

VF Series

Two-Way, Spring Return, Low Pressure Pneumatically Actuated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies

Description

VF Series D-3000 Pneumatically Actuated Standard-Pressure, Standard-Temperature Butterfly Valves are designed specifically for a wide range of Heating, Ventilating, and Air Conditioning (HVAC) applications including two-position and modulating control of hot, chilled, or condenser water, and 50/50 glycol solutions. These valves are also bidirectional, allowing positive shutoff with the flow in either direction.

Features

- Spring return open or closed
- ANSI Class 125/150 flanges
- Valve body: cast iron
- Disk: aluminum bronze
- Valve stem: stainless steel
- Seat: EPDM
- Fluid temperature rating: -30 to 250°F
- Actuator ambient temperature rating: -20 to 150°F
- Air Supply pressure 20 psi minimum
- Actuator body material: cast aluminum
- Valve assemblies for On/Off applications are valve actuator positioner, 30 psig maximum pressure rating.
- Valve assemblies for proportional applications standard with D-9502 valve actuator positioner, 25 psig maximum air pressure rating



Two-Way Pneumatically Actuated Butterfly Valve

Selection Chart

Size, in.	Cv at 70°	Closeoff psig	On/Off (Proportional)		Proportional (with Positioner)	
			Spring Open	Spring Closed	Spring Open	Spring Closed
Two-Way Butterfly Valve Assemblies - 200 psig Closeoff Pressure - Rated for 150 psi Dead-End Service						
2	105	175	VF4231AA+3153	VF4431AA+3153	VF4231AA+3153P	VF4431AA+3153P
2-1/2	156	175	VF4231BA+3153	VF4431BA+3153	VF4231BA+3153P	VF4431BA+3153P
3	240	175	VF4231CA+3153	VF4431CA+3153	VF4231CA+3153P	VF4431CA+3153P
4	423	175	VF4231DA+3244	VF4431DA+3244	VF4231DA+3244P	VF4431DA+3244P
5	656	175	VF4231EA+3246	VF4431EA+3246	VF4231EA+3246P	VF4431EA+3246P
6	941	175	VF4231FA+3246	VF4431FA+3246	VF4231FA+3246P	VF4431FA+3246P
8	1,660	175	VF4231GA23246 ¹	VF4431GA23246 ¹	VF4231GA23246P ¹	VF4431GA23246P ¹
Two-Way Butterfly Valve Assemblies - 50 psig Closeoff Pressure - Rated for 50 psig Dead-End Service						
4	423	50	VF6231DA+3153	VF6431DA+3153	VF6231DA+3153P	VF6431DA+3153P
5	656	50	VF6231EA+3244	VF6431EA+3244	VF6231EA+3244P	VF6431EA+3244P
6	941	50	VF6231FA+3246	VF6431FA+3246	VF6231FA+3246P	VF6431FA+3246P
8	1,660	50	VF6231GA+3246	VF6431GA+3246	VF6231GA+3246P	VF6431GA+3246P
10	2,560	50	VF6231HA23246 ¹	VF6431HA23246 ¹	VF6231HA23246P ¹	VF6431HA23246P ¹

1. Valve assemblies have two actuators mounted in tandem.

Two-Way, Spring Return, Low Pressure Pneumatically Actuated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies (Continued)

Technical Specifications

VF Series Two-Way, Spring Return, Low Pressure Pneumatically Actuated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies		
Service	Hot Water, Chilled Water, Condenser Water, 50/50 Glycol Solutions (Not designed for use in steam applications.)	
Fluid Temperature	-30 to 250°F (-34 to 121°C)	
Maximum Fluid Velocity	30 ft/s (9 m/s)	
Rangeability	80:1 Minimum	
Flow Characteristics	Modified Equal Percentage	
Leakage	Bubble Tight, Bidirectional Shutoff Rated For Dead-End Service (Unidirectional), INLET Must Face Pressure	
Materials	Body, Valve	Cast Iron, ASTM A126 CL B
	Disk	Aluminum Bronze, ASTM B148
	Seat	Ethylene Propylene Diene Monomer (EPDM)
	Stem	416 Stainless Steel
	Bearings	Reinforced Polytetrafluorethylene (RPTFE)
	Body, Actuator	Die Cast Aluminum
	Diaphragm, Actuator	Synthetic Elastomer
	Body, Positioner	Die Cast Aluminum
	Cover, Positioner	Noryl
Actuator Ambient Operating Temperature Limits	-20 to 150°F (-29 to 66°C)	
Ambient Storage Temperature Limits	-20 to 150°F (-29 to 66°C); Preferably 40 to 85°F (4 to 29°C)	