

TECHNICAL MANUAL

MODEL D87-250 HANDWHEEL OVERTORQUE PROTECTOR

PURPOSE

Model D87-250 Valve Overtorque Protectors prevent valve damage caused by use of excessive operating torque.

OPERATION

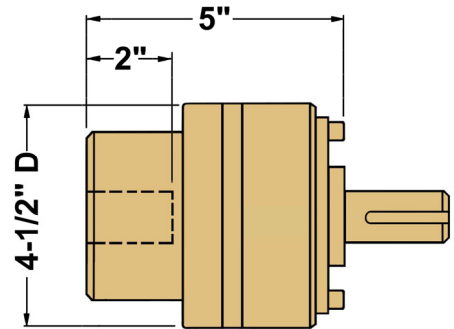
Operating torque is applied to the shaft. The torque is transmitted through the D87 mechanism and into the valve/actuator. If excessive torque is applied, the D87 drive will disengage and prevent damage. Operation is the same in either direction of rotation. Re-engagement is automatic.

CONSTRUCTION

The mechanism is permanently lubricated and hermetically sealed inside a rugged cast-iron housing that is corrosion protected by epoxy coating.

DIMENSIONS and MOUNTING

The unit is mounted directly on the valve/actuator input shaft. No special tools or valve/actuator modifications are required. To mount: Place D87 on the valve/actuator input shaft and tighten the two stainless steel mounting screws.



SHAFT & BORE AS SPECIFIED

END CONNECTIONS

Input: Shaft as required. Output: Bore as required

OPERATING RANGES

Trip Torque: 100 to 250 lbft

Temperature: -20 F to 200 F (Higher temperature models available)

TRIP TORQUE ADJUSTMENT

Units are shipped full calibrated and ready to mount. The trip torque calibration screw is concealed to prevent tampering. Trip torque can be adjusted by the following procedure:

1. Remove the shaft from the bonnet to expose the calibration screw.
2. Rotate the calibration screw inward (CW) to increase trip torque, or outward (CCW) to decrease. One-sixteenth revolution will change trip torque about 10 lbft.
3. After calibration put a drop of Loctite 290 liquid on threads. Replace shaft.



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