

## MEP-7061, 7063, 7761, 7763 Direct Coupled, Fail-safe, Tri-State ControlSet Actuators 150/300 Inch-Pound

### Description

The KMC MEP-7061/7063/7761/7763 fail-safe ControlSet Actuators are designed to regulate large control air dampers and valves in HVAC systems. The 7061 and 7761 have tri-state floating control signal inputs, and the 7063 and 7763 have 3-wire floating control signal inputs with an added feedback potentiometer output.

These actuators mount directly to 3/8" up to 1.05" round or 5/16" up to 5/8" square shafts, eliminating the need for expensive and complicated linkage. These bidirectional actuators may be controlled via a SPDT floating thermostat, controller, or building automation system. A minimum 150 in-lb of torque is available on the 7060 series and a minimum 300 in-lb of torque is available on the 7760 series over the 94° angular rotation.

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

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

### Features

- ◆ Direct mounting to standard shaft sizes
- ◆ Bidirectional motors may be controlled by SPDT floating thermostat or building automation system
- ◆ Gear disengagement feature
- ◆ 150 and 300 inch-pound models
- ◆ Built in overload protection
- ◆ Fail-Safe operation
- ◆ Optionally wire for 2-position operation

### Application

These ControlSet Actuators are intended to control large control air dampers and valves in HVAC systems and are approved for 2-position applications.



### Models

The following models are available:

MEP-7061	150 in-lb tri-state, fail-safe
MEP-7063	150 in-lb tri-state with feedback, fail-safe
MEP-7761	300 in-lb tri-state, fail-safe
MEP-7763	300 in-lb tri-state with feedback, fail-safe

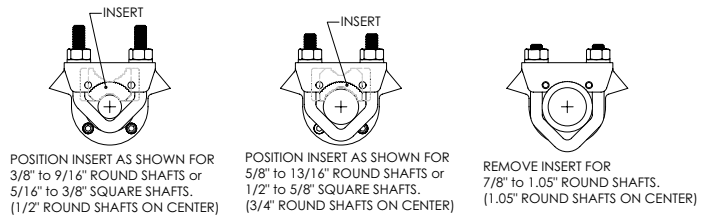
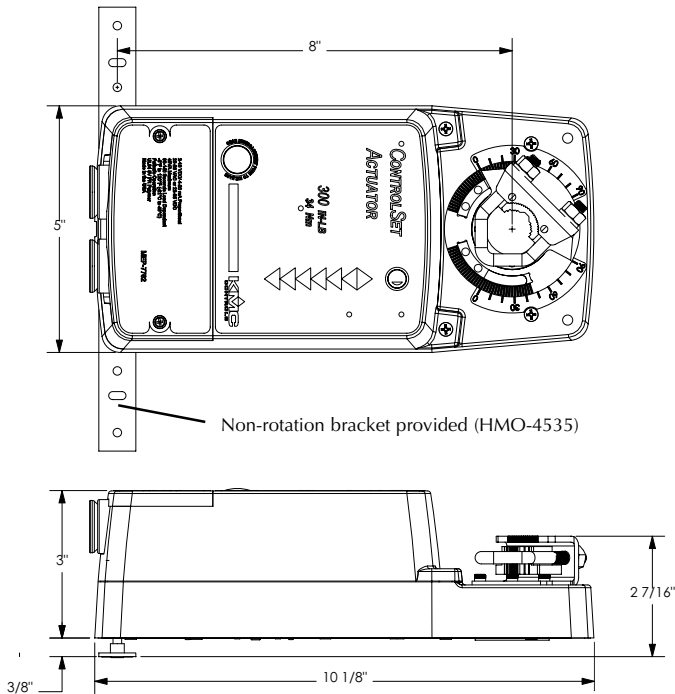
### Accessories

The following accessories are available:

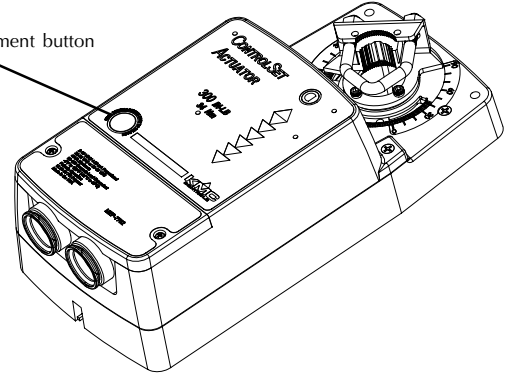
CME-7001	Single Auxiliary Switch
CME-7002	Dual Auxiliary Switch
HMO-4535	Non-rotational bracket
HMO-4536	Stop Kit
HLO-1020	Crankarm Kit
HCO-1152	Weather Shield Kit

## Details

ALL DIMENSIONS ARE IN INCHES



Gear disengagement button



DAMPER TYPE	Up to 1000 FPM	1000 to 2500 FPM	2500 to 3000 FPM
Opposed Blade without seals	3 in.-lb. / sq.-ft	4.5 in.-lb. / sq.-ft	6 in.-lb. / sq.-ft
Parallel Blade without seals	4 in.-lb. / sq.-ft	6.0 in.-lb. / sq.-ft	8 in.-lb. / sq.-ft
Opposed Blade with seals	5 in.-lb. / sq.-ft	7.5 in.-lb. / sq.-ft	10 in.-lb. / sq.-ft
Parallel Blade with seals	7 in.-lb. / sq.-ft	10.5 in.-lb. / sq.-ft	14 in.-lb. / sq.-ft

## Specifications

<b>Supply Voltage</b>	24 VAC, +20%/-15% or 22 to 35 VDC
<b>Supply Power</b>	
MEP-7061/7063	8 VA (25 VA peak initializing)
MEP-7761/7763	10 VA (40 VA peak initializing)
<b>Control Input Floating</b>	Floating: 24 VAC +20%/-15% or 22 to 35 VDC
<b>Feedback</b>	10K ohm, 1/3 watt. (7063/7763 only)
<b>Torque</b>	
MEP-7061/7063	150 in.-lb. (17 N•m)
MEP-7761/7763	300 in.-lb. (34 N•m)
<b>Angular Rotation</b>	94°; fully adjustable with HMO-4536 Stop Kit
<b>Motor Timing</b>	90 to 140 seconds, load dependent
<b>Fail-Safe</b>	
Direction	Switch selectable CW/OFF/CCW
Charge/Delay	Up to 40-second delay for full charge before normal operation
Timing	80 to 160 seconds, load dependant for 90° rotation

## Mounting

Direct to 3/8" to 1.05" round or 5/16" to 5/8" square shaft secured by adjustable "V" bolt and non-rotational bracket. HMO-4535 (supplied). Minimum recommended damper shaft length is 2.5".

## Connections

Wire clamp type; 14 to 22 AWG, Copper

## Weight

5.4 lb. (2.45 kg)

## Material

Black flame retardant polymer, UL94-5V rated

## Noise Level

45 dbA, max.

## 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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