HLK-90100

Hydraulic Power Unit

The HLK-90100 hydraulic power unit is a lightweight power solution for submersibles or small electric ROV's 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 9.6kg (21.2lb) in water
- Constructed from corrosion resistant materials
- Three phase voltages available in 440Vac or 660Vac
- Manifold contains adjustable direct acting pressure relief valve

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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	P = 1/4" BSPP (ISO 1179) T= 3/8" BSPP (ISO 1179)
Compensation Ports	1/8" NPTF (ANSI B1.20.3)
Dimensions	(D) 145mm x (L) 380mm (5.7" x 15")
Weight in Air (kg)	15.4kg (34lb)
Weight in Water (kg)	9.6kg (21.2lb)
Electrical Connector Type & Pin	M2PL4M with 1.5mtr Whip

Hydraulic Performance

Max. Working Pressure	207bar (3000psi)
Flow (lpm)	2.68lpm (0.71gpm) @ 50Hz, 3.21lpm (0.85gpm) @ 60Hz
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 (C)	5-60°C (41-140°F)
Cleanliness Req. (ISO 4406)	ISO 4406:20/18/15, NAS 1638:9, AS4059:10A/9B/9C

Electrical Requirements

Supply Voltage	440/660Vac
Electrical Power	0.75kW (1.0HP)
Frequency	50/60Hz

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