



**Sonardyne International Ltd, located in Yateley, Hampshire, UK, offers for hire an extensive suite of environmental testing facilities which support the development of subsea technology for the offshore oil and gas, oceanographic and maritime security industries.**

**These world-class facilities include a 6,300 metre (20,670 feet, 630 bar) hydrostatic pressure test chamber which is used to simulate the immense pressure of ultra-deep operating environments and its effect on product integrity.**

#### **PRODUCT TESTING AND DEVELOPMENT**

Hydrostatic testing is the most reliable and cost-effective way to validate the integrity of subsea equipment before it is deployed in the field. Sonardyne's state-of-the-art pressure chamber was installed and commissioned in 2015 and uses the latest technology to simulate ultra-deep water operating environments.

This unique facility is now available to hire by third party companies and organisations to support the development of their own underwater instruments and systems.

With an internal diameter of 0.76 metres and internal height of 2 metres, the chamber is able to accommodate large single instruments or multiples of smaller instruments at the same time. Equipment under test can be interfaced via six breakout ports which can be adapted to suit client specific connectors, allowing full communications with the equipment whilst under pressure. The chamber is filled with tap water mixed with a corrosion inhibitor.

The control system for the chamber can be programmed to meet the requirements of specific industry standards including pressure cycling, ramping and holding. Ramp rates of up to 50 bar/min can be programmed and pressure inside the chamber logged. A dedicated Test Engineer supervises all testing activities and can provide clients with a full report which includes applied pressure graphs, test certificates and photographic records.

## **SONARDYNE HYDROSTATIC TEST CHAMBER SIMULATED PRESSURE TESTING TO 6,300 METRES**

#### **WHAT YOU NEED TO KNOW**

- One of the UK's only large, deep-rated pressure test facilities
- Maximum working pressure – 630 bar (9,137 psi)
- Maximum simulated depth – 6,300 metres (20,670 feet)
- Large chamber size – 0.76 metres internal diameter, 2 metres internal length
- Full technical and engineering support available on-site
- Highly competitive testing fees
- Dedicated guest workspace and Wi-Fi internet access
- Facility conveniently located close to major transport routes

Sonardyne's test facility is conveniently located 40 miles south-west of London in Yateley, Hampshire, and just 5 minutes from Junction 4a of the M3 motorway. Equipment can be easily unloaded by forklift through a dedicated roller door from where it can be manoeuvred into position by a motorised, remotely controlled overhead crane rated to 2.5 tonnes. Guest Wi-Fi access is available, along with technical advice from Sonardyne's highly experienced electro-mechanical design engineers if required.

### HYDROSTATIC TEST CHAMBER SPECIFICATIONS

|  |  |
|--|--|
| Maximum dwell period                             | 168 hours  |
| Pressure stability at dwell                      | +/-2 bar   |
| Connectors                                       | 6 x 100 mm diameter breakthroughs that can be adapted for client specific connectors |
| Pressurisation media                             | Tap water with corrosion inhibitor   |
| Full PLC control                                 | Automatic ramp and hold with 40 separate profile operations                          |
| Data logging                                     | Calibrated pressure transducers and full data logging with export to Excel formats   |
| Pressurisation / de-pressurisation control rates | 10 to 50 bar/min   |



#### Support

Full technical and engineering support, as well as a dedicated and fully qualified Test Engineer, are available when you hire the pressure testing facility here at our Blackbushe headquarters.

#### ENQUIRIES

To enquire about pressure testing your equipment at our facilities, including price and availability, please contact our Global Headquarters or email: [support@sonardyne.com](mailto:support@sonardyne.com)

#### Global Headquarters

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#### Equipment handling

Heavy equipment arriving for pressure testing is unloaded via forklift and manoeuvred into the chamber using a remotely controlled 2.5 tonne crane. The chamber is able to accommodate single large instruments or multiples of smaller instruments supported in cradles.



#### Depth rated to 6,300 metres

Underwater components and hardware up to 2 metres in length and 0.76 metres in diameter can be pressure tested to the equivalent of 6,300 metres water depth for up to 168 hours. Full test reports and photographs can be supplied upon request.

