

Description and Application

The economical KMC MEP-1500 series rotary electric actuators are designed to operate variable air volume or other small dampers in HVAC systems.

Models offer four stroke ranges (CW or CCW) of up to a full 360° at 35 to 55 in-lbs. of torque. To accommodate easy installation on typical damper arrangements, models are available that are shipped fully stroked to the clockwise or counterclockwise position. (Unlike most other KMC actuators, these do not have a gear disengagement button.)

The internal magnetic clutch allows the units to be stalled at either end of stroke with no heat rise from the actuator.

They mount directly on 1/2" shaft, or an optional reducer bushing allows them to be used directly with 3/8" damper shafts. Optional auxiliary switches or feedback pots may be field-installed. (For more information, see the data sheets for the CME-1000 and CME-2000 series.)



Features

- ◆ Available in four different stroke ranges (CW or CCW), up to a full 360° (at 18° per minute)
- ◆ Direct mounting to 1/2" shaft or (with optional HFO-0011 adapter) 3/8" shaft
- ◆ Magnetic clutch allows units to stall at either end of stroke without heat rise
- ◆ Auxiliary switch assemblies and position feedback potentiometers may be added in the field

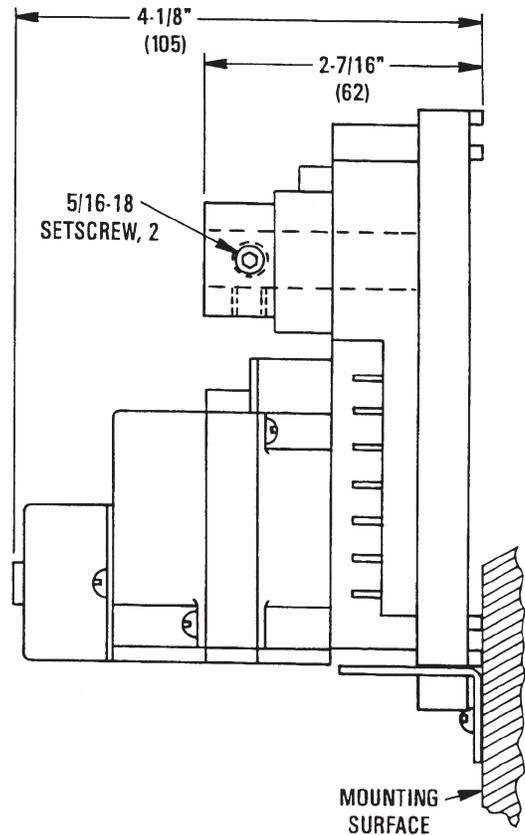
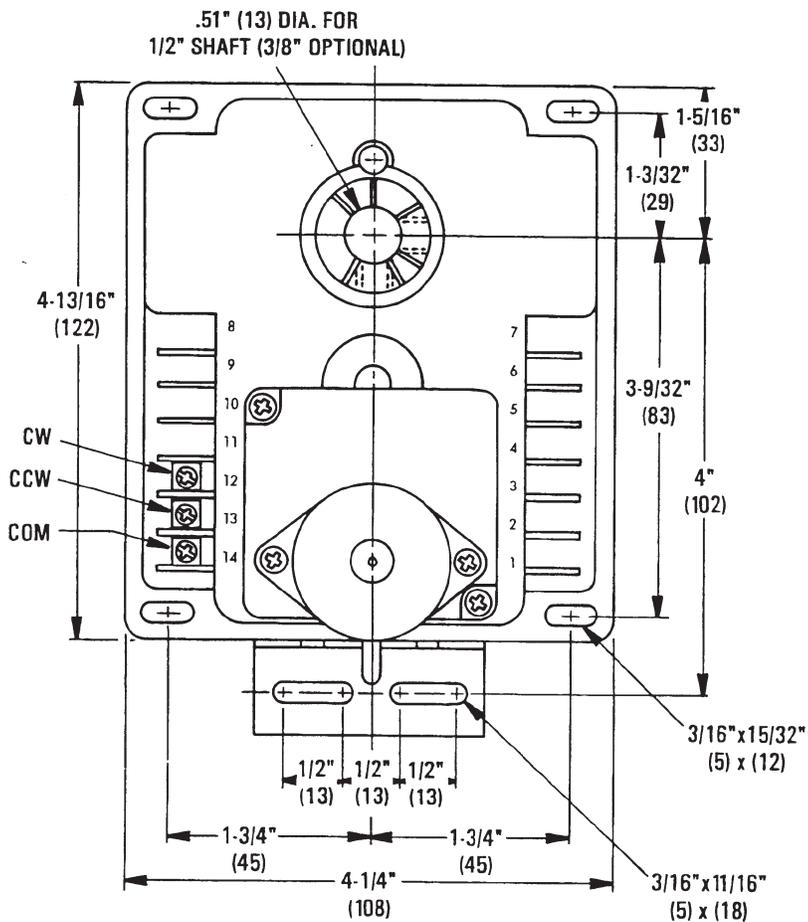
Models

MEP-1501	100°, shipped CW
MEP-1502	60°, shipped CW
MEP-1503	45°, shipped CW
MEP-1504	360°, no stops
MEP-1505	100°, shipped CCW
MEP-1506	60°, shipped CCW
MEP-1507	45°, shipped CCW

Accessories

CME-1001	Single SPDT auxiliary switch, 45 to 60° actuators
CME-1002	Single SPDT auxiliary switch, 100° actuators
CME-1003	Dual SPDT auxiliary switches, 45 to 60° actuators
CME-1004	Dual SPDT auxiliary switches, 100° actuators
CME-2001	10K ohm position feedback potentiometer (7.5K ohm change through 90° rotation)
CME-2002	1K ohm position feedback potentiometer (750 ohm change through 90° rotation)
HFO-0011	3/8" shaft adaptor
HMO-1003	Replacement anti-rotation bracket
HPO-0062	Replacement motor and clutch assembly (for date codes after 9225)

Details



All dimensions are in inches (mm).

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%), tri-state
Input Power	2 VA
Torque	35 to 55 in.-lbs. (4 to 6 N•m)
Angular Rotation	45°, 60°, 100°, and 360°
Stroke Time	18° per minute (2.5 minutes for 45°, 3.3 minutes for 60°, 5.6 minutes for 100°, 20 minutes for 360°)

Connections	Plated screw terminals
Mounting	Direct to 1/2" shaft or (with optional HFO-0011 adapter) 3/8" shaft

Weight	1.2 lbs. (0.54 kg)
Material	Glass-filled nylon
Temperature Limits	
Operating	40 to 120° F (4 to 49° C)
Shipping	-40 to 140° F (-40 to 60° C)

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