

Description

The KMC MEP-455 Series direct-coupled, spring-return actuators are designed to control dampers and valves requiring fail-safe operation.

The MEP-455 series actuators mount to 3/8" to 1" diameter shafts or 1/4" to 3/4" square shafts. The actuators produce 142 in-lbs. of torque, running and spring return minimum, over a maximum 95° rotation.

Two-position, tri-state, and 0 to 10 VDC models are available with pre-cabled wiring and integrated conduit adapter.

Features

- ◆ Direct mounting to common shaft sizes
- ◆ Two-position, tri-state and 0 to 10 VDC models
- ◆ "Failsafe" capability
- ◆ Integrated conduit adapter
- ◆ Pre-cabled wiring

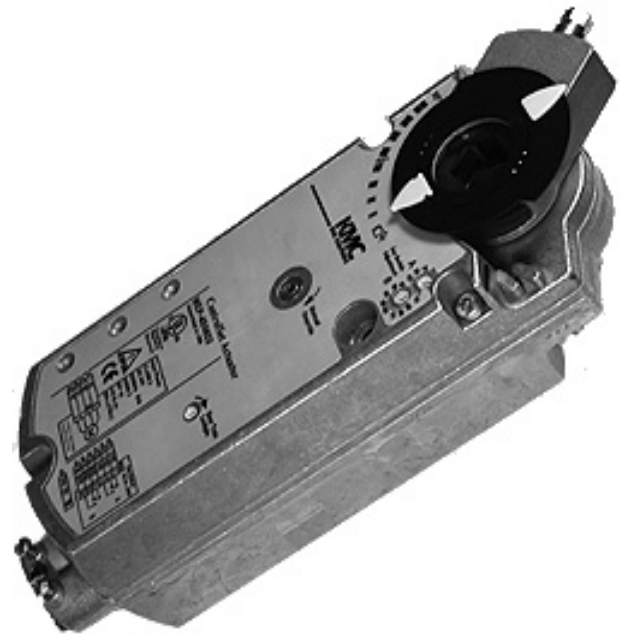
Application

The MEP-425 Series Actuators are intended to control mid-sized dampers and valves requiring fail-safe operation.

Models

The following models are available:

MEP-455100	2-Position, 24 VAC/DC
MEP-455300	2-Position, 120 VAC
MEP-455500	Tri-state
MEP-455600	0 to 10 VDC, w/feedback
MEP-455602	0 to 10 VDC, w/feedback and dual auxiliary switches



Specifications

Supply Voltage

24 V Units	VAC ± 20%, VDC +/- 10%
	50/60 Hz
120 V Units	VAC ± 10%, 50/60 Hz

Current Input

9 VA

Control Input

2-Position	
24 VAC/VDC	MEP-455100
120 VAC	MEP-455300
Tri-State	MEP-455500
0 to 10 VDC	MEP-455600
	MEP-455602

Feedback

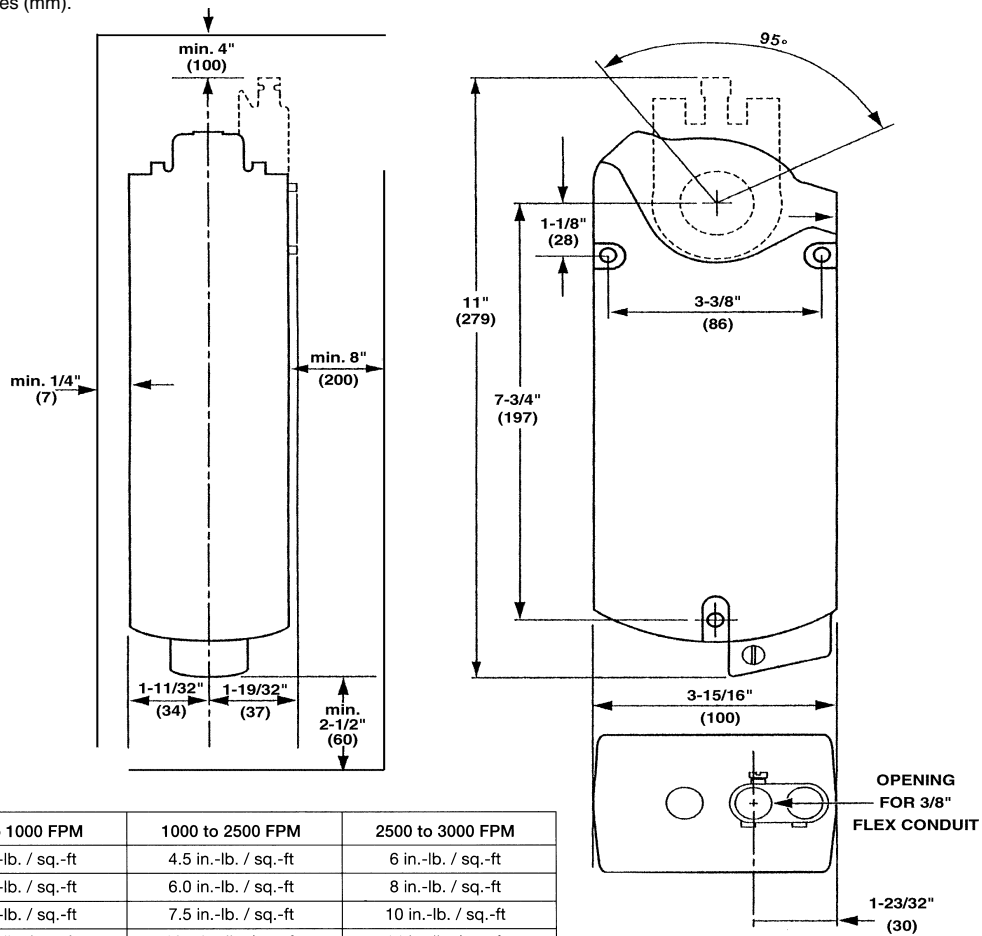
1K Ohm Pot.	MEP-455500
0 to 10 VDC	MEP-455600
	MEP-455602

Torque

142 in-lb. (16 N•m)

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 (continued)

Angular Rotation 90° Nominal (95° Max.)

Motor Timing 90 Seconds

Spring Return Timing

15 seconds, typical

Mounting

Direct to 3/8" to 1" (8-25.6 mm) round, or 1/4" to 3/4" (6-18 mm) square secured by self-centering shaft coupling and non-rotational mounting bracket (supplied with unit). Minimum damper shaft length required is 3/4" (20 mm).

Connections

Pre-cabled, 18 AWG, 3-foot (0.9 m) length.

Enclosure

Die cast aluminum alloy, NEMA 1

Weight

4.85 pounds (2.2 kg)

Dimensions

12" H x 4-3/4" W x 2-7/8" D
(305 mm x 120 mm x 72 mm)

Agency Listing

UL873, C-ULC22.2 No. 24-93
UL 60730 (replaces UL873)

Temperature Limits

Operating -25° to 130°F (-32° to 55°C)
Shipping -40° to 158°F (-40° to 70°C)
Humidity 95% Non-condensing

KMC Controls, Inc.

19476 Industrial Drive

New Paris, IN 46553

574.831.5250

www.kmcccontrols.com