

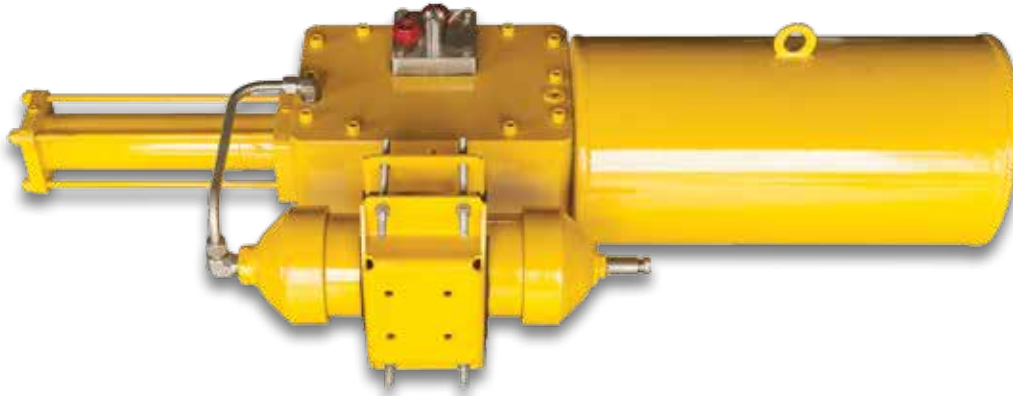
LEDEEN Hydraulic Subsea Actuators

Cameron's LEDEEN® hydraulic subsea actuators are specifically designed for shallow-water and deepwater applications. Both actuator types can operate with a supply pressure up to 3000 psig (207 barg).

Shallow-Water Series

For installations to 500 ft (152 m) water depth

Expert engineering. Reliable performance. Cost-effective solutions.



Typical Application

For on/off or modulating control of any quarter-turn operated valve in a submerged environment to 500 ft (152 m) water depth.

Features and Benefits

- All models available as double acting or spring return
- Torque output: 57,360 in-lb (6480 N-m) for S-GS actuator
- Torque output: 5,700,000 in-lb (644,000 N-m) for S-SY actuator
- Open and close travel stops provide ± 3 degrees minimum
- Scotch yoke mechanism generates powerful opening and closing torque outputs
- Buna piston seal configurations specifically designed for hydraulic applications
- Composite guide band on piston provides low-friction guidance and support
- Epoxy-coated prestressed springs provide consistent performance with corrosion protection
- Pressure compensator balances oil-filled cavity with ambient pressure

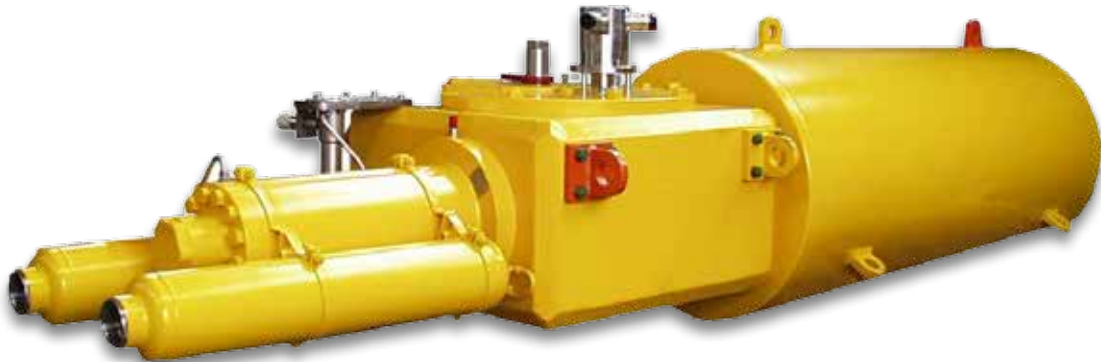
Available Options

- Manual override
- ROV override
- Microswitch for open/close indication
- Position transmitter for 0% to 100% travel indication

Deepwater Series

For installations deeper than 500 ft (152 m) water depth

Trusted design. Heavy-duty construction. Solid performance.



Typical Application

For on/off control of any subsea ball, plug or check valve in a submerged environment beyond 500 ft (152 m) water depth.

Standard Features

- Available as double acting or spring return configurations
- Torque outputs to 3,600,000 in-lb (400,000 N·m)
- Scotch yoke mechanism
- Pressure-compensated for deep applications
- 100% RX and PT tested welds
- No external tie rods
- Open and close travel stops, ± 5 degrees minimum
- Local tactile position indicator
- Spool piece with adjustable position locators

Available Options

- Manual override
- ROV override
- Microswitch for open/close indication
- Position transmitter for 0% to 100% travel indication