



## Features

- Porting available in 1/8" BSPP or 7/16" SAE in accordance with ISO 1179 & SAE J1926-1 respectively
- Constructed from corrosion resistant materials
- Compact & lightweight @ only 2.6kg (5.7lb) in water
- Bracket can accommodate cameras, lights or other subsea sensor devices
- Rotational travel of 360 degrees

## Product Overview

The HLK-2200 hydraulic rotary actuator is a rack and pinion design developed for general applications where reliability and durability are important and where a small amount of lash is tolerable. The HLK-2200 is a derivative of the HLK-2150 pan & tilt unit (minus the tilt) and was developed for applications requiring a rotary function only.

The cylinder tubes are made of corrosion resistant 316 stainless steel while the body and bracket are manufactured of 6082 aluminium with a 50 micron hard anodized surface. The rotate hydraulic connections are ported into the end of the actuator tubes and are available in 1/8" BSPP in accordance with ISO 1179 and 7/16" SAE in accordance with SAE J1926-1.

## Product Specifications

### General

Function	Rotary Actuator
Materials	316 Stainless Steel, 6082 Aluminium
Product Finish	Hard Anodised, Painted
Seal Material	Nitrile/NBR/Buna-N, PTFE
Ports	1/8" BSPP (ISO 1179) or 7/16" SAE (SAE J1926-1)
Dimensions	(H) 180mm x (W) 229mm x (D) 77mm (7.1" x 9" x 3")
Weight in Air	3.4kg (7.5lb)
Weight in Water	2.6kg (5.7lb)
Rotary Range	360 Degrees

### Hydraulic Requirements

Maximum Working Pressure	140bar (2000psi)
Flow	3lpm Maximum (0.79gpm)
Fluid Type	Mineral: DIN 51524, ISO 11158, ISO 6743-4 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	38Nm @ 140bar (20lbf.ft @ 2000psi)
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### 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