

TORQUE PROTECTION

VALVES - GEARBOXES - ACTUATORS

PREVENT OVERTORQUE DAMAGE

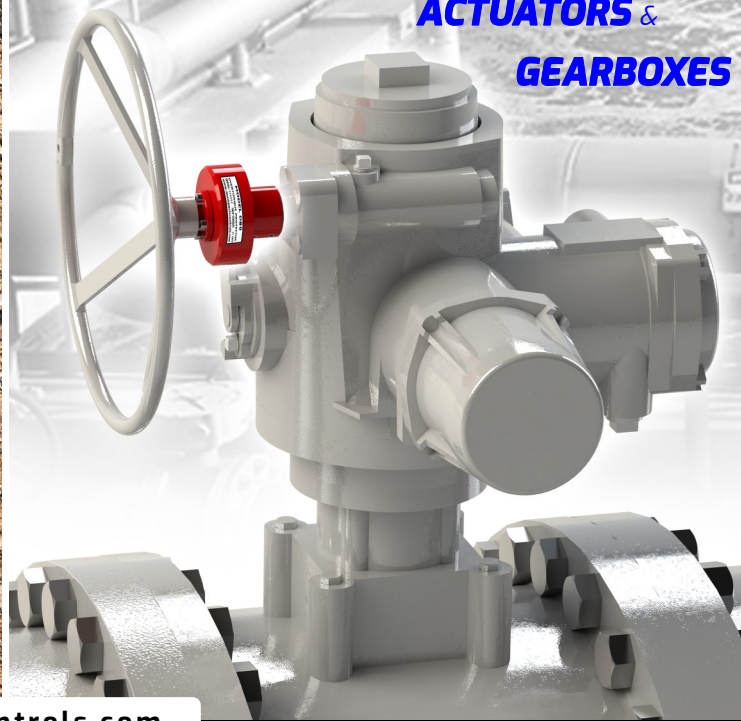
- Automatically disengages drive upon overload
- Automatically re-engages when safe
- ZERO Maintenance
- Reliable, Precise & Rugged
- Exceeds IP68 standard. Operates Buried & Submerged
- Turn-Key, Ready to Mount, No Modifications



PROTECTION
FOR
VALVES



PROTECTION FOR
ACTUATORS &
GEARBOXES



What We Do

We manufacture high-performance, predictable and reliable *POSITIVE-ACTION OVERTORQUE RELEASE CLUTCHES*, and specialize in serving the valve, gearbox, actuator and machinery markets - offering the highest quality products and support. We offer turn-key solutions for new and retrofit applications.

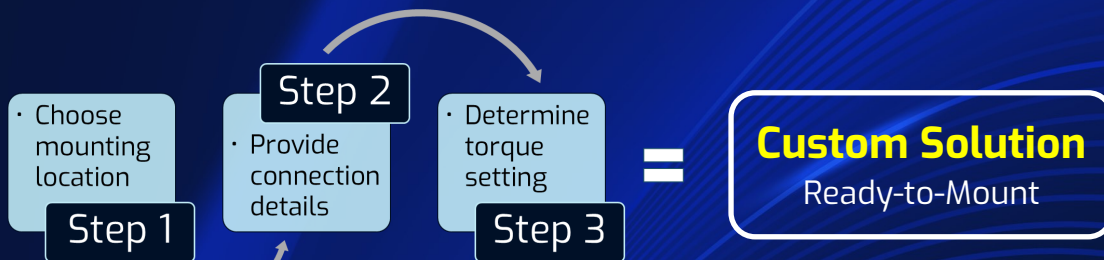
Our Method

Our *OVERTORQUE CLUTCHES* are mechanical torque limiters that will only allow the proper (SAFE) amount of input torque to pass into valves/actuators/gearboxes or machinery. Any torque that exceeds the set-point is not passed through into the equipment. If input torque exceeds the *OVERTORQUE CLUTCH* set-point, it completely *DISCONNECTS* from the equipment (temporarily), preventing excessive torque from transferring into the equipment. Reconnection happens automatically, without user intervention. Only the proper (SAFE) amount of torque is applied.

Our Technology

Our products utilize proprietary *POSITIVE-ACTION* spring & ball/roller-detent technology to provide durable, precise and repeatable overtorque protection, with superior performance and dependability compared to friction clutches and other protection methods. Our sealed products exceed IP68 water ingress rating and are fully-submersible. **ZERO** maintenance is required. Our products are fail-safe and have been durability tested for over 10,000 trips with no detrimental wear.

- **ZERO** Maintenance
- Permanently lubricated
- Rugged, reliable, precise
- Operate buried and submerged
- Exceed IP68 water ingress standard
- Pre-calibrated & ready to mount
- Turn-key, no modifications required
- Tested for thousands of cycles
- Made in the **USA**



NUT MOUNTING

Applications:

- Water distribution valves
- Valves with AWWA nuts
- Sluice gates etc.



MODEL D86

SHAFT MOUNTING

MODEL D80

Electric Actuators
(manual override)



MODEL D87

Manual Gearboxes



Solutions
for **ANY**
Connection

Sizing for Common Applications



MODEL D86

AWWA
Valves

Industry practice torque limit based on AWWA standards

Valve Style	AWWA Reference	Valve Size	Max Torque Allowable	Industry Practice Torque Limit
Butterfly	C504-15 4.2.8.3.2 A.7.2	3 thru 72 inch 75 thru 1800 mm	300 lbft 400 Nm	200 lbft 270 Nm
Ball	C507-15 4.3.10.3.3 A.7.2	6 thru 60 inch 150 thru 1500 mm	300 lbft 400 Nm	200 lbft 270 Nm
Resilient Seat Gate	C509-15 A.5.7.5	3 thru 4 inch 75 thru 100 mm	200 lbft 270 Nm	150 lbft 180 Nm
		6 thru 16 inch 150 thru 400 mm	300 lbft 400 Nm	200 lbft 270 Nm
		16 inch and larger 400 mm and larger	Consult Valve Manufacturer	
Metal Seat Gate	C500-09 A.5.7.6	3 thru 4 inch 75 thru 100 mm	200 lbft 270 Nm	150 lbft 180 Nm
		6 thru 12 inch 150 thru 300 mm	300 lbft 400 Nm	200 lbft 270 Nm
		14 thru 36 inch 350 thru 900 mm	Consult Valve Manufacturer	-



MODEL D80 (electric actuators)

MODEL D87 (manual gearboxes)

Gearboxes
and
Electric Actuators

Method #1:

15-20% below maximum allowable
gearbox/actuator input torque

Method #2:

Using rim-pull data

Product Application Matrix

Typical Application	Product Model	Torque Capacity	End-Connections		
			Male	Female	
Valves & Gearbox (With 2" AWWA Nut)	D86-250	30 to 250 lbft	2" AWWA Nut	Socket to fit 2" AWWA Nut	
	D86-500	250 to 500 lbft			
Electric Actuator (manual override handwheel shaft)	D80	0 to 100 lbft	Shaft with key or cross- drill to match your application	Bore with keyway or cross-drill to match your application	
Valves & Gearboxes (with Shaft)		D87-250			100 to 250 lbft
		D87-500			250 to 500 lbft



About Us

Aunspach Controls Company has been in business since 1986 and has products installed on five continents. Our products have a 35+ year record of dependable performance and long-term reliability. They are well suited for severe service in dirty and corrosive environments. Most products can be buried or submerged and require no regular maintenance. They are specified by many major municipalities such as New York City DEP, Miami-Dade WSA, Los Angeles DWP and more. Other end-users include GE Oil & Gas, PG & E, Exxon Mobil, Consolidated Edison, Shell, and several nuclear facilities.

WE CREATE SOLUTIONS



HIBO ISO
9001:2015

AUNSPACH  CONTROLS



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