## **Butterfly Control Valves**

## VFF6 Three-way (A-AB-B) Butterfly Control Valves



Resilient seat three-way valves provide control for HVAC system applications including chilled water, hot water, cooling tower water, and thermal storage systems.

Body Pattern: 3 way (A-AB-B porting) Valve Action: Normally Closed Connection Type: Lugged Controlled Medium: Chilled or hot water with up to 50% Glycol; not for use with steam or fuels. Flow Characteristic: Modified Equal Percent Mounting: ANSI Flanged Static Pressure Rating (max): 250 psi (1724 kPa) Actuator Ambient Temperature Ratings-5 F to 140 F: (-20 C to 60 C) Temperature Range: -40 F to 250 F (-40 C to 121 C) Number of Flange Bolts For 2 in., 2-1/2 in., 3 in. valves: 4 For 4 in., 5 in., 6 in., 8 in., valves: 8 For 10 in., 12 in., 14 in. valves: 12 For 16 in., 18 in. valves: 16 For 20 in. valves: 20 Flange Bolt Thread For 2 in., 2-1/2 in., 3 in., 4 in. valves: 5/8 in. -11 pitch For 5 in., 6 in., 8 in., valves: 3/4 in. -10 pitch For 10 in., 12 in. valves: 7/8 in. -9 pitch For 14 in., 16 in., 18 in., 20 in. valves: 1-1/8 in. -7 pitch Materials (Body): Polyester-coated cast iron ASTM A126 Class B (Stem): 416 Stainless Steel (Seat): Peroxide-cured EPDM resilient seat (Plug/Ball/Disc): Nylon 11-coated ductile iron (optional: aluminum, bronze, and stainless steel) Approvals CE: Compliant Underwriters Laboratories, Inc: C/US UL873, Plenum Rated

Accessories:

VFF50-0400-Position status monitor for VFF butterfly valves with high pressure pneumatic actuators

Butterfly Valves	Fitting	Body Pattern	Size	Disk size (close-off)	Pressure Rating	Valve trim	Actuator secondary Specification	Actuator primary Specification	Description	Actuator Type	
VF	Butterfly Valve, resilient seat							1			
1	F	Flangeo	d fitting								
	. <u> </u>	1	2-way (	spring re	turn norm	ally open	ı)				
		2	2-way (	non-sprir	ng return:	Spring re	eturn norr	nally clos	ed or field-convertible)		
		3	3-way A	3-way A-B-AB (mixing/diverting)							
		6	3-way A-AB-B (diverting/mixing)								
		1	F	2 inch (DN50)							
			G	2-1/2 inch (DN65)							
			н	3 inch (DN80)							
			J	4 inch (DN100) 5 inch (DN125)							
			к								
			L	6 inch (	(DN150)						
			М	8 inch (	(DN200)						
			Ν	10 inch	(DN250)						
P 12 inch (DN300)											
			R	14 inch	(DN350)						
			S	16 inch	(DN400)						
			Т	18 inch	(DN450)						
			U	20 inch	(DN500)						
				V	V Undercut disk (lower actuator torque; 50 psid close-off)						
				W	Full diar	neter dis	k (high cl	ose-off)			
					1	ANSI 15	50 psig bo	ody press	ure rating		
					2	ANSI 25	50 psig bo	ody press	ure rating		
					I	Ŷ	Nylon-c	oated dis	<, EPDM seat	-	
							2	NEMA 2	actuator housing (Honeywell DCA)		
							6		actuator nousing with manual operator and neater		
							X		X actuator nousing with manual operator and heater	ū	
							8	Spring I	range 8-13 psi for 20 psi pneumatic actuator	4	
								24 Vac	solenoid for 80 psi prieumatic actuator	-	
							5	120 Voc	eclencid for 90 poi proumotio estudior	÷	
							E D	T20 Vac	tie positioner for modulating applications		
							F Y	Standar			
								Levero	a, two-position control only	-	
							-	Level 0			
							G	Geared	operator for dead end service	Na	
								Α	Floating actuator		
								В	Modulating actuator		
								С	Two-position 24 Vac spring return actuator		
								D	Modulating spring return actuator	otri	
								E	Two-position 120 Vac spring return actuator	ц Ц	
								Р	Pneumatic actuator, spring return 20 psi	Ļ.	
								R	Pneumatic actuator, push-pull 80 psi	6	
								S	Pneumatic actuator, spring return 80 psi	Pnol	
								x	Valve body only, for dead end service	Man	
VF	F	2	J	v	1	Y	2	D	2-way, 4 inch flanged resilient-sear butterfly valve, undercut disk (50 psid clos modulating/floating control, spring return normally closed.	se-off	

\*\*VFF50-0400 position status monitor for VFF butterfly valves with high pressure pneumatic actuators is available to be ordered separately or will be assembled to the valve if ordered at the same time. It is compatible with any high pressure pneumatic actuators without pneumatic or electro-pneumatic positioner (e.g. VFF...XR/XS, VFF...CR/CS, or VFF...ER/ES).