



Stealth International Inc.

THE "APPLICATION" SOLUTION COMPANY

TORQUE OVERLOAD PROTECTION

OVERTORQUE PROTECTORS™ PREVENT VALVE / ACTUATOR DAMAGE. REPAIR / REPLACEMENT COSTS and SYSTEM DOWNTIME ARE AVOIDED.

Units transmit full operating torque. If excessive torque is applied, the drive will disengage automatically and prevent damage.

Re-engagement is automatic.
Operation is the same in either direction of rotation.

Suitable for:
Gate Valves
Butterfly Valves
In Plant & Buried Service



- **POSITIVE PROTECTION**
- **ZERO MAINTENANCE**
- **LONG LIFE**
- **KEYED CONNECTIONS**
- **ADAPTABLE FOR CHAMBER**
- **REMOVABLE HANDWHEELS**

AWWA VALVE OVERTORQUE PROTECTORS™



Application: Models **D86-250** and **D86-500** provide positive overtorque protection and prevent damage to valves and other equipment actuated through standard AWWA 2-inch square operating nuts. Other end connections are available.

Operating History: Model **D86** units have operated reliably since 1987 in buried service and above ground in locations from northern Canada to southern United States.

Operation: Operating torque is applied to the D86 square nut and transmitted to the valve thru the D86. The D86 will transmit full operating torque, but will not transmit excessive torque that would damage the valve. If excessive torque is applied, the D86 drive mechanism will disengage and prevent damage. Re-engagement is automatic. Operation is the same in either direction of rotation.

Maintenance: No maintenance is required.

Operating Temperatures: -20 to 200 F.
Higher and lower temperature models are available.

Construction: Heavy-duty, tapered-roller drive mechanism is permanently lubricated and hermetically sealed inside a rugged cast iron housing that is corrosion protected by epoxy coating inside and outside.

Mounting: Units are easily mounted in the field or shop. To mount: place on the valve operating nut and tighten the two stainless steel mounting screws.

Torque Capacities: Model **D86-250:** 25 to 250 lbft. Model **D86-500:** 50 to 500 lbft.
Higher capacity models are available.

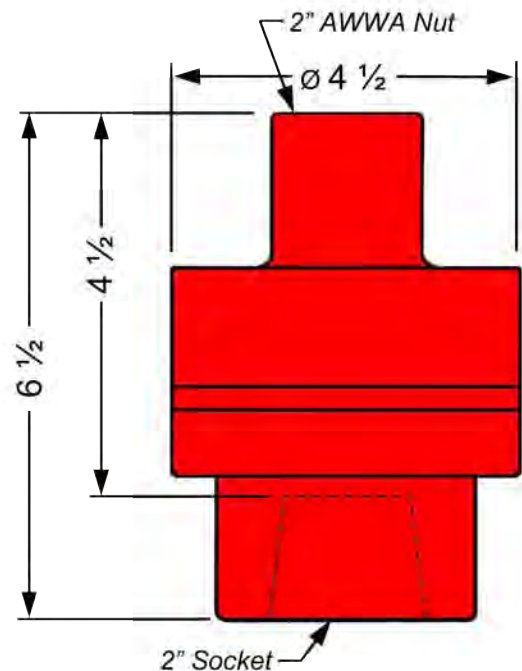
Trip Torque Adjustments: Trip torque can be adjusted in the shop or field. The adjusting screw is sealed and concealed to prevent tampering. See **Model D86** Technical Manual for calibration instructions.

Buried Service: Model **D86** units are designed for buried and submerged service. They have performed reliably in those applications since 1987.

Standard Trip Torques:

AWWA Valve Style	Valve Size	Industry Standard Trip Torque
Butterfly	3 thru 72 inch	200 lbft
Ball	6 thru 48 inch	200 lbft
Resilient Seat Gate	3 thru 4 inch	150 lbft
	6 thru 48 inch	200 lbft
Hard Seat Gate	3 thru 4 inch	150 lbft
	6 thru 12 inch	200 lbft

Consult factory for larger sizes and valve types not listed



HANDWHEEL OVERTORQUE PROTECTORS™

Applications: Handwheels and couplings. Manual actuators. Power actuator overrides.

Operation: Applied torque is transmitted through the *Overtorque Protector™*. If excessive torque is applied, the *Overtorque Protector™* will prevent damage by limiting the transmitted torque to a pre-set amount. Re-engagement is automatic. Operation is the same in either direction of rotation

Maintenance: No Maintenance is required.

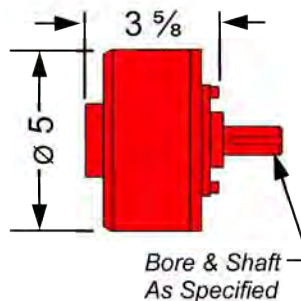
Operating Temperatures: -20 to 200 F. Higher and lower temperature models are available.

Construction: Heavy-duty mechanisms are permanently lubricated and hermetically sealed inside rugged housings and corrosion protected by epoxy coating and stainless-steel components.

End Connections: Bores and shafts with keyways, cross drills or splines. AWWA Nuts or sockets. Other end connections are available.

Trip Torque Adjustments: Trip torques are field adjustable. See Model D82 Technical Manual.

MODEL D82, Shaft or Coupling Applications

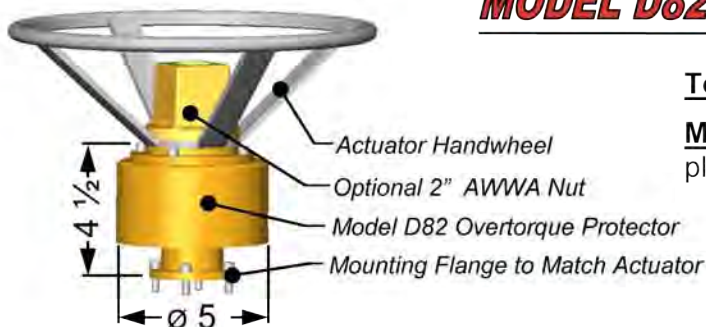


Typical Mounting

Maximum Standard Bore: 1.25 inch. Larger available **Torque Capacity:** 5 to 100 lbft

Mounting: Mount D82 in place of handwheel. Mount handwheel on D82 shaft.

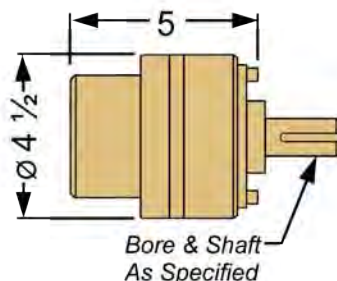
MODEL D82TM, Electric Actuator Top Mounted



Torque Capacity: 5 to 100 lbft standard. Higher available.

Mounting: Remove handwheel and mount D82TM in its place. Re-mount handwheel on D82TM.

MODEL D87, Shaft or Coupling Application



Torque Capacity: D87-250: 100 to 250lbft
D87-500: 250 to 500lbft
Higher trip torques available

Max Standard Bore: 1.75 Inch . Larger available.

Mounting: Remove handwheel and mount D87 In its place. Re-mount handwheel on D87.
Shaft-to-shaft application: Mount as Coupling.

OTHER PRODUCTS and APPLICATIONS



D82-INT
For assembly into
electric actuator



D87N
Nuclear plant
application



D86 MWR-400-DM
Direct mounting on
valve stem



D82-LO
Interlock disc



D86 MWR-400
1-3/4" Operating
nut and socket



D86CH-250
2-1/2" Operating nut
and socket



D71-2000
Shaft - to - shaft or
chain drive



D75MR-2000
High Speed Application

This product solves customer issues regarding actuation. Our engineers will modify existing products or develop new ones to accommodate your requirements. With over 100 hundred years of combined experience we develop many kinds of products for severe and/or unusual applications. Let us know how we can help you.

Ask about our other products:

- Stealth Avenger Butterfly Valve
- Stealth STJ Damper Valves
- Deflector Valves



- IBC Energy Dissipating Valve
- Cyclic Valves
- Knife Gate Valves

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