

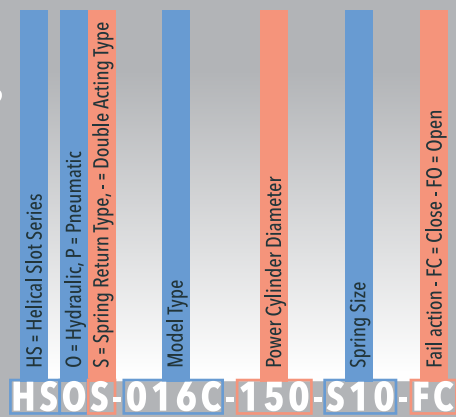
Optional Features

Manual Override Option:

Hydraulic Hand pump to operate the valve in absence of power supply. The hydraulic cylinder is embedded in actuator case and doesn't add any extra dimension.

Handwheel to mechanically operate the valve in absence of power supply: gearboxes installed on larger size of actuators.

Model Number designation



DVG AUTOMATION

— | **GIWA GROUP**



DVG AUTOMATION S.p.A.

Permanent Headquarters: Via G. Rossetti, 2
29016 / Cortemaggiore (PC) / Italy

+39 / 0523 255811
+39 / 0523 255890

GIWA GROUP

www.dvgaautomation.it
info@dvgaautomation.it

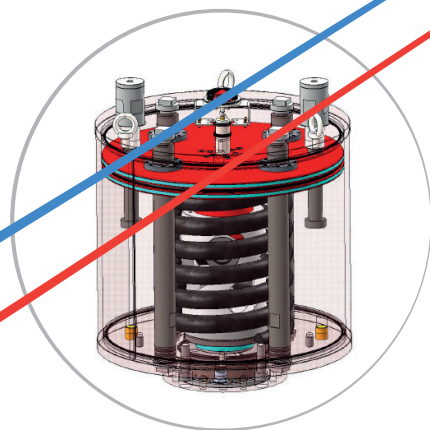
Rea Nr 167410 / VAT Nr 01494460338



"HS"

**PNEUMATIC &
HYDRAULIC COMPACT
Actuator Series**

"HS" PNEUMATIC & HYDRAULIC COMPACT Actuator Series



DVG Automation "HS" Helical Slot actuator series are extremely compact in design and are suitable to operate every kind of quarter turn valve.

This high efficiency design that transform the piston linear movement into a quarter turn rotation, make them the ideal solution in case of space-constrained installation like FPSO vessels, platforms, offloading buoys, manifold, ESD and High-Integrity Pressure Protection Systems (HIPPS).



Features & advantages

Supply medium:

Instrument air, nitrogen, sweet gas.
Hydraulic oil mineral based.
Special versions are available for water based fluids.

Reduced footprint within valve template even for spring return actuator.

Direct coupling to valve top work.

The actuator directly fits valve top work with no need for intermediate spool or coupling joint

Center of Gravity in line with valve body.

Parabolic torque profile can be customized by changing slot angle and profile.

Environmental protection:

Completely enclosed design without external tie rods.

Cylinder tube is internally nickel-plated lined (minimum 25µm).

External coating provides higher reliability in harsh environmental conditions as per ISO 12944 (Expected Durability) and in compliance with NORSOK M-CR-501 requirements.

Visual indicator:

Visual indicator to show the exactly stem valve position stroke, mounted on top of the actuator.

Lifting point:

by means of DIN580 eyelets; certified eyelets can be supplied upon request

Specification

- Suitable to operate every type of quarter turn valve
- Double acting & Spring return
- Pneumatic power supply up to 12 Barg (16 barg upon request)
- Hydraulic power supply up to 380 Barg
- Torque range from 100 Nm up to 170.000 Nm
- Standard temperature range -30°C +93°C
- Low temperature version -60°C + 93°C
- PED 2014/68/UE Compliant
- ATEX 2014/34/UE Compliant
- IP66M / IP68M certification as a standard
- SIL3 Capable according to IEC 61508
- Independent open/close travel stops protected and adjustable +/- 5°
- Hydraulic Hand Pump / Handwheel / Damping System available upon request with no or reduced impact on actuator dimensions
- Pressure retaining components and power springs 3.1 Certified according to EN10204