

# Hyperbaric Testing Facility

FET 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, electrically driven water pump which can pressurise the chamber to a maximum rate of 58psi per minute. There are a maximum of twenty-two 25 mm penetrations for electrical, hydraulic, pneumatic, and instrumentation.

FET 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. A 20 Tonne overhead crane 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 6m deep tank available for wet commissioning or full-scale interface tests. The tank is 9 meters wide and 10 meters long enabling full ROV systems be tested.



# Hyperbaric Testing Facility

## Features

- High Simulated Seawater Depths
- Test Piece Volumes to 43 m<sup>3</sup>
- Wide Range of Services
- Penetrators
- Variable Pressurisation Rates
- Automatic Test Cycling
- Expert Technical Assistance

## Specifications

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

## Core Business

- Subsea electrical penetrator systems
- Subsea production control modules
- Subsea production control actuator / valve assy
- Subsea control couplers / connectors
- Subsea production control valves
- Subsea production control modules
- Subsea production control valves & pig diverters
- Subsea production control valves
- Subsea production instrumentation
- Subsea production control valves
- Subsea control actuators & valves
- Subsea control umbilicals
- Subsea position actuators
- Subsea control umbilicals
- Subsea production control valves & actuators
- Specialist subsea control hydraulics
- Marine and Defence
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- Subsea Control Umbilical's
- Subsea Control Umbilical's
- Subsea Production Control Equipment
- Specialist Subsea Penetrator / Connector Systems

## Specifications

	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 <sup>3</sup> (approx.)	0.23 m <sup>3</sup> (approx.)
Penetrations	2	8

## External Clients

- Aker Solutions Aberdeen
- Aker Solutions Norway
- Amertek I.S.A.
- ATV Technology Italy
- Babcock International Group
- Baker Hughes
- Bel Valves
- Cortland Fibrion
- Diamould Ltd
- DUCO
- ENERPAC BV
- Expro Tronic
- FMC Technologies AS
- Helipebs Group
- James Fisher Defence
- Kim Systems
- MSCM
- NSW
- Pacson Valves U.K.
- Rotork U.K. Ltd
- Seacon Europe
- Triton Submarines LLC
- Tyco Valves & Controls Italy
- Vetco Gray
- Wellops U.K. Ltd

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The specification details are illustrative and are 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.

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