

### Description

These ControlSet Actuators are designed to regulate large control air dampers and valves in HVAC systems. Both accept a 2 to 10 VDC or 4 to 20 mA control signal input from a thermostat, controller, or building automation system. A 1 to 5 VDC feedback voltage output is provided which is proportional to the control signal.

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. A minimum 150 in-lb of torque is available on the 7012 and a minimum 300 in-lb of torque is available on the 7712 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.

### Features

- ◆ Direct mounting to standard shaft sizes
- ◆ Proportional feedback voltage output provided
- ◆ Gear disengagement feature
- ◆ 150 and 300 inch-pound models
- ◆ Built-in auxiliary power supply
- ◆ Built-in overload protection
- ◆ Optionally wire for 2-position operation.

### Application

The MEP-7012/7712 ControlSet Actuators are intended to control large control air dampers and valves in HVAC systems.

### Models

The following models are available:

MEP-7012	150 in-lb, 2-10 VDC
MEP-7712	300 in-lb, 2-10 VDC



### Accessories

The following accessories are available:

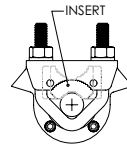
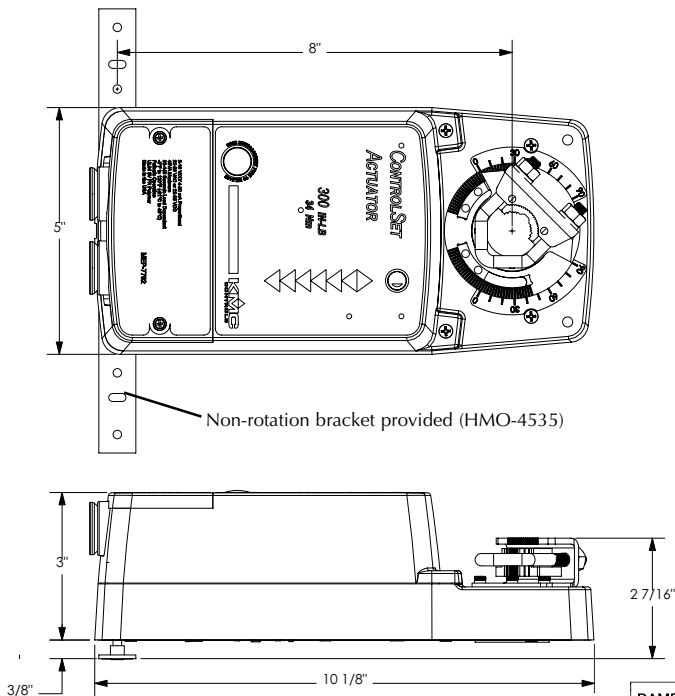
CME-7001	Single Auxiliary Switch
CME-7002	Dual Auxiliary Switch
HMO-4535	Non-rotational bracket
HMO-4536	Stop Kit
HLO-1020	Crankarm Kit
HCO-1152	Weather Shield Kit

### Maintenance

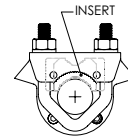
No routine maintenance of this device is required.

## Details

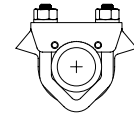
All dimensions are in inches.



POSITION INSERT AS SHOWN FOR  
3/8" to 9/16" ROUND SHAFTS or  
5/16" to 3/8" SQUARE SHAFTS.  
(1/2" ROUND SHAFTS ON CENTER)

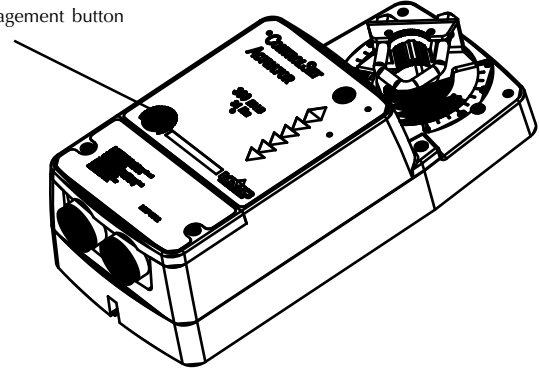


POSITION INSERT AS SHOWN FOR  
5/8" to 13/16" ROUND SHAFTS or  
1/2" to 5/8" SQUARE SHAFTS.  
(3/4" ROUND SHAFTS ON CENTER)



REMOVE INSERT FOR  
7/8" to 1.05" ROUND SHAFTS.  
(1.05" ROUND SHAFTS ON CENTER)

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

**Supply Voltage** 24 VAC, +20%/-15% or 22 to 35 VDC

**Supply Power**

MEP-7012 6 VA  
MEP-7712 8 VA

**Control Input** 2 to 10 VDC or 4 to 20 mA

**Feedback** 1 to 5 VDC

**Auxiliary Power Supply** 18 VDC @ 10 mA

**Torque**

MEP-7012 150 in.-lb. (17 N•m)  
MEP-7712 300 in.-lb. (34 N•m)

**Angular Rotation** 94°; fully adjustable with HMO-4536 Stop Kit

**Motor Timing** 90 to 140 seconds, load dependent

**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 lb. (2.27 kg)

**Material**

Black flame retardant polymer, UL94-5V rated

**Noise Level**

45 dbA, maximum

**Approvals**

UL Listed

**Temperature Limits**

Operating -5° to 120°F (-21° to 49°C)  
Shipping -40° to 140°F (-40° to 60°C)

**KMC Controls, Inc.**

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