Forum 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.

Forum 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 m³
• Wide Range of Services
• Penetrators

• Variable Pressurisation Rates
• Automatic Test Cycling
• Expert Technical Assistance

Specification

<table>
<thead>
<tr>
<th>Type</th>
<th>Hydrostatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>Water</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>20-40 °C</td>
</tr>
<tr>
<td>Depth Rating</td>
<td>2400 m (241 bar)</td>
</tr>
<tr>
<td>Maximum Internal Diameter</td>
<td>2438 mm</td>
</tr>
<tr>
<td>Overall Internal Length</td>
<td>9753 mm</td>
</tr>
<tr>
<td>Volume</td>
<td>43 m³ (approx.)</td>
</tr>
<tr>
<td>Maximum Load Capacity</td>
<td>70 tonnes (including weight of water)</td>
</tr>
<tr>
<td>Penetrations</td>
<td>22</td>
</tr>
<tr>
<td>Maximum Pressurization Rate</td>
<td>58 psi per minute</td>
</tr>
</tbody>
</table>

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
• Marine and Defence
• Subsea Control Umbilical’s
• Subsea Control Umbilical’s
• Subsea Production Control Equipment
• Specialist Subsea Penetrator / Connector Systems

Specification

<table>
<thead>
<tr>
<th>Type</th>
<th>2000 psi Test Vessel</th>
<th>8000 psi Test Vessel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>Hydrostatic</td>
<td>Hydrostatic</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>5-50 °C</td>
<td>0-50 °C</td>
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<tr>
<td>Depth Rating</td>
<td>1380 m (138 bar)</td>
<td>5500 m (550 bar)</td>
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<tr>
<td>Internal Diameter</td>
<td>450 mm</td>
<td>360 mm</td>
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<tr>
<td>Overall Internal Length</td>
<td>940 mm</td>
<td>1770 mm</td>
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<tr>
<td>Volume</td>
<td>0.15 m³ (approx.)</td>
<td>0.23 m³ (approx.)</td>
</tr>
<tr>
<td>Penetrations</td>
<td>2</td>
<td>8</td>
</tr>
</tbody>
</table>

External Clients
• Expro Tronic
• Aker Solutions Aberdeen
• Aker Solutions Norway
• MSCM
• Bel Valves
• Vetco Gray
• ATV Technology Italy
• Pacson Valves U.K.
• Amertek I.S.A.
• Tyco Valves & Controls Italy
• Helipebs Group
• Diamould Ltd
• Rotork U.K. Ltd
• Cortland Fibron
• Wellops U.K. Ltd
• ENERPAC BV
• Babcock International Group
• James Fisher Defence
• NSW
• DUCO
• FMC Technologies AS
• Seacon Europe

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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