EU-TYPE EXAMINATION
CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

1. **EU-Type Examination Certificate Number:** **ETL22ATEX0109X** **Issue 1**

2. **Product:** **Cable Glands, Blanking Elements/Stopping Plugs, Reducer, Adaptor, Adapter Nipple & Couplings and Breather/drain plugs**

3. **Manufacturer:** **Akshar Brass Industries**

4. **Address:** **Plot No. 46, 47, 50, 51 Survey No. 238, 245, 246 Naghedi Industrial Area, Jamnagar - 361 006 Gujarat India**

5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

6. Intertek Testing Services NA Ltd., Notified Body number 2903 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.
   The examination and tests results are recorded in confidential technical evaluation in Intertek India Report No. CE-JOB-NDA-24-000323-002 (Intertek UK Certification Report Reference No. G105710401) dated 24th April 2024, Intertek India Report No. CE-JOB-NDA-22-000031-005 (Intertek UK Certification Report Reference No. G104937979) dated 20th April 2022, Intertek India Report No. CE-JOB-NDA-19-000073-003 (Intertek UK Certification Report Reference No. G103831646) dated 14th June 2019 and Intertek India Report No. CE-JOB-DEL-14-000650-003 to 007 (Intertek UK Certification Report Reference No. G101888827) dated 9th August 2016.

7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015+A1:2018 and EN 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.

8. If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.

9. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

10. The marking of the product shall include the following:

II 2 G D

Ex db IIC Gb or
Ex eb IIC Gb
Ex tb IIIC Db
Ta: -60°C≤Ta≤+70°C/+105°C/+125°C/+135°C

Certification Officer: Mark Newman **Date:** 7th May 2024

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11. Description of Equipment or Protective System

Akshar Brass Industries manufacture CABTEK Brand Cable Glands, Blanking Elements/Stopping Plugs, Reducer, Adaptor, Adapter Nipple & Coupling and Breathers/drain plugs are certified for Zone 1, 2, 21 and 22.
Cable Glands are metallic in construction and intended to terminate circular armoured, unarmoured and braided cables and flat Cables (as defined by their type designations) into a threaded entry point within associated Flameproof, Increased safety or dust tight enclosures. Without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice and suitable for Cold Flow applications.

Cable Glands, Blanking Elements/Stopping Plugs, Breather Plug, Adaptor, Reducer, Adaptor Nipple and Coupling are intended for Indoor and outdoor use in the appropriate Hazardous areas are made from Brass or Stainless Steel SS316L, Cable sealing rubbers are made of Silicone and Substrate rubber made of Nylon providing environmental protection IP66/IP67/IP68 with entry thread of Metric and NPT (Taper threads) for Ex “db” Protection, While Ex “eb” protection having Metric, NPT (Taper Threads), BSP, PG and ET.

Cable Glands can be produced with extended entry thread with 20mm or 25mm length and conduit connection facility in gland as per customer need without changing flame path and cable clamping range.

- E1FW, E1FX and E1FU Double Compression Cable Glands with Universal Armoured Ring are designed for armoured cables
- CWe, CXe / CUe Single Compression Cable Glands with Universal Armoured Ring for armoured cables
- A2F and IP68 Cable Glands designed for non-armoured and braided cables
- PX2K Cable Gland are for armoured cable with Compound Barrier seal
- PXSS2K Cable Gland are for unarmoured cable with Compound Barrier Seal
- A2F-MH Cable Gland for Multi Core cable to terminate individually, 20s size Specially designed for Duplex and Simple Winding RTD Resistance Temperature Detector, Bearing Temperature Detector (BTD)
- A2F-MHFC, A2F-MHRF, A2F-MHRM Cable Gland for multi core cable to terminate individually with conduit connection
- CABLTC Cable Gland suitable for Barrier Compound Cable Gland for liquid tight metallic flexible hose
- A2F-FF Cable Gland for Flat/Tracer cable to terminate individually
- A2FFFFC, A2FFFRF, A2FFFRM Cable Gland for Flat/Tracer cable to terminate with conduit connection
- SS2KGP-FF Cable Gland for Flat/Tracer cable with double compression

The Blanking Elements/Stopping Plugs are manufactured with an external male thread along its length with the exception of a Hexagonal (HSP Series) or Allen (Dome) Head (ASP Series) at one end.

Adapter/Reducer/Nipple/Coupling

- Adaptor having a male thread entry and adapting to female thread same size or higher size
- Reducer having male thread entry and reducing to female thread lower size
- Adaptor Nipple having same size male thread on both end
- Adaptor Coupling have same size female thread on both end

BDPE Series breather/drain plugs are designed to allow moisture emission from Ex e and Ex tb enclosures and to allow air within the enclosure to breathe with the surrounding atmosphere. Drainage channels through the body allow for the passage of moisture through the filter. The device may be screwed into the wall of an enclosure or into a through hole, being secured by a locknut.
Parallel threaded Breather Drains may be fitted with thread seal and screwed into the wall of an enclosure or into a through hole, being secured with a castellated locknut, they will maintain IP66 degree of protection.
Tapered threaded Breather Drain may be fitted with or without thread seal, see below for approved seals. When fitted with thread seal and secured into a through hole, they will maintain IP66 degree of protection.

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Explanation on E1FW / E1FX / E1FU / A2F / CWe / CXe / CUe / IP68 / PX2K / PXSS2K Cable Glands:

"*" Cable Gland Size	Standard Entry Thread "C"				Optional Entry Thread "C"	
	Metric	NPT/BSP	ET (BSC)	PG	Metric	NPT
16	M16x1.5	⅜"	⅝"	PG9	-	-
20s16	M20x1.5	½"	¾"	PG11	M25x1.5	¾"
20s	M20x1.5	½"	¾"	PG11	M25x1.5	¾"
20	M20x1.5	½"	¾"	PG13.5	M25x1.5	¾"
25s	M25x1.5	¾"	1"	PG16	M32x1.5	1"
25	M25x1.5	¾"	1"	PG21	M32x1.5	1"
32	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"
40	M40x1.5	1¼"	1½"	PG36	M50x1.5	1½"
50s	M50x1.5	1½"	2"	PG36	M63x1.5	2"
50	M50x1.5	2"	2"	PG42	M63x1.5	2½"
63s	M63x1.5	2"	2½"	PG48	M75x1.5	2½"
63	M63x1.5	2½"	2½"	-	M75x1.5	3"
75s	M75x1.5	2½"	3"	-	M90x2	3"
75	M75x1.5	3"	3"	-	M90x2	3½"
90	M90x2	3½"	3½"	-	M100x2	4"

Explanation on A2F-MH, A2F-MHFC, A2F-MHRF, A2F-MHRM Cable Glands:

*Cable Gland Size	Standard Entry Thread "C"				Entry Thread "C" Optional		Multi Hole Seal Detail		
	Metric	NPT/BSP	ET (BSC)	PG	Metric	NPT/BSP	Seal Hole Cable Ø (X)	Ordering Suffix for Seal	Number of Holes
16	M16x1.5	3/8"	5/8"	PG9	M20x1.5	½"	1.5	A	1 to 6
	M16x1.5	3/8"	5/8"	PG9	M20x1.5	½"	2.0	B	1 to 6
20s*	M20x1.5	½ "	¾ "	PG13.5	M25x1.5	¾"	3.7	C	1 to 2
20	M20x1.5	½ "	¾ "	PG16	M25x1.5	¾"	2.5	A	1 to 7
	M20x1.5	½ "	¾ "	PG16	M25x1.5	¾"	3.0	B	1 to 7
	M20x1.5	½ "	¾ "	PG16	M25x1.5	¾"	3.6	C	1 to 7
	M20x1.5	½ "	¾ "	PG16	M25x1.5	¾"	4.0	D	1 to 7
	M20x1.5	½ "	¾ "	PG16	M25x1.5	¾"	4.7	E	1 to 2
25	M25x1.5	¾ "	1"	PG21	M32x1.5	1"	2.5	A	1 to 7
	M25x1.5	¾ "	1"	PG21	M32x1.5	1"	3.0	B	1 to 7
	M25x1.5	¾ "	1"	PG21	M32x1.5	1"	3.6	C	1 to 7
	M25x1.5	¾ "	1"	PG21	M32x1.5	1"	4.0	D	1 to 7
32	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"	2.5	A	1 to 7
	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"	3.0	B	1 to 7
	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"	3.6	C	1 to 7
	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"	4.0	D	1 to 7

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Explanation on A2FFF, A2FFFC, A2FFFRF, A2FFFRM, SS2KGPFF Cable Glands:

*Cable Gland Size	Standard Entry Thread "C"			Optional Entry Thread "C"		Cable Range		No. of Flat Cable used
	Metric	NPT	ET (BSC)	Metric	NPT	Min	Max	
20s	M20x1.5	½"	¾"	M25x1.5	¾"	4x6.2	6.8x11.7	1
20	M20x1.5	½"	¾"	M25x1.5	¾"	5.7x8	8.7x13.5	1
20A	M20x1.5	1/2"	¾"	M25x1.5	¾"	1.4x4.0	1.75x4.6	3
20B	M20x1.5	1/2"	¾"	M25x1.5	¾"	1.4x4.0	1.75x4.6	6
25s	M25x1.5	¾"	1"	M32x1.5	1"	4x6.2	6.8x11.7	2
25	M25x1.5	¾"	1"	M32x1.5	1"	5.7x8	8.7x13.5	1
32s	M32x1.5	1"	1¼"	M40x1.5	1¼"	4x6.2	6.8x11.7	3
32	M32x1.5	1"	1¼"	M40x1.5	1¼"	5.7x8	8.7x13.5	3

Explanation on CABLTC

*Cable Gland Size	Standard Entry Thread "T"		Optional Thread "T"		Entry Thread Length "C"		Max Cable Outer Sheath Dia "B"	Suitable for Conduit Pipe	
	Metric	NPT	Metric	NPT	Metric	NPT		ID "X"	OD "Y"
20s	M20x1.5	1/2"-14	M25x1.5	3/4"-14	16.00	20.00	7.80	9.8 - 10.3	14.2 - 15.6
20	M20x1.5	1/2"-14	M25x1.5	3/4"-14	16.00	20.00	10.40	12.1 - 13.0	17.0 - 19.1

Explanation on Reducer(R), Adaptor(A), Adaptor Nipple (AN), Adaptor coupling (AC)
Threaded Adaptor and Reducer

	Female Metric/NPT/BSP/ET(BSC) Thread Size									
Male Metric/NPT/ BSP/ET(BSC) Entry Size	M16 ⅜", ⅝"ET	M20 ½", ¾"ET	M25 ¾" 1"ET	M32 1" 1¼"ET	M40 1¼" 1½"ET	M50 1½" 2"ET	M63 2" 2½"ET	M75 2½" 3"ET	M90 3" 3½"ET	M100 3½" 4"ET
M16 ⅜", ⅝"ET	A	A	A							
M20 ½", ¾" ET	R	A	A	A	A					
M25 ¾", 1"ET	R	R	A	A	A	A				
M32 1", 1¼"ET	R	R	R	A	A	A	A			
M40 1¼", 1½" ET	R	R	R	R	A	A	A	A		
M50 1½", 2"ET			R	R	R	A	A	A		
M63 2", 2½"ET				R	R	R	A	A		

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M75 2½", 3"ET						R	R	A	A	
M90 3", 3½"ET							R	R	R	A

Male to Male (Adaptor Nipple) and Female to Female (Adaptor Coupling) Thread Converter

Male/Female Metric/NPT/ BSP/ET(BSC) Entry Size	Male/Female Metric/NPT/ BSP/ET(BSC) Thread Size							
	M16 ⅜" ⅝"ET	M20 ½" ¾"ET	M25 ¾" 1"ET	M32 1" 1¼"ET	M40 1¼" 1½"ET	M50 1½" 2" ET	M63 2" 2½"ET	M75 2½" 3"ET
M16 ⅜", ⅝"ET								
M20 ½", ¾"ET								
M25 ¾", 1"ET								
M32 1", 1¼"ET								
M40 1¼", 1½"ET								
M50 1½", 2" ET								
M63 2", 2½"ET								
M75 2½", 3"ET								

Explanation on Ex e Breather/drain plug (BDPE)

"*" Cable Gland Size	Standard Entry Thread "C"				Optional Entry Thread "C"	
	Metric	NPT/BSP	ET (BSC)	PG	Metric	NPT
16	M16x1.5	⅜"	⅝"	PG9	-	-
20	M20x1.5	½"	¾"	PG13.5	-	-
25	M25x1.5	¾"	1"	PG21	M32x1.5	1"

Explanation on Blanking Elements / Stopping Plug ASP / Hexagonal HSP:

Size	Entry Thread Type			
	Metric	NPT/BSP	ET (BSC)	PG
16	M16x1.5	-	-	-
20	M20x1.5	-		-
25	M25x1.5	-	-	-
32	M32x1.5	-	-	-
40	M40x1.5	-	-	-
50	M50x1.5	-	-	-
63	M63x1.5	-	-	-
75	M75x1.5	-	-	-
90	M90x2	-	-	-
100	M100x2	-	-	-

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⅝”		-	⅝”	
⅜”	-	⅜”	⅜”	-
½”	-	½”	½”	-
¾”	-	¾”	¾”	-
1”	-	1”	1”	-
1¼”	-	1¼”	1¼”	-
1½”	-	1½”	1½”	-
2”	-	2”	2”	-
2½”	-	2½”	2½”	-
3”	-	3”	3”	-
3½”	-	3½”	3½”	-
7				PG7
9				PG9
11				PG11
13.5				PG13.5
16				PG16
21				PG21
29				PG29
36				PG36
42				PG42
48				PG48

Ambient and Ingress protection rating:

Product Type	Type of Protection		Ambient Temperature	IP Rating
	Ex d	Ex e		
A2F	✓	✓	-60°C≤Ta≤+125°C	IP66/67
E1FW/E1FX/E1FU	✓	✓	-60°C≤Ta≤+125°C	IP66/67
CWe/CXe/CUe	-	✓	-60°C≤Ta≤+125°C	IP67
PX2K	✓	✓	-60°C≤Ta≤+70°C	IP66/67
PXSS2K	✓	✓	-60°C≤Ta≤+70°C	IP66/67
IP68	✓	✓	-60°C≤Ta≤+105°C	IP68
CABLTC Cable Gland	✓	✓	-60°C≤Ta≤+70°C	IP66/67/68
A2FMH/A2FMHFC/A2FMHRF/A2FMHRM/A2FFF/A2FFFC/FA2FFRF/A2FFRM/SS2KGPFF	✓	✓	-60°C≤Ta≤+135°C	IP66/67
Adaptor, Reducer, Adaptor Nipple and Adaptor Coupling	✓	✓	-60°C≤Ta≤+135°C	IP66/67
Hexagon/Allen Stop Plug - Blanking Element	✓	✓	-60°C≤Ta≤+125°C	IP66/67
Breather/Drain Plug	—	✓	-60°C≤Ta≤+125°C	IP66

12. Report Number

Intertek India Report No. Intertek India Report No. CE-JOB-NDA-24-000323-002 (Intertek UK Certification Report Reference No. G105710401) dated 24th April 2024.

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13. Special Conditions of Certification

(a). Special Conditions of Use

Cable Glands:

1. Cable Glands are only suitable for fixed installations.
2. Cables must be effectively clamped from pulling and twisting.
3. Cable Glands shall not be used in enclosure where the temperatures at the point of entry / mounting are outside the range of ambient temperatures as detailed in general description.
4. The glands should only be used with substantially round cables and tightened to the rated torque with torque wrenches.
5. The cable glands are provided with a sealing ring with an axial sealing height of at least 5 mm. With reference to the clearance groove, the end-user should ensure that at least five complete turns of the connector thread are made. In order to guarantee a screw depth of 8 mm, the enclosure should have a wall thickness of min. 10 mm; if <10 mm, then if necessary, use a washer when cable entries are attached to the pressure-resistant enclosure.

Blanking Elements / Stop Plug:

1. The Blanking elements must not be used with a thread adaptor / reducer in flameproof applications.
2. When fitted in threaded holes the sealing face of the enclosure shall be smooth, the threaded hole shall be perpendicular to the wall of the enclosure and shall be a medium fit thread.
3. When the stopping plug is fitted in plain holes, the sealing face of the enclosure shall be smooth and at right angles to the enclosure face where the hole is in excess of 15mm diameter in enclosures consideration must be given to possible draw angle (taper) on the enclosure wall and the hole shall be no larger than 0.3 to 0.5mm above the major diameter of the male thread on the stopping plug.
4. These stopping plugs can be used in clearance holes or tapped entries on increased safety or flameproof enclosures as appropriate.

Adapter, Reducers & Nipples:

1. For Flameproof Ex “db” applications, only one adapter or reducer shall be used per cable entry.
2. The adaptors or reducers when used in flameproof applications must not be closed with a flameproof stopping plug.
3. When the adaptors or reducers are used for increased safety or dust protection in threaded hole in the enclosure must be at right angles to the enclosure wall, the female thread of the adaptor or reducer are to be suitably sealed, to maintain the ingress protection rating of the associated enclosure.
4. When the adaptors or reducers are used for increased safety or dust protection in a plain hole, the hole in the enclosure must be no greater than 0.7 mm greater than the male thread and the adaptor or reducer must be secured with a locknut the female thread of the adaptor or reducer are to be suitably sealed, to maintain the ingress protection rating of the associated enclosure.

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Breather / Drain Plugs

1. The breather drain plugs shall be used with the supplied sealing washers and the installer shall ensure that the surface of the enclosure against which the sealing gasket seals are in good condition.
2. The breather/drains are only suitable for bottom entry applications within associated Ex eb and Ex tb enclosures.

(b). Conditions of Manufacture - Routine Tests

None.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek India Report No. Intertek India Report No. CE-JOB-NDA-24-000323-002 (Intertek UK Certification Report Reference No. G105710401) dated 24th April 2024.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Cable Glands			
*E1F Ex Cable Gland	Ex-CE1F	2	11/01/2024
*A2F Ex Cable Gland	Ex-CA2F	2	11/01/2024
*A2FMH/A2FFF/SS2KGPFF Cable Gland 2 Sheets	Ex-A2FFF/RC	1	11/01/2024
*CABLTC Ex Cable Gland	Ex-CABLTC	0	11/01/2024
Explosion Proof Compound Barrier Cable Gland 2 Sheets	Ex-CBC	0	12/01/2022
IP68 Cable Gland	Ex-IP68	0	12/01/2022
Adapter 5 Sheets	Ex-A#	0	12/01/2022
Reducer 5 Sheets	Ex-R#	0	12/01/2022
Adaptor Nipple 2 Sheets	Ex-AN#	0	12/01/2022
Adaptor Coupling 2 Sheets	Ex-AC#	0	12/01/2022
Stop Plug / Blanking Elements			
*Hexagonal Stop Plug/Blanking Element	Ex-CHSP	2	11/01/2024
*Allen Stop Plug/Blanking Element	Ex-CASP	2	11/01/2024
Breather Drain Plug for Ex e applications	Ex-BDPE-#	0	12/01/2022
*Installation Manual for A2F Cable Gland	IM / Cable Gland A2F series	02	11/01/2024
*Installation Manual for A2FFF Cable Gland	IM / Cable Gland A2FFF series	01	11/01/2024
*Installation Manual for A2FFFC Cable Gland	IM / Cable Gland A2FFCF series	01	11/01/2024

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*Installation Manual for A2FFRF Cable Gland	IM / Cable Gland A2FFRF series	01	11/01/2024
*Installation Manual for A2FFRM Cable Gland	IM / Cable Gland A2FFRM series	01	11/01/2024
*Installation Manual for A2FMH Cable Gland	IM / Cable Gland A2FMH series	01	11/01/2024
*Installation Manual for A2FMHFC Cable Gland	IM / Cable Gland A2FMHFC series	01	11/01/2024
*Installation Manual for A2FMHRF Cable Gland	IM / Cable Gland A2FMHRF series	01	11/01/2024
*Installation Manual for A2FMHRM Cable Gland	IM / Cable Gland A2FMHRM series	01	11/01/2024
*Installation Manual for Adaptor & Reducer	IM / A-R-AN-AC Series	01	11/01/2024
*Installation Manual for Stopping Plug/Blanking Element	IM / Blanking Elements	02	11/01/2024
*Installation Manual for CABLTC Cable Gland	IM / Cable Gland CABLTC Series	0	11/01/2024
*Installation Manual for Compound Barrier PX2K Cable Gland	IM / Cable Gland Compound Barrier PX2K Series	01	11/01/2024
*Installation Manual for Compound Barrier PXSS2K Cable Gland	IM / Cable Gland Compound Barrier PXSS2K Series	01	11/01/2024
*Installation Manual for Compound Barrier SS2KGP-FF Cable Gland	IM / Cable Gland Compound Barrier SS2KGP-FF Series	01	11/01/2024
*Installation Manual for CW Cable Gland	IM / Cable Gland CW series	02	11/01/2024
*Installation Manual for E1F Cable Gland	IM / Cable Gland E1F series	02	11/01/2024
*Installation Manual for IP68 Cable Gland	IM / Cable Gland IP68 series	01	11/01/2024
*Installation Manual for Breather Drain Plug	IM / BDPE series	01	11/01/2024

Note: An * is included before the title of documents that are new or revised.

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16. Details of Certificate changes

Issue 01 (7th May 2024):

1. Description has been revised and ordering code tables removed.
2. Addition of size of 20s in A2F-MH, CABLTC Cable Gland suitable for Barrier Compound Cable Gland for liquid tight metallic flexible hose and 20A and 20B in A2FFF.
3. Additional evaluation of IP66 of the A2F/E1FW/E1FX/E1FU type cable glands and Hexagon/Allen Stop Plug - Blanking Elements.
4. In Special Conditions of Certification following notes have been deleted:

   Cable Glands:
   1. Install in accordance with requirements of EN 60079-14.
   2. In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent.
   3. Installation should not be carried out under live conditions.

   Blanking Elements / Stop Plug:
   1. Its user's responsibility to ensure the appropriate ingress protection level on the interfaces between these devices and the associated enclosure.
   2. When the stopping plugs are used for increased safety or dust protection and no thread seal is fitted the user shall ensure enclosure and stopping plug interface are suitably sealed, in accordance with EN 60079-14, to maintain the ingress protection rating of the associated enclosure and protection concept.
   3. The stopping plug is secured using a suitable locknut inside the enclosure for plain holes in increased safety enclosures.

   Adapter, Reducers & Nipples:
   1. Its user's responsibility to ensure the appropriate ingress protection level on the interfaces between these devices and the associated enclosure.
   2. When the adaptors and reducers are used for increased safety or dust protection with no thread seal fitted the interface between the enclosure and the male thread and the female thread of the adaptor or reducer are to be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure.
   3. The thread seal is fitted the entry thread, in accordance with EN 60079-14.
   4. In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent.

5. Update of the drawings and Installation Manual to reflect the above changes.