SAAB

Hydraulic Power Unit

The HLK-90130 hydraulic power unit is a lightweight power solution for submersibles or small electric ROVs to enable manipulator or light duty tooling functions.

The HPU makes use of a fixed displacement gear pump driven by a 440Vac or 660Vac 3 phase motor and incorporates a direct acting pressure relief valve inside the pump manifold.

Features

- Low cost hydraulic power unit for manipulator or light duty tooling applications
- Compact and lightweight at only 4.2kgs (9.26lb) in water
- Constructed from corrosion resistant materials
- Three phase voltages available in 440Vac or 660Vac
- Manifold contains adjustable direct acting pressure relief valve

World leader in electric underwater robotics

Technical Specifications

General

Pump Type	Fixed Displacement Gear
Motor Type	3 Phase AC Induction
Materials	6082 Aluminium
Seal Materials	Nitrile/NBR/Buna-N, PTFE
Product Finish	Hard Anodised
Work Ports	1/8" NPTF (ANSI B1.20.3)
Compensation Ports	1/8" NPTF (ANSI B1.20.3), 7/16" SAE (SAE J1926-1)
Dimensions	(D) 120mm x (L) 268mm (4.7" x 10.5")
Weight in Air	7.2kg (15.8lbs)
Weight in Water	4.2kg (9.26lbs)
Electrical Connector Type & Pin	M2PL4M with 1.5mtr Whip

Hydraulic Requirements

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 4406:20/19/16, NAS 1638:10, AS4059:11A/10C/10C

Electrical Requirements

Supply Voltage	440/660Vac
Electrical Power	0.75kW (1.0HP)
Current Consumption	0.5A @ 440Vac, 0.6A @ 660Vac
Frequency	50/60Hz

Hydraulic Performance

Max. Working Pressure	140bar (2000psi)
Flow	0.9lpm (0.24gpm) @ 50Hz 1.1lpm (0.29gpm) @ 60Hz

Environmental

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