

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

## Description

VF Series Two-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.

- 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 Two-Way, Industrial-Grade, Non-Spring Return, VA-90xx 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.



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## Features

- low seating/unseating torques
- bubble-tight shutoff
- broad range of pre-assembled actuators

## Selection Chart

### Two-Way Valves with Industrial-Grade, Non-Spring Return, VA-90xx Series Electric Actuators

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 to 10 VDC Proportional	On/Off	0 to 10 VDC Proportional
<b>Two-Way, Non-Spring Return – 150 or 175 psig Closeoff Pressure; 75 psig Dead-End Service</b>							
2	144	61	175	VFC-020HB-722D	VFC-020HB-702N	VFC-020HB-722D4	VFC-020HB-702N4
2-1/2	282	107	175	VFC-025HB-722D	VFC-025HB-702N	VFC-025HB-722D4	VFC-025HB-702N4
3	461	154	175	VFC-030HB-722D	VFC-030HB-702N	VFC-030HB-722D4	VFC-030HB-702N4
4	841	274	175	VFC-040HB-722D	VFC-040HB-702N	VFC-040HB-722D4	VFC-040HB-702N4
5	1,376	428	175	VFC-050HB-722D	VFC-050HB-702N	VFC-050HB-722D4	VFC-050HB-702N4
6	1,850	567	175	VFC-060HB-722D	VFC-060HB-702N	VFC-060HB-722D4	VFC-060HB-702N4
8	3,316	1,081	175	VFC-080HB-725D	VFC-080HB-705N	VFC-080HB-725D4	VFC-080HB-705N4
10	5,430	1,710	175	VFC-100HB-726D	VFC-100HB-706N	VFC-100HB-727D4	VFC-100HB-707N4
12	8,077	2,563	175	VFC-120HB-727D	VFC-120HB-707N	VFC-120HB-727D4	VFC-120HB-707N4
14	10,538	3,384	150	VFC-140HC-728D	VFC-140HC-708N	—	—
16	13,966	4,483	150	VFC-160HC-927D	VFC-160HC-907N	—	—
18	17,214	5,736	150	VFC-180HC-927D	VFC-180HC-907N	—	—
20	22,339	7,144	150	VFC-200HC-928D	VFC-200HC-908N	—	—
<b>Two-Way, Non-Spring Return – 50 psig Closeoff Pressure; Not Rated for Dead-End Service</b>							
4	841	274	50	VFC-040LB-722D	VFC-040LB-702N	VFC-040LB-722D4	VFC-040LB-702N4
5	1,376	428	50	VFC-050LB-722D	VFC-050LB-702N	VFC-050LB-722D4	VFC-050LB-702N4
6	1,850	567	50	VFC-060LB-722D	VFC-060LB-702N	VFC-060LB-722D4	VFC-060LB-702N4
8	3,316	1,081	50	VFC-080LB-723D	VFC-080LB-703N	VFC-080LB-725D4	VFC-080LB-705N4
10	5,430	1,710	50	VFC-100LB-725D	VFC-100LB-705N	VFC-100LB-725D4	VFC-100LB-705N4
12	8,077	2,563	50	VFC-120LB-726D	VFC-120LB-706N	VFC-120LB-727D4	VFC-120LB-707N4
14	10,538	3,384	50	VFC-140LC-726D	VFC-140LC-706N	VFC-140LC-727D4	VFC-140LC-707N4
16	13,966	4,483	50	VFC-160LC-727D	VFC-160LC-707N	VFC-160LC-727D4	VFC-160LC-707N4
18	17,214	5,736	50	VFC-180LC-727D	VFC-180LC-707N	—	—
20	22,339	7,144	50	VFC-200LC-728D	VFC-200LC-708N	—	—

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

**Technical Specifications**

<b>Two-Way, Industrial-Grade, Non-Spring Return, VA-907x Series Electric Actuated, Standard-Pressure, Standard-Temperature Butterfly Valve Assemblies<sup>1</sup></b>		
<b>Service</b>	Hot, Chilled, or Condenser Water, and 50/50 Glycol Solutions (Not designed for use in steam applications.)	
<b>Body Styles and Sizes</b>	Two-Way, 2 through 20 in., Fully Lugged	
<b>Fluid Temperature Limits</b>	-40°F to 250°F (-40°C to 121°C)	
<b>Body Pressure Rating</b>	250 psig (1723 kPa)	
<b>Maximum Fluid Velocity</b>	30 ft/second (9 m/second)	
<b>Rangeability</b>	Refer to the <i>VF Series Standard-Pressure, Standard-Temperature Butterfly Valves Product Bulletin (LIT-977205P)</i> .	
<b>Leakage</b>	Bubble Tight	
<b>Flow Characteristics</b>	Modified Equal Percentage	
<b>Materials</b>	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.)
<b>Ambient Temperature Limits</b>	Storage	-20 to 150°F (-29 to 66°C), Preferably 40 to 85°F (4 to 29°C)
	Operating	-40 to 150°F (-40 to 65°C)
<b>Enclosure Rating</b>	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.