

Two-Way, Industrial-Grade, Manually Operated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies

Description

VF Series Two-Way, Industrial-Grade, Manually Operated, Standard-Pressure, Standard-Temperature Butterfly Valves are specifically designed for a wide range of HVAC applications, including two-position and modulating control of hot, chilled, or condenser water, and 50/50 glycol solutions. All valves are factory tested for bubble-tight shutoff at 100% of the fully rated pressure. These valves are bidirectional, allowing positive shutoff with the flow in either direction.

Refer to the *VF Series Standard-Pressure, Standard-Temperature Butterfly Valves Product Bulletin (LIT-977205P)* for important product application information.

Features

- low seating/unseating torques
- bubble-tight shutoff
- broad range of pre-assembled actuators
- compatible with all types of American National Standards Institute (ANSI) 125/150 slip-on and weld-neck flanges
- high-integrity components
- manually operated



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Repair Information

If the VF Series Butterfly Valve Assembly fails to operate within its specifications, refer to the *VF Series Standard-Pressure, Standard-Temperature Butterfly Valves Product Bulletin (LIT-977205P)* for a list of repair parts available.

Selection Chart

Valve Code Number	Actuator			Ten-Position Manual Handle	Gear-Operated Manual Hand Wheel
	Size, in.	Cv at 90°	Closeoff Pressure, psig		
Two-Way, Manually Operated — 150 or 175 psig Closeoff Pressure; 75 psig Dead-End Service					
VFM-020HB	2	144	175	VFM-020HB-000M	VFM-020HB-000G
VFM-025HB	2-1/2	282	175	VFM-025HB-000M	VFM-025HB-000G
VFM-030HB	3	461	175	VFM-030HB-000M	VFM-030HB-000G
VFM-040HB	4	841	175	VFM-040HB-000M	VFM-040HB-000G
VFM-050HB	5	1,376	175	VFM-050HB-000M	VFM-050HB-000G
VFM-060HB	6	1,850	175	VFM-060HB-000M	VFM-060HB-000G
VFM-080HB	8	3,316	175		VFM-080HB-000G
VFM-100HB	10	5,430	175		VFM-100HB-000G
VFM-120HB	12	8,077	175		VFM-120HB-000G
VFM-140HC	14	10,538	150		VFM-140HC-000G
VFM-160HC	16	13,966	150		VFM-160HC-000G
VFM-180HC	18	17,214	150		VFM-180HC-000G
VFM-200HC	20	22,339	150		VFM-200HC-000G

Two-Way, Industrial-Grade, Manually Operated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies (Continued)

Technical Specifications

Two-Way, Industrial-Grade, Manually Operated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies ¹		
Service	Hot, Chilled, or Condenser Water, and 50/50 Glycol Solutions (Not Designed for Use in Steam Applications)	
Body Styles and Sizes	Two-Way, 2 through 20 in., Fully Lugged	
Fluid Temperature Limits	-40°F to 250°F (-40°C to 121°C)	
Body Pressure Rating	175 psig	
Maximum Fluid Velocity	30 ft/second (9 m/second)	
Rangeability	Refer to the <i>VF Series Standard-Pressure, Standard-Temperature Butterfly Valves Product Bulletin (LIT-977205P)</i> .	
Leakage	Bubble Tight	
Flow Characteristics	Modified Equal Percentage	
Materials	Body	Cast Iron, ASTM A126 Class B
	Tee (Three-Way Valves Only)	Cast Iron
	Disc	Ductile Iron, Nylon 11 Coated, ASTM A536 Gr 65-45-12
	Seat	Ethylene Propylene Diene Monomer (EPDM)
	Stem	416 Stainless Steel (2 through 12 in.) 304 Stainless Steel (14 through 20 in.)
Ambient Temperature Limits	Storage	-20 to 150°F (-29 to 66°C), Preferably 40 to 85°F (4 to 29°C)
	Operating	-40 to 200°F (-40 to 95°C)

1. Refer to the *VF Series Standard-Pressure, Standard-Temperature Butterfly Valves Product Bulletin (LIT-977205P)* for actuator specifications.