

# S-SERIES

Subsea Valve Actuators



## COMPANY



For over 30 years Paladon Systems has been supplying valve actuators and control systems on a global basis.



Since its inception in 1981, Paladon Systems has continuously developed its design, engineering, organisational, quality and management capabilities. Today Paladon Systems designs and manufactures many valve automation technologies that lead the industry in terms of cost efficiency, operational performance and environmental responsibility.



Paladon Systems' vast experience with supporting the Oil, Gas and Power industries with valve automation solutions for the most critical applications in extreme operating environments has resulted in product designs that offer unsurpassed quality and reliability across all industries and applications.

Holding ISO 9001 certification for over 20 years, today Paladon Systems hold accreditation and approvals from almost all major institutes, engineering companies and end users.

Now headquartered in Italy since the 2018 reorganization, is also based in the UK at the historical facility, founded in 1981, and in Houston, United States, thanks to great cooperation with a US partner. With a comprehensive suite of valve automation solutions backed by a dedicated team of field service engineers, Paladon Systems is **Total Valve Control**.





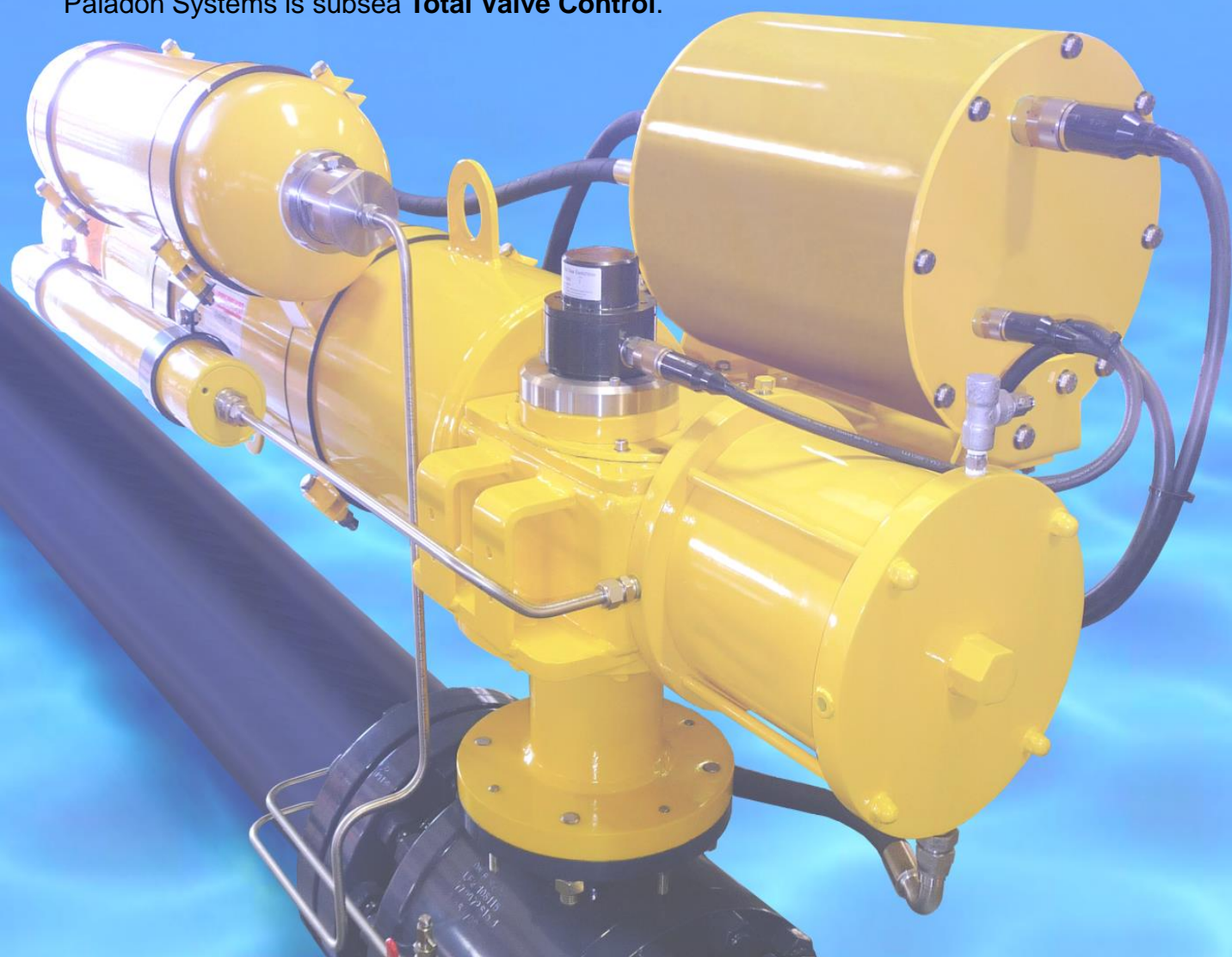
## INTRODUCTION

Paladon Systems has over 30 years experience with providing valve actuators and control systems for the most demanding and critical subsea applications. Between 1990 and 2000 Paladon Systems had more subsea valve 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 valve actuator system.

Available in double-acting and spring-return linear and quarter-turn configurations, Paladon Systems S-Series all-steel and fully welded subsea valve actuators can operate linear and quarter-turn valves up to 289,134 N (65,000 lbf) and 680,000 Nm (6,018,000 lb in) respectively.

Pressure compensated designs are available for operating depths to 500 m (1,640 ft) and non-pressure compensated designs for shallow water operation to 200 m (656 ft).

With ROV overrides, bespoke control systems and retrievable and non-retrievable options, Paladon Systems is subsea **Total Valve Control**.



## KEY FEATURES & OPTIONS

- Piston linear and scotch-yoke valve actuator systems, both in double-acting or spring-return (fail-safe) configurations
- All-steel and fully welded construction
- Scotch-yoke valve actuator systems available with symmetrical, canted or demi-canted yokes available to optimise weight, size and cost
- Scrapped springs (set removal) ensure optimum performance and reliability
- Diver and ROV operated overrides to ISO 13628-8
- Valve 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
- Valve actuator and override declutch to allow use on other valves
- Double block and bleed manifold
- Remote position indication via subsea electrical connectors





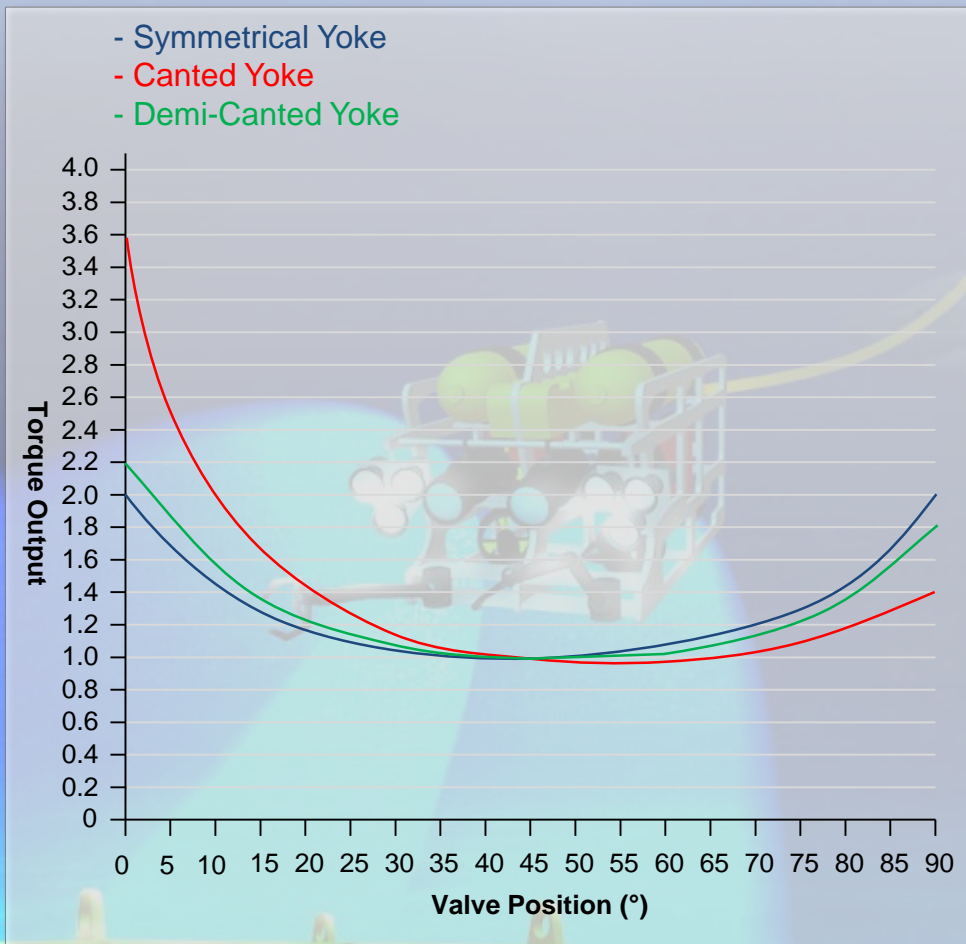
## PERFORMANCE DATA

### ■ Supply Pressures

- ▶ 13 to 250 Barg (90 to 3,625 psig)

### ■ Torque Output

- ▶ Up to 680,000 Nm (6,018,000 lb in)
- ▶ Scotch-yoke S-Series valve actuators can be supplied with either symmetrical, canted or demi-canted yokes to optimize valve actuator sizing for all quarter-turn valves; ultimately resulting in smaller and lower cost valve actuators



### ■ Thrust Output

- ▶ Up to 289,134 N (65,000 lbf)



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