

Rotary Actuator

The HLK-22700 makes use of an industry standard hydraulic orbital motor to drive the input on a helical worm gear set to deliver a high torque at a low speed. The gearbox is constructed in corrosion resistant materials making it particularly suited for industrial, marine, and subsea applications that when oil compensated, can operate to ocean depths of 6000msw (19,680ft).

A splined hollow output bore allows the passing through of hydraulic hoses or cables or could accommodate a rotary fluid or electric coupling for special applications. The standard output mounting configuration is a square 8 bolt flange plate.



Features

- Utilising a helical worm gear arrangement to enable a low speed high torque output
- High torque output of 304Nm @ 140bar (224.2lbf.ft @ 2000psi)
- Manufactured from corrosion resistant materials
- Suitable for all types of industrial, marine or subsea applications
- Gearbox ratio 23:1

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Technical Specifications

General	
Product Type	Rotary Actuator
Materials	316 Stainless Steel, 6082 Aluminium, Aluminium Bronze
Seal Materials	Nitrile/NBR/Buna-N, PTFE
Product Finish	Hard Anodised, Painted
Ports	1/4" BSPP (ISO 1179-1)
Dimensions	(H) 150mm x (W) 233mm x (D) 100mm (5.9" x 9.2" x 3.9")
Weight in Air	5.4kg (11.9lb)
Weight in Water	3.9kg (8.6lb)
Rotary Range (Degree)	Continuous

Hydraulic Performance

Maximum Working Pressure	80bar (1160psi)
Flow	0.5lpm to 3lpm (0.13gpm to 0.79gpm)
Fluid Type	Mineral: DIN 51524, ISO 11158, ISO 6743-4, ASTM D6158 Synthetic: Panolin Atlantis, HLP-Synth
Viscosity	16cSt to 220cSt. VG 22-32 Recommended
Temperature	5-60°C (41-140°F)
Cleanliness Requirements	ISO 4406:19/17/14, NAS 1638:8, AS4059:9A/8B/8C

Performance

Rotational Torque	304Nm @ 140bar (224.2lbf.ft @ 2000psi)
Gearbox Ratio	23:1

Environmental

Operational Depth	6000msw (19,680ft)
Operating Temperature	5-60°C (41-140°F)
Storage Temperature	0-70°C (32-158°F)
Humidity	0% to 100% Condensing

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