

VEP-5500 Series

2-Way Electric Double-Seated Flanged Valves

Description

The KMC VEP-5500 Series control valves are 2-way, straight-through valves designed for control of hot water, chilled water or saturated steam.

These are double-seated valves that range in size from 2-1/2" to 6" with equal percentage flow characteristics. Self-adjusting, V-ring Teflon packing and stainless steel stems make these valves ideal for many applications.

These valves utilize KMC ControlSet Actuators. An optional "fail-safe" feature allows failure to an open or closed position upon loss of 24 VAC supply. A gear disengagement feature allows positioning of the valve stem/ plug without energizing the actuator.

Features

- ◆ Double-seated valves
- ◆ Equal percentage flow characteristics
- ◆ Self-adjusting V-ring Teflon packing
- ◆ Stainless steel stems
- ◆ "Fail-safe" option
- ◆ Gear disengagement feature allows manual valve operation

Accessories/Repair Parts

The following accessories and repair parts are available:

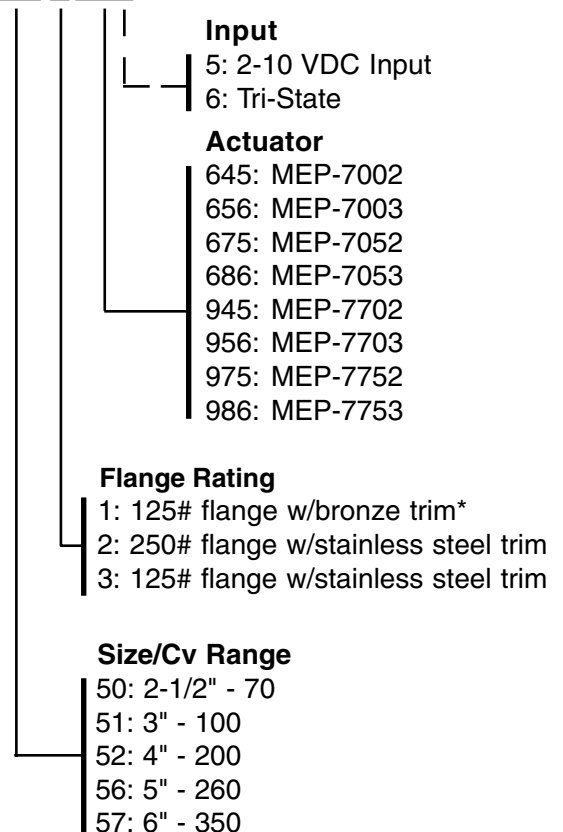
HPO-5088	V-ring packing kit
CME-7001	Single auxiliary switch
CME-7002	Dual auxiliary switch

Models

Use the chart (right) to make your model selection(s):



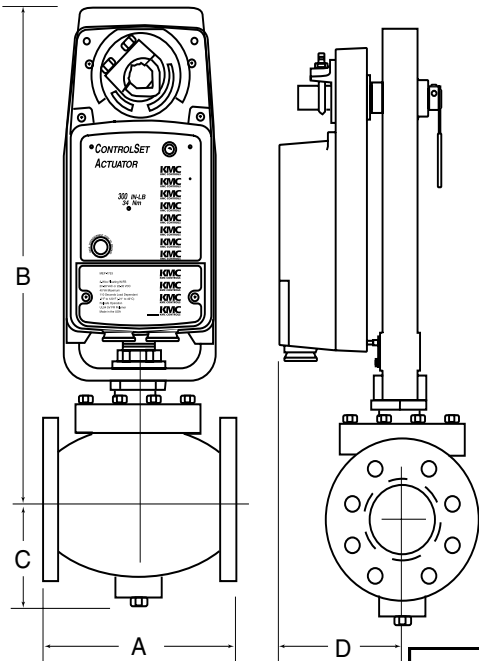
VEP- 55 WW X YYY



* Do not use bronze trim for water service if close-off pressure exceeds 100 PSID, or for steam service if inlet pressure exceeds 40 PSIG.

Details

All dimensions in inches (mm).

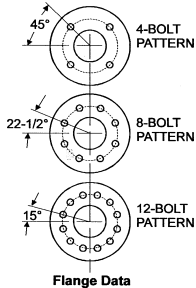


Temperature/Pressure Chart		
Medium Temperature °F (°C)	Body Rating: PSI (kPa)	
	125# Flange	250 # Flange
32° (0) to 150° (66)	175 (1207)	400 (2758)
175° (79)	170 (1172)	385 (2655)
200° (93)	165 (1138)	370 (2551)
225° (107)	157 (1083)	355 (2448)
250° (121)	150 (1034)	340 (2344)

Size	Cv	PSI (kPa) Close-off Rating		Pounds Weight (kg)	
		(1) MEP-7000s	(1) MEP-7700s	125# Flange	250# Flange
2-1/2"	70	593* (4089)	na	40 (18.2)	50 (22.7)
3"	100	469* (3234)	na	50 (22.7)	62 (28.1)
4"	200	307* (2117)	na	85 (38.6)	104 (47.2)
5"	260	na	336* (2317)	136 (61.7)	174 (78.9)
6"	350	na	263* (1813)	181 (82.1)	232 (103.2)

*Not to exceed body rating per chart above.

"G" = Diameter of Holes
"F" = Quantity of Holes
"E" = Bolt Circle Diameter



SIZE	DIMENSIONS											
	All Valves		125# Flanges					250# Flanges				
	B	D	A	C	E	F	G	A	C	E	F	G
2-1/2"	17.13 (435.1)	4.19 (106.4)	7.75 (196.9)	4 (101.6)	5.5 (139.7)	4	0.75 (19.1)	8.38 (212.9)	4 (101.6)	5.88 (149.4)	8	0.88 (22.4)
3"	17.38 (441.5)	4.19 (106.4)	9 (228.6)	4.25 (108)	6 (152.4)	4	0.75 (19.1)	9.75 (247.7)	4.25 (108)	6.63 (168.4)	8	0.88 (22.4)
4"	18.88 (479.6)	4.19 (106.4)	11.38 (289.1)	4.88 (124)	7.5 (190.5)	8	0.75 (19.1)	12 (304.8)	4.88 (124)	7.88 (200.20)	8	0.88 (22.4)
5"	20.06 (509.5)	4.19 (106.4)	12 (304.8)	6.63 (168.4)	8.5 (215.9)	8	0.88 (22.4)	12.88 (327.2)	6.63 (168.4)	9.25 (235.0)	8	0.88 (22.4)
6"	20.94 (531.9)	4.19 (106.4)	14.13 (358.4)	7.38 (187.5)	9.5 (241.3)	8	0.88 (22.4)	14.5 (368.3)	7.38 (187.5)	10.63 (270.0)	12	0.88 (22.4)

Specifications

Action	Stem up: open; Full CCW Stem down: closed; Full CW	Leakage Rate	<0.5%
Rangeability	50 to 1	Actuators	Refer to "Models"
Body Rating	See chart above	MEP-7002	150 in-lb, 2-10 VDC
Valve Sizes	2-1/2" to 6"	MEP-7003	150 in-lb, Tri-State
Body Type	Double seated, flanged connections, ANSI Class 125 or 250	MEP-7052	150 in-lb, 2-10 VDC, Fail-safe
Flow Characteristics	Equal percentage	MEP-7053	150 in-lb, Tri-State, Fail-safe
Cv Rating	See chart above	MEP-7702	300 in-lb, 2-10 VDC
Material		MEP-7703	300 in-lb, Tri-State
Valve	Iron body; 316 Stainless steel stem; Bronze or stainless steel trim; Self-adjusting, V-ring Teflon packing	MEP-7752	300 in-lb, 2-10 VDC, Fail-safe
Actuator	Black flame retardant polymer; UL94-5V plenum rating	MEP-7753	300 in-lb, Tri-State, Fail-safe
Linkage	MEP-7000s Glass-filled nylon; MEP-7700s All metal	Temperature Limits	See Charts above
		Medium	32° to 250° F (0° to 121° C)
		Ambient	35° to 120° F (2° to 49° C)
		KMC Controls, Inc.	
		19476 Industrial Drive	
		New Paris, IN 46553	
		574.831.5250	
		www.kmcccontrols.com	