

MATRIX DEEPWATER HYPERBARIC CUF

L1 HYPERBARIC CHAMBER SPECIFICATIONS

PRESSURE VESSEL SPECIFICATIONS

- Inner diameter - 1,524 mm (60 in)
- Internal length - 6,000 mm (236 in)
- Chamber volume - 12 m³
- Operating temperature - Ambient, typically between 8°C to 30°C
- Maximum operating pressure - 340 bar (4,930 psi)
- Maximum simulated ocean depth - 3,380 m (11,090 ft)
- Available pressure medium - Water and glycol
- Pressurisation rate to 200 bar - 15 bar/min
- Pressurisation rate to 340 bar - 10 bar/min

EXCLUSIVE TO AUSTRALIA - INTEGRATED EUT FRAME AND CHAMBER SYSTEM

Matrix's L1 chamber lid and EUT (Equipment Under Test) frame have been custom-designed to allow for the mounting and testing of various subsea equipment, including subsea control modules (SCM), pressure control and diverter modules (PCDM), electric flying leads (EFL), unmanned underwater vehicles (UUV) and pressure housings to meet standards such as API 17F.

Matrix's newly integrated L1 Chamber Lid with interchangeable flanges, featuring bespoke penetrations is the first of its kind in Australia. No longer do you need to send subsea equipment overseas. Rather, comprehensive testing and compliance verification for functionality and reliability can be conveniently conducted right here in Australia.



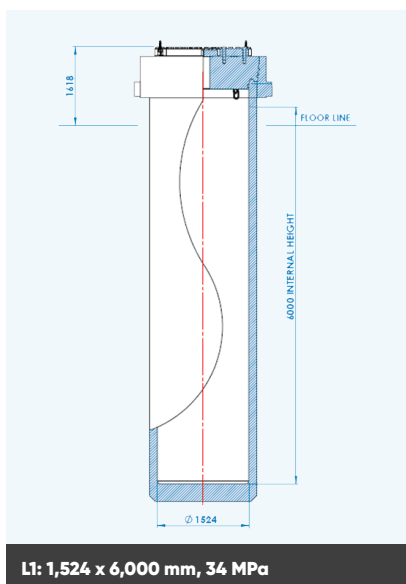
SCM ASSEMBLED INSIDE EUT FRAME HOOKED TO L1 CHAMBER LID AND SUPPORTED BY 40 T CRANE

EXISTING EUT SPECIFICATIONS

- EUT frame (L x W x H) - 1,158 mm x 923 mm x 2,478 mm
- SCM/PCDM inside frame - 810 mm x 810 mm x 1,954 mm
- Maximum weight inside EUT frame - 1,960 kg.

SPECIAL THANKS TO OUR PROJECT PARTNERS

The creation of Matrix Deepwater Hyperbaric Common User Facility (CUF) has been made possible with the support of the Western Australian Government, the Subsea Innovation Cluster Australia and Baker Hughes.



Department of
Jobs, Tourism, Science
and Innovation



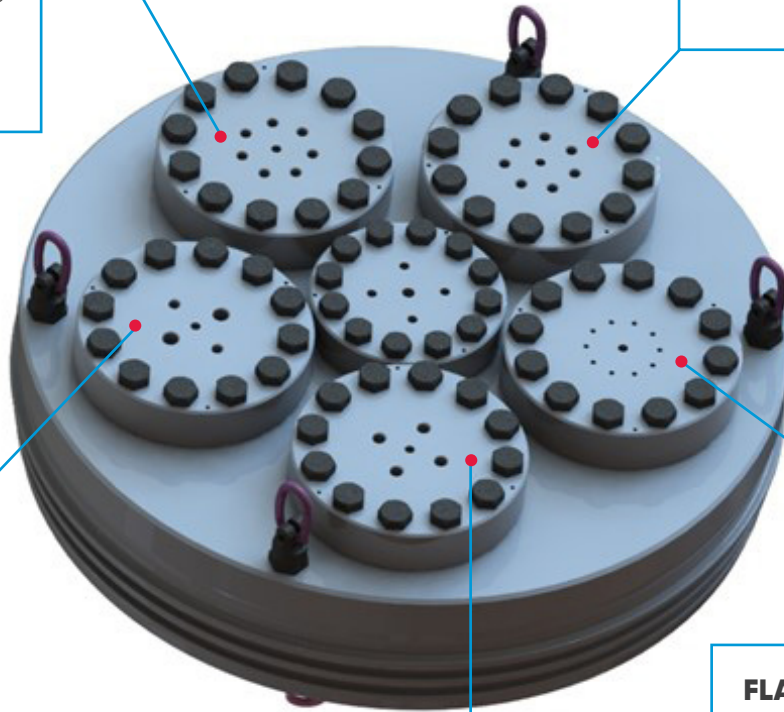
LIGHTER | STRONGER | SMARTER

HYDRAULIC AND ELECTRICAL PENETRATIONS

The L1 lid comes with five available flanges with specified hydraulic, electric and fibre optic penetrations as shown below. Flanges are interchangeable and new custom-built flanges with customer specific penetrations can be arranged to suit the requirements of specific equipment where required.

FLANGE TYPE 1, 2 & 5
 Purpose: Electrical
 Connections: 7 x Hydrobond HDM 306/506
 Testing: SCM Testing; PCDM/PCIU/EDU Testing

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FLANGE TYPE 6
 Purpose: Hydraulic
 Connections: 10 x 9-16/18 UNF-2B
 Testing: SCM Testing

FLANGE TYPE 3
 Purpose: Electrical
 Connections: 2 x Hydrobond HDM 306/506; 2 x Hydrobond HDM 508
 Testing: SCM Testing; PCDM/PCIU/EDU Testing

FLANGE TYPE 4
 Purpose: Optical
 Connections: 4 x SEACON 7887-104
 Testing: PCDM/PCIU/EDU Testing