

## Description

The KMC VEP-569 Series butterfly control valves are 3-way straight through valves for high capacity control of low-pressure hot water, chilled water, or steam applications. The rubber-lined butterfly valves require more actuator operating torque than a metal seat butterfly valve and are to be used when reliable, bubble-tight, shut-off is essential. These valves are ideally suited for 3-way mixing or diverting applications.

These valves are set for a full quarter-turn (90° rotation) for optimum flow characteristics. The unique universal system of brackets and linkage allow for easy field changes.

## Features

- ◆ Reliable, bubble-tight shut-off
- ◆ Ideally suited to 3-way or diverting applications
- ◆ Stainless steel stems
- ◆ Field changeable brackets and linkages

## Accessories

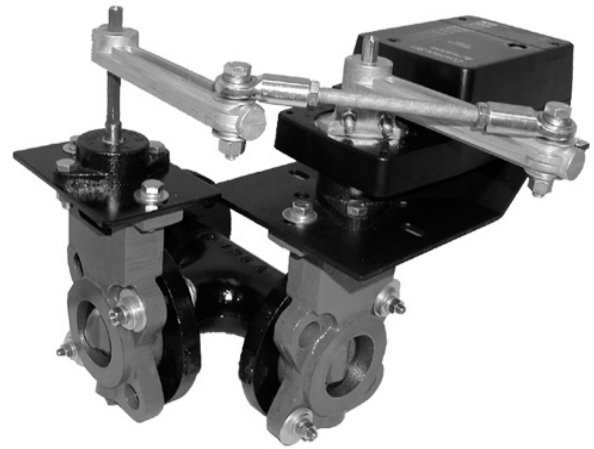
The following accessories are available:

- CME-7001: Single end switch
- CME-7002: Dual end switch

**NOTE:** Consult with the factory when service conditions are higher than 50 psi and when optional valve materials or construction are required.

## Specifications

<b>Valve Size</b>	2" through 12"
<b>Body Type</b>	ANSI 125 & 150 wafer style flange mating. 2"-6" have full lug body alignment holes. 8"-12" have 4 alignment holes.
<b>Body Rating</b>	125# Cast Iron Tee
<b>Flow Characteristics</b>	Linear
<b>Maximum Differential Pressure</b>	50 psi for water (35 psi for steam)



MEP-7000 SERIES ACTUATOR SHOWN

## Cv Rating @ 90%

2"=120; 2-1/2"=194; 3"=430;  
4"= 830; 5"=1500; 6"=1980;  
8" =3870; 10"=6540;  
12"=9800

## Maximum Differential Pressure

50 psi for water  
(35 psi for steam)

## Pressure Drop (PSI) @ 90° Rotation

2"=0.76; 2-1/2"=0.59; 3"=0.29;  
4"=0.23; 5"=0.17; 6"=0.21;  
8"-12"=0.15

## Material

Body	Epoxy coated Cast Iron
Disc	Aluminum Bronze
Seat	EPDM
Shaft	416 Stainless Steel
Bushing	Bronze

## Temperature Limits

Media	25° to 250°F (-4° to 121°C)
Ambient	0° to 120° F (-18° to 49° C)
Shipping	-40° to 140° F (-40° to 60° C)

Freeze protection required for fluid temperatures below 32°F (0°C).

**VEP-569XYZZZ 3-Way Butterfly Valves**

<b>X</b>		<b>Y</b>		<b>ZZZ</b>	
<b>Size</b>	<b>Value for "X"</b>	<b>Actuator Qty. &amp; Size</b>	<b>Value for "Y"</b>	<b>Actuator (Choose one)</b>	<b>Value for "ZZZ"</b>
2"	1	One (1) 150 in-lb. Actuator	1	150 in-lb MEP 7002, 2 to 10 VDC	645
				150 in-lb. MEP-7003, Tri-State, w/FB*	656
2-1/2"	2			150in-lb MEP-7052, 2 to 10 VDC, fail-safe	675
				150 in-lb MEP-7053, Tri-State, fail-safe, w/FB*	686
3"	3	One (1) 300 in-lb. Actuator	1	300 In-lb MEP-7702, 2 to 10 VDC	945
				300 in-lb MEP-7703, Tri-State, w/FB*	956
4"	4			300 in-lb MEP-7752, 2 to 10 VDC, fail-safe	975
				300 in-lb MEP-7753, Tri-State, fail-safe, w/FB*	986
5"	5	Two (2) 300 in-lb. Actuators	2	300 In-lb MEP-7702, 2 to 10 VDC	945
				300 in-lb MEP-7703, Tri-State, w/FB*	956
6"	6			300 in-lb MEP-7752, 2 to 10 VDC, fail-safe	975
				300 in-lb MEP-7753, Tri-State, fail-safe, w/FB*	986
8"	7	One (1) 3500 in-lb. Actuator	1	3500 In-lb, 115 VAC,on/off, NEMA4 rating	585
10"	8			3500 In-lb, 115 VAC, 0-10 VDC, NEMA4 rating	587
12"	9	One (1) 6000 in-lb. Actuator	1	6000 In-lb, 115 VAC,on/off, NEMA4 rating	595
				6000 In-lb, 115 VAC, 0-10 VDC, NEMA4 rating	597

\* w/FB = with Feedback

Using the table (above) determine the "X", "Y" and "ZZZ" values that correspond to your application.

**Examples of valid model numbers:**

**VEP-56911656:** A 2" valve with one MEP-7003 actuator.

**VEP-56962945:** A 6" valve with two MEP-7702 actuators.

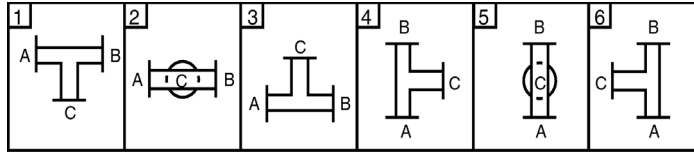
**Examples of invalid model numbers:**

**VEP-56972945:** A request for an 8" valve with two MEP-7702 actuators. The correct part number would be VEP-56971585. An 8" valve with one 3500 in-lb 115 VAC actuator.

**VEP-56961975:** A request for a 6" valve with only one actuator. All 5" and 6" valves must have two actuators. The correct model number should be VEP-56962975.

# Models Continued

## Available "T" Configurations

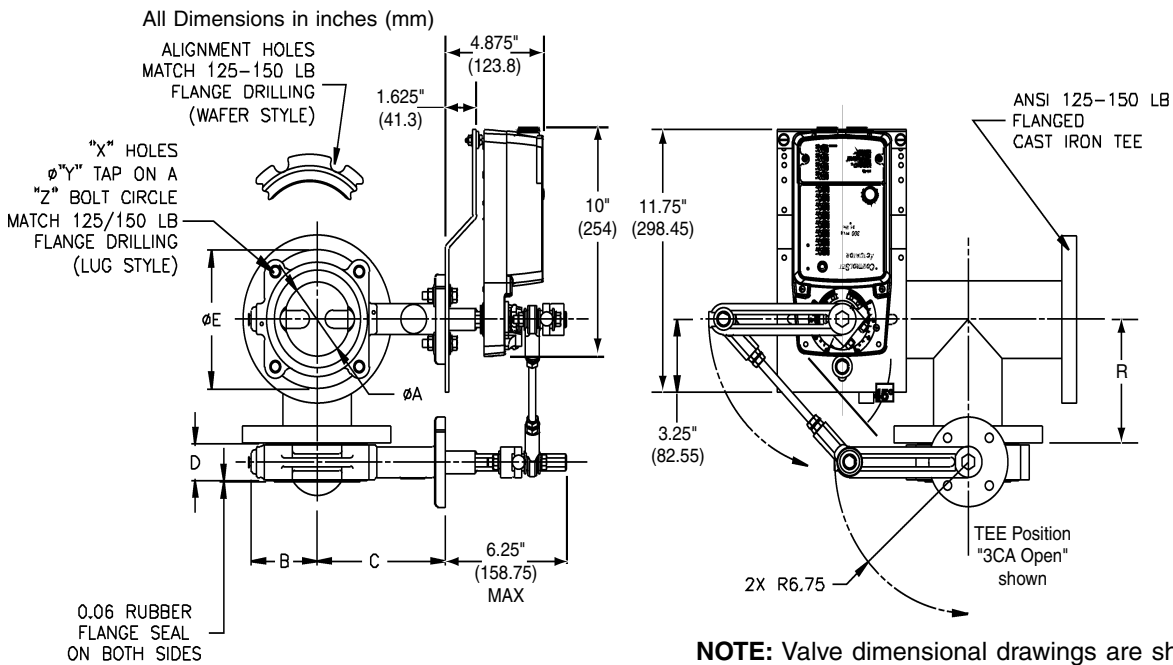


To Select a "T" Configuration:

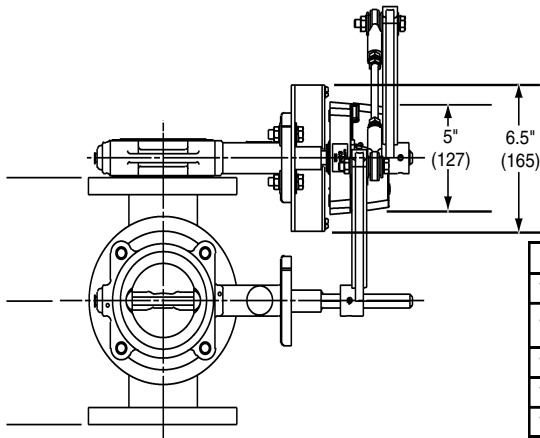
- A. Configurations are based on looking down on "T" and top of shafts.
- B. Power valve is designated by first letter followed by slave, *i.e.* 1BC.
- C. Bracket for power valve is positioned at 12 o'clock.

**NOTE: When ordering specify Model Number AND "T" Configuration.**

## Details



**NOTE:** Valve dimensional drawings are shown with the MEP-7000 series ControlSet™ Actuators. Consult with KMC Controls' Technical Services for dimensional drawings if dual MEP-7000 Series, or 3500 or 6000 IN-LB industrial actuators are required.



MODELS	A	B	C	D	E	F
VEP-56911ZZZ	2" (50.8)	2-7/8" (73.03)	5-3/4" (146.05)	1-5/8" (41.28)	5-15/16 (150.81)	4-1/2" (114.3)
VEP-56921ZZZ	2-1/2" (63.5)	3-1/8" (79.38)	6-1/4" (158.75)	1-3/4" (44.45)	6-11/16 (169.86)	5" (127)
VEP-56931ZZZ	3" (76.2)	3-1/2" (88.9)	6-1/2" (165.1)	1-3/4" (44.45)	7-1/4" (184.15)	5-1/2" (139.7)
VEP-56941ZZZ	4" (101.6)	4-1/2" (114.3)	7-1/4" (184.15)	2" (50.8)	8-3/4" (222.25)	6-1/2" (165.1)
VEP-56952ZZZ	5" (127)	5-5/8" (142.88)	7-3/4" (196.85)	2-1/8" (53.98)	9-7/8" (250.83)	7-1/2" (190.5)
VEP-56962ZZZ	6" (152.4)	6-1/2" (165.1)	8-3/8" (212.73)	2-1/8" (53.98)	11" (279.4)	8" (203.2)
VEP-56971ZZZ	8" (203.2)	7-5/8" (193.68)	9-5/8" (244.48)	2-3/8" (60.33)	12-3/4" (323.85)	9" (228.6)
VEP-56981ZZZ	10" (254)	9-1/8" (231.78)	11" (279.4)	2-3/4" (69.85)	13-3/8" (339.73)	11" (279.4)
VEP-56991ZZZ	12" (304.8)	10-3/8" (263.53)	12-1/2" (317.5)	3" (76.82)	16-1/8" (409.58)	12" (304.8)

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