

VF Series Three-Way, Industrial-Grade, Non-Spring-Return, VA-907x Series Electric Actuated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies

Description

VF Series Three-Way, Industrial-Grade, Non-Spring-Return, VA-907x Series Electric Actuated, Standard-Pressure, Standard-Temperature Butterfly Valves are specifically designed 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. 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

Repair Information

If the Three-Way, Industrial-Grade, Non-Spring-Return, VA-907x Series Electric Actuated, Standard-Pressure, Standard-Temperature Butterfly Valve 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.



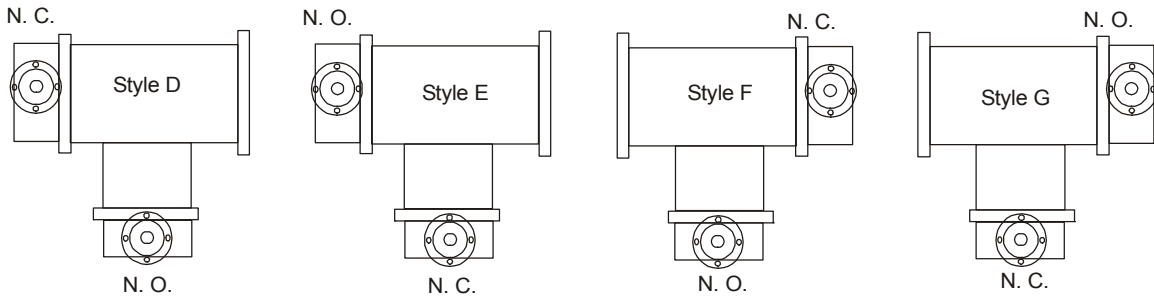
Three-Way, Industrial-Grade, Non-Spring-Return, VA-907x Series Electric Actuated, Standard-Pressure, Standard-Temperature Butterfly Valves

Selection Chart

Actuator				AC 120 V Powered Actuator		AC 24 V Powered Actuator	
Size, in.	Cv at 90°	Cv at 60°	Closeoff Pressure psig	On/Off	0 VDC to 10 VDC Proportional	On/Off	0 VDC to 10 VDC Proportional
Three-Way, Non-Spring Return¹ – 150 or 175 psig Closeoff Pressure; 75 psig Dead-End Service							
2	144	61	175	VFD-020HB-722D	VFD-020HB-702N	VFD-020HB-722D4	VFD-020HB-702N4
2-1/2	282	107	175	VFD-025HB-722D	VFD-025HB-702N	VFD-025HB-722D4	VFD-025HB-702N4
3	461	154	175	VFD-030HB-722D	VFD-030HB-702N	VFD-030HB-722D4	VFD-030HB-702N4
4	841	274	175	VFD-040HB-722D	VFD-040HB-702N	VFD-040HB-722D4	VFD-040HB-702N4
5	1,376	428	175	VFD-050HB-722D	VFD-050HB-702N	VFD-050HB-722D4	VFD-050HB-702N4
6	1,850	567	175	VFD-060HB-724D	VFD-060HB-704N	VFD-060HB-725D4	VFD-060HB-705N4
8	3,316	1,081	175	VFD-080HB-725D	VFD-080HB-705N	VFD-080HB-725D4	VFD-080HB-705N4
10	5,430	1,710	175	VFD-100HB-727D	VFD-100HB-707N	VFD-100HB-727D4	VFD-100HB-707N4
12	8,077	2,563	175	VFD-120HB-727D	VFD-120HB-707N	—	—
Three-Way, Non-Spring Return¹ – 50 psig Closeoff Pressure; Not Rated for Dead-End Service							
4	841	274	50	VFD-040LB-722D	VFD-040LB-702N	VFD-040LB-722D4	VFD-040LB-702N4
5	1,376	428	50	VFD-050LB-722D	VFD-050LB-702N	VFD-050LB-722D4	VFD-050LB-702N4
6	1,850	567	50	VFD-060NB-722D	VFD-060NB-702N	VFD-060NB-722D4	VFD-060NB-702N4
8	3,316	1,081	50	VFD-080NB-722D	VFD-080NB-702N	VFD-080NB-722D4	VFD-080NB-702N4
10	5,430	1,710	50	VFD-100LB-725D	VFD-100LB-705N	VFD-100LB-725D4	VFD-100LB-705N4
12	8,077	2,563	50	VFD-120LB-726D	VFD-120LB-706N	VFD-120LB-727D4	VFD-120LB-707N4

1. Code numbers listed are three-way valves, style D. For styles E, F, or G, change the D in the third digit of the code number to the desired style. Example: VFE-xxxxx-xxxx, VFF-xxxxx-xxxx, or VFG-xxxxx-xxxx (see the following figure).

VF Series Three-Way, Industrial-Grade, Non-Spring-Return, VA-907x Series Electric Actuated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies (Continued)



Three-Way Valve Body Styles

Technical Specifications

Three-Way, Industrial-Grade, Non-Spring-Return, VA-907x Series Electric Actuated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies¹		
Service	Hot, Chilled, or Condenser Water, and 50/50 Glycol Solutions (Not designed for use in steam applications.)	
Body Styles and Sizes	Three-Way, 2 in. through 12 in., Fully Lugged	
Fluid Temperature Limits	-20°F to 250°F (-29°C to 121°C)	
Body Pressure Rating	250 psig (1723 kPa)	
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
Ambient Temperature Limits	Storage	-20°F to 150°F (-29°C to 66°C), Preferably 40°F to 85°F (4°C to 29°C)
	Operating	-20°F to 150°F (-29°C to 65°C)
Enclosure Rating	National Electrical Manufacturers' Association (NEMA) 4	

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