

# DATA SHEET – HPU001

## HYDRAULIC POWER UNIT

### Overview

Pressure Dynamics HPU0001 is a multi-purpose Hydraulic Power Unit, used across a variety of industries and applications.

Designed to be highly efficient, flexible and reliable, our units utilise industry standard hydraulic and electrical components to allow instant integration into onsite installations.

### Build Specification

<b>Gross Weight</b>	1,385kg including fluid
<b>Dimensions</b>	L:1.51m, W:1.21m, H:1.2m
<b>Typical Design Life</b>	20 years
<b>Environmental Cert.</b>	Typ. -5°C to 45°C, Typ DNV
<b>Cathodic Protection</b>	RP-B401
<b>Electrical Systems</b>	Typ. IECEx certified
<b>Frame / Skid construction</b>	Material: Steel plate AS3678 grade 250/350. Welding: AS1554.1 CAT SP
<b>Hydraulic Tube Work</b>	Typ. ASME B31.3
<b>Materials Certification</b>	EN 10204 3.1

### Additional Pump Information

#### Electric Motor

- Ex Rated for Zone II

#### Low Pressure

- Remote compensated piston pump with horsepower controller and load sensors.
- 2 spool manually operated proportional valve.
- Air blast heat exchanger [not rated for Zone II, can be isolated].
- Pressure and return line filtration to 5µ.

#### High Pressure

- Pneumatically operated Maximator pump, Atex approved.

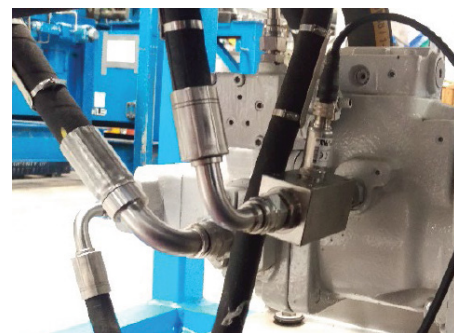
#### Control

- Double block and bleed.



### Operating Specifications

<b>Fluid Types</b>	Mineral Oil
<b>Power Input</b>	Electrical, 5m 32A 3Ø Plug
<b>Pump Drive 1</b>	Electro-hydraulic (low press)
<b>Pump Drive 2</b>	Pneumatic (high press)
<b>Tank Data</b>	Stainless Steel 350L
<b>Pump 1 Pressure</b>	Low Pressure: 20-270bar
<b>Pump 2 Pressure</b>	High Pressure: 600bar
<b>Pump 1 Flow</b>	0 – 65 L / min
<b>Pump 2 Flow</b>	0 – 0.5 L / min



Condition monitoring, if desired

# ABOUT PRESSURE DYNAMICS

Pressure Dynamics is an engineering and services contractor specialising in hydraulic and lifting solutions.

Our team of highly skilled project managers, engineers and technicians are committed to collaborating with our clients in providing innovative, quality-assured services and products that deliver superior function, reliability and safety.

When we deliver, we focus on:



## RELIABILITY

Optimising equipment and system performance - to maximise your ROI.



## PRODUCTIVITY

Maximising operational reliability of assets and equipment safely and cost-effectively.



## INNOVATIVE SOLUTIONS

Developing creative, fit-for-purpose solutions to meet our client's true needs and objectives.



## RISK MANAGEMENT

Delivering and maintaining quality, cost-effective and safe equipment and assets while mitigating risk.



## MUTUAL SUSTAINABILITY

Delivering skill, knowledge and understanding through our documentation, user-intuitive products and training services.

## Market sectors we operate in:



Oil & Gas



Mining



Marine



Defence



Infrastructure



Power & Utilities

## Our location network



Abu Dhabi, UAE  
Ghana, W Africa

