ADVANCED ACTUATORS

+44 (0) 1535 655151
sales@advanced-actuators.com

GLOBAL LEADERS IN THE DESIGN & MANUFACTURE OF PRECISION VALVE CONTROL SOLUTIONS & INSTRUMENTATION

HYSTEP®

HYDRAULIC & PNEUMATIC

DISCRETE *TRUE* STEPPING ACTUATOR

Our HYSTEP® actuator systems are small and lightweight, but offer the highest levels of precise control, reliability, and versatility.

They provide highly accurate positioning through converting electrical pulses and signals into discrete mechanical movements.

We have deployed thousands of **HYSTEP®** units worldwide, and in some of the most remote and challenging environments.



ACCURACY
Precise incremental control with unparalleled accuracy in modulation, motion, and positioning.

HOLDING TORQUE
Maintains position, withstanding high loads under torque, even when external power is cut.

LOW CONSUMPTION
Reduced energy use/loss, converting electrical pulses to mechanical motion with two solenoids.

HIGH LIFECYCLE
Our high-performance actuator mechanisms are cycle tested for use up to 1.75 million pecks.

MODULAR CONSTRUCTION
Configurable for most requirements, with a design promoting safer, easier field maintenance.

FLEXIBLE DESIGN
A highly adaptable and customisable system that allows integration with varying design standards.

KEY APPLICATIONS

Upstream oil and gas sector, widely used in choke valve applications, especially production wellheads, flowlines, re-injection, gas lift and FPSO Vessels.

SELECTED END USER REFERENCES

TOTAL · ADNOC · MAERSK · PETRONAS · Chevron · OXY · PETROBRAS

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TECHNICAL FEATURES

- Pneumatic (3-12 Bar) & Hydraulic (50-300 Bar)
- 316L Cylinders on All Models
- High-Strength Cast Spheroidal Graphite Body
- ISO 5211 Mounting + Custom Options
- 316L Manual Override as Standard

ENVIRONMENTAL & HAZARDOUS AREA

- ATEX / IECEx / ECAS / INMETRO
- Explosion Proof (Ex d) & Intrinsically Safe (Ex i)
- IP66 / IP68
- -30°C / +80°C
- Offshore Paint Systems - Standard or Custom
- 316L Tubing & Fittings + Special Materials Available

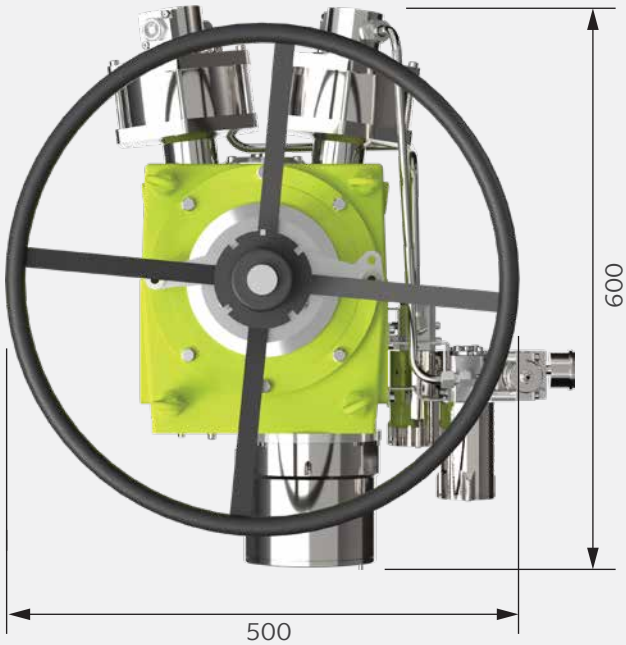
PERFORMANCE RANGES

Torques:	**200 - 1500 nm**	AS STANDARD
Nut Box:	**up to 10,000 kg**	
Steps per Rev:	**12 / 18 / 36**	
Speed per Rev:	**8s / 36s**	

OPTIONS

HYTRACK® Position Feedback 4-20mA, HART

HYCONTROL® Closed Loop Position Controller





NOT TO SCALE | DIMENSIONS IN MILLIMETRES | SPECIFICATIONS VARY DEPENDING ON CONFIGURATION | MASS ~60KG