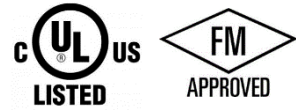


Resilient Seated Butterfly Valve



General

AFCO Resilient Seated Butterfly Valves are used to permit or prevent the flow of liquids in fire protection systems with open or closed visual indicator. The valves shall be installed in relatively clean liquid services. The valve is bubble tight at full rated pressure allowing all flow service to stop.

The valve bodies are ductile iron with fusion bond epoxy coated, offers the ultimate in strength and corrosion resistance. The disc are constructed of ductile iron with EPDM coated.

Available in Grooved and Wafer end connection. Valves with wafer end connection are designed to be fitted to flange end connection of ANSI B16.1 Class 150 or PN16 EN1092-2.

Technical Data

Approval

UL Listed
FM Approved

Maximum Working pressure

300 PSI (20.87 bar)

Operating temperature

10°F (-23°C) to 230°F (110°C), for optimal performance, refer to figure 1

Nominal Sizes

2" (DN50), 2 1/2" (DN65), 3" (DN80), 4" (DN100),
5" (DN125), 6" (DN150), 8" (DN200), 10" (DN250)
and 12" (DN300)

Connections

Wafer Ends (To be fitted to following flange)

ANSI B16.1 Class 150

EN1092-2 PN16

Grooved Ends

Conforms to AWWA C606

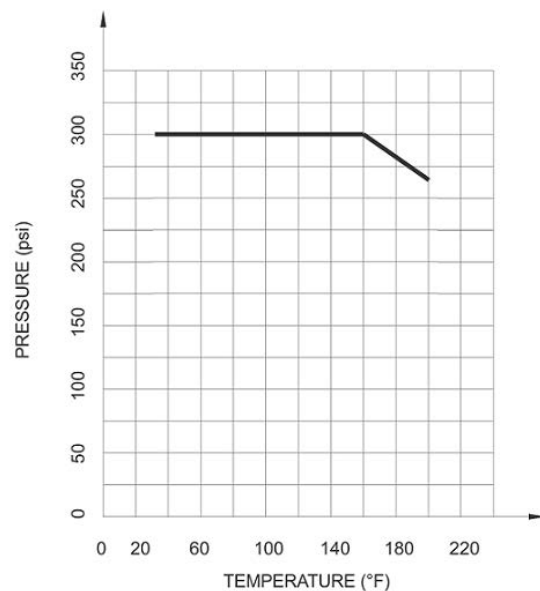
Finish

Fusion bond epoxy coated

Pressure-Temperature Performance

See figure 1

Figure 1 Operating pressure-temperature chart



Components

See material list and figure 2

Figure 2 Valve components

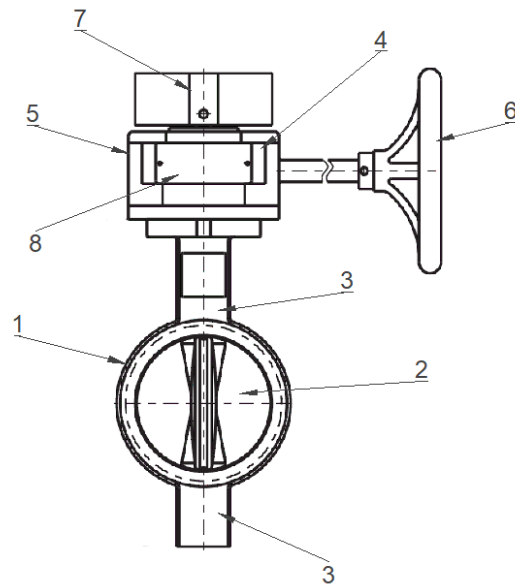


Table 1 Material list

No	Description	Material	Specification
1	Body	Ductile Iron	ASTM A536 65-45-12
2	Disc	EPDM Coated Ductile Iron	ASTM A536 65-45-12
3	Upper & Lower Stems	Stainless Steel	AISI 410
4	Worm Gear Shaft	Stainless Steel	AISI 410
5	Gear Housing	Cast Iron	ASTM A126B
6	Hand Wheel	Ductile Iron	ASTM A536 65-45-12
7	Flag Indicator	Cast Iron	ASTM A126B
8	Segment Gear	Ductile Iron	ASTM A536 65-45-12

Figure 3 Valve dimensions

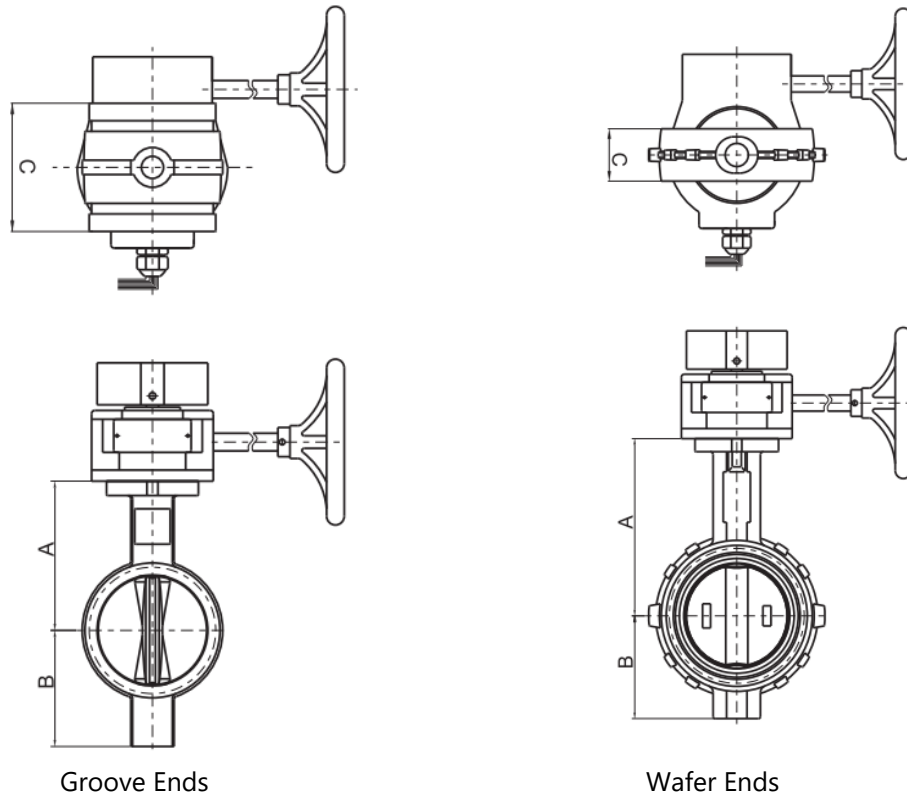


Table 2 Dimensions groove ends valve

SIZE	Unit	2 ½"	3	4	5	6	8	10
		65	80	100	125	150	200	250
A	inch	3.78	4.13	5.31	5.83	6.50	8.03	9.65
	mm	96	105	135	148	165	204	245
B	inch	2.95	3.54	4.33	5.00	5.71	6.89	8.27
	mm	75	90	110	127	145	175	210
C	inch	3.86	3.86	4.57	5.87	5.87	6.30	6.30
	mm	98	98	116	149	149	160	160
OD	inch	2.87	3.5	4.5	5.56	6.63	8.63	10.75
	mm	73.0	88.9	114.3	141.3	168.3	219.1	273

Table 3 Dimensions wafer ends valve

SIZE	Unit	2"	2 ½"	3	4	5	6	8	10	12
		50	65	80	100	125	150	200	250	300
A	inch	5.55	6.02	6.22	6.93	7.52	7.99	9.61	10.75	12.24
	mm	141	153	158	176	191	203	244	273	311
B	inch	3.15	3.15	3.54	4.33	5.12	5.71	6.93	8.11	10.24
	mm	80	80	90	110	130	145	176	206	260
C	inch	1.69	1.81	1.81	2.05	2.20	2.20	2.36	2.68	3.07
	mm	43	46	46	52	56	56	60	68	78

Table 3 Part number and ordering information

Nominal Sizes	Part Number	
	Grooved Ends	Wafer Ends
2" (DN50)	-	BV01-WW50**
2 1/2" (DN65)	BV01-GG65	BV01-WW65
3" (DN80)	BV01-GG80	BV01-WW80
4" (DN100)	BV01-GG100	BV01-WW100
5" (DN125)	BV01-GG125*	BV01-WW125*
6" (DN150)	BV01-GG150*	BV01-WW150*
8" (DN200)	BV01-GG200*	BV01-WW200*
10" (DN250)	BV01-GG250*	BV01-WW250*
12" (DN300)	-	BV01-WW300*

* UL Listed only

** FM Approved only

Installation

1. The valve should be considered to be located in order to allow access for operation, adjustment and maintenance.
2. Ensure the operating pressure of the valve accordance to the system pressure.
3. Valves shall be installed on adequate support and all joining pipe work shall be supported to avoid the imposition of pipeline strains on the valve, which would decrease its performance or damage the valve.
4. Handling valve carefully, avoid lifting valve at the hand wheel.
5. Visual inspection of the valve should be perform through the end ports to avoid any dirt.
6. Examine both flanges (valve and pipe) for correct gasket material, operating pressure/temperature, contact face and surface finish.
7. Valves may be installed with the hand wheel in the vertical position on the horizontal pipe work and in the horizontal position on the vertical pipe work.
8. Fix all potential cause of leakage, prior to final installation of the valve.

Maintenance

1. Valve should be at zero pressure and ambient temperature while performing any maintenance.
2. In the event of gland leakage, each gland nut should be tightened diametrically and evenly until the leakage stops.



Copyright © 2017 **AFCO American Fire Products Company**

500 Delaware Ave, Ste 1 #1960 - Wilmington, DE, US 19899
www.afcovalves.com