

**TECHNICAL MANUAL**  
**MODEL D80 HANDWHEEL OVERTORQUE CLUTCH**  
**STOP ACTUATOR DAMAGE**

**THE MODEL D80 *HANDWHEEL OVERTORQUE CLUTCH*™ PREVENTS ACTUATOR DAMAGE  
CAUSED BY EXCESSIVE OPERATING TORQUE.**

**Purpose**

The purpose of the Model D80 Overtorque Clutch is to prevent damage caused by excessive handwheel torque.

**Applications**

Valves, actuators and other handwheel-actuated equipment.

**Function**

The Model D80 is mounted on the actuator shaft between the actuator and handwheel. Handwheel torque is transmitted from the handwheel through the Model D80 to the actuator or valve. The D80 will transmit operating torque but will not transmit torque greater than its pre-set limit.

**Capacities and Ranges**

Trip Torque :	0 to 140 Nm [ 0 to 100 lbft ]	<i>Higher torque capacity models are available.</i>
Operating Temperature :	-25° to 100° C [ 0° to 250° F ]	<i>Higher and lower temperature models are available.</i>
Max standard bore & shaft ø :	ø 30 mm [ ø 1.181 in ]	<i>Larger end connections are available</i>

**Mounting**

Mount the D80 on the actuator or valve shaft. Mount the handwheel on the D80 shaft.

**Calibration**

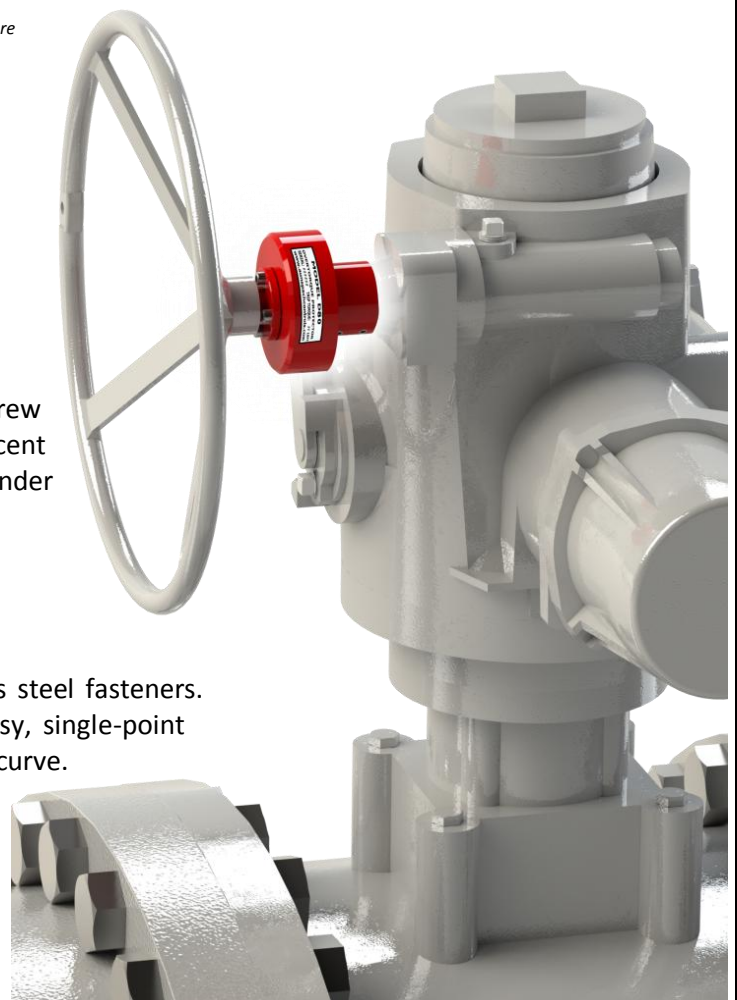
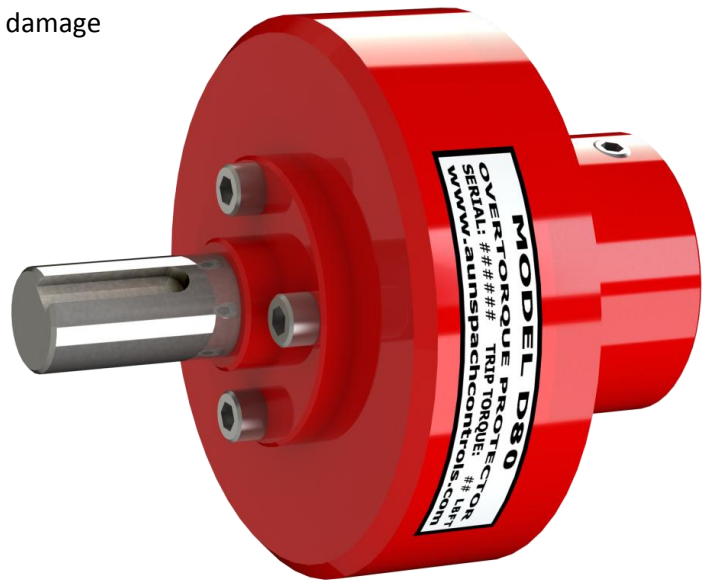
Turn the calibration screw inward to increase trip torque or outward to decrease. A given amount of calibration screw rotation will change the trip torque by about the same percent anywhere in the range. The calibration screw is concealed under the handwheel-mounting shaft to discourage tampering. See page 2 for calibration curve.

**Features**

Water Tight: IP 68 to 70 meters (230 feet) submersion.  
Corrosion protected: Fusion-bonded epoxy coated. Stainless steel fasteners.  
Permanently-lubricated, hermetically-sealed mechanism. Easy, single-point calibration. Convenient, “equal percentage” calibration curve.  
Concealed calibration screw to discourage tampering.

**Maintenance**

No maintenance is required.



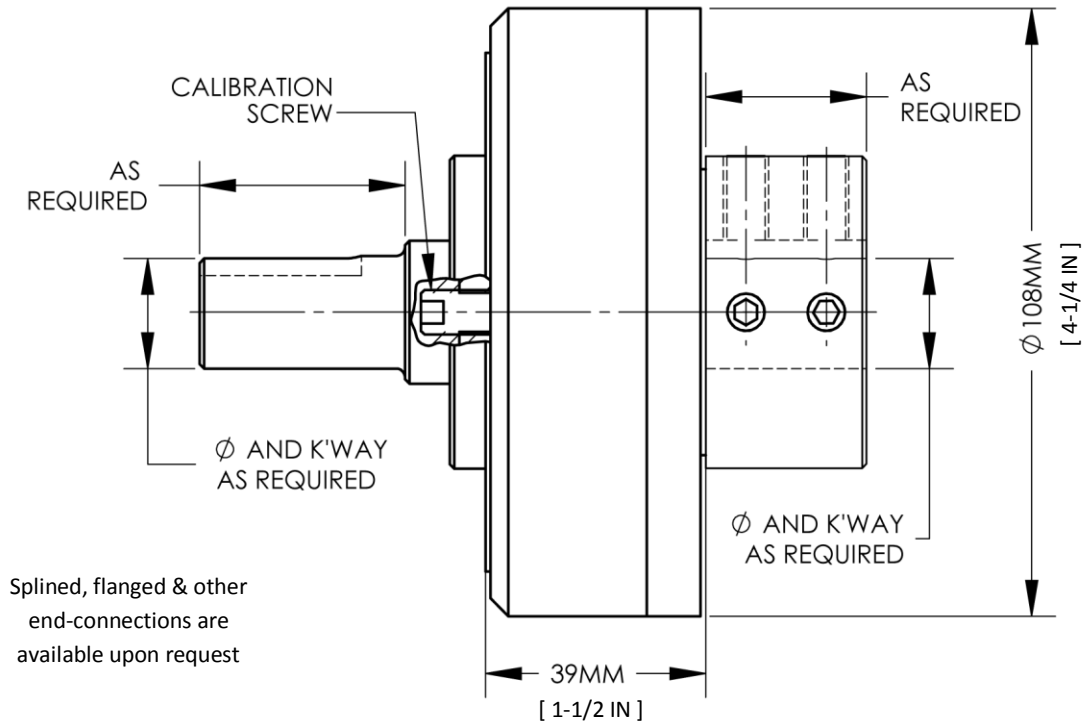
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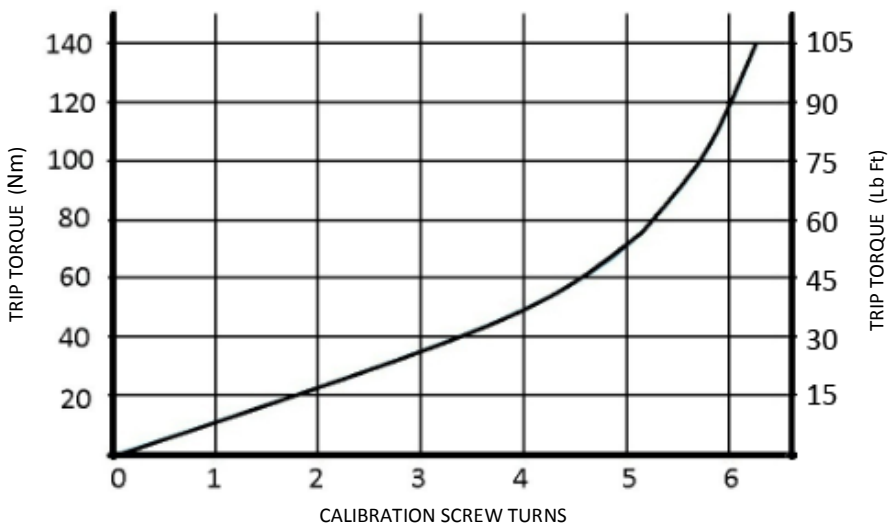
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Envelope Dimensions



Trip Torque vs Calibration Screw Position



Calibration

Turn the calibration screw inward to increase trip torque or outward to decrease. A given amount of calibration screw rotation will change the trip torque by about the same percent anywhere in the range. The calibration screw is concealed under the handwheel-mounting shaft to discourage tampering

The calibration information above is representative of all standard D80 Models. Contact factory if more precise calibration of individual units is desired.



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