Two- and Three-Way Resilient Seat Valve Assemblies



Two-Way Butterfly Valve with pneumatic actuator.



Three-Way Butterfly Valve with pneumatic actuators tandem mounted.



Two-Way Butterfly Valve with electronic actuator.



Three-Way Butterfly Valve with electronic actuators tandem mounted.

Description

Available in two-way and three-way arrangements for two-position (On/Off), floating and modulating control, Resilient Seat Butterfly Valve Assemblies provide bubble-tight shutoff for the assemblies' full-rated pressure.

Features

- Molded-in resilient seat provides bubble-tight shutoff up to 150 psi
- Operating temperature up to 250°F (120°C)
- Lugged body is drilled and tapped for isolation and removal of downstream piping at full-rated pressure
- Round, polished disc and hub edge provides 360 degree concentric seating, minimum flow restriction, lower torques and longer seat life
- Upper and lower inboard bronze bearings ensure longer service life with low operating torques
- Thru-stem design provides high strength and positive disc control with standardized end connection for operator interchangeability
- Extended neck allows adequate clearance for flanges and insulation
- Bi-directional, self-adjusting stem seal is suitable for vacuum and pressure while preventing external contamination of the stem area
- Heavy-duty corrosion resistant top bushing, absorbs actuator side thrust
- Cast-in top plate is an integral part of the body and is standardized to allow direct mounting of actuators
- Each valve is factory tested to 110 percent of specified pressure rating
- Available in multiple configurations to match jobsite needs.

Applications

Butterfly Valve assemblies provide excellent flow control of low pressure steam, hot water, chilled water, condenser water, and thermal storage systems applications.

Specifications

-	
Valve Size	2 to 20" (51 to 508 mm)
Body Style	Butterfly
Assembly Type	2-Way/3-Way
Materials Full Cut Disk 2 to 12" / Under Cut Disk 2 to Body	Cast Iron 304 Stainless Steel 416 Stainless Steel EPDM Bronze Polyester
Full Cut Disk 14 to 20" / Under Cut Disk 8 t	
Body	Cast Iron
DiscStemSeatSeat	316 or 18-8 Stainless Steel EPDM
Upper Stem BushingUpper Stem Seal	
Controlled Medium	Chilled Water, Hot Water
Temperatures(-40 to +121°C)	40 to +250°F
Close-off Ratings	Refer to Selection Tables

	BV 2W 02 F S2	L	0	X	X	X	X Add accessories by simply replacing the X with the appropriate letter.
	embly Configuration						
2W	2-Way						Manual Overrid
3W	3-Way						M Manual Override
	e Size						(Non-STD) (Pneumatic Actuator Only)
02	2-inch						
25	2.5-inch						X Not Used
03	3-inch						
	to						Heate
20	20-inch					Н	Heater (Must Be Used with EM and EP, Optional with E2)
	Type					.,	
F 	Full Cut Disc — 150 psi Shutoff					X	Not Used
U	Under Cut Disc						
	100 psi Tight Shutoff 2-6" 50 psi Tight Shutoff 8"+				•	1.5.	Actuator Typ
Antu	_				S		nit (End) Switch for Pneumatic, tuators (Non-STD)
_	lator Type						
S2 ³	Pneumatic Spring Return 30 psi				Α		nit (End) Switch for G1, G2, G4, G5, G7, d G8 Actuators (Non-STD)
S6	Pneumatic Spring Return 60 psi				Х		ot Used
D6 E2	Pneumatic Double Acting 60 psi, Non-Spring Return				^	INO	n usea
EM							
EP	Electronic Modulating 0-10 Vdc, 100-240 Vac/Vdc, Non-Spring Return Electronic Modulating 4-20 mA, 100-240 Vac/Vdc, Non-Spring Return			Р	Dn	auma	Actuator Accessories/Option atic Positioner, 20 psi Actuator
G1 ¹	Electronic Spring Return, On/Off, 120 Vac			Q			atic Positioner, 60 psi Spring Return Actuator
G2 ¹	Electronic Spring Return, On/Off, 24 Vac			R			atic Positioner, 60 psi Direct Acting Actuator
G3 ¹	Electronic Spring Return, Floating, 24 Vac			T			/e, 120 Vac, 20 psi Spring Return Actuator
G4 ¹	Electronic Spring Return, Modulating 0-10 V, 24 Vac			U			/e, 24 Vac, 20 psi Spring Return Actuator
G5 ¹	Electronic Spring Return, Modulating 4-20 mA, 24 Vac			٧			/e, 120 Vac, 60 psi Spring Return Actuator
G6 ²	Electronic Floating, 24 Vac, NSR			w			ve, 24 Vac, 60 psi Spring Return Actuator
G7 ²	Electronic Modulating 0-10 Vdc, 24 Vac, Non-Spring Return			Υ			ve, 120 Vac, 60 psi Direct Acting Actuator
G8 ¹	Electronic Modulating 4-20 mA, 24 Vac ⁴ , Non-Spring Return			z			ve, 24 Vac, 60 psi Direct Acting Actuator
				Х	No	t Use	d
Valv	e Body Style						Fail Position/Assembly Configuratio
L	Lug-cast Iron (Standard)		0	Fai	І Оре	n 2-V	Vay Spring Return
			C Fail Closed 2-Way Spring Return				
	N 2-Way Non-Spring Return						
	A-F 3-Way Spring Return				Return		
	A-F 3-Way Non-Spring Return				pring Return		

Ordering Notes:

 $^{1}\!2$ to 4-inch sizes only $^{2}\!2$ to 6-inch sizes only $^{3}\!2$ to 12-inch sizes only

only ⁴Als

⁴Also order 499 Ohm Restrictor Kit, 985-124.

Table Notes:

- Not all assembly configurations are available. Consult Customer Care.
- Items marked NON-STD (non-standard) will require factory pricing and may have longer lead times.
- For 3-way valve assemblies with spring return actuators 1 Port Fail Close (FC). 1 Port Fail Open (FO).
- For 2-way and 3-way valve assemblies with pneumatic non-spring return actuators, fail last position. For 2-way and 3-way valve assemblies with electric non-spring return actuators, fail position will depend on type of failure and controls installed, consult Customer Care.

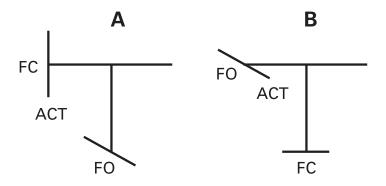


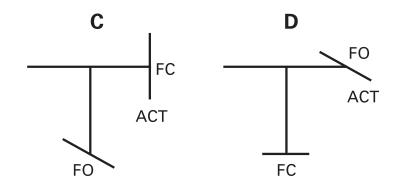
Part Number Configuration

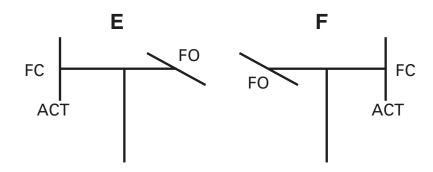
Three-Way Butterfly Valve Configurations

Key:

FC Fail ClosedFO Fail OpenACT Actuator Location







View from Top of Valve/Actuator Assembly (Shaft or Actuator End)