

Rotary Actuator

The HLK-2290 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 cylinder tubes are made of corrosion resistant 316 stainless steel while the body is manufactured out of black acetal.

It is ideal for industrial, marine and subsea applications where corrosion resistance and hygiene are important factors. The robust rack and pinion offer constant torque in applications where other types of actuators would be impractical.

Four bolt flange plates on both sides of the actuator body provide a suitable platform for special applications such as the actuation of high pressure ball or diverter valves used when used for the pressure testing on subsea equipment.



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 1.6kg (3.52lb) in water
- Flange plates provide a base platform for custom brackets for special applications
- Can be used as a low pressure platform for the accurate functioning of high pressure ball or diverter valves

Technical Specifications

General

Product Type	Rotary Actuator
Materials	316 Stainless Steel, Acetal
Seal Materials	Nitrile/NBR/Buna-N, PTFE
Product Finish	No Finish
Ports	1/8" BSPP (ISO 1179) or 7/16" SAE (SAE J1926-1)
Dimensions	(H) 75mm x (W) 228mm x (D) 68mm (3" x 9" x 2.7")
Weight in Air	2kg (4.4lb)
Weight in Water	1.6kg (3.52lb)
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

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