

Rotary Actuator

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.



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

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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	1/8" 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 (Degree)	360 Degrees

Hydraulic Performance

Maximum Working Pressure	140bar (2000psi)
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	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