

Wafer Butterfly Valve

These wafer resilient seated valves are efficient and cost effective. They are locally manufactured to international standards and can be safely used in many applications.

Special Features

- User friendly.
- Compact for easy installation.
- Mounting flange complies with ISO 5211 for direct actuator mounting.
- Low operating torque.
- Reliable and low maintenance cost.
- Bi-directional.
- Bubble tight shut-off (TSO).
- No device adjustment necessary during installation.
- Resilient seat easily replaced.
- Fully rubber-lined inside that gives protection against corrosion.
- Valve in full compliance to international standards.
- Self lubricating PTFE Bush.
- Fully non-toxic features.



General Applications

- Water & waste water plant.
- Air conditioning system.
- Power generation.
- Fire alarm system.
- Marine & ship building.
- Food and beverage processing.
- Pulp and paper production.

Product Range

Size: 40 to 600mm.
Pressure Ratings: PN 6, 10, 16.
ANSI Class 125, 150
JIS 10K, 16K.
Temperature Range: -20°C to 120°C.



Standard Specification

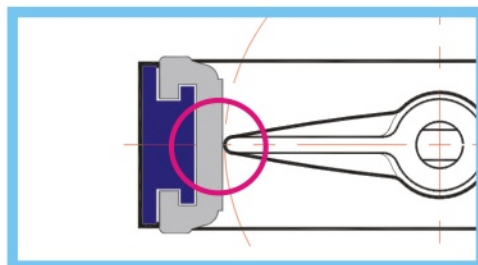
Product Range	BS, DIN: 40 - 600 mm ANSI Class: 2 - 24 Class 150		Direction of Operation	Clockwise Opening Anti-clockwise Opening	
Operation	Lever Operated: 50 - 200mm		Coating	200 micron of quality epoxy coated paint to internal & external surface. (Others are available on request.)	
	Worm Gear Box 250 - 600mm				
	Bare Shaft for Actuator.				
Product Standard	BS EN 593 BS 5155 ISO 10631 AWWA C504		Flange connections	BS 4504 BS EN 1092-2 ISO 7005-2 DIN 2501	PN 10 PN 16
Face To Face Dimensions	ISO 5752 / EN 558-1 Basic series 20. Wafer Short			ANSI B 16.1	Class 125 Class 150
				JIS	5K 10K
				BS 10 Table D, E.	
Pressure Ratings	PN 10, 16 ANSI Class 125, 150 JIS 10K, 16K AS 2129 C, D, E & F.		Others flange available upon request.		
Temperature Range	-20°C to 120°C		Hydrostatic Test Pressure and Inspection	Seat (bar)	Body (bar)
Construction	Concentric Disc			PN 10 11 PN 16 17.5	15 24
Mounting Flange	ISO 5211 Part Turn				

Disc Design Feature

The valves is compact that makes installation simple and easy.

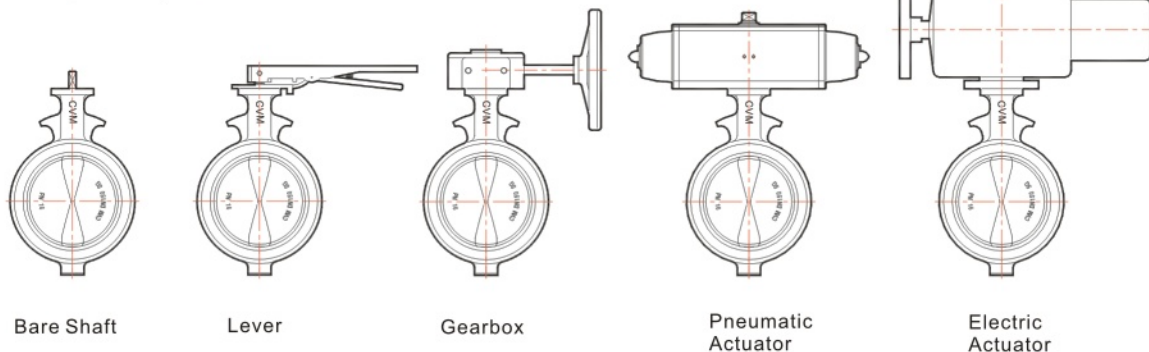
The streamlined disc reduces turbulence flow and head loss.

The rounded smooth disc edge provides excellent sealing with minimum wear and tear.



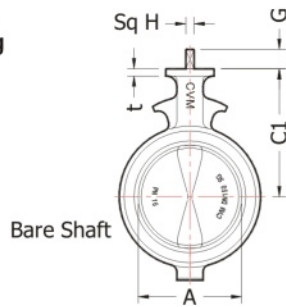
Operation

Direct mounting for all operations.

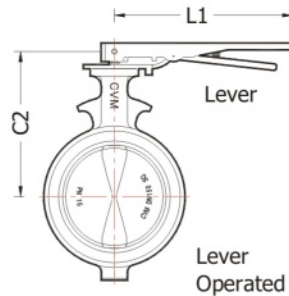
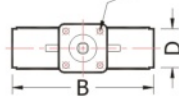


Dimensions (mm)

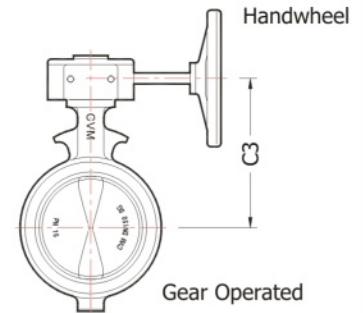
**Bare Shaft
Part Turn
Mounting
Flange**



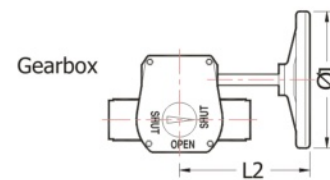
Mounting Flange -
n nos. of d4 dia.
on d3 PCD.



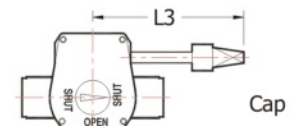
Lever
Operated



Gear Operated

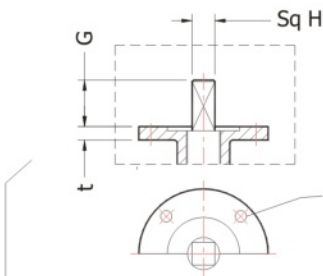


Gearbox

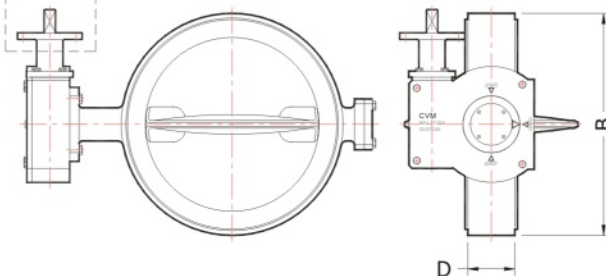


Cap

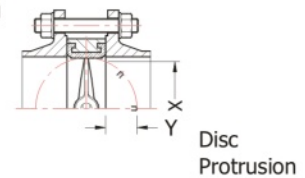
**Bare Shaft
Multi Turn
Mounting
Flange**



Mounting Flange
n nos. of d4 Ø
on d3 PCD.



Flange
Bolting



Disc
Protrusion

DN	A	B	C1	C2	C3	D	L1	L2	L3	J	X	Y	Bare Shaft Part Turn Mounting Flange							Bare Shaft Multi Turn Mounting Flange									
													Type	d3	d4	n	G	Sq H	t	Gear Box	Turn	Type	d3	d4	n	Sq H	G	t	
40 50	40 50	85 105	105 111	125 131	125 131	33 43	260 260	150 150	175 175	180 180	23 25	3 4	F05 F05	50 50	7 7	4 4	28 28	10 10	11 11										
65	65	116	126	146	146	46	260	150	175	180	46	10	F05	50	7	4	28	10	11										
80	80	130	133	153	153	46	260	150	175	180	66	17	F05	50	7	4	28	10	11										
100	100	156	153	173	173	52	260	150	175	180	86	24	F07	70	9	4	28	12	11										
125	125	184	160	181	181	56	260	150	175	240	112	35	F07	70	9	4	28	12	11										
150	150	210	186	206	206	56	260	150	175	240	140	47	F07	70	9	4	34	16	11										
200	200	265	205	240	240	60	385	150	175	240	191	70	F10	102	11	4	34	16	15	G08	8	F10	102	11	4	22	45	14	
250	250	330	245		272	68		215	240	270	241	91	F10	102	11	4	45	22	15	G08	8	F10	102	11	4	22	45	14	
300	300	374	270		297	78		265	240	270	290	111	F10	102	11	4	45	24	15	G08	8	F10	102	11	4	22	45	14	
350	336	405	315		342	78		320	240	400	327	129	F12	125	13	4	45	24	16	G12	12	F10	102	11	4	22	45	14	
400	386	470	365		421	102		320	260	400	373	142	F12	125	13	4	50	30	18	G12	12	F10	102	11	4	22	45	14	
450	436	522	390		446	114		320	260	400	421	161	F14	140	17	4	50	30	18	G15	15	F10	102	11	4	22	45	14	
500	486	576	415		471	127		320	260	400	470	180	F14	140	17	4	50	40	18	G18	18	F10	102	11	4	22	45	14	
600	586	672	510		595	154		340	290	400	566	216	F16	165	17	4	50	40	25	G18a2	36	F10	102	11	4	22	45	14	

Construction Details

Body

Grey cast iron	BS 1452 Grade 220 ASTM A126 Class B
Ductile iron (SG)	BS 2789 Grade 420/12 ASTM A536 Grade 65-45-12

Shaft

Stainless steel	AISI 304 AISI 316
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Disc

Ductile iron (SG)	BS 2789 Grade 420/12
Stainless steel	AISI 304 AISI 316
Aluminium Bronze	AB2

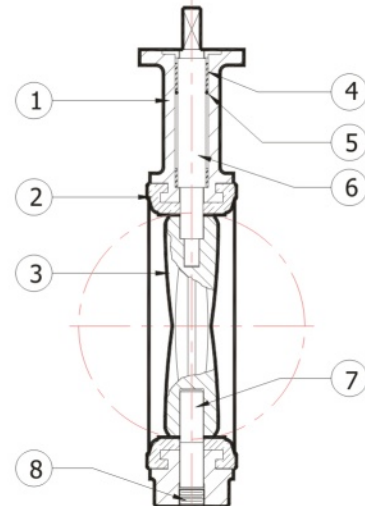
Rubber Seat

NBR rubber
EPDM rubber
BUNA-N (Nitrile)- Food Grade
EPDM - Food Grade
Viton
White BUNA-N (Nitrile) - Food Grade

Coating

Discs coated with standard food grade quality epoxy.
Bodies externally coated with polyurethane.

No.	Parts
1	Body
2	Rubber seat
3	Disc
4	Bush
5	O-ring
6	Upper shaft
7	Lower shaft
8	Bottom plug



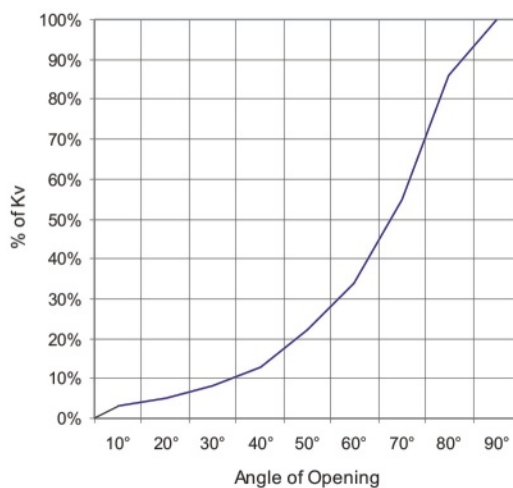
Note :

Other valve materials and coatings are available on request.

Characteristic curve

Variation of the flow coefficient K_v depending on the

K_v vs Disc Angle



Subject to change without prior notice.

Flow Characteristics

K_v = Flow coefficients in m^3/h .

$C_v = 1.16 K_v$

C_v = GPM at 1 psi differential pressure across valve

DN	K_v
40	45
50	50
65	150
80	180
100	270
125	410
150	750
200	1800
250	2700
300	4600
350	6200
400	8600
450	9800
500	16000
600	18000

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