



Product Information

Service	
Media:	Hot & Chilled Water (up to 50% Glycol)
Pressure:	300 PSI
Temperature:	200°F
Materials	
Body:	Forged Brass
Stem / Seat:	Nickel-Plated Brass / Brass
Paddle:	BUNA-N
Connections:	FPT
Actuator	
Voltage:	120 or 24 VAC
Power:	6.5 Watts, 7 VA
Stroke Speed:	Power: 9-11 seconds; Spring: 4-5 seconds
Material:	S.S. Base Plate, Aluminum Cover

This valve is designed for on/off control for heating and cooling applications. A hysteresis synchronous motor drives the valve in one direction; a spring drives the other direction to provide "fail-safe" operation. A manual opening lever is provided on all N.C. valves to allow flushing of the system after installation. The valve actuator is removable for easier installation. These valves are not recommended for "open-water" systems. All models are provided with 18" wire leads.

For 3-way valves, refer to coil detail #35 in the "Coil Hook-up Design Guide" which shows a N.C., mixing position, hook-up. For N.O. operation, the A & B ports would be reversed.

Nominal Dimensions (Inches) & Weights (Pounds) / Cv Rates

Size	Model	Type	End Conn.	Max ¹ GPM	Cv	Close-Off ΔP (PSI)		Weight	A	B	C	D		
						STD	OPT ²							
1/2"	E2 - VT2221G13 (-) 020	2-Way N.C.	FPT	2.2	1.0	50	75	3	1.375	.0875	1.3125	3.375		
	E2 - VT2222G13 (-) 020			5.6	2.5	30	50							
	E2 - VT2223G13 (-) 020			7.7	3.5	20	30							
	3/4"	E2 - VT2221G23 (-) 020	2-Way N.O.	FPT	2.2	1.0	50	50	3	1.375	.0875	1.3125	3.375	
		E2 - VT2222G23 (-) 020			5.6	2.5	30	30						
		E2 - VT2223G23 (-) 020			7.7	3.5	20	20						
		1"	E3 - VT3221G13 (-) 020	3-Way N.C.&N.O.	FPT	3.2	1.5	50	50	3	1.6875	.0875	1.4375	3.625
			E3 - VT3222G13 (-) 020			6.7	3.0	30	30					
			E3 - VT3223G13 (-) 020			8.5	4.0	20	20					
1"			E2 - VT2322G13 (-) 020	2-Way N.C.	FPT	5.3	2.5	30	50	3	1.6875	.0875	1.4375	3.625
			E2 - VT2323G13 (-) 020			7.4	3.5	20	30					
			E2 - VT2325G13 (-) 020			10.6	5.0	13	20					
	1"		E2 - VT2327G13 (-) 020	2-Way N.O.	FPT	14.8	7.0	10	15	3	1.6875	.0875	1.6875	3.625
			E2 - VT2322G23 (-) 020			5.3	2.5	30	30					
			E2 - VT2323G23 (-) 020			7.4	3.5	20	20					
		1"	E2 - VT2325G23 (-) 020	3-Way N.C.&N.O.	FPT	10.6	5.0	13	13	3	1.6875	.0875	1.6875	3.625
			E2 - VT2327G23 (-) 020			14.8	7.0	10	10					
			E3 - VT3322G13 (-) 020			6.4	3.0	30	30					
1"			E3 - VT3323G13 (-) 020	3-Way N.C.&N.O.	FPT	8.5	4.0	20	20	3	1.6875	.0875	1.6875	3.625
			E3 - VT3325G13 (-) 020			10.6	5.0	13	13					
			E3 - VT3327G13 (-) 020			14.8	7.0	10	10					
1"	E2 - VT2427G13 (-) 020		2-Way N.C.	FPT	18.0	8.0	15	25	3	1.6875	.0875	1.6875	3.625	
	E2 - VT2427G23 (-) 020		2-Way N.C.	FPT	18.0	8.0	15	25	3	1.6875	.0875	1.6875	3.625	
	E3 - VT3427G13 (-) 020		3-Way N.C.&N.O.	FPT	17.0	7.5	15	25	3	1.6875	.0875	1.6875	3.625	

Notes

(-) denotes Voltage—specify: **A** = 24 VAC or **B** = 120 VAC; **1** - Maximum Flow based on 5 PSI pressure drop for wide open valve; **2** - close-off available with optional actuator. See dimension drawings on reverse. All weights and dimensions given are in pounds and inches and are subject to change. **Venturi products made from fabricated materials may vary ±1/16 inch per component.**

Model Order Designation

1/2" - 2 Way, CU = 2.5, 120 VAC

E2 - VT2222G13B02

A = 24 Vac, B = 120 VAC,
D = 208 VAC, U = 230 VAC

