

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

Description

VF Series Standard-Pressure, Standard-Temperature Butterfly Valves are designed for control of hot water, chilled water, 50% glycol solutions and condenser water in a wide range of HVAC applications.

Features

- manually operated
- ANSI Class 125/150 flanges
- valve body: cast iron
- disc: ductile iron coated with Nylon 11
- valve stem:
 - 2 through 12 in. 416 stainless steel;
 - 14 through 20 in. 304 stainless steel
- seat: EPDM
- fluid temperature rating: -40 to 250°F



Two-Way Valve with Ten-Position Manual Handle



Two-Way Valve with Gear-Operated Manual Hand Wheel

Selection Chart

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

Actuator				Ten-Position Manual Handle	Gear-Operated Manual Hand Wheel
Size, in.	Cv at 90°	Cv at 60°	Closeoff		
Two-Way Butterfly Valve Assemblies – 150 or 175 psig Closeoff Pressure; 75 psig Dead-End Service					
2	144	61	175	VFM-020HB-000M	VFM-020HB-000G
2-1/2	282	107	175	VFM-025HB-000M	VFM-025HB-000G
3	461	154	175	VFM-030HB-000M	VFM-030HB-000G
4	841	274	175	VFM-040HB-000M	VFM-040HB-000G
5	1,376	428	175	VFM-050HB-000M	VFM-050HB-000G
6	1,850	567	175	VFM-060HB-000M	VFM-060HB-000G
8	3,316	1,081	175	---	VFM-080HB-000G
10	5,430	1,710	175	---	VFM-100HB-000G
12	8,077	2,563	175	---	VFM-120HB-000G
14	10,538	3,384	150	---	VFM-140HC-000G
16	13,966	4,483	150	---	VFM-160HC-000G
18	17,214	5,736	150	---	VFM-180HC-000G
20	22,339	7,144	150	---	VFM-200HC-000G

Repair Information

If the VF Series Two-Way, Industrial Grade, Manually Operated, Standard-Pressure, Standard-Temperature Butterfly Valve Assembly fails to operate within its specifications, replace the unit. For a replacement valve, contact the nearest Johnson Controls® representative.

Technical Specifications

VF Series Two-Way, Industrial Grade, Manually Operated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies		
Service ¹		Hot Water, Chill Water, Condenser Water, and 50/50 Glycol Solutions
Fluid Temperature Limits	Water	-40 to 250°F (-40 to 121°C)
	Steam	Not Rated for Steam Service
Maximum Closeoff	2 through 12 in. Type "H"	175 psig (1,206 kPa) Bidirectional; 75 psig (517 kPa) Dead-End Service
	14 through 20 in. Type "H"	150 psig (1,034 kPa) Bidirectional; 75 psig (517 kPa) Dead-End Service
Flow Characteristics		Equal Percentage
Maximum Fluid Velocity		30 ft/second (9 m/second)
End Connection		Fully Lugged, designed to be installed between ANSI 125/150 lb flanges
Materials	Body	Cast Iron, Red Epoxy finish
	Disc	Ductile Iron Coated with Nylon 11
	Seat	Ethylene Propylene Diene Monomer (EPDM)
	Stem	416 Stainless Steel (2 through 12 in.); 304 Stainless Steel (14 through 20 in.)
	Tee	Cast Iron

1. Refer to VDI 2035 Standard for recommended proper water treatment.