

Installation Guide

Mounting

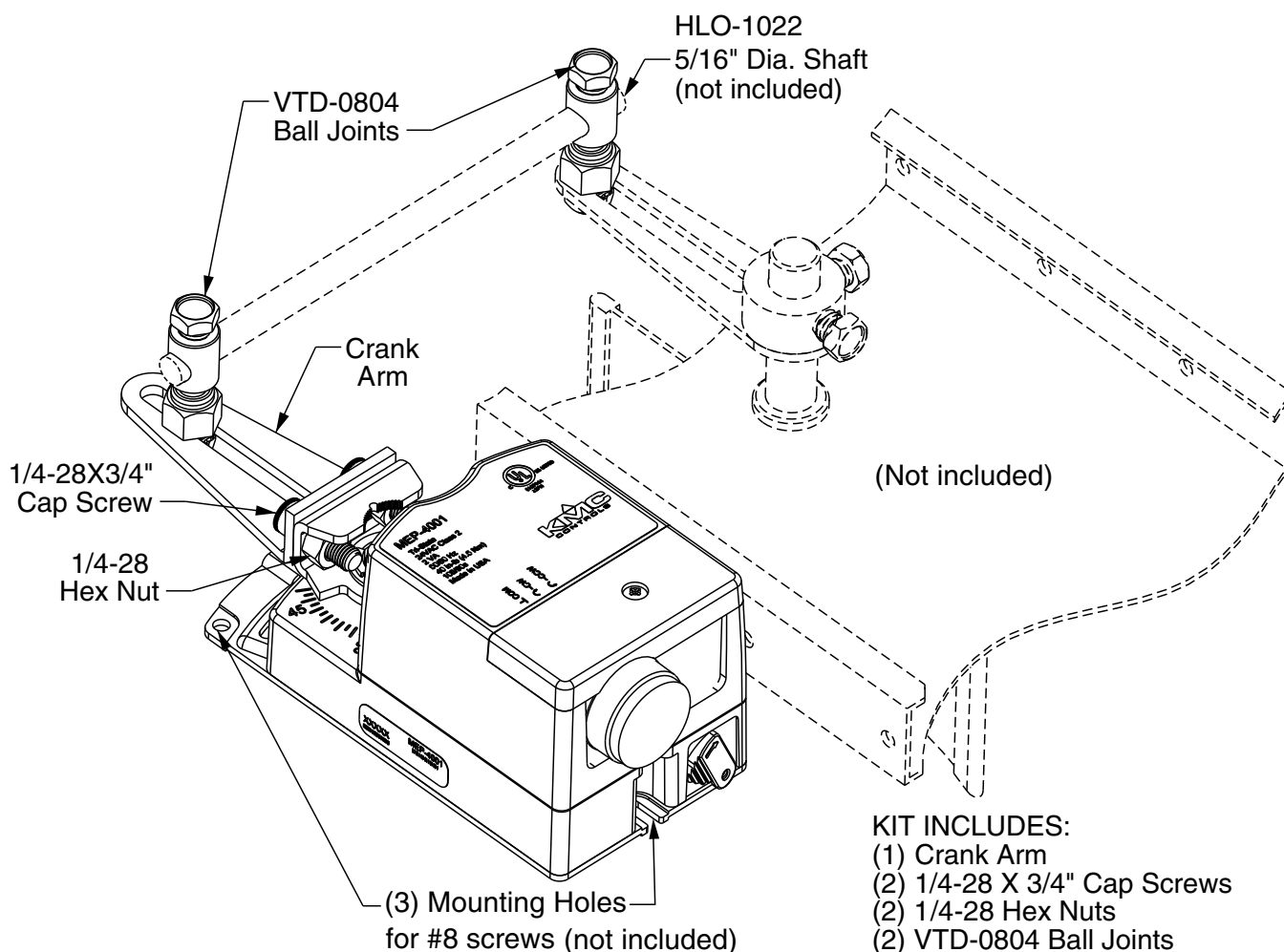
1. From the MEP-4xxx actuator, remove and discard the V-bolt.
2. Assemble and install the kit and actuator as shown in the diagram below.

NOTE: In general, **position both the ball joints as close to the end of the crank arms as is feasible** for the application. Positioning a ball joint in the slot closer to the shaft will change the torque, rotation speed, and/or angle of rotation—which may be useful for some applications.

NOTE: Check for potential issues such as binding of the linkage or damage caused by the actuator still rotating when the damper (or other application) is already closed.

NOTE: See [Accessories on page 2](#) for an **auxiliary crank arm** if the damper or other equipment does not have one already installed.

NOTE: For more information about installing MEP-4xxx actuators, see the **MEP-4xxx Actuators Applications Guide** on the KMC Controls website (www.kmccontrols.com) as well as the relevant installation guide.



Maintenance

Under normal conditions, no routine maintenance is required. In harsh environments, however, periodic lubrication of the ball joints may be necessary.

Each component is designed for dependable, long-term reliability and performance. Careful installation will also help ensure long-term reliability and performance.

Accessories

Auxiliary Crank Arms



VTD-1403* Short slotted, for 3/8" shafts, pack of 5

VTD-1404* Short slotted, for 1/2" shafts, pack of 5

VTD-1405* Long slotted, for 1/2" shafts, pack of 5

VTD-1406* Long slotted, for 3/8" shafts, pack of 5

***NOTE:** In the VTD-1403/1404 short crank arms, a ball joint can be adjusted from 3/4 inches (minimum) from the center of the shaft to 2-7/8 inches (maximum) from the center. In VTD-1405/1406 long crank arms, the maximum is 4-5/8 inches.



VTD-1414 3-hole, for 3/8" shafts, pack of 5

VTD-1415 3-hole, for 1/2" shafts, pack of 5



HLO-1021 Crankarm; damper blade, 6"

Drive Shafts

HLO-1022 Drive shaft, 5/16 dia. x 16", pack of 5



Replacement Ball Joints



VTD-0804

Ball joint for side-mounted 5/16" diameter rods (1/4-20 male mounting stud with locknut)

More Information

For additional information about installing MEP-4xxx actuators, see the **MEP-4xxx Applications Guide** on the KMC controls website (www.kmcccontrols.com) as well as the relevant installation guide.

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