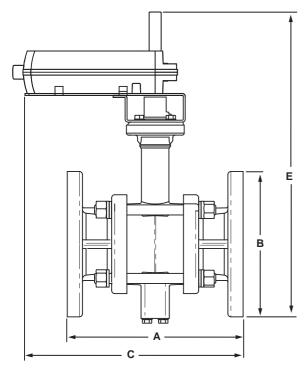
## **Control Ball Valves**

## **VBF2 Two-way Flanged Control Ball Valve**



**Dimensions in inches (millimeters)** 



Size (in.)	Model Number	A in. (mm)	B in. (mm)	<b>C</b> in. (mm)	D (depth) (not shown) in. (mm)	E in. (mm)	Wt. Ib (kg)
4	VBF2J	11 (278)	9 (229)	13-1/4 (337)	9 (229)	18-3/4 (476)	65 (31)
5	VBF2K	12-3/8 (352)	10 (254)	14-1/4 (362)	10 (254)	19 (483)	75 (34)
6	VBF2L	13-7/8 (352)	11 (278)	15-1/8 (384)	11 (278)	19-7/8 (505)	90 (41)

M13732

The VBF2 Two-Way Ball Valve Assemblies, with and without actuators, control hot and chilled water with glycol solutions up to 50% in closed loop heating, ventilating, and air conditioning (HVAC) systems to provide two-position or modulating functions. These valve assemblies can be ordered with or without factory-mounted non-spring return or spring return direct-coupled actuators (DCA).

Sizes from 4 to 6 inch with ANSI Class 125 flanged connections

- Equal percentage or linear flow characteristics Choice of four, factory-installed actuation control schemes: Floating, Modulating (2-10 V), Spring Return 24V 2-Position, Spring Return Modulating/Floating
- Field configurable for normally open or normally
- closed fail-safe position
- Removable manual operating handle to control valve
- during installation or in an event of power failure ANSI Class IV leakage specification (0.01% of Cv)
- Optional NEMA 3R (IP54) rated enclosure for outdoor applications
- Option of four actuator mounting positions on the valve
- Wide range of Cv choices from 91 to 650
- Valve ball and stem 316 stainless steel

Valve Type: Control Ball Valve Body Pattern: Two-way Connection Type: Flanged Flow Characteristic: Equal percentage Controlled Medium: Chilled or hot water with up to 50% Glycol; not for use with steam or fuels. Leakage Rating: ANSI Class IV (0.01% of Cv maximum) Maximum Safe Operating Pressure: 240 psi (1655 kPa) Maximum Differential Pressure Ratings (Close-off): 70 psi (483 kPa) Fluid Temperature Range: -22 F to +250 F (-30 C to +121 C) Materials (Body): Cast Iron (Stem): 316 Stainless Steel (Seat): Teflon® (Plug/Ball/Disc): 316 stainless steel

## **Control Ball Valves**

Valve	Fitting	Body/Flow	Size	Cv	T/P	Trim	E	nclosure	Actuator
B = valve,									
	F = Flanged								
	N = Female NPT threaded		-						
		2 = 2 way							
		3 = 3 way							
				inch	S.I. metric				
			Α	1/2	DN15				
			В	3/4	DN20				
			С	1	DN25				
			D	1-1/4	DN32				
			E	1-1/2	DN40				
			F	2	DN50				
			G	2-1/2	DN65				
			Н	3 4	DN80				
			J K	4 5	DN100 DN125				
			L	5 6	DN125 DN150				
				B		ator (specific	values v	vary by valv	e size)
				C	OV Design		Values	ary by varv	0.01207
				D	-				
				E					
				F					
					-				
				S					
				Т	-				
				U					
				1					
				2					
				3					
				4					
				5					
				6					
				7					
						Valve constr			
					3 = ANSI ;	300 Valve co			
						P = Plated S = Stainle			
						5 = Staime		no enclos	
									enclosure
							<u> </u>		X = no actuator
									A = NSR, Floating, conduit
									B = NSR, Modulating
									C = SR, 2-Position, 24 Vac
									D = SR, Floating/Modulating
									F = NSR, Floating, open termin strip, 1/2 and 3/4 inch only
I	I		l	1	I	I			,
VB	F	2	Α	В	1	S		0	А