



# Valv-Tech Inc.

## BL and BW Styles

Metal-Seated Butterfly Valves with Lug or Wafer Body

- **Lightweight**
- **Low Cost**
- **Suitable for throttling or shut-off service**
- **Minimal leakage in fully-closed position**

### The Versatile BL and BW Style Valves

are designed for reliable regulation of liquids, gases, slurries, dust and low-pressure steam. Standard operating shut-off pressures are 25 psi in 2" through 12" sizes, and 15 psi in sizes 14" and larger. BL lug body valves are available to 48", BW wafer body valves, to 72" and above.

Standard valve construction includes iron body and disc, stainless steel stub shafts, internal self-lubricated bearing. Teflon packing and adjustable packing unit. Special materials are available for temperatures exceeding 500° F. or for severe service conditions.

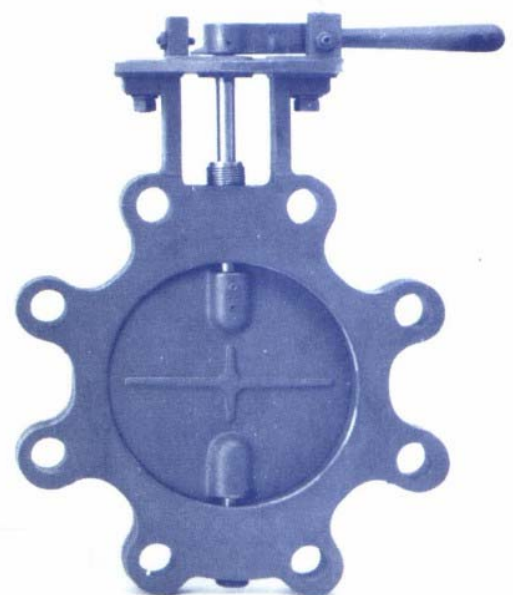
Valv-Tech's streamlined disc design provides a relatively low-pressure drop in the open position. Opening and closing the valve disc requires only a quarter turn of the valve shaft. To meet your individual control requirements, these valves can be fitted with lever, manual gear, pneumatic, hydraulic or electric actuators.

Both the BL and BW Style Valve bodies are designed to withstand line pressure up to the full ANSI flange rating. The BL body can be used for dead-end flange connections. This allows for isolation service which will permit removal of the downstream flange. Flange drilling of the BL is 150# ANSI: either drilled or tapped lugs are available. The "slim" BW type body is offered with 150# ANSI flanges or RPM flange drilling. Customer bolt circles which differ from standard can be accommodated by consulting the factory.

Seat selections, bearing and packing arrangements are shown on the reverse side, together with dimension drawings and chart. Select the right Valv-Tech BL or BW Style Butterfly Valve for compatibility with your operating conditions, and we will ship a top-quality valve right back to you . . . at the right price.



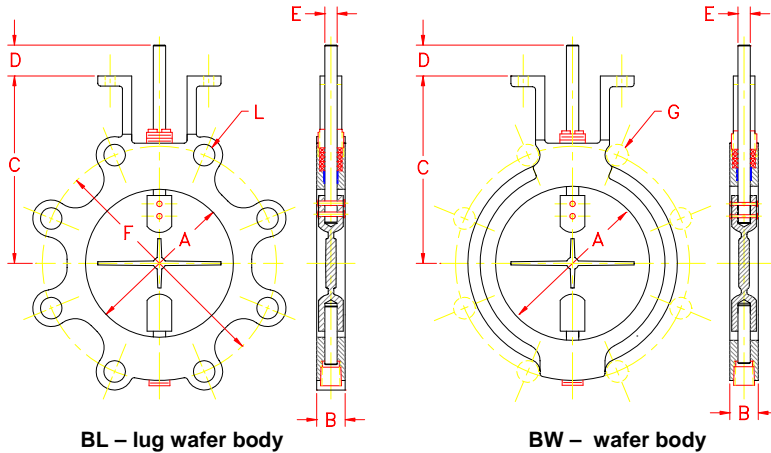
BW Style  
Butterfly Valve  
with rotary  
pneumatic control



BL Style  
Butterfly Valve  
with hand  
lever control

# VALV-TECH INC.

## BL and BW Style Butterfly Valves



BL – lug wafer body

BW – wafer body

### Class 15 / 25 Valves

APPROX.  
WT. #

Size	A	B	C	D	E	F	G	H	L	BL	BW
2	2.0	1.12	5.3	1.2	.38	4.8	.62	4	.75	N.A.	4.7
2.50	2.5	1.12	5.8	1.2	.38	5.5	.62	4	.75	N.A.	5.7
3	3.0	1.12	6.1	1.2	.38	6.0	.62	4	.75	N.A.	5.6
4	4.0	1.15	6.6	1.2	.50	7.5	.62	8	.75	9	7
5	5.0	1.15	7.1	1.2	.50	8.5	.75	8	.88	13	9
6	6.0	1.15	7.6	1.2	.50	9.5	.75	8	.88	15	11
8	8.0	1.37	8.6	1.2	.50	11.8	.75	8	.88	22	17
10	10.0	1.62	10.5	1.5	.75	14.2	.88	12	1.00	39	31
12	12.0	1.62	11.5	1.5	.75	17.0	.88	12	1.00	49	37
14	13.2	1.75	12.1	1.5	.75	18.8	1.00	12	1.12	61	44
16	15.2	1.75	13.1	1.5	.75	21.2	1.00	16	1.12	79	59
18	17.2	2.00	14.6	2.0	1.00	22.8	1.12	16	1.25	102	73
20	19.2	2.00	16.6	2.0	1.00	25.0	1.12	20	1.25	145	101
22	21.2	2.25	18.0	2.0	1.00	27.2	1.25	20	1.38	162	114
24	23.2	2.50	19.1	2.5	1.25	29.5	1.25	20	1.38	199	150
26	25.2	2.75	20.5	2.5	1.25	31.8	1.25	24	1.38	C.F.	175
28	27.2	2.75	21.5	2.5	1.25	34.0	1.25	28	1.38	C.F.	254
30	29.0	3.00	22.4	2.5	1.25	36.0	1.25	28	1.38	C.F.	296
32	31.0	3.50	24.0	3.0	1.50	38.5	1.50	28	1.62	C.F.	C.F.
34	33.0	3.50	25.0	3.0	1.50	40.5	1.50	32	1.62	C.F.	C.F.
36	35.0	3.50	26.0	3.0	1.50	42.8	1.50	32	1.62	C.F.	C.F.
38	37.0	3.75	27.5	3.0	1.50	45.2	1.50	32	1.62	C.F.	C.F.
40	39.0	3.75	28.5	3.0	1.50	47.2	1.50	36	1.62	C.F.	C.F.
42	41.0	4.00	29.5	3.0	1.75	49.5	1.50	36	1.62	C.F.	C.F.
44	43.0	4.00	31.0	3.0	1.75	51.8	1.50	40	1.62	C.F.	C.F.
46	45.0	4.25	32.0	3.0	1.75	53.8	1.50	40	1.62	C.F.	C.F.
48	47.0	4.50	32.8	3.0	2.00	56.0	1.50	44	1.62	C.F.	C.F.

F -- Bolt Circle

F – G – H – L -- Dimensions for 150# ANSI

G -- Stud Dia. x N.C. Thread

Flanges Only

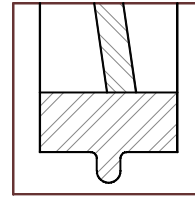
H -- No. of Holes

C.F. = Consult Factory.

L -- BL hole Dia.

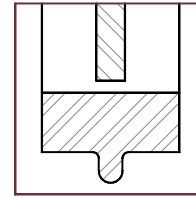
For BW – RPM dimensions consult factory.

### Seats Available



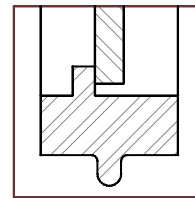
#### “M” (metal-to-metal seat)

Clockwise to close is standard, counterclockwise is available on request. Ideal for minimum leakage applications with clean service conditions at temperatures under 600° F.



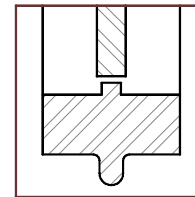
#### “C” (swing-thru seat)

For dirty service conditions at any temperature range. Clearance depends upon temperature.



#### “S” (step seat)

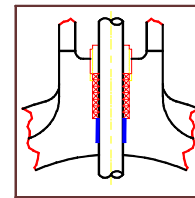
Clockwise to close is standard. Suitable for tight shut-off requirements above 700° F. under clean service conditions.



#### “X” (scissor seat)

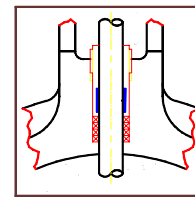
For dirty service conditions, where particles tend to adhere to inside of system. Raised seat serves as a wiper to clean off disc edge as it closes

### Bearing / Packing Configurations



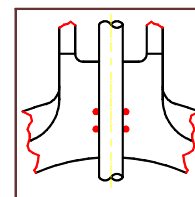
#### Self-lubricated bearing with Teflon packing

for air, gas or liquid service to 500° F. in clean applications.



#### Inboard packing with outboard bearing

for dirty service conditions in all temperature ranges.



#### “O”-Ring Packing

for air or liquid service from - 40° F. to 220° F. ( 4” – 16” only )