

Hydrostatic Pressure Test Facility

Perry Slingsby Systems Ltd has a comprehensive hydrostatic pressure test facility including one of the largest horizontal vessels in Europe. The facility provides the opportunity for sub-sea equipment manufacturers to have their products pre-qualified at a fraction of the cost of actually conducting sea tests. The vessels have pressure ratings up to 8000 psi (550 bar).



The large chamber is pressurised, via a series of oil / water accumulators and hydraulic pumps which can produce 58 psi per minute.

There are a maximum of twenty-two 25 mm penetrations for electrical, hydraulic, pneumatic, and instrumentation. PSSL have extensive experience in using these to operate client equipment in hyperbaric conditions.

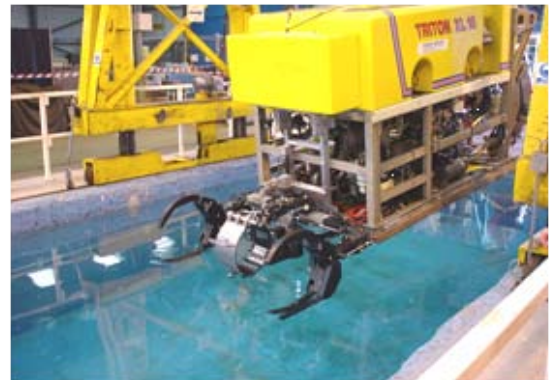
The horizontal loading system simplifies the installation and hookup of test equipment. Two 16 tonne overhead cranes can be used for heavy test pieces.

The hydrostatic pressure test vessel is fitted with a detachable semi-ellipsoidal end cap for easy loading of components.

All Testing is carried out to Health and Safety Executive Guidance GS4 Standard.

In addition to the hydrostatic pressure test facility, there is a 3m deep tank available for wet commissioning or full-scale interface tests.

The tank is 4 meters wide and 15 meters long enabling full ROV systems be tested.



Features

- High Simulated Seawater Depths
- Test Piece Volumes to 43 m³
- Wide Range of Services
- Penetrators
- Variable Pressurisation Rates
- Automatic Test Cycling
- Expert Technical Assistance



Specification

Type:	Hydrostatic
Medium:	Water
Temperature Range:	20-40 °C
Depth Rating:	2400 m (241 bar)
Maximum Internal Diameter:	2438 mm
Overall Internal Length:	9753 mm
Volume:	43 m ³ (approx.)
Maximum Load Capacity:	70 tonnes (including weight of water)
Penetrations:	22
Maximum Pressurisation Rate:	58 psi per minute

Specification

	2000 psi Test Vessel	8000 psi Test Vessel
Type:	Hydrostatic	Hydrostatic
Medium:	Water	Water
Temperature Range:	5-50 °C	0-50 °C
Depth Rating:	1380 m (138 bar)	5500 m (550 bar)
Internal Diameter:	450 mm	360 mm
Overall Internal Length:	940 mm	1770 mm
Volume:	0.15 m ³ (approx.)	0.23 m ³ (approx.)
Penetrations:	2	8

These Hydrostatic Pressure Vessels are pressurized via a variable flow piston pumps. This allows a wide range of pressurization rates with full instrumentation and control.

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The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.