

Installation Guide

Required Tools

- Digital voltmeter
- Small phillips screwdriver
- Small flat-blade screwdriver
- 5/16" hex wrench

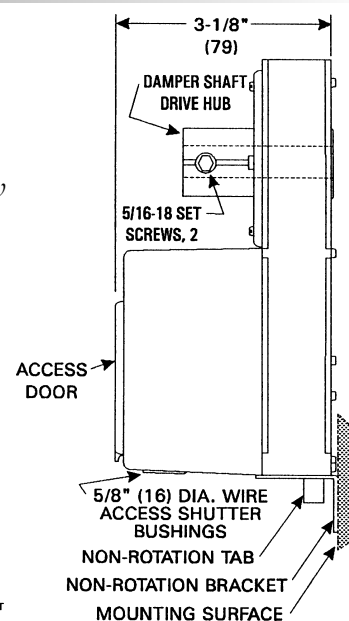
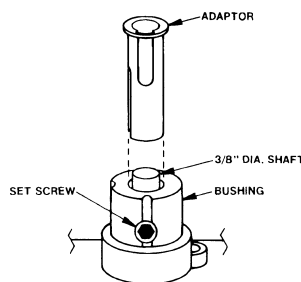
Mounting

1. Set the actuator in the desired location.
2. Place the non-rotation bracket (HMO-1003, supplied) on the actuator's non-rotation tab.
3. Attach the anti-rotation bracket to the mounting surface using two 1/4" self tapping screws (not included).
4. Slide the actuator unit directly on to the standard 1/2" diameter (13 mm) damper or valve shaft. See below for adaptor directions.
5. Tighten the two 5/16"-18 set screws (see diagram).

How to use the HFO-0011 Adaptor

1. Mount the MEP-5000 actuator over the 3/8" shaft.
2. Slide the HFO-0011 over the shaft and into the drive bushing of the actuator.
3. Align the adaptor slots with the set screws on the drive collar.
4. Tighten the set screws.

Actuator Side View

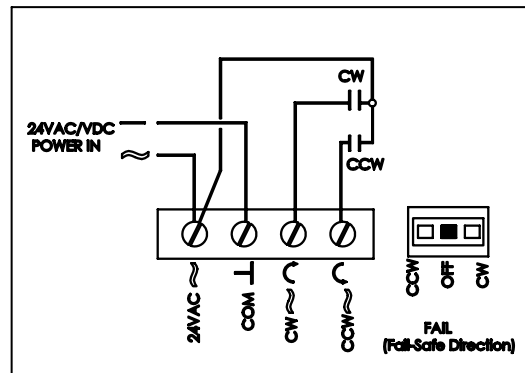


HFO-0011 Adaptor

Wiring

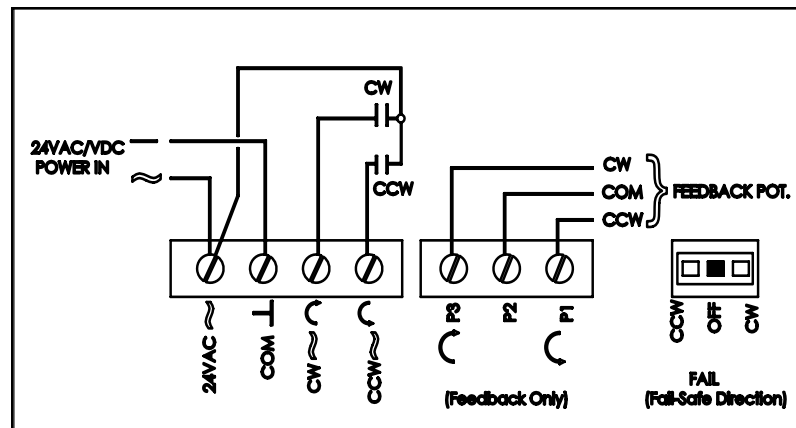
Connect wiring per diagram.

Fail-Safe w/o Feedback



Wiring Detail – MEP-5373

Fail-Safe with Feedback



Wiring Detail – MEP-5374

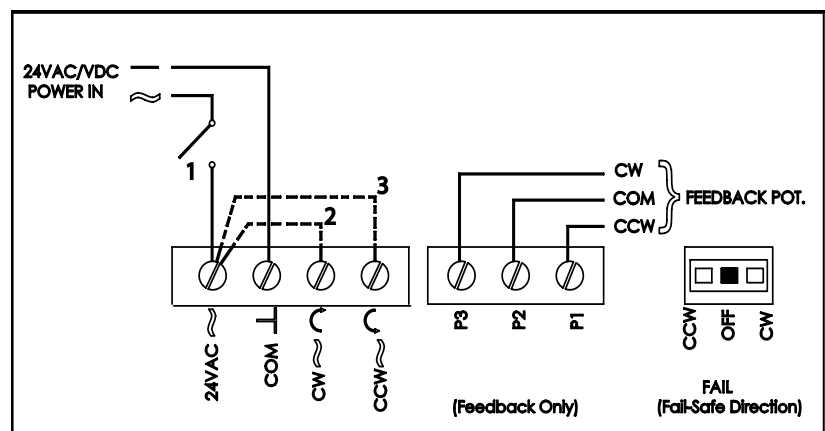
2-Position Wiring for Fail-Safe with Feedback

- ② Jumper 24 VAC to clockwise (CW) terminal and FAIL switch in counter clockwise (CCW) position

- ① Open ↶
- ① Closed ↷

- ③ Jumper 24 VAC to counter clockwise (CCW) terminal and FAIL switch in clockwise (CW) position

- ① Open ↷
- ① Closed ↶



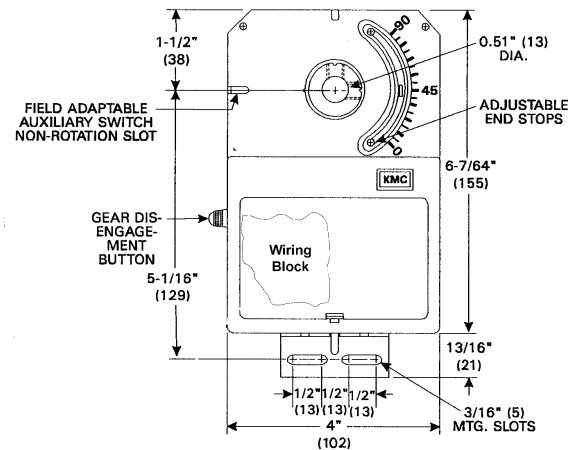
2 Position Wiring Detail – MEP-5374

Adjustments

1. Position the damper, or valve, to the full open position.
2. Determine if rotation must be CW or CCW to close.
3. If rotation is **CW** to close:
 - A. Depress the gear disengagement button.
 - B. Position the drive collar so the indicator is at the "90" mark.
 - C. Tighten the two allen screws.

If rotation is **CCW** to close:

- A. Depress the gear disengagement button
- B. Position the drive collar so the indicator is at the "0" mark.
- C. Tighten the screw.



Front View

CAUTION: Do not depress the gear disengagement push button when the actuator is powered, under load or when the motor is driven against the end stops. Remove power and balance the load BEFORE depressing the push-button.

End Stops

The end stops limit the minimum and maximum travel.

1. Loosen the minimum stop screw one-half turn.
2. Slide the screw to the desired position.
3. Tighten the stop screws (9 in-lb. maximum).
4. Repeat steps 1–3 for the maximum stop screw.

Fail-Safe Function

The fail-safe switch on the MEP-5373 and MEP-5374 is factory set in the "Off" position. Select either "CW" or "CCW" on the 3-position switch to choose the direction the actuator will rotate when power is lost.

Maintenance

No routine maintenance is required.

The motors are permanently lubricated and all internal gear-train component are oil-impregnated. Careful installation will also ensure long term reliability and performance.

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