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CATALOG KỸ THUẬT · JOHNSON CONTROLS

Van bướm điện VF6000

kiểu kẹp, tai bích · DN50–DN1000 · PN16

VF6000 Johnson Controls – van bướm điện PN16 DN50–DN1000, kiểu kẹp hoặc tai bích, đế rãnh EPDM, bộ truyền động VA200, VA300 hoặc M9300, áp đóng tới 1600 kPa.

Mã: VF6000 · Hãng: Johnson Controls · Hotline: 093 797 2339

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Butterfly Valve and Actuator

VF6000 series Butterfly Valves and VA300/VA200 series Electric Actuators

Introduction

The VF6000 series butterfly valves are used for shutting off or regulating the flow of hot or chilled water in a HVAC system.

Mounted with VA300/VA200 series actuators, the valves operate with a wide range of applications, including two-position and modulating control of hot, chilled, or condenser water, and up to 50/50 glycol solutions.

The valves and actuators are calibrated in the factory and packed separately for ease of delivery and installation.



VF6000 series Butterfly Valve and
VA300/VA200 series Actuator

Features

Groove-type seat	Reliable sealing and less torque during service life
Specialized broad seat sealing	Wide applicability of various types of flanges
Mid-plummer-block spliced pole	Valve shaft prevented from disengaging from the body due to frequent vibration
Automatic clutch	Seamless switching between manual and motorized operations
Anti-condensation and over-temperature protection	Assurance of reliable long-running
Planetary gear mechanism	High transmission efficiency with compact structure
Stereoscopic position display	Clear visibility of valve status



Ordering Information

Table 1: VF6000 series Butterfly Valves

V	F	6	4	6	1	A	A	-	C	Butterfly Valve	
		6								Product Series	6 =6000 series (PN16)
			4							Valve Type	4=Two way
				6						Pipe Connection	6 =wafer, 3 =lug, 8 =flange
					1					Flow Characteristic	1=equal percentage (0% to 60% opening)
						A				Valve Size	A=2 in. (DN50) B=2.5 in. (DN65) C=3 in. (DN80) D=4 in. (DN100) E=5 in. (DN125) F=6 in. (DN150) G=8 in. (DN200) H=10in. (DN250) J=12in. (DN300) K=14in. (DN350) L=16in. (DN400) M=18in. (DN450) N=20in. (DN500) P=24in.(DN600) Q=28in.(DN700) R=32in.(DN800) T=36in.(DN900) U=40in.(DN1000)
										Disc Material	A=Ductile Iron (GGG40) with Nylon 11 coating S=Stainless Steel (SS304)
										Identifier	Made in China

Example: VF6461GA-C=PN16 butterfly valve, wafer connection, DN200, GGG40 with Nylon 11 coating disc.
For more product details, please refer to the selection table or consult the Johnson Controls sales representatives.

Table 2: VA5000 series Electric Actuators

V	A	3	0	3	B	D	C	-	C	Actuator	
		3								Close-off	3=16bar 2=10bar
			0	3						Rated Torque	Codes and specifications are shown in the actuator specification table
					B					Control Type	B=On/Off C=Modulating
						D				Power Supply	D= 220VAC+10%,50Hz
							C			Auxiliary Switch	C=Two switches
								-	C	Identifier	Made in China

Example: VA303BDC-C=On/Off electric actuator, 50Nm, 220VAC, with 2 auxiliary switches, 16 bar close-off when used with valve.
For more product details, please refer to the selection table or consult the Johnson Controls sales representatives.

Butterfly Valve and Actuator

Selection Table

Table 3: 1600kPa Close-off Pressure

VF6000 series Butterfly Valves PN16, DN50-DN300					Non-spring Return Actuators																
					M9300				VA300												
																					
					On/Off or Floating, 230V	24V, On/Off or Floating, 0(2) to 10VDC or 0(4) to 20mA (with resistor)	On/Off or Floating, 230V	24V, On/Off or Floating, 0(2) to 10VDC or 0(4) to 20mA (with resistor)	On/Off, 230V	0(2)~10VDC or 0(4)~20mA, 230V	On/Off, 230V	0(2)~10VDC or 0(4)~20mA, 230V	On/Off, 230V	0(2)~10VDC or 0(4)~20mA, 230V	On/Off, 230V	0(2)~10VDC or 0(4)~20mA, 230V	On/Off, 230V	0(2)~10VDC or 0(4)~20mA, 230V			
Auxiliary Switch																					
2 SPDT, 3.0 (1.5) A @ 24 VAC					M9300-2 (optional)																
2 SPST, 16 A @ 250 VAC											■		■		■		■				
2 SPST, 10 A @ 250 VAC									■		■										
Position Feedback																					
0(2) to 10VDC						■		■													
0(2) to 10VDC or 0(4) to 20mA										■			■		■		■				
Power Supply																					
220 VAC +/-10% ,50/60 Hz					■		■		■	■	■	■	■	■	■	■	■	■			
24 VAC +20%/-15% ,24VDC +/- 10%						■		■													
Electrical Connections																					
Screw terminal									■	■	■	■	■	■	■	■	■	■			
Cable					■	■	■	■													
Accessories																					
Heater									■	■	■	■	■	■	■	■	■	■			
DN	Kv Ful Open	Kv 60° Opening	Wafer Connection	Lug Connection	Max. Close-off Pressure (kPa)																
DN50	193	60	VF6461Ax-C	VF6431Ax-C	1,600				1,600												
DN65	315	95	VF6461Bx-C	VF6431Bx-C	1,600				1,600												
DN80	425	126	VF6461Cx-C	VF6431Cx-C			1,600			1,600											
DN100	723	221	VF6461Dx-C	VF6431Dx-C						1,600											
DN125	1,243	394	VF6461Ex-C	VF6431Ex-C							1,600										
DN150	1,859	542	VF6461Fx-C	VF6431Fx-C							1,600										
DN200	3,124	995	VF6461Gx-C	VF6431Gx-C								1,600									
DN250	4,757	1,462	VF6461Hx-C	VF6431Hx-C									1,600								
DN300	7,058	2,125	VF6461Jx-C	VF6431Jx-C													1,600				
Actuator					VA9320-AUA-3	VA9320-HGA-3	VA9335-AUA-3	VA9335-HGA-3	VA301BDC-C	VA301CDC-C	VA302BDCN-C	VA302BDC-C	VA302CDC-C	VA303BDC-C	VA303CDC-C	VA304BDC-C	VA304CDC-C	VA305BDC-C	VA305CDC-C	VA306BDC-C	VA306CDC-C

Note: x stands for disc material: A=ductile iron(GGG40) with nylon11 coating; S=stainless steel (SS304).

Selection Table

Table 4: 1600kPa Close-off Pressure

VF6000 series Butterfly Valves PN16, DN50-DN1000					Non-spring Return Actuators																																																																																																																																																																																																																																																															
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					On/Off or Floating, 230V On/Off or Floating, 0(2) to 10 VDC or 0(4) to 20mA (with resistor)	On/Off or Floating, 230V 24V, On/Off or Floating, 0(2) to 10VDC or 0(4) to 20mA (with resistor)	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0 (2)-10 VDC or 0 (4)-20 mA	On/Off 0

Note: x stands for disc material: A=ductile iron(GGG40) with nylon11 coating; S=stainless steel (SS304).

Butterfly Valve and Actuator

Technical Specifications

Table 5: Valve Specifications

Product Series		VF6000 Series Butterfly Valves
Medium		Hot / chilled Water, glycol solution (< 50% concentration) in HVAC system
Medium temperature		-10°C~100°C
Close-off pressure		1000kPa/1600kPa (refer to table 3 and table 4)
Pressure rating		PN16
Materials	Valve Body	Cast Iron, GG25 (DN50-DN150) , Ductile Iron, GGG40 (DN200-DN1000)
	Seat	EPDM
	Stem	Stainless Steel
	Disc	Ductile iron (GGG40) with Nylon 11 coating or Stainless steel (SS304)
Pipe connection		ISO 7005-2 Wafer (DN50-DN1000) Lug (DN50-DN600)

Table 6: Actuator Specifications (1/2)

Product Series		VA-2xx Series Electric Actuators						
Model		VA201	VA201...N	VA202	VA203	VA204	VA205	VA206
Rated torque (Nm)		35	50	80	200	400	600	800
Power consumption (VA)	On/Off models	40	40	40	110	180	180	180
	Modulating models	45	45	45	115	185	185	185
Input signal	On/Off models	220Vac, ±10%, 50/60Hz						
	Modulating models	4 - 20mA or 0(2) - 10V						
Input impedance		150 ohms (current signal) or ≥100k ohms (voltage signal) (applicable to modulating models only)						
Output signal	On/Off models	Dry contacts (fully open and closed)						
	Modulating models	4 - 20mA or 0(2) - 10V						
Switch contact rating		10A (250VAC) , 10A (30VDC)			16A (250VAC) , 16A (30VDC)			
Rated stroke		90±1°						
Rated time for full stroke (s)		11	15	22	39	29	39	47
Ambient operating temperature		-4 to 149° F (-20 to 65° C)						
CE compliance		EMC: 2014/30/EU , LVD: 2014/35/EU						
IP rating		IP67						
Weight (kg)		3.1	3.1	3.7	11	22	22	22

Technical Specifications

Table 7: Actuator Specifications (2/2)

Product Series		VA-2xx Series Electric Actuators					
Model		VA207	VA208	VA209	VA210	VA211...N	VA212
Rated torque (Nm)		1,000	1,700	2,300	3,500	5,000	8,000
Power consumption (VA)	On/Off models	230	440	440	440	440	440
	Modulating models	235	445	445	445	445	445
Input signal	On/Off models	220Vac, $\pm 10\%$, 50/60Hz					
	Modulating models	4 - 20mA or 0(2) - 10V					
Input impedance		150 ohms (current signal) or $\geq 100k$ ohms (voltage signal) (applicable to modulating models only)					
Output signal	On/Off models	Dry contacts (fully open and closed)					
	Modulating models	4 - 20mA or 0(2) - 10V					
Switch contact rating		16A (250VAC) , 16A (30VDC)					
Rated stroke		$90 \pm 1^\circ$					
Rated time for full stroke (s)		47	34	47	76	105	143
Ambient operating temperature		-4 to 149° F (-20 to 65° C)					
CE compliance		EMC: 2014/30/EU. LVD: 2014/35/EU					
IP rating		IP67					
Weight (kg)		22	36	36	76	76	107

Table 8: Actuator Specifications

Product Series		VA-3xx Series Electric Actuators					
Model		VA301	VA302	VA303	VA304	VA305	VA306
Rated torque (Nm)		35	80	200	400	600	800
Power consumption (VA)	On/Off models	40	110	110	180	180	180
	Modulating models	45	115	115	185	185	185
Input signal	On/Off models	220Vac, ±10%, 50/60Hz					
	Modulating models	4 - 20mA or 0(2) - 10V					
Input impedance		250 ohms					
Output signal	On/Off models	Dry contacts (fully open and closed)					
	Modulating models	4 - 20mA or 0(2) - 10V					
Switch contact rating		10A (250VAC) , 10A (30VDC)	16A (250VAC) , 16A (30VDC)				
Rated stroke		90±1°					
Rated time for full stroke (s)		11	19	39	29	39	47
Ambient operating temperature		-4 to 149° F (-20 to 65° C)					
CE compliance		EMC: 2014/30/EU, LVD: 2014/35/EU					
IP rating		IP67					
Weight (kg)		3.1	11	11	22	22	22

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls shall not be liable for damages resulting from misapplication or misuse of its products.



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