

GEARBOX OVERTORQUE CLUTCH

PREVENT GEARBOX DAMAGE

Purpose

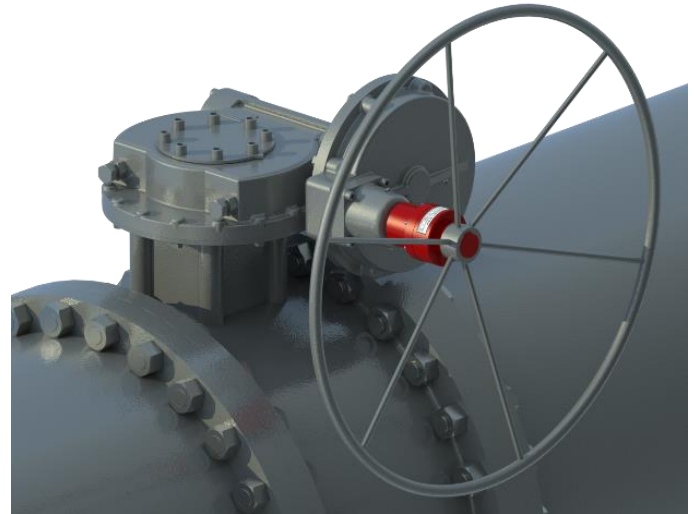
Model D87 Valve Overtorque Clutches prevent valve damage caused by use of excessive operating torque.

Applications

Valves and other equipment driven by manual gearboxes or electric actuators.

Operation

Operating torque is applied to either end of the D87. The torque is transmitted through the D87 mechanism and into the valve or 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 with further rotation in either direction.



Construction and Corrosion Protection

The mechanism is permanently lubricated and hermetically sealed inside a rugged steel housing. The D87 features stainless-steel fasteners and is corrosion protected by fusion-bonded epoxy, with industrial enamel topcoat for ultraviolet protection.

Maintenance

No maintenance is required.

Mounting and Dimensions

The unit is mounted directly on the valve, actuator or gearbox input shaft - either between the actuator and handwheel, or between the actuator and valve. No special tools or valve/actuator modifications are required.



Capacities & Ranges

Trip Torque:

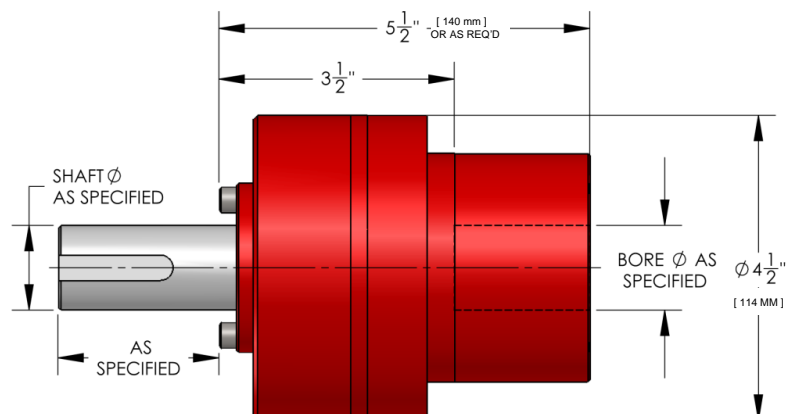
D87-250	75 lbft to 250 lbft	(100 Nm to 340 Nm)
D87-500	100 lbft to 500 lbft	(135 Nm to 680 Nm)

Higher and lower torque capacity models are available.

Operating Environment

Operating temperature: -20° F to 200° F.
Suitable for buried and submerged service.

Higher and lower temperature models are available.



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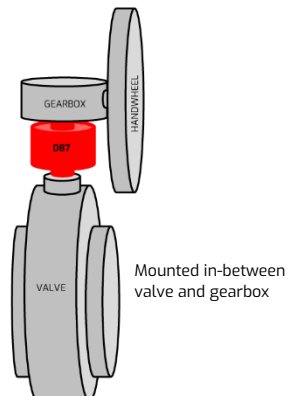
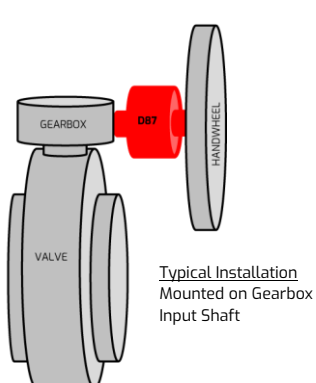
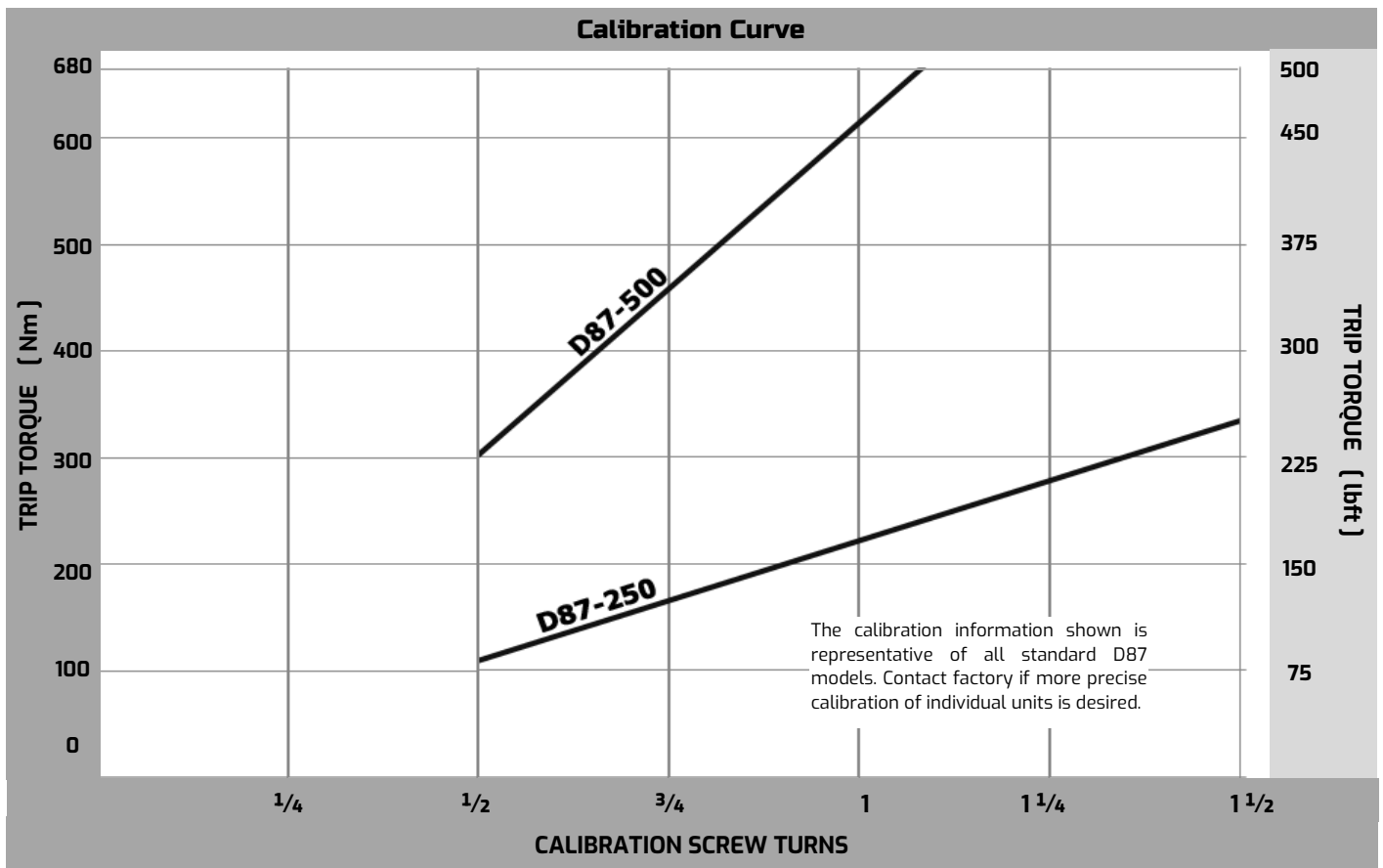
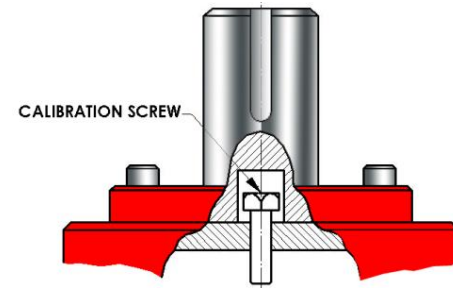
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Trip Torque Adjustment

Units are shipped fully 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 housing to expose the calibration screw.
2. Rotate the calibration screw inward (CW) to increase trip torque, or outward (CCW) to decrease. Reference Calibration Curve.
3. After calibration put a drop of Loctite 290 liquid on threads.
4. Replace shaft.



Configuration Options

The Model D87 is typically mounted on the gearbox input (handwheel) shaft. This is the most cost-effective solution and provides overtorque protection to all equipment downstream.

If required, the D87 can be installed between the valve and gearbox. This can be helpful in applications where the gearbox is not properly sized for the valve.



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