HYDRO-LEK

# HLK-22700
Rotary Actuator

## 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

## Product Overview

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.

## Product Specifications

### General

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|---|---|
| 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 Performances

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|---|---|
| Max. Working Pressure | 140bar (2000psi) |
| Flow | 13lpm Max. (3.4gpm) |
| Fluid Type | Mineral: DIN 51524, ISO 11158, ISO 6743-4<br>Synthetic: Panolin Atlantis, HLP-Synth |
| Viscosity | 16cSt to 220cSt. VG 22-32 Recommended |
| Fluid Temperature | 5-60°C (41-140°F) |
| Cleanliness Requirements | ISO 4406:19/17/14, NAS 1638:8, AS4059:9A/8B/8C |

### Performances

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

### Environmental

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|---|---|
| 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 |



 