Omterra - Subsea

Document Name: **OPERATING GUIDELINES FOR E1A4114929 PRESSURE TEST FITTING**

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A	**D. M^{C}DOUGLE**	**L. OWEN**	**S. KELLY**	**09/12/2024**
	INITIAL ISSUE			

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1 PURPOSE & SCOPE

The purpose of this procedure is to detail the process for the use of the Pressure Test Adaptor E1A4114929.

The E1A4114929 Pressure Test Adaptor is be used during the installation of DHCE-B57 mandrel connectors and DHCE-S16 dummy connectors and is used as part of Installation Kit TC6A-1007.

The Maximum Allowable Working Pressure (MAWP) of the Test Adaptor is 16,500 psi (1,137,6 bar). THIS ***MUST*** NOT BE EXCEEDED.

The Test Adaptor is suitable for repeat testing. As long as the prerequisite checks shown in Section 5 are satisfied.

2 ASSOCIATED DOCUMENTS AND DRAWINGS

Number	*Name*	*Location*
10204852	ElecTRON Installation, Operations and Maintenance Manual	omterra.com/subsea
E1A4115009	Calculations For Test Adaptor E1A4114929	Teamcenter
E1A4117126	PDS for E1A4114929	Teamcenter
GB9:TC6A-1007	TC6A-1007 BOM	Teamcenter
T25207	E1A4114929 Drawing and Associated BOM	Teamcenter

3 EQUIPMENT

The following equipment will be required to complete this installation:

- 1/2" Drive Torque Wrench rated for 40.5 lbf·ft (55 Nm) – e.g. NOR-13019.
- 3/4" A/F Torque Wrench spanner fitting, e.g. NOR-29709.
- 18 mm A/F Torque Wrench spanner fitting, e.g. NOR-29876.

4 GENERAL SAFETY INFORMATION AND RISKS

- For full Safety and Hazard information, please consult the ElecTRON IOM or Safety Data Sheet for the test media in use.

	**Warning.** Risk of minor personal injury to persons with sensitivities to mineral based oils. Wear appropriate hand protection when handling products or mineral or synthetic based oils.
	**Warning.** Risk of minor personal injury and/or material or environmental damage during assembly. Caution shall be exercised during assembly to ensure that fittings and hydraulic/pneumatic equipment are correctly installed.
	**Warning.** Risk of bodily injury caused by pressure retaining parts becoming projectile due to user over-pressurising the system.
	**Warning.** Hydraulic injection risk. Only to be used below MAWP with oil and suitable pump in line with Pressure Equipment (Safety) Regulations (2016) or relevant local alternative when used abroad.

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5 PREPARATION

- Visually inspect the individual components of the assembly, ensure there is no damage to the sealing cone, elastomeric seal, threads, or bodies of any of the components. If there is any doubt over the integrity of the Assembly Fixture or any of its components, stop work immediately, quarantine the equipment and contact the Omterra Technical Department.
- Clean components with isopropyl alcohol impregnated wipes, or a lint free cloth soaked in isopropyl alcohol, paying particular attention to the sealing faces.

6 PROCESS

1. Refer to T25207 and associated BOM as well as BOM for TC6A-1007.
2. Fit 1/4 BSP to LF6 HiP Adaptor to Tubing Hanger Test Connector Body, torque to 30 lbf ft (40.67 Nm).
3. Fit O-Seal 50-019EL101 into recess on Tubing Hanger Test Connector Body, slide assembly over Connector Under Test until O-Seal and Test Connector Body are resting flush against the bottom of the Tubing Hanger.

Note: Ensure O-seal remains in the recess while installing to prevent damage.

4. Fit Receptacle Blanking Cap (S1U10507753), torque to 40.5 lbf ft (55 Nm), ensure Tubing Hanger Test Connector Body sits flush on bottom of Tubing Hanger.
5. Fit hose from test equipment to 1/4 BSP to LF6 HiP Adaptor, tighten to 14.75 lbf ft (20 Nm).
6. Carry out testing as stipulated in relevant Installation Procedure, observing the test arrangement MAWP of 16,500 psi, which must not be exceeded.
7. On completion of testing, reduce pressure to ambient and remove oil hose.
8. Loosen Receptacle Blanking Cap (S1U10507753) and remove test equipment from the Connector Under Test.
9. Clean up any residual oil from the test equipment and the Connector Under Test.
10. Repeat visual inspection as stipulated in Section 5.

END OF PROCEDURE

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