# MODEL D80

## HANDWHEEL OVERTORQUE CLUTCH

### <u>Purpose</u>

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 <u>will not</u> transmit torque greater than its pre-set limit.

# **Capacities and Ranges**

Trip Torque : Operating Temperature : Max standard bore & shaft ø :

[ 0 to 100 lbft ] -25° to 120° C [ -10° to 250° F ] ø 30 mm [ ø 1.181 in ]

0 to 140 Nm

Higher torque capacity models are available.

Higher and lower temperature models are available.

Larger end connections are available

# Mounting

D80 comes pre-machined to fit your application and ready to mount without modifications or special tools. Simply remove the handwheel. Mount the D80 on the actuator or valve shaft. Mount the handwheel on the D80 shaft.

# **Calibration**

D80 comes pre-calibrated specifically for your application. Field calibration can be performed if needed by turning the calibration screw inward to increase trip torque or outward to decrease.

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.
- · Concealed calibration screw to discourage tampering.

#### **Maintenance**

No maintenance is required.

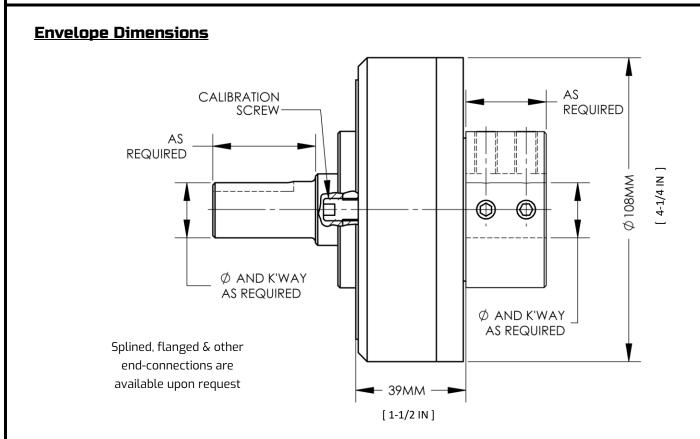
Aunspach Controls Company, LLC
4648 Russell Court, Ste. A, High Ridge, MO 63049

🕻 (636) 376-2395 | 🕮 (314) 576-7587 | 🍑 <u>sales@aunspachcontrols.com</u>

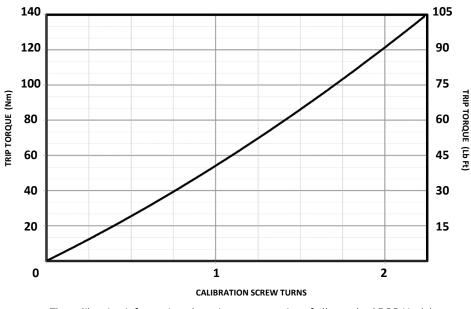


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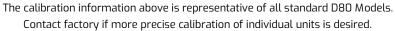
# **Trip Torque vs Calibration Screw Position**



## **Calibration**

Turn the calibration screw inward to increase trip torque or outward to decrease.

The calibration screw is concealed under the handwheel-mounting shaft to discourage tampering.



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