# SeaTRiO Pressure Testing Facility

SeaTRiO Ltd offers its state-of-the-art pressure test facility for rental to external companies requiring verification of the integrity and performance of their subsea equipment under simulated deep-sea conditions. The facility is equipped with a robust pressure chamber rated to 600 bar, equivalent to a water depth of 6000 meters, making it ideal for testing a wide range of underwater components and assemblies. With an internal volume of 400mm in diameter and 1000mm in depth, the chamber can accommodate a variety of equipment sizes, from compact electronics housings to larger mechanical units.

The pressure chamber is equipped with three ports, these allow for live electrical testing under pressure, enabling functional checks of active systems such as cameras, lights, or sensors during the pressurization process. This will also allow for complex electrical cable testing for connectors and penetrators. An internal camera can be installed inside the chamber to provide real-time visual monitoring of the equipment under test, giving users valuable insight into the behaviour of their systems under extreme conditions. SeaTRiO's experienced team will perform the test according to the customer's requirements and can provide a detailed test report documenting critical parameters such as maximum pressure, hold times, and ramp rates. This service offers a reliable and convenient way for companies to validate the pressure resilience of their subsea products in a controlled and professionally managed environment.

To streamline the testing process, the pressure chamber is fitted with a rapid open/close mechanism, significantly reducing turnaround time. This increases testing efficiency and can lead to substantial cost savings.



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| Pod internal diameter | 400mm |
| Pod internal length | 1000mm |
| Maximum Pressure | 600 Bar |
| Maximum ramp rate | 100 Bar / min |
| Testing available at pressure | • Insulation resistance Testing (IR)<br>• DC resistance testing<br>• Ethernet speed testing<br>• High Voltage Flash Testing<br>• Cable integrity testing<br>• Cable fatigue testing<br>• Cable cycle testing |