

HYDRAULIC POWER UNIT

22kW
HPU
SYSTEM



Description

The DNV 2.7-3 certified design features a robust stainless steel frame. The HPU are fitted with a 3-section PVG which is used to test various subsea tooling prior to subsea deployment. The unit is intended for on-deck use and testing at the SIT, flushing and function testing.

The HPU includes both pressure and return filters including electrical indicators. The unit is also equipped with ports for external cardev filtration.

A built-in auto phase shifter ensures correct pump rotation and the pump's filters provide distribution of clean oil to external equipment.

Features

- Simple Connection Interface
- Integrated Transport Skid
- Compact Design
- Service & User Friendly
- Integrated Oil Cooler

Typical Operations

- Testing of subsea tooling
- Deck Testing
- Function Testing
- Flushing

SPECIFICATIONS

22KW HPU SYSTEM

General Technical Specifications

| | |
|-----------------------|--------------------------|
| Type | Assembly HPU 22kW SS |
| Part Number | 107946 |
| Frame Material | AISI316L |
| Lifting Certification | Acc. to DNV 2.7-3 |
| Fluid | Mineral Oil Based Fluids |

* Please contact us for questions or more information regarding fluid compatibility

| | |
|-------------------------------|------------------------------|
| Weight | ~1000Kg |
| Dimensions (L x W x H) [mm] | 1300 x 900 x 1380 |
| Operating Temperature | -10°C/ + 60°C (14°F / 122°F) |

Hydraulic

| | |
|-------------------------|--|
| Max. Output Pressure | 345Bar (5.000 PSI) |
| Max. Output Flow | ~ 50 L/Min |
| Pump Type | Parker PV 46CCM |
| Pressure Filter Element | 108256 |
| Return Filter Element | 108232 |
| Pressure Adjustments | Main and individual for PVG outputs |
| Reservoir Capacity | 200L |
| Oil Level Indicator | Yes, visual |
| Oil Level Guard | Yes |
| Temperature Guard | Yes |
| Oil Cooler | Yes (no external water supply needed) |
| Pressure Gauge | Yes (on both pressure and return line) |

Hydraulic Connections

| | | | | | | | |
|--------------------|----------------------------------|----|----|------|-------|-----|---------|
| Pressure | 1/2 NV QC Male (1/2" BSP Female) | | | | | | |
| Tank | 3/4 NV QC Male (3/4" BSP Female) | | | | | | |
| Leak Line | 1/2 | NV | QC | Male | (1/2" | BSP | Female) |
| PVG Outlet 1A / 1B | 1/2 | NV | QC | Male | (1/2" | BSP | Female) |
| PVG Outlet 2A / 2B | 1/2 | NV | QC | Male | (1/2" | BSP | Female) |
| PVG Outlet 3A / 3B | 1/2 | NV | QC | Male | (1/2" | BSP | Female) |

Electrical

| | |
|------------------|---|
| Nominal Voltage | 400 VAC 3-Phase |
| Electrical Motor | 3-Phase, 22kW, 400V, 50/60Hz, 32 Amp |
| Power Cable | 25meter H07-RNF 5G16mm2 |
| Power Socket | 63Amp, 400V, 5-Pin (other sockets available on request) |

Document References

| Document No.: | Revision | Description |
|------------------------|----------|--------------------------|
| | A | General Assembly Drawing |
| 107946-EVX-MC-DWG-0001 | A | Hydraulic Schematic |
| 107946-EVX-HY-SCH-0001 | A | Electrical Schematic |
| P2748-EVX-EL-SCH-0001 | A | User Manual |
| 107946-EVX-PD-UMN-0001 | | |