



Deep Ocean Pressure Simulation Testing

CELLULA ROBOTICS LTD.

KEY FEATURES

FULL DIAMETER OPENING (24" X 220") / VIDEO CAMERA INTERNAL OBSERVATION /
DIGITAL DEPTH GAUGES / TEST UP TO 29,000 PSI



Deep Ocean Pressure Simulation Testing

Cellula Robotics Ltd offers a wide variety of services, including product evaluation, internal and external hydrostatic pressure tests, and performance verification, to meet customer needs for hydrostatic pressure testing. These services provide a final check of quality and operational integrity for clients including oil producers, manufacturers of subsea components, pipeline manufacturers and oil and gas companies.

Services

- Engineering design verification
- Product evaluation
- API-17D tests
- Performance verification
- Internal and external hydrostatic pressure testing
- Stress analysis and acceptance tests
- Internal and external hydrostatic pressure tests
- Subsea actuators
- Subsea housings
- Subsea valves
- Umbilical test
- Dynamic or static testing
- Prototype equipment testing
- Subsea cable testing
- Four penetrators available for instrumentation or mechanical interface
- Adaptors can be custom designed



Specifications

PRESSURE VESSEL NO. 1

- ASME pressure vessel code, section VIII – Div 3 certified
- ASME Stamped 1780-02-03
- Testing Pressure: max. 29,000 PSI
- Full diameter opening: 24”
- Inside length 220” (18 ft)

PRESSURE VESSEL NO. 2

- Testing pressure: max. 10,000 PSI
- Full diameter opening: 16”
- Inside length: 50” (4ft)

DELIVERED REPORTS

- Test reports with monitored parameters based on customer request
- Pressure
- Temperature
- Video
- Strain gauges-ASME SA-723 gr3 material

FEATURES

- Video camera for internal observation
- Internal lighting
- Digital temperature monitor
- Data acquisition system and pressure sensor with a rate of 0.01 samples/sec (max)

OPTIONS

- Design and fabrication of special test fixtures for client-specified requirements
- Customizable test procedures
- Collapse and burst testing services available
- Test jigs, fixtures and actuators available for use

FACILITIES

- Unit 105-3728 North Fraser Way, Burnaby, BC, V5J 5G1
- 2700 sq. ft
- Meeting room available to discuss results

Benefits

- ✓ **Reduced Costs.** Save time and money by using a local facility
- ✓ **Reduced risk.** Uncover leaks and mechanical issues sooner
- ✓ **Full ocean depth.** Test designs up to 29,000 PSI and 20,000 msw respectively
- ✓ **Large diameter.** Inner diameter of 24”, allowing for pressure testing of large devices or multiple products at the same time

