



Features

- Compact and lightweight at only 2.4kgs (9.7lb) in water
- Constructed from corrosion resistant materials
- Manifold contains adjustable direct acting relief valve

Product Overview

The HLK-91000 hydraulic power unit is a low profile, compact unit, incorporating a direct acting pressure relief valve. It is driven by a pair of 150W, 48Vdc brushed DC motors coupled to a common drive shaft with a high-pressure shaft seal to a gear pump.

It is commonly used to power compact hydraulic manipulators on manipulator skids such as the Mini-Gauntlet skid used on the Falcon electric observation class ROV or can be used for other activities such as low pressure accumulator charging or as a low pressure, low flow hydraulic supply for dedicated functions on submersible systems.

Product Specifications

General

Pump Type	Fixed Displacement Gear Pump
Motor Type	2x 150W, 48Vdc Brushed DC Motors
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)
Dimensions	(L) 238mm x (W) 110mm x (H) 63mm (9.4" x 4.33" x 2.48")
Weight in Air	4.4kg (9.7lbs)
Weight in Water	2.4kg (5.29lbs)
Electrical Connector Type & Pin	Subconn LPBH3M 3 Pin

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	48Vdc
Power	150W (0.2hp) Maximum
Current Consumption	2.8A Maximum

Hydraulic Performances

Maximum Working Pressure	80bar (1160psi)
Maximum Flow	0.3lpm (0.08gpm)

Environmental

Operational Depth	2000msw (6,560ft)
Operating Temperature	5-60°C (41-140°F)
Storage Temperature	0-70°C (32-158°F)
Humidity	0% to 100% Condensing