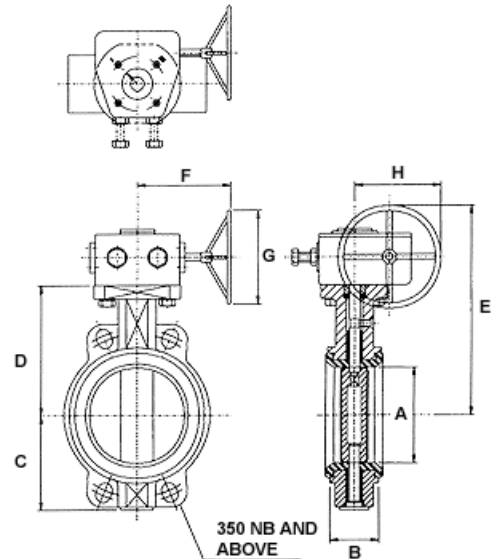
DIMENSIONS (in mm.) with Worm Gear

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	250	182	18.5
200	200	60	163	198	365	242	250	182	22.0
250	250	68	203	245	410	242	250	182	31.5
300	300	78	228	270	486	285	350	252	42.0
350	336	78	265	312	528	285	350	252	51.0

IVGE BUTTERFLY VALVE WITH HANDLEVER



IVGE BUTTERFLY VALVE WITH WORM GEAR



Key features :

- Full PN 10 pressure rating for the entire range of 50 NB to 350 NB.
- Bi-directional valve with sealing capability to hold rated shut off pressure in either direction.
- Unique triple sealing system for shaft sealing, eliminates any fugitive emission or secondary leakage.
- Self lubricating shaft bearings (PTFE coated stainless steel) for both drive end and non-drive end shaft ensures minimum bearing friction torque.
- Square coupling disc drive arrangement eliminates need for taper pins and exposure of metal parts to media.
- Spherically profiled seat and disc shoulder contact area ensures perfect sealing around the shaft bore and zero leakage.
- External locking arrangement for top shaft to make it blow out proof.
- Excellent adaptability for actuated operation through standardised top flange dimensions for actuator mounting.
- Seat liner extending on to the flange contact faces of the body eliminates the need for separate flange gaskets.
- Controlled compression of the gasket sealing face to offer optimum sealing and prevent gasket face crushing due to over tightening.
- Choice of seat and encapsulation material to meet a host of aggressive chemicals.