



सीएसआईआर - के० ख० एवं ई० अ० सं० परीक्षण प्रकोष्ठ

CSIR - CIMFR TESTING CELL



TEST CERTIFICATE / परीक्षण प्रमाण पत्र

अतिरिक्त प्रथम प्रति
Additional First CopyFORMAT NO.: (CIMFR/DO/FLP02: F-01:REV-01)
(Flameproof & Equipment Safety)

ID NO.: 55/16

CODE NO.: FLP/213/15-16

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

Gas mixture: Test with 8% Ethylene in air .					
No. of tests: 3 nos. test with single enclosure.					
Test Condition: Enclosure fitted with component and clause 15.1.2.1					
Type of Test		Gas Group	Gas Mixture % in Air		No. of Tests
Preliminary Test (reference pressure)		IIB	8% Ethylene in air		Three
Test Ref. No.	Ignition	Gauge Position	Max. Pressure in Bar	Time of Pressure rise in millisecond	Remark
Single Enclosure					
PPM/551601	Body	Body	5.31	7.68	No evidence of distress
PPM/551602	Body	Body	5.26	7.39	-do-
PPM/551603	Body	Body	5.09	7.44	-do-

*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/551604	8.0 kg/cm ²	No damage or deformation

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

Gas Mixture: Test with 37% Hydrogen in air for Gas Gr. IIB						
No. of Tests: 5 nos. tests with Single enclosure.						
Test Condition: Clause 15.2, Table 6 and 15.2.1.1 (No precompression required)						
Name of Enclosure	Test Ref. Nos.		Gas Group	Gas Mixture % in Air	No. of Test	Result
Single Enclosure	EIT/551605 to EIT/551609		IIB	37 % Hydrogen	Five	Pass

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