

MEP-7062, 7762

Direct Coupled, Fail-safe, Proportional ControlSet Actuators

150/300 Inch-Pound

Description

The KMC MEP-7062/7762 fail-safe ControlSet Actuators are designed to regulate large control air dampers and valves in HVAC systems. Both accept a 2–10 VDC or 4–20 mA control signal input from a thermostat, controller, or building automation system. A 1–5 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 7062 and a minimum 300 in-lb of torque is available on the 7762 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
- ◆ Proportional feedback voltage output provided
- ◆ Gear disengagement feature allows positioning without activating unit
- ◆ 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-7062	150 in-lb 2–10 VDC, fail-safe
MEP-7762	300 in-lb 2–10 VDC, fail-safe

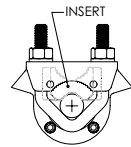
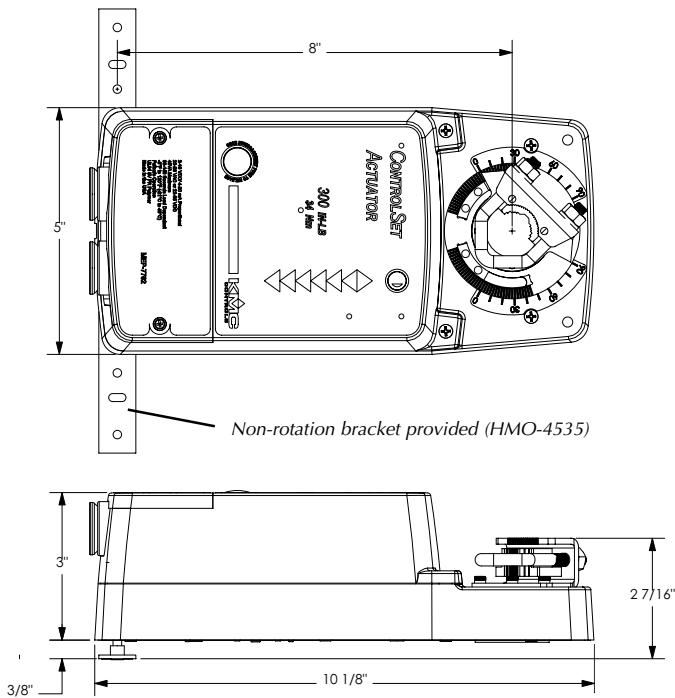
Accessories

The following accessories are available:

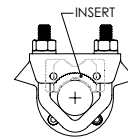
CME-7001	Single Auxiliary Switch
CME-7002	Dual Auxiliary Switch
HMO-4535	Non-rotational bracket
HMO-4536	Stop Kit
HLO-1020	Crankarm Kit
HCO-1152	Weather Shield Kit

Details

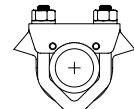
All dimensions are in inches (mm).



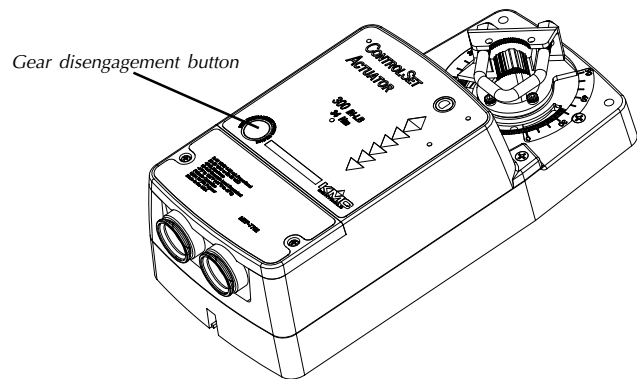
POSITION INSERT AS SHOWN FOR
3/8" to 9/16" ROUND SHAFTS or
5/16" to 3/8" SQUARE SHAFTS.
(1/2" ROUND SHAFTS ON CENTER)



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)



Specifications

Supply Voltage	24 VAC, +20%/-15% or 22 to 35 VDC
Supply Power	
MEP-7062	8 VA (25 VA peak initializing)
MEP-7762	10 VA (40 VA peak initializing)
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-7062 Series	150 in-lb. (17 N•m)
MEP-7762 Series	300 in-lb. (34 N•m)
Angular Rotation	94°; fully adjustable with HMO-4536 Stop Kit
Motor Timing	90 to 140 seconds, load dependent
Fail-Safe	
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, maximum

Approvals

UL Listed

Ambient Limits

Operating

-5° to 120°F (-21° to 49°C)

Shipping

-40° to 140°F (-40° to 60°C)

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