



# HPHV Pump

## Ultra-high viscosity pump unit

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Part number: 5000024

**The Innova Grease Pump is designed to service high viscosity grease at high pressure 690bar. It can be powered by an electric or a hydraulic motor.**

The Grease Pump is enclosed by a subsea suitable, pressure compensated housing with internal sensors. The pump unit is a fixed displacement, 5-piston, radial piston pump providing low ripple output. To handle the high viscosity fluids, the pump is designed with large fluid channels and internal valves. Due to the unique design of the rotary assembly, the pump will be able to pump fluid from reservoirs that has negative pressures relative to the ambient pressure.

Typical application is subsea lubricators for wireline and coiled tubing operations, allowing the grease injection system to be placed on the subsea tooling as opposed to umbilical supply of high pressure lubricant from surface.

### Key features

- Output pressure: 690 bar (10 kpsi)
- Displacement: 0.6 ccm / rev
- Pressure sensor output: 1000 barg 4-20 mA
- Pressure sensor input: 10 barg 4-20 mA

The pump is designed to operate in an oil filled and compensated environment. The inlet and outlet ports are configured with pressure sensors.



## SIZE & WEIGHT:

- Diameter: 490 mm
- Height: 385 mm
- Weight: 69kg

## HYDRAULIC DATA:

- Pump medium: Grease, CLARE V300 RLWI, or similar.
- Compensator fluid: Mobil DTE EXCEL 32 / Shell Tellus T32
- Pressure: 690 bar
- Flow: 0,75 lpm

## MECHANICAL DATA

- Materials: Carbon steel, Stainless steel AIS316, S165M
- Surface protection: Xylan 1014, Yellow RAL 1004
- Mounting orientation: Vertical
- Mounting: Bolted to host structure with cathodic protection provided

## ENVIRONMENTAL

- Rated Depth 3000 MSW
- Operation temperature: -18 to +40°C (Note that grease viscosity will vary according to temperature. This will affect the pump performance).
- Storage temperature: -18 to +50°C