Electric Actuated Butterfly Valves



TWO-WAY, NON-SPRING RETURN, HIGH PRESSURE, HIGH TEMPERATURE, BUTTERFLY VALVE ASSEMBLIES

- Non-spring return (drive open, drive closed)
- Valve body: carbon steel
- Disk: 316 stainless steel
- Valve stem: 17-4 PH stainless steel
- Seat: RTFE
- Fluid temperature rating: -20 to 450°F
- Actuator ambient rating:-40 to 150°F
- Actuator resolution: 100 positions
- Manual opener: standard
- Internal heater: standard
- Modulating input: 0(2) to 10 VDC or 4 to 20 mA; auto calibration (VA-907x-1 actuators only) 4 to 20 mA (VA-900x-1 actuators)
- 120 VAC input voltage
- NEMA 4X water-tight, corrosion resistant enclosure
- Thermal overload protection

ELECTRIC ACTUATED BUTTERFLY VALVES

SIZE IN.	Cv AT 90°	Cv AT 60°	CLOSEOFF PSIG[1]	AC 120 V POWERED ACTUATOR		AC 24 V POWERED ACTUATOR	
				ON/OFF	0 TO 10 VDC PROPORTIONAL	ON/OFF	0 TO 10 VDC PROPORTIONAL
				TWO-WAY BUTTERFLY VALVE ASSEMBLIES – ANSI CLASS 300 FLANGES[2]			
2-1/2	160	78	550	VFC-025ZE-722D	VFC-025ZE-702N	VFC-025ZE-722D4	VFC-025ZE-702N4
3	185	123	550	VFC-030ZE-722D	VFC-030ZE-702N	VFC-030ZE-722D4	VFC-030ZE-702N4
4	375	250	550	VFC-040ZE-723D	VFC-040ZE-703N	VFC-040ZE-725D4	VFC-040ZE-705N4
5	790	360	550	VFC-050ZE-725D	VFC-050ZE-705N	VFC-050ZE-725D4	VFC-050ZE-705N4
6	1,000	530	550	VFC-060ZE-726D	VFC-060ZE-706N	VFC-060ZE-727D4	VFC-060ZE-707N4
8	2,000	950	550	VFC-080ZE-727D	VFC-080ZE-707N	VFC-080ZE-727D4	VFC-080ZE-707N4
10	2,650	1,025	550	VFC-100ZE-927D	VFC-100ZE-907N	———	———
12	4,000	1,690	550	VFC-120ZE-927D	VFC-120ZE-908N	———	———
14	4,100	1,770	550	VFC-140ZE-928D	VFC-140ZE-908N	———	———
				TWO-WAY BUTTERFLY VALVE ASSEMBLIES – ANSI CLASS 150 FLANGES[3]			
2-1/2	160	78	240	VFC-025VE-722D	VFC-025VE-702N	VFC-025VE-722D4	VFC-025VE-702N4
3	185	123	240	VFC-030VE-722D	VFC-030VE-702N	VFC-030VE-722D4	VFC-030VE-702N4
4	375	250	240	VFC-040VE-722D	VFC-040VE-702N	VFC-040VE-722D4	VFC-040VE-702N4
5	790	360	240	VFC-050VE-724D	VFC-050VE-704N	VFC-050VE-725D4	VFC-050VE-705N4
6	1,350	510	240	VFC-060VE-725D	VFC-060VE-705N	VFC-060VE-725D4	VFC-060VE-705N4
8	2,800	1,060	240	VFC-080VE-725D	VFC-080VE-705N	VFC-080VE-727D4	VFC-080VE-705N4
10	4,300	1,630	240	VFC-100VE-726D	VFC-100VE-706N	VFC-100VE-727D4	VFC-100VE-707N4
12	6,650	2,530	240	VFC-120VE-727D	VFC-120VE-707N	———	———
14	7,650	2,900	240	VFC-140VE-927D	VFC-140VE-907N	———	———
16	9,800	3,170	240	VFC-160VE-928D	VFC-160VE-907N	———	———

(1) Closeoff pressures are dimensioned for a valve seat retainer that is oriented upstream.
(2) Maximum closeoff pressure for ANSI Class 300 valves is 740 psig (5102.1 kPa) for fluid temperatures below 100°F (37.8°C), and 550 psig (3,790 kPa) for fluid temperatures at 250°F (121.1°C). Maximum steam pressure is 150 psig (1034.2 kPa) for On/Off service, and 50 psig (344.8 kPa) for proportional service.
(3) Maximum closeoff pressure for ANSI Class 150 valves is 285 psig (1965 kPa) for fluid temperatures below 100°F (37.8°C), and 240 psig (1654.8 kPa) for fluid temperatures at 250°F (121.1°C). Maximum steam pressure is 150 psig (1034.2 kPa) for On/Off service, and 50 psig (344.8 kPa) for proportional service.

Manually Operated Butterfly Valves



TWO-WAY, MANUALLY OPERATED, HIGH-PRESSURE, HIGH-TEMPERATURE, BUTTERFLY VALVE ASSEMBLIES

- ANSI Class 150 and 300 flanges
- Valve body: carbon steel
- Disk: 316 stainless steel
- Valve stem: 17-4 PH stainless steel
- Seat: RTFE
- Fluid temperature rating: -20 to 450°F

MANUALLY OPERATED BUTTERFLY VALVES

SIZE IN.	Cv AT 90°	CLOSEOFF PSIG(1)	TEN-POSITION MANUAL HANDLE	GEAR-OPERATED MANUAL HAND WHEEL
			TWO-WAY BUTTERFLY VALVE ASSEMBLIES – ANSI CLASS 300 FLANGES(2)	
2-1/2	160	550	VFM-025ZE-000M	VFM-025ZE-000G
3	185	550	VFM-030ZE-000M	VFM-030ZE-000G
4	375	550	VFM-040ZE-000M	VFM-040ZE-000G
5	790	550	VFM-050ZE-000M	VFM-050ZE-000G
6	1,000	550	VFM-060ZE-000M	VFM-060ZE-000G
8	2,000	550	————	VFM-080ZE-000G
10	2,650	550	————	VFM-100ZE-000G
12	4,000	550	————	VFM-120ZE-000G
14	4,100	550	————	VFM-140ZE-000G
			TWO-WAY BUTTERFLY VALVE ASSEMBLIES – ANSI CLASS 150 FLANGES(3)	
2-1/2	160	240	VFM-025VE-000M	VFM-025VE-000G
3	185	240	VFM-030VE-000M	VFM-030VE-000G
4	375	240	VFM-040VE-000M	VFM-040VE-000G
5	790	240	VFM-050VE-000M	VFM-050VE-000G
6	1,350	240	VFM-060VE-000M	VFM-060VE-000G
8	2,800	240	————	VFM-080VE-000G
10	4,300	240	————	VFM-100VE-000G
12	6,650	240	————	VFM-120VE-000G
14	7,650	240	————	VFM-140VE-000G

(1) Closeoff pressures are dimensioned for a valve seat retainer that is oriented upstream.
(2) Maximum closeoff pressure for ANSI Class 300 valves is 740 psig (5102.1 kPa) for fluid temperatures below 100°F (37.8°C), and 550 psig (3,790 kPa) for fluid temperatures at 250°F (121.1°C). Maximum steam pressure is 150 psig (1034.2 kPa) for On/Off service, and 50 psig (344.8 kPa) for proportional service.
(3) Maximum closeoff pressure for ANSI Class 150 valves is 285 psig (1965 kPa) for fluid temperatures below 100°F (37.8°C), and 240 psig (1654.8 kPa) for fluid temperatures at 250°F (121.1°C). Maximum steam pressure is 150 psig (1034.2 kPa) for On/Off service, and 50 psig (344.8 kPa) for proportional service.

© 2015 Johnson Controls, Inc. P.O. Box 423, Milwaukee, WI 53201 Printed in USA PUBL-5432 (Rev 5/15)