



MEP-7002, 7052, 7702, 7752 Direct Coupled, Proportional, ControlSet Actuators, 150 and 300 Inch-Pound

Description

The KMC MEP-7002, 7052, 7702, 7752 Control Set Actuators are factory mounted onto VEP-5000 Series flanged or butterfly valves, for use in HVAC systems.

These Actuators accept a 2 to 10 VDC control signal input from a thermostat, controller, or building automation system. A 1 to 5 VDC feedback voltage output is provided. The output is proportional to the control signal. **The MEP-7052 and 7752 include a fail-safe feature.**

A minimum 150 in-lb. of torque is available on the 7002/7052 and a minimum of 300 in-lb. of torque is available on the 7702/7752 over the 94° angular rotation.

A gear disengagement feature allows positioning of the valve/gear train without energizing the actuator. The actuators are protected against overloading and do not require end or limit switches.

The optional fail-safe feature allows selection for the direction of return, and a delay allows full charge before normal operation resumes.

Features

- ◆ Proportional feedback voltage output provided
- ◆ Gear disengagement feature
- ◆ 150 and 300 in-lb. models
- ◆ Built-in overload protection
- ◆ "Fail-Safe" Option

Applications

The MEP-7002/7052/7702/7752 ControlSet Actuators are available on the following KMC valve products:

VEP-5300 Series, 3-Way Mixing Flanged Valves

VEP-5400 Series, 3-Way Diverting Flanged Valves

VEP-5500 Series, 2-Way Double-Seated Flanged Valves

VEP-5800 Series, 2-Way Single-Seated Flanged Valves



VEP-558 Series, 2-Way Metal Seat Butterfly Valves

VEP-559 Series, 2-Way Rubber Lined Butterfly Valves

VEP-568 Series, 3-Way Metal Seat Butterfly Valves

VEP-569 Series, 3-Way Rubber lined Butterfly Valves

Models

The following models are available:

MEP-7002	150 in-lb., 2 to 10 VDC
MEP-7052	150 in-lb. 2 to 10 VDC, Fail-safe
MEP-7702	300 in-lb. 2 to 10 VDC
MEP-7752	300 in-lb, 2 to 10 VDC, Fail-safe

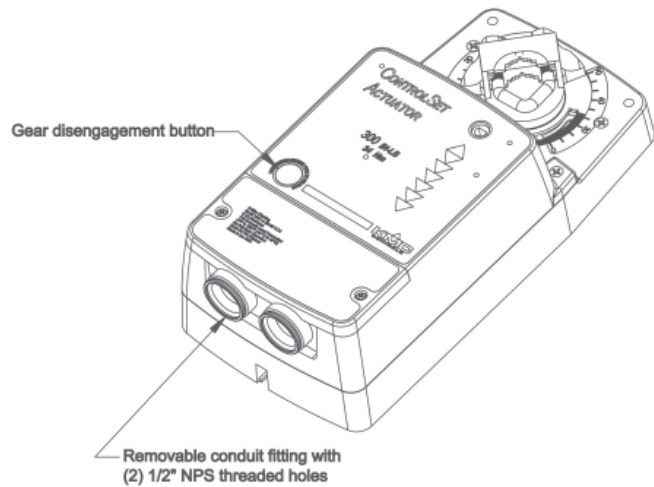
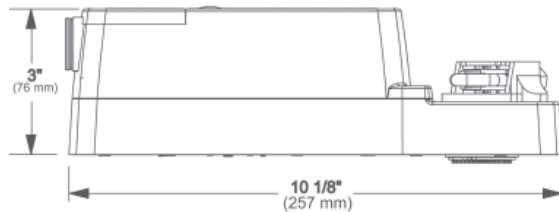
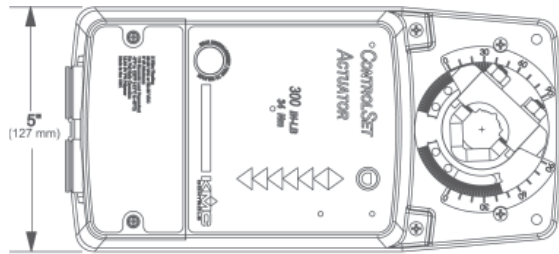
Accessories

The following accessories are available:

CME-7001	Single Auxiliary Switch
CME-7002	Dual Auxiliary Switch
HMO-4528	Replacement "V" bolt and nuts

Details

All dimensions are in inches (mm).



Specifications

Supply Voltage	24 VAC, +20%/-15%, 22-35 VDC
Current Input	
MEP-7002	6 VA
MEP-7702	8 VA
MEP-7052	8 VA (25VA peak initializing)
MEP-7752	10 VA (40 VA peak initializing)
Control Input	2 to 10 VDC
Feedback	1 to 5 VDC
Torque	
MEP-7002/7052	150 in-lb. (17 N•m)
MEP-7702/7752	300 in-lb. (34 N•m)
Angular Rotation	0 to 94°
Motor Timing	110 to 180 seconds, load dependent
Connections	Wire clamp type; 14 to 22 AWG, Copper
Weight	
MEP-7X02	5.0 lb. (2.27 kg)
MEP-7X52	5.4 lb. (2.45 kg)

Fail-safe (MEP-7052/7752 only)	
Direction	Switch selectable CW/OFF/CCW
Charge Delay	Up to 60 second delay for full charge before normal operation
Timing	80 to 130 seconds, load dependent for 90° rotation
Mounting	Actuators supplied factory mounted onto VEP-5000 Series Valves.
Material	Black flame retardant polymer, UL94-5V rated
Noise Level	45 db (A), maximum
Approvals	UL Listed
Temperature Limits	
Operating	-5° to 120°F (-21° to 49°C)
Shipping	-40° to 140°F (-40° to 60°C)

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