

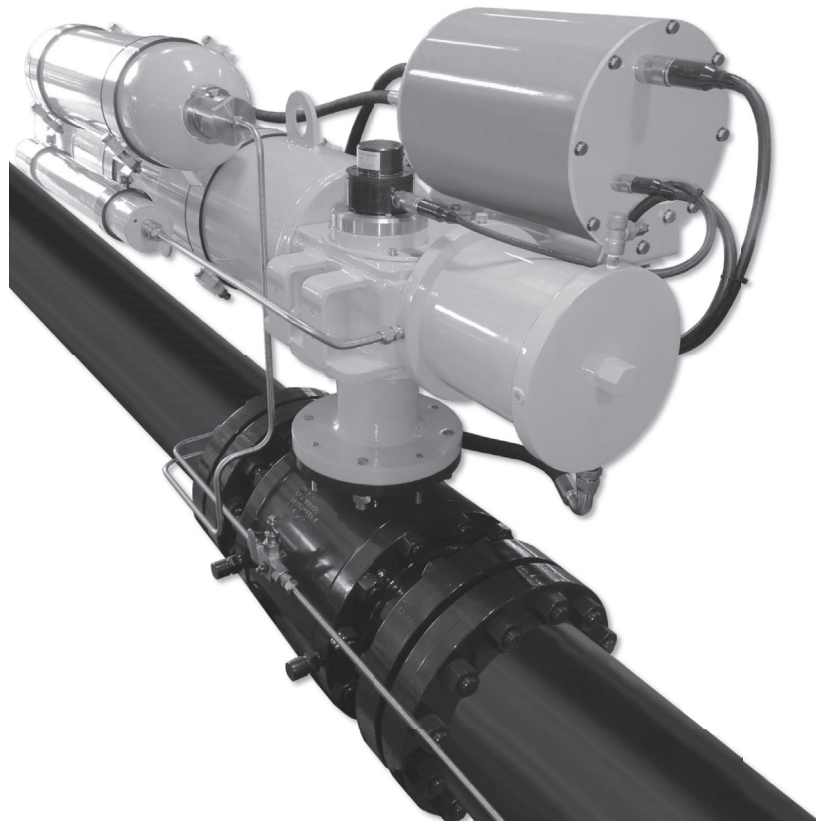
S Series – Subsea Valve Actuators

Introduction

Paladon Systems has over 30 years experience with providing valve actuators and control systems for the most demanding and critical subsea applications, and between 1990 and 2000 had more subsea actuators installed in the North Sea than all its competitors combined. Today Paladon Systems continues to drive subsea valve automation innovation with their Autonomous Shutdown Valve (ASV), the world's first fully self-contained subsea actuator system.

Available in double-acting and spring-return linear and quarter-turn configurations, Paladon Systems S-Series all-steel and fully welded subsea actuators can operate linear and quarter-turn valves up to 49,458 lbs (222,000N) and 4,425,000 in.lbs (500,000Nm) respectively.

Pressure compensated designs are available for operating depths down to 1640 ft (500m), and non-pressure compensated designs for shallow water operation down to 656 ft (200m).



SSVA-1

Key Features and Options

- Piston linear and scotch-yoke designs, both in double-acting or spring-return (fail-safe) configurations
- All-steel and fully welded construction
- Symmetrical, canted or demi-canted yokes available to optimise weight, size and cost
- Scragged springs (set removal) ensure optimum performance and reliability
- Diver and ROV operated overrides to ISO 13628-8
- Actuator and control system flushing to ISO 4406 Class 6 (NAS 6)
- Retrievable and non-retrievable designs
- Subsea and splashzone trims
- Local position indication at diver or ROV override receptacle
- Actuator and override declutch to allow use on other valves
- Double block and bleed manifold
- Remote position indication via subsea electrical connectors

Performance Data

Supply Pressures

- 90 to 3,625 psig (13 to 250 Barg)

Thrust and Torque Output Ranges

- Linear designs up to 50,000 lbs (222,000N)
- Quarter-turn designs up to 5,310,000 lbs.in. (600,000 Nm)