




**IECEx TEST REPORT
IEC 60079-1**
Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures "d"

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Standard	: IEC 60079-1:2014, 7 th Edition
Test procedure	: IECEx System
Test Report Form Number	: ExTR60079-1_7A (released 2014-07)

Instructions for Intended Use of Ex Test Report:

An Ex Test Report provides a clause-by-clause documentation of the initial evaluation and testing that verified compliance of an item or product with an IEC Ex standard. This Ex Test Report is part of an ExTR package that may include other Ex Test Report, Addendum, National Differences and Partial Testing documents, along with a single ExTR Cover. An Ex Test Report is to be compiled and reviewed by the ExTL. The Issuing ExCB indicates final approval of the Ex Test Report as part of the overall ExTR package on the associated ExTR Cover.

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Possible test case verdicts:

- test case does not apply to the test item

.....
:N / A

- test item does meet the requirement

.....
:Pass

General remarks:

The test results presented in this Ex Test Report relate only to the item or product tested.

- "(see Attachment #)" refers to additional information appended to this document.
- "(see appended table)" refers to a table appended to this document.
- Throughout this document, a point "." is used as the decimal separator.

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IEC 60079-1			
Clause	Requirement – Test	Result – Remark	Verdict
1	Scope		
2	Normative references		
3	Terms and definitions		
4	Level of protection (equipment protection level, EPL)		
4.1	General	Ex- component ; IIC	Pass
4.2	Requirements for level of protection “da”	No used	NA
4.3	Requirements for level of protection “db”	Ex- component ; IIC ; “db”	Pass
4.4	Requirements for level of protection “dc”		
4.4.1	General	No used	NA
4.4.2	Construction of “dc” devices		
4.4.2.1	General	No used	NA
4.4.2.2	Free internal volume	No used	NA
4.4.2.3	Seal protection	No used	NA
4.4.2.4	Continuous operating temperature (COT) requirements	No used	NA
4.4.2.5	Ratings	No used	NA
4.4.3	Tests for “dc” devices	No used	NA
5	Flameproof joints		
5.1	General requirements	a) Connection head Cemented joint; threaded joint; b) Field transmitter housing Cemented joint; threaded joint; cylindrical joint	Pass
5.2	Non-threaded joints		
5.2.1	Width of joints (<i>L</i>)	Field transmitter housing Cylindrical joint between enclosure process hole d1 and sensors - Lmin d1=13,5mm	Pass
5.2.2	Gap (<i>i</i>)	ic= from 0,02 to 0,15mm	Pass
5.2.3	Spigot joints	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict
5.2.4	Holes in joint surfaces		
5.2.4.1	General	No used	NA
5.2.4.2	Flanged joints with holes outside the enclosure (see Figures 3 and 5)	No used	NA
5.2.4.3	Flanged joints with holes inside the enclosure (see Figure 4)	No used	NA
5.2.4.4	Spigot joints where, to the edges of the holes, the joint consists of a cylindrical part and a plane part (see Figure 6)	No used	NA
5.2.4.5	Spigot joints where, to the edges of the holes, the joint consists only of the plane part (see Figures 7 and 8), in so far as plane joints are permitted (see 5.2.7)	No used	NA
5.2.5	Conical joints	No used	NA
5.2.6	Joints with partial cylindrical surfaces (not permitted for Group IIC)	No used	NA
5.2.7	Flanged joints for acetylene atmospheres	No used	NA
5.2.8	Serrated joints	No used	NA
5.2.9	Multi-step joints	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict
5.3	Threaded joints	<p>threaded joints</p> <p>Thread of cover: M80x1,5</p> <p>Threads engaged: 8,5</p> <p>Depth of engagement : 14 mm</p> <p>Thread holes for cable glands D2,D3: M20x1,5</p> <p>Depth of engagement : 20mm</p> <p>Thread holes for cable glands D2,D3: 1/2NPTmod or 3/4NPT mod</p> <p>Depth of engagement : 13 mm</p> <p>The threaded hole D1: M20x1,5;M24x1,5;M27x2</p> <p>Depth of engagement : 14mm</p> <p>The threaded hole D1: 1/2NPTmod or 3/4NPT mod</p> <p>Depth of engagement : 13mm</p> <p>As alternative using type taper threads Rc^{1/2}, Rc^{3/4}, BSPT^{1/2}, BSPT ^{3/4} and cylindrical threads G ^{1/2}, G^{3/4}, G ^{3/8}, BSPP^{1/2}, BSPP ^{3/4}, BSPP^{3/8} for only process threaded joint D₁ .</p> <p>see Application manual N-L2236</p>	Pass
5.4	Gaskets (including O-rings)	o-ring in groove	Pass
5.5	Equipment using capillaries	No used	NA
6	Sealed joint		
6.1	Cemented joints		
6.1.1	General	see IEC 60079-0 –threaded cover with cemented glass window	Pass
6.1.2	Mechanical strength	overpressure test 65bar was done on the apparatus equipped by cover with cemented glass window after aging tests. Without leakage	Pass
6.1.3	Width of cemented joints	Minimum L=10,5mm; See drawing. 2-Z-2068 (representative for all variants with window)	Pass
6.2	Fused glass joints		
6.2.1	General	No used	NA
6.2.2	Width of fused glass joints	No used	NA
7	Operating rods	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict
8	Supplementary requirements for shafts and bearings		
8.1	Joints of shafts		
8.1.1	General	No used	NA
8.1.2	Cylindrical joints	No used	NA
8.1.3	Labyrinth joints	No used	NA
8.1.4	Joints with floating glands	No used	NA
8.2	Bearings		
8.2.1	Sleeve Bearings	No used	NA
8.2.2	Rolling-element bearings	No used	NA
9	Light-transmitting parts	No used; glass window	NA
10	Breathing and draining devices which form part of a flameproof enclosure		
10.1	General	No used	NA
10.2	Openings for breathing or draining	No used	NA
10.3	Composition limits	No used	NA
10.4	Dimensions	No used	NA
10.5	Elements with measurable paths	No used	NA
10.6	Elements with non-measurable paths	No used	NA
10.7	Removable devices		
10.7.1	General	No used	NA
10.7.2	Mounting arrangements of the elements	No used	NA
10.8	Mechanical strength	No used	NA
10.9	Breathing devices and draining devices when used as Ex components		
10.9.1	General	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict
10.9.2	Mounting arrangements of the elements and components	No used	NA
10.9.3	Type tests for breathing and draining devices used as Ex components		
10.9.3.1	General	No used	NA
10.9.3.2	Thermal tests		
10.9.3.2.1	General	No used	NA
10.9.3.2.2	Test procedure	No used	NA
10.9.3.2.3	Acceptance criteria	No used	NA
10.9.3.3	Test for non-transmission of an internal ignition		
10.9.3.3.1	General	No used	NA
10.9.3.3.2	Test procedure	No used	NA
10.9.3.3.3	Acceptance criteria	No used	NA
10.9.3.4	Test of the ability of the breathing and draining device to withstand pressure		
10.9.3.4.1	Test procedure	No used	NA
10.9.3.4.2	Acceptance criteria	No used	NA
10.9.4	Ex component certificate	No used	NA
11	Fasteners and openings		
11.1	Type of fastener	No used	NA
11.2	Plastic material or light alloys	No used	NA
11.3	Yield stress	No used	NA
11.4	Studs	No used	NA
11.5	Fasteners through walls	No used	NA
11.6	Blind holes	Minimum 3mm	Pass
11.7	Screws into blind holes	At least 1 thread remains free	Pass
11.8	Closing of through holes		
11.9	Separate fastening arrangements for threaded doors/covers	Lock screw M4 DIN 915 of cover	Pass

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Clause	Requirement – Test	Result – Remark	Verdict
12	Materials		
12.1	Tests prescribed by Clauses 14 to 16	see cl. 15 to 16	Pass
12.2	Assembly of multiple flameproof enclosures	No used	NA
12.3	Intercommunicating enclosure compartments	No used	NA
12.4	Use of cast iron	The enclosure and cover are made of aluminium pressure die-casting (Mg<6%)	NA
12.5	Use of liquids	No used	NA
12.6	Insulating materials for Group I apparatus	No used	NA
12.7	Zinc content	The enclosure and cover are made of aluminium pressure die-casting (Mg<6%)	NA
12.8	Copper or copper alloys in explosive gas atmospheres containing acetylene	No used	NA
13	Entries for flameproof enclosures		
13.1	General	6H for "M" thread 6H M 80x1,5 –cover NPT-threads provided on each part > 5, 6,5;7,5 threads	Pass
13.2	Threaded holes	see Application manual No. N-L2236	Pass
13.3	Non-threaded holes (for Group I only)	No used	NA
13.4	Cable glands	shall be used Ex cable glands – see"limitation conditions" in certificate	Pass
13.5	Conduit sealing devices		

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Clause	Requirement – Test	Result – Remark	Verdict
13.5.1	Conduit sealing devices, whether integral or separate,	No used	NA
13.5.2	Permitted for Group II only	No used	NA
13.5.3	Sealing device such as a stopping box with setting compound	No used	NA
13.6	Plugs and sockets and cable couplers		
13.6.1	Construction & mounting	No used	NA
13.6.2	Flameproof joints of contact parts	No used	NA
13.6.3	Flameproof properties in the event of internal explosion	No used	NA
13.6.4	Not connected to an interlocking switch	No used	NA
13.6.5	Exemption & warning label	No used	NA
13.7	Bushings	No used	NA
13.8	Blanking elements	can be used Ex blanking elements	Pass
14	Verification and tests		Pass
15	Type tests		
15.1	General	see list of tests	Pass
15.2	Tests of ability of the enclosure to withstand pressure		
15.2.1	General	see 15.2.2.	Pass
15.2.2	Determination of explosion pressure (reference pressure)		
15.2.2.1	General	reference pressure with baffle inside of housing: 9,98 bars for Tamb=-50°C Tested sample – with max inner volume without glass window – connection head XD - ADH	Pass
15.2.2.2	Test procedure	reference pressure: 9,98 bar	Pass
15.2.2.3	Rotating electrical machines	No used	NA
15.2.2.4	Pressure-piling	No used	NA
15.2.2.5	Apparatus intended for use in a single gas	No used	NA
15.2.3	Overpressure test		
15.2.3.1	General	No used	Pass

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Clause	Requirement – Test	Result – Remark	Verdict
15.2.3.2	Overpressure test - First method (static)	65 bars – 4x ref. Pressure used type XD-AD	Pass
15.2.3.3	Overpressure test - Second method (dynamic)	No used	NA
15.3	Test for non-transmission of an internal ignition		
15.3.1	General		Pass
15.3.2	Electrical equipment of groups I, IIA and IIB		
15.3.2.1	Test gap and test gas	No used	NA
15.3.2.2	Increasing of gaps for test	No used	NA
15.3.2.3	Number of tests and acceptance criterion	No used	NA
15.3.3	Electrical apparatus of group IIC		
15.3.3.1	General	a)Connection head Internal FTZU record No. 10.0009-15,16; 5x For Tamb max= +200°C Internal FTZU record No 10.0636-16; 5x For Tamb=+150°C with overpressure 85kPa used type XD-AD b)Field transmitter housing Internal FTZU record No 04.0546-16; 5x For Tamb max= +60°C used type XD-ADE	Pass
15.3.3.2	First method – Testing by increased test gap	No used	NA
15.3.3.3	Second method – Testing by increased pressure	a)Connection head Internal FTZU record No. 10.0009-15,16; 5x For Tamb max= +200°C Internal FTZU record No 10.0636-16; 5x For Tamb=+150°C with overpressure 85kPa used type XD-AD b)Field transmitter housing Internal FTZU record No 04.0546-16; 5x For Tamb max= +60°C used type XD-ADE Without transmitting to the ambient explosive mixture	Pass
15.3.3.4	Third method – Testing by oxygen enrichment of test gases	No used	NA
15.3.3.5	Number of tests for single piece production	5x	Pass
15.4	Tests of flameproof enclosures with breathing and draining devices		
15.4.1	General	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict

15.4.2	Tests of ability of the enclosure to withstand pressure		
15.4.2.1	General	No used	NA
15.4.2.2	Replacement of breathing and draining devices	No used	NA
15.4.2.3	Overpressure test	No used	NA
15.4.3	Thermal tests		
15.4.3.1	Test procedure	No used	NA
15.4.3.2	Acceptance criterion	No used	NA
15.4.4	Tests for non-transmission of an internal ignition		
15.4.4.1	General	No used	NA
15.4.4.2	Test procedure	No used	NA
15.4.4.3	Non-transmission test for breathing and draining devices		
15.4.4.3.1	General	No used	NA
15.4.4.3.2	Method A – Testing by increased pressure	No used	NA
15.4.4.3.3	Method B – Testing by oxygen enrichment of test gases	No used	NA
15.4.4.4	Acceptance criterion	No used	NA

15.5	Tests for “dc” devices		
15.5.1	General	No used	NA
15.5.2	Preparation of “dc” samples	No used	NA
15.5.3	Test conditions for “dc” devices		
15.5.3.1	General	No used	NA
15.5.3.2	Test procedure	No used	NA

16	Routine tests		
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16.1	General		
16.1.1	Overview	Manufacturer s responsibility	NA
16.1.2	Routine overpressure test – first method	See cl. 15.2.3.1 (4x reference pressure)	NA
16.1.3	Routine test – second method	No used	NA
16.1.4	Routine test – empty enclosure & parts of enclosure	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict
16.2	Enclosures not incorporating a welded construction	No used	NA
16.3	Enclosures incorporating a welded construction	No used	NA
16.4	Bushings not specific to one flameproof enclosure	No used	NA
16.5	Acceptance criteria	No used	NA
16.6	Batch testing	No used	NA
17	Switchgear for Group I		
17.1	General	No used	NA
17.2	Means of isolation		
17.2.1	General	No used	NA
17.2.2	Fitted inside Ex d enclosure	No used	NA
17.2.3	Fitted inside another enclosure	No used	NA
17.2.4	Plug and socket or a cable coupler – Compliance with 13.3	No used	NA
17.3	Doors or covers		
17.3.1	Quick-acting doors or covers	No used	NA
17.3.2	Doors or covers fixed by screws	No used	NA
17.3.3	Threaded doors or covers	No used	NA
18	Lampholders and lamp caps		
18.1	General	No used	NA
18.2	Device preventing lamps working loose	No used	NA
18.3	Holders and caps for lamps with cylindrical caps		
18.3.1	Holders and caps for tubular fluorescent lamps	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict
18.3.2	Other holders	No used	NA
18.4	Holders for lamps with threaded caps		
18.4.1	Resistant to corrosion	No used	NA
18.4.2	Contact separation	No used	NA
18.4.3	E26/E27 and E39/E40 threaded lampholders	No used	NA
19	Non-metallic enclosures and non-metallic parts of enclosures		
19.1	General	No used - see cl.6	NA
19.2	Resistance to tracking and creepage distances on internal surfaces of the enclosure walls	No used	NA
19.3	Requirements for type tests	See cl.15	Pass
19.4	Test of erosion by flame	No used – cement joint without leakage after climatic tests	NA
20	MARKING		
20.1	General	Ex db IIC	Pass
20.2	Caution and warning markings	No used	NA
20.3	Informative markings	No used	NA
21	Instructions	see Application manual No. N-L2236	Pass
Annex A (Normative)	Additional requirements for crimped ribbon elements and multiple screen elements of breathing and draining devices		
A.1	Crimped ribbon and multiple screen elements	No used	NA
A.2	Path dimensions	No used	NA
A.3	Annex B requirements	No used	NA
A.4	Type tests	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict

Annex B (Normative)	Additional requirements for elements, with non-measurable paths, of breathing and draining devices		
B.1	Sintered metal elements		
B.1.1	Construction	No used	NA
B.1.2	Bubble test pore size	No used	NA
B.1.3	Density	No used	NA
B.1.4	Open porosity and/or fluid permeability	No used	NA
B.1.5	Identification	No used	NA
B.2	Pressed metal wire elements		
B.2.1	Construction	No used	NA
B.2.2	Specifications	No used	NA
B.2.3	Bubble test pore size	No used	NA
B.2.4	Density	No used	NA
B.2.5	Open porosity and or fluid permeability	No used	NA
B.2.6	Identification	No used	NA
B.3	Metal foam elements		
B.3.1	Construction	No used	NA
B.3.2	Chromium content	No used	NA
B.3.3	Bubble test pore size	No used	NA
B.3.4	Density	No used	NA
B.3.5	Open porosity and/or fluid permeability	No used	NA
B.3.6	Identification	No used	NA

Annex C (Normative)	Additional requirements for flameproof entry devices		
C.1	General	No used	NA
C.2	Constructional requirements		
C.2.1	Sealing methods		
C.2.1.1	Cable glands with elastomeric sealing rings		
C.2.1.1.1	Minimum uncompressed axial height	No used	NA
C.2.1.1.2	Cable glands with only one specific elastomeric sealing ring	No used	NA
C.2.1.2	Cable glands sealed with setting compound	No used	NA
C.2.1.3	Conduit sealing devices with setting compound	No used	NA
C.2.1.4	Bushings	No used	NA

IEC 60079-1			
Clause	Requirement – Test	Result – Remark	Verdict
C.2.2	Flameproof joints	No used	NA
C.2.2.1	Threaded joints	No used	NA
C.2.2.2	Non-threaded joints (Group I only)	No used	NA
C.2.3	Constructional requirements for Ex blanking elements		
C.2.3.1	General requirements	No used	NA
C.2.3.2	Metric Ex blanking elements	No used	NA
C.2.3.3	NPT Ex blanking elements	No used	NA
C.2.3.4	Non-threaded Ex blanking elements (Group I only)	No used	NA
C.2.4	Constructional requirements for Ex thread adapters		
C.2.4.1	Compliance of threads	No used	NA
C.2.4.2	Threads co-axial	No used	NA
C.2.4.3	Length and internal volume	No used	NA
C.3	Type tests		
C.3.1	Sealing test		
C.3.1.1	General	No used	NA
C.3.1.2	Cable glands and conduit sealing devices with sealing ring	No used	NA
C.3.1.3	Cable glands sealed with setting compound	No used	NA
C.3.1.4	Conduit sealing devices sealed with setting compound	No used	NA
C.3.2	Test of mechanical strength		
C.3.2.1	Cable glands with a threaded compression element	No used	NA
C.3.2.2	Cable glands with a compression element fixed by screws	No used	NA
C3.2.3	Cable glands sealed with setting compound	No used	NA
C3.2.4	Acceptance criteria	No used	NA
C.3.3	Type tests for Ex blanking elements		
C.3.3.1	Torque test	No used	NA
C.3.3.2	Over-pressure test	No used	NA
C.3.4	Type tests for Ex thread adapters		
C.3.4.1	Torque test	No used	NA
C.3.4.2	Impact test	No used	NA
C.3.4.3	Over-pressure test	No used	NA

IEC 60079-1			
Clause	Requirement – Test	Result – Remark	Verdict

Annex D (Normative)	Empty flameproof enclosures as ex components		
D.1	General	Compliance with IEC 60079-0 & 60079-1 and 60079-31	Pass
D.2	Introductory remarks	Manufacturer's responsibility	NA
D.3	Ex component enclosure requirements		
D.3.1	Compliance with IEC 60079-0 & 60079-1		Pass
D.3.2	Geometry of enclosure	Cylindrical cross-section with taper not exceeding 10% Drawing No. 2-Z-L2068,,1983	Pass
D.3.3	Rotating machines	No used	NA
D.3.4	Means of mounting	See Drawing No 2-Z-L2449;2450;2578;2479	Pass
D.3.5	Drilled holes	See Drawing No.2-Z-L2068,,1983	Pass
D.3.6	Reference pressure	reference pressure: 6,51 bars	Pass
D.3.7	Overpressure	See cl. 15.1.3.1 4x reference pressure – 65 bar Not welded construction of enclosure	Pass
D.3.8	Marking internally	Manufacturer is the holder of the apparatus certificate	Pass
D.3.9	External marking provision	Inside of body	Pass
D.3.10	Information in certificate	See "schedule of limitation" in certificate	Pass
D.4	Utilization of an Ex component enclosure certificate to prepare an equipment certificate		
D.4.1	Procedure	No used	NA
D.4.2	Application of the schedule of limitations	No used	NA

Annex E (Normative)	Cells and batteries used in flameproof "d" enclosures		
E.1	Introductory remarks	No used	NA
E.2	Acceptable electrochemical systems	No used	NA
E.3	General requirements for cells (or batteries) inside flameproof enclosures		
E.3.1	Restrictions	No used	NA
E.3.2	Warning label	No used	NA
E.3.3	Mounting	No used	NA
E.3.4	Relative movement	No used	NA
E.3.5	Verification before and after the tests of enclosures	No used	NA
E.4	Arrangement of safety devices		
E.4.1	Prevention of excessive temperature and cell damage		
E.4.1.1	Short circuit condition	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict
E.4.1.2	Infallible components	No used	NA
E.4.2	Prevention of cell polarity reversal or reverse charging by another cell in the same battery		
E.4.2.1	Additional protection	No used	NA
E.4.2.2	Protection against polarity reversal or reverse charging	No used	NA
E.4.3	Prevention of inadvertent charging of a battery by other voltage sources in the enclosure	No used	NA
E.5	Recharging of secondary cells inside flameproof enclosures		
E.5.1	Allowable cell type	No used	NA
E.5.2	Charging condition and safety devices	No used	NA
E.5.3	Reverse charging	No used	NA
E.5.4	Additional safety device(s)	No used	NA
E.5.5	Recharging within enclosure	No used	NA
E.6	Rating of protection diodes and reliability of protection devices		
E.6.1	Voltage rating & compliance with E.4.2	No used	NA
E.6.2	Voltage rating & compliance with E.4.3	No used	NA
E.6.3	Current rating	No used	NA
E.6.4	Safety integrity	No used	NA

Annex F (Informative)	Mechanical properties for screws and nuts		
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Annex G (Normative)	Additional requirements for flameproof enclosures with an internal source of release (containment system)		
G.1	General	No used	NA
G.2	Release conditions		
G.2.1	No release	No used	NA
G.2.2	Limited release of a gas or vapour	No used	NA
G.2.3	Limited release of a liquid	No used	NA
G.3	Design requirements for the containment system		
G.3.1	General design requirements	No used	NA
G.3.2	Infallible containment system	No used	NA
G.3.3	Containment system with a limited release	No used	NA
G.4	Type tests for the containment system		
G.4.1	Overpressure test	No used	NA

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Clause	Requirement – Test	Result – Remark	Verdict

G.4.2	Leakage test for an infallible containment system	No used	NA
G.4.3	Leakage test for a containment system with a limited release	No used	NA

Annex H (Normative)	Requirements for machines with flameproof “d” enclosures fed from converters		
H.1	General	No used	NA
H.2	Construction requirements for bearings	No used	NA
H.3	Temperature requirements	No used	NA

Measurement Section, including Additional Narrative Remarks (as deemed applicable)