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Laboratory Report - EAR-Controlled Data

Attn:	Kevin Withers	Report No:	B2201053
	Devices Inc	Date Reported:	2/10/2022
1801 Nor	th Juniper Ave.	P.O. No:	KW015755
Broken A	Prow OK 74012 US	1.0.110.	

Material:

referenced part tested.

Description: Sample Description: External hydrostatic testing of pressure vessel

Scope of Work: Test #1, seal vessel, test to max of 4,400 psi, with ramp up time being 15 minutes, hold for 1 hour 15 minutes, slowly release pressure over 15 minute time frame. Test #2, Repeat Test #1

Calibrated Equipment Used				
Description	Element ID #	Calibration Due Date:		
Gauge 0-2,000 psi	M664	2022.11.10		
Data Recorder	M794	2022.23.08		
Transducer 0-5,000 psi	M368	2022.30.06		
External Hydrostatic Proof Testing Results				

Control Devices, Inc (CDI), submitted the below referenced part for external hydrostatic pressure proof testing. The customer's requirement was that the assembly hold a minimum of 4,400 psi external hydrostatic pressure with no damage or deformation to the part. The test part was placed into the test chamber and then was filled with water and sealed. The sealed chamber was bled of all trapped air using the attached ported plugs and affixed to Element Materials Technology's hydrostatic pressure testing stand. The external pressure of the device under test was gradually increased over a time period of 15 minutes until a minimum pressure of 4,400 psi was reached. After a short stabilization period, the pressure was held until a minimum time of 1 hour and 15 minutes had elapsed. Pressure was then gradually vented over a period of 15 minutes. The test was then repeated in exact steps listed above. Once the second cycle was complete, the test chamber drained and the part inspected for any damage or deformation. See Figures 1 through 3 for photos of

Specimen ID	Results
A30 Electronics Housing	Satisfactory. Meets requirements. No deformation or damage present

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Approved by:

Brian McDonald

Senior Project Engineer



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Figure 3
Specimen



