



सीएसआईआर - के २० एच ई ० ओ परीक्षण प्रकोष्ठ
CSIR - CIMER TESTING CELL

Continuation Sheet



TEST CERTIFICATE / परीक्षण प्रमाण पत्र

अतिरिक्त प्रथम प्रति
Additional First Copy

FORMAT NO.: (CIMER) DOM: PFP02: F-01:REV-01)
 (Flameproof & Equipment Safety)

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Result # B1: Determination of Explosion pressure (Reference Pressure Test) *:

Gas mixture: Test with 31% Hydrogen & 14% Acetylene in air.

No. of tests: 3 nos. test with single enclosure with each gas.

Test Condition: Enclosure fitted with component and clause 15.1.2.1

Preliminary Pressure (reference pressure) Test								
Ignition-Spark Position	Guage-Sensor Position	Test with 31% Hydrogen in air			Test with 14% Acetylene in air			Remark
		Test Ref. No.	Max. Pressure in Bar	Time of Pressure rise in ms.	Test Ref. No.	Max. Pressure in Bar	Time of Pressure rise in ms.	
Single Enclosure								
Body	Body	PPM/2501601	4.08	28.26	PPM/2501604	5.14	41.6	Satisfactory
Body	Body	PPM/2501602	4.17	26.16	PPM/2501605	5.55	31.26	Satisfactory
Body	Body	PPM/2501603	4.53	23.46	PPM/2501606	5.57	35.6	Satisfactory

*Results shown for the pressure time curve (enclosed) are the highest recorded value obtained in the test.

Result #B2: Overpressure Test (Static Method): Hydraulic pressure test is conducted as per Cl. 15.1.3.1 of IS/IEC 60079-1: 2007.

Enclosure	Test reference no.	Over pressure (kg/cm ²) maintained for 1 min.	Remark
Single Enclosure	OPM/2501607	10.0 kg/cm ²	No damage or deformation

Result #B3: Test for Non transmission of internal ignition:

Gas Mixture: Test with 28% Hydrogen and 8% Acetylene in air for Gas Gr. IIC

No. of Tests: 5 nos. test with single enclosure with each gas.

Test Condition: Clause 15.2, Table 6 and 15.2.2.1 (No precompression required)

Name of Enclosure	Test Ref. Nos.	Gas Group	Gas Mixture % in Air	No. of Test	Result
Single Enclosure	EIT/2501608 to EIT/2501612 EIT/2501613 to EIT/2501617	IIC	28 % Hydrogen 8% Acetylene	Five	Pass

8.9.16