



BURST TEST CERTIFICATE

Certificate Number:	70025
Customer:	STFC
Address:	RUTHERFORD APPLETON LABORATORY, HARWELL, OXFORD, DIDCOT, OX11 0QX
Order no.:	4070115664

Drawing No.	TD-10085-1044
Rev.	A
Description	Window Test Assy
Media	N2
Test Pressure	7,67 bar
Pressure Drop	Burst Test (0.0 bar)
Duration	N/A
Temperature	21.9°C

Equipment Used (traceable to national standards)			
Instrument Description	Serial No.	Certificate No.	Cal. Date
P30 Transducer 0-600 bar	2249162	01662180	15/10/14

This certificate certifies that the product(s) detailed in the above table were inspected, tested and unless otherwise specifically stated, conformed satisfactorily to the requirements of this pressure test. Refer to page 2 of this pressure certificate for further details.

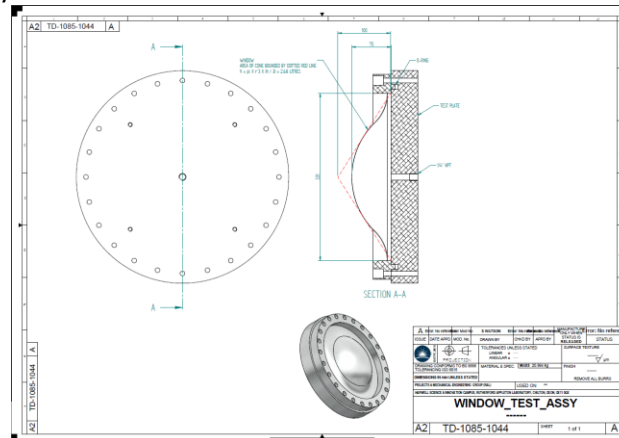
Certificate issued by:
Linton Design & Manufacture Ltd

Name: **Andy Ward**

Date: **20/04/2015**

Test Certificate Detail:

1. Burst test TD 10085 1044 A – theoretical burst pressure 5-6 bar. Information supplied by customer.
2. Drawing of Assembly



3. 200 bar regulated nitrogen supply connected to 1/4" NPT connection via double ferrule connection.
4. Pressure regulated to 9 bar to limit supply.
5. High pressure 7000 bar regulating stem needle valve used to restrict flow rate to approximately 1 bar / 15 second increase.

Window Test assembly in chamber prior to test



Window Test assembly in chamber post test

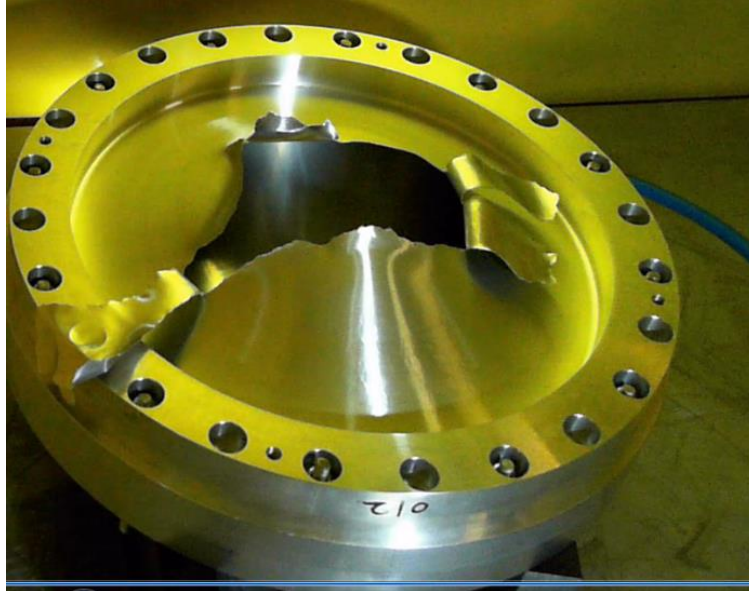
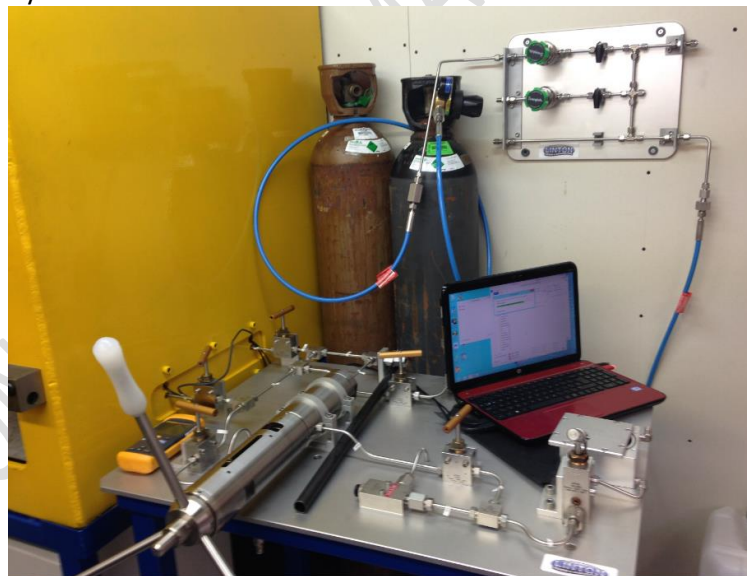
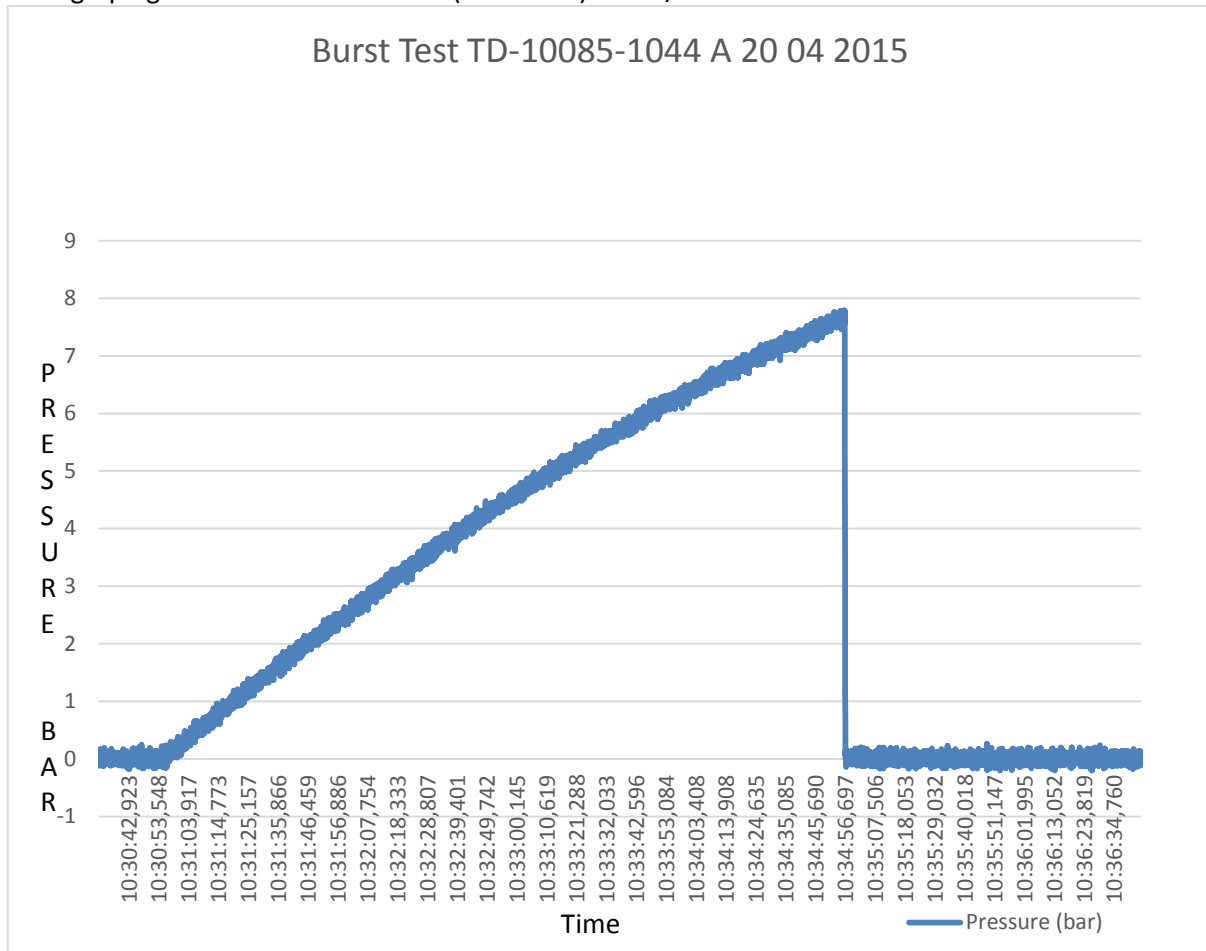


Image of test rig assembly



Test data graph generated from raw data (unfiltered) 30ms / data collection



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Data showing burst point. Average maximum pressure (AMP) from dataset below **red**) AMP =P/N

Pressure (bar)	Time	Date	Temp °C	
7.6	10:34:55,627	20/04/2015	21.9	Maintained Pressure
7.66	10:34:55,664	20/04/2015	21.9	
7.64	10:34:55,694	20/04/2015	21.9	
7.69	10:34:55,722	20/04/2015	21.9	
7.66	10:34:55,786	20/04/2015	21.9	
7.67	10:34:55,815	20/04/2015	21.9	
7.69	10:34:55,845	20/04/2015	21.9	
7.69	10:34:55,881	20/04/2015	21.9	
7.66	10:34:55,908	20/04/2015	21.9	
7.62	10:34:55,949	20/04/2015	21.9	
7.64	10:34:55,972	20/04/2015	21.9	
7.68	10:34:56,003	20/04/2015	21.9	
7.72	10:34:56,032	20/04/2015	21.9	
7.7	10:34:56,068	20/04/2015	21.9	
7.61	10:34:56,095	20/04/2015	21.9	
7.66	10:34:56,134	20/04/2015	21.9	
7.68	10:34:56,163	20/04/2015	21.9	
7.76	10:34:56,190	20/04/2015	21.9	
7.58	10:34:56,255	20/04/2015	21.9	
7.79	10:34:56,284	20/04/2015	21.9	
7.62	10:34:56,321	20/04/2015	21.9	
7.67	10:34:56,375	20/04/2015	21.9	
7.56	10:34:56,408	20/04/2015	21.9	
7.66	10:34:56,469	20/04/2015	21.9	
7.76	10:34:56,511	20/04/2015	21.9	
7.56	10:34:56,538	20/04/2015	21.9	
7.62	10:34:56,565	20/04/2015	21.9	
7.79	10:34:56,595	20/04/2015	21.9	
7.66	10:34:56,657	20/04/2015	21.9	
7.67	10:34:56,697	20/04/2015	21.9	Failure
5.48	10:34:56,725	20/04/2015	21.9	Decay
3.47	10:34:56,752	20/04/2015	21.9	
1.79	10:34:56,792	20/04/2015	21.9	
1.15	10:34:56,818	20/04/2015	21.9	
0.68	10:34:56,846	20/04/2015	21.9	
0.35	10:34:56,876	20/04/2015	21.9	



Linton Design & Manufacture Ltd.
Unit 25 Anglo Business Park,
Smeaton Close, Aylesbury,
Bucks. HP19 8UP
E: mail@lintondesign.co.uk
T: 01296 429179

	0.06	10:34:56,912	20/04/2015	21.9
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