HLK-70120

Dual Tank Return Valve

The HLK-70120 Dual Tank Return Valve was developed for use with manipulator and tooling systems where the hydraulic control lines needed to be switched to a low pressure circuit to avoid being mechanically anchored to subsea assets or equipment.

Two normally open 2/2 poppet valves are used to provide a path to tank for independent hydraulic control lines. These valves are energized into the closed position simultaneously when power is applied to the coils, and to the open position when power is removed.

Features

• Compact and lightweight at only 1.54kg (3.4lb) in water

• Suitable for use as an emergency pressure release valve (i.e. manipulator jaws)

• Constructed from corrosion resistant materials

• Suitable for all types of industrial, marine or subsea applications

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Technical Specifications

General

Number of Valves	2
Valve Type(s)	2/2 DCV Solenoid Poppet Cartridge
Materials	6082 Aluminium
Product Finish	Hard Anodised
Work Ports	7/16" SAE (SAE J1926-1)
Compensation Ports	7/16" SAE (SAE J1926-1)
Dimensions	(W) 160mm x (H) 127mm x (D) 60mm (6.3" x 5" x 2.4")
Weight in Air (kg)	2.7kg (5.9lb)
Weight in Water (kg)	1.54kg (3.4lb)
Electrical Connector Type & Pin	Subconn MCBH3M 3 Pin

Hydraulic Performance

Max. Working Pressure	207bar (3000psi)
Flow (lpm)	12lpm (3.2gpm)
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 4406:17/15/12, NAS 1638:6, AS4059:7A/6B/6C

Electrical Requirements

Supply Voltage	24Vdc
Current Draw	1.25A Per Coil, 2.5A Total
Communications	None. Power direct to Coil

Environmental

Operational Depth (msw)	3000msw (9,840ft)
Operating Temp (C)	5-60°C (41-140°F)
Storage Temp (C)	0-70°C (32-158°F)
Humidity (%)	0% to 100% Condensing