CERTIFICATE NUMBER	22-2230864-PDA
EFFECTIVE DATE	06-May-2022
EXPIRY DATE	05-May-2027
ABS TECHNICAL OFFICE	Rio de Janeiro Engineering - Machinery

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

CMP PRODUCTS LTD.

located at

36 NELSON WAY, NELSON PARK EAST, , CRAMLINGTON, United Kingdom, NE23 1WH

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product:	**Cable, Glands and Accessories**
Model:	**A2FRC Cable Glands for Conduit, Adaptors, Reducers, Stopping Plugs and Breather Drains.**
Endorsements:	
Tier:	**3 - Type Approved, unit certification not required**

This Product Design Assessment (PDA) Certificate remains valid until 05/May/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

João Claudio Machado

Joao C. Bastos Machado,Engineer/Consultant

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Tier: 3 - Type Approved, unit certification not required

Product: **Cable, Glands and Accessories**
Model: **A2FRC Cable Glands for Conduit, Adaptors, Reducers, Stopping Plugs and Breather Drains.**
Endorsements:

Intended Service:
For use on ABS Classed Vessels and Offshore Installations in accordance with the listed ABS Rules and International Standards.

Description:
Gland Accessories of Certified-Safe Type, Model A2FRC for Conduit, Adaptors, Reducers, Stopping Plugs and Breather Drains as certified by a recognized testing laboratory. They can be used in both hazardous and/or non-hazardous locations on ships and offshore units.

A2FRC range of cable glands:
For termination of circular braided or unarmoured cables. Consisting of a male-threaded entry item, seal actuation nut and outer captivated or running coupling. Front entry item, with a displacement sealing ring screws into an enclosure entry. The outer running coupling retained in the seal actuation nut allowing a free running threaded connection.

Ranges of Adaptors, Reducers and Stopping Plugs:
737: Adaptor/Reducer
747, 757, 767: Stopping Plugs
777: Insulated Adaptor
781D: Breather Drain
781E: Breather Drain
783, 793: Y Adaptor, T Adaptor
787: 90 Degree Adaptor
789, PX789: 90 Degree Union
784, PX784: 45 Degree Union
780, PX780: In-Line Union
797: Adaptor

For detailed description, see attached file "Models Description".

Rating:
A2FRC: range of cable glands
IP: IP66
Temperature: -60°C to +130°C (standard seal), -20°C to +200°C (high temperature seal)
Type of Protection: Flameproof, Increased Safety, Restricted Breathing and Dust Protection
Marking: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIIC Gc, Ex ta IIC Da Certificate: IECEx CML 18.0179X, issue 1
II 2G II 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, II 3G Ex nR IIC Gc
Certificates: ATEX CML 18ATEX1321X, issue 1 CML 18ATEX4313X, issue 1
UKEX CML 21UKEX4246X, issue 0
UKEX CML 21UKEX1245X, issue 0

737, 747, 757, 767, 797
IP: IP66
Temperature: Non- Metallic: (737, 747, 757, 767,) -20°C to +60°C, Metallic: -60°C to +200°C
Type of Protection: Flameproof, Increased Safety and Dust Protection
Marking: Ex db IIC Gb, Ex eb IIC Gb, II 1D Ex ta IIIC Da (Metallic version)
Ex db IIC Gb, Ex ta IIIC Da (Non Metallic version)

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Marking: II 2G Ex db IIC Gb, Ex eb IIC Gb, II 1D Ex ta IIIC Da (Metallic version)
II 2G Ex eb IIC Gb, II 1D Ex ta IIIC Da (Non Metallic version)
Certificate: IECEx CML 18.0177X, issue 1
ATEX CML 18ATEX1320X, issue 2
UKEX CML 21UKEX1238X, issue 0

777
IP: IP66
Temperature: -60°C to +130°C
Type of Protection: Flameproof, Increased Safety and Dust Protection
Marking: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Certificate: IECEx CML 18.0185U, issue 0
II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Certificate: ATEX CML 18ATEX1328U, issue 0
UKEX CML 21UKEX1239U, issue 0

787
IP: IP66
Temperature: -60°C to +200°C
Type of Protection: Flameproof, Increased Safety and Dust Protection
Marking: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Certificate: IECEx CML 18.0176U, issue 0
II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Certificate: ATEX CML 18ATEX1319U, issue 0
UKEX Certificate CML 21UKEX1243U, issue 0

783, 793
IP: IP66
Temperature: -60°C to +200°C
Type of Protection: Flameproof, Increased Safety and Dust Protection
Marking: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Certificate: IECEx CML 18.0171U, issue 2
II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Certificate: ATEX CML 18ATEX1306U, issue 1
UKEX Certificate CML 21UKEX1216U, issue 0

784, PX784, 789, PX789
IP: IP66
Temperature: -60°C to +200°C (784, 789), -60°C to +85°C (PX784, PX789)
Type of Protection: Flameproof, Increased Safety, and Dust Protection
Marking: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da IECEx Certificate CML 18.0186U, issue 0
II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da ATEX Certificate: CML 18ATEX1329U, issue 1
UKEX Certificate: CML 21UKEX1242U, issue 0

780, PX780
IP: IP66
Temperature: -60°C to +200°C (780), -60°C to +85°C (PX780)
Type of Protection: Flameproof, Increased Safety, and Dust Protection
Marking: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da IECEx Certificate CML 18.0190X, issue 0
II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da ATEX Certificate: CML 18ATEX1327X, issue 1
UKEX Certificate: CML 21UKEX1240X, issue 0

781D
IP: IP66
Temperature: -60°C to +130°C
Type of Protection: Flameproof, Dust Protection
Marking: Ex db IIC Gb, Ex ta IIIC Da IECEx Certificate CML 18.0187U, issue 0
II 2G 1D Ex db IIC Gb, Ex ta IIIC Da ATEX Certificate CML 18ATEX1330U, issue 0

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Tier: 3 - Type Approved, unit certification not required

UKEX Certificate: CML 21UKEX1241U, issue 0

781E
IP: IP66
Temperature: -60°C to +130°C (-20°C to +60°C Nylon)
Type of Protection: Increased Safety, Dust Protection
Marking: Ex eb IIC Gb, Ex ta IIIC Da IECEx Certificate CML 18.0187U, issue 0
II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da ATEX Certificate CML 18ATEX1330U, issue 0
UKEX Certificate: CML 21UKEX1241U, issue 0

Service Restriction:
Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. The gland accessory is to be assembled strictly in accordance with the fitting instructions supplied with each component.
3. Applicable class of the hazardous location is to be in accordance with the Certificate to cover the A2FRC Cable Glands for Conduit, Adaptors, Reducers, Stopping Plugs and Breather Drains.
4. Special conditions apply as per IECEx Certificates and ATEX Certificates.

Notes/Drawing/Documentation:
DRAWINGS:
Drawing No. FI426, Fitting instruction FI426 780, Revision: 8
Drawing No. FI427, Fitting instruction FI427 781E & 781D, Revision: 14
Drawing No. FI428, Fitting instruction FI428 777, Revision: 12
Drawing No. FI431, Fitting instruction FI431 747 757 767, Revision: 20
Drawing No. FI432, Fitting instruction FI432 787, Revision: 12
Drawing No. FI435, Fitting instruction FI435 737 797, Revision: 15
Drawing No. FI448, Fitting instruction FI448 A2FRC, Revision: 10
Drawing No. FI468, Fitting instruction FI468 PX780, Revision: 9
Drawing No. FI471, Fitting instruction FI471 PX780REX, Revision: 9
Drawing No. FI482, Fitting instruction FI482 PX784REX, PX789REX Revision: 8
Drawing No. FI485, Fitting instruction FI485 789, Revision: 4
Drawing No. FI487, Fitting instruction FI487 784, Revision: 3
Drawing No. FI516, Fitting instruction FI516 783 793, Revision: 7
Drawing No. FI533, Fitting instruction FI533 PX784, PX789 Revision: 4

DATA SHEETS:
Drawing No. SPP240, Technical Data Sheet SPP240 783, Revision: 10
Drawing No. TDS500, Technical Data Sheet TDS500 737, Revision: 22
Drawing No. TDS503, Technical Data Sheet TDS503 757, Revision: 19
Drawing No. TDS504, Technical Data Sheet TDS504 787, Revision: 14
Drawing No. TDS505, Technical Data Sheet TDS505 767, Revision: 14
Drawing No. TDS540, Technical Data Sheet TDS540 A2FRC, Revision:18
Drawing No. TDS586, Technical Data Sheet TDS586 777, Revision: 16
Drawing No. TDS587, Technical Data Sheet TDS587 780, Revision: 14
Drawing No. TDS588, Technical Data Sheet TDS588 747, Revision: 16
Drawing No. TDS590, Technical Data Sheet TDS590 797, Revision: 19
Drawing No. TDS614, Technical Data Sheet TDS614 PX789REX, Revision: 12

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Drawing No. TDS615, Technical Data Sheet TDS615 784, Revision: 12
Drawing No. TDS616, Technical Data Sheet TDS616 PX784REX, Revision: 12
Drawing No. TDS617, Technical Data Sheet TDS617 PX780REX, Revision: 15
Drawing No. TDS618, Technical Data Sheet TDS618 789, Revision: 11

TEST REPORTS:
Drawing No. GB_CML_ExTR18.0299_00, IECEx Report 737 747 757 767 797, Revision: 1, Dated 2019-February, CML Ex United Kingdom
Drawing No. GB_CML_ExTR19.0038_00, IECEx Report 784/PX784 780/PX780 789/PX789, Revision: 1, Dated 2019-March, issued by CML Ex United Kingdom
Drawing No. GB_CML_ExTR19.0052_00, IECEx Report 777 781D 781E 787, Revision: 1, Dated 2019-March, CML Ex United Kingdom
Drawing No. GB_CML_ExTR19.0239_00, IECEx Report material grades, thread options, Revision: 1, Dated 2020-01-23, issued by CML Ex United Kingdom
Drawing No. GB_CML_ExTR19.0063_00, IECEx Report 780/PX780, Revision: 1, Dated 2020-March, issued by CML Ex United Kingdom
Drawing No. GB_CML_ExTR20.0066_00, IECEx Report (2) 789, Revision: 1, Dated 2020-March, issued by CML Ex United Kingdom
Drawing No. GB_CML_ExTR20.0100_00, IECEx Report A2FRC, Revision: 1, Dated 2020-April, issued by CML Ex United Kingdom
Drawing No. GB_CML_ExTR21.0102_00, IECEx Report (2) 737 747 757 767 797, Revision: 1, Dated 2021-May, issued by CML Ex United Kingdom
Drawing No. GB_CML_ExTR21.0123_00, IECEx Report 783 793, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom
Drawing No. R12060A-00, ATEX Report 783 793, Revision: 1, Dated 2018-November, issued by CML Ex United Kingdom
Drawing No. R12060D_00, ATEX Report 737 747 757 767 797, Revision: 1, Dated 2019-February, issued by CML Ex United Kingdom
Drawing No. R12060D_00 UKEX, UKEX Report 737 747 757 767 797, Revision: 1, Dated 2019-February, issued by CML Ex United Kingdom
Drawing No. R12060F_00, ATEX Report 784/PX784 780/PX780 789/PX789, Revision: 1, Dated 2019-March, issued by CML Ex United Kingdom
Drawing No. R12060G_00, ATEX Report 777 781D 781E 787, Revision: 1, Dated 2019-March, issued by CML Ex United Kingdom
Drawing No. R12735B_00, ATEX Report (2) 737 747 757 767 797, Revision: 1, Dated 2021-May, issued by CML Ex United Kingdom
Drawing No. R12735B_00 UKEX, UKEX Report (2) 737 747 757 767 797, Revision: 1, Dated 2021-May, issued by CML Ex United Kingdom
Drawing No. R12735C_00, ATEX Report A2FRC Report, Revision: 1, Dated 2020-April, issued by CML Ex United Kingdom
Drawing No. R12735E_00, ATEX Report 780/PX780, Revision: 1, Dated 2020-March, issued by CML Ex United Kingdom
Drawing No. R12735F_00, ATEX Report (2) 789, Revision: 1, Dated 2020-March, issued by CML Ex United Kingdom
Drawing No. R12922A_00, ATEX Report material grades, thread options, Revision: 1, Dated 2020-January, issued by CML Ex United Kingdom
Drawing No. R12922A_00 UKEX, UKEX Report material grades, thread options, Revision: 1, Dated 2020-January, issued by CML Ex United Kingdom
Drawing No. R13908A_00, ATEX Report (2) 783 793, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom
Drawing No. R13914AB_00 UKEX, UKEX Report 777, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom

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Drawing No. R13914AC_00, UKEX Report 780/PX780, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom
Drawing No. R13914AD_00 UKEX, UKEX Report 781D 781E, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom
Drawing No. R13914AE_00 UKEX, UKEX Report 784/PX784 789/PX789, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom
Drawing No. R13914AF_00 UKEX, UKEX Report 787, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom
Drawing No. R13914AH_00 UKEX, UKEX Report A2FRC, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom
Drawing No. R13914AI_00 UKEX, UKEX Report (2) A2FRC, Revision: 1, Dated 2021-June, issued by CML Ex United Kingdom

CERTIFICATES:
Drawing No. CML 18.0171U, IECEx Certificate 783 793, Revision: 3
Drawing No. CML 18.0176U, IECEx Certificate 787, Revision: 1
Drawing No. CML 18.0177X, IECEx Certificate 737 747 757 767 797, Revision: 2
Drawing No. CML 18.0179X, IECEx Certificate A2FRC, Revision: 2
Drawing No. CML 18.0185U, IECEx Certificate 777, Revision: 1
Drawing No. CML18.0186U, IECEx Certificate 784/PX784 789/PX789, Revision: 2
Drawing No. CML 18.0187U, IECEx Certificate 781D 781E, Revision: 0
Drawing No. CML 18.0190X, IECEx Certificate 780/PX780, Revision: 0
Drawing No. CML 18ATEX1306U, ATEX Certificate 783 793, Revision: 2
Drawing No. CML 18ATEX1319U, ATEX Certificate 787, Revision: 1
Drawing No. CML 18ATEX1320X, ATEX Certificate 737 747 757 767 797, Revision: 3
Drawing No. CML 18ATEX1321X, ATEX Certificate A2FRC, Revision: 2
Drawing No. CML 18ATEX1327X, ATEX Certificate 780/PX780, Revision: 1
Drawing No. CML 18ATEX1328U, ATEX Certificate 777, Revision: 1
Drawing No. CML 18ATEX1329U, ATEX Certificate 789, Revision: 2
Drawing No. CML 18ATEX1330U, ATEX Certificate 781D 781E, Revision: 1
Drawing No. CML 18ATEX4313X, ATEX Certificate A2FRC Ex nR, Revision: 2
Drawing No. CML 21UKEX1216U, UKEX Certificate 783 793, Revision: 1
Drawing No. CML 21UKEX1238X, UKEX Certificate 737 747 757 767 797, Revision: 1
Drawing No. CML 21UKEX1239U, UKEX Certificate 777, Revision: 1
Drawing No. CML 21UKEX1240U, UKEX Certificate 780/PX780, Revision: 1
Drawing No. CML 21UKEX1241U, UKEX Certificate 781D 781E, Revision: 1
Drawing No. CML 21UKEX1242U, UKEX Certificate 784/PX784 789/PX789, Revision: 1
Drawing No. CML 21UKEX1243U, UKEX Certificate 787, Revision: 1
Drawing No. CML 21UKEX1245X, UKEX Certificate A2FRC, Revision: 1
Drawing No. CML 21UKEX4246X, UKEX Certificate A2FRC Ex nR, Revision: 1

Terms of Validity:
This Product Design Assessment (PDA) Certificate remains valid until 05/May/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for

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construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:
2022 Rules for Conditions of Classification, Part 1: 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:
2022 Marine Vessel Rules: 4-1-1/7.15, 4-8-3 /1.7, 4-8-3/13
2022 Steel Vessels for Service on Rivers and Intracoastal Waterways Rules: 4-1-1/21, 4-5-3/11.1.1

2022 Rules for Conditions of Classification, Part 1 - Offshore Units and Structures: 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:
2022 Mobile Offshore Units Rules: 4-1-1/7.9, 4-3-3/9.1.2; 6-1-1/9, 6-1-1/13

2022 Rules for Conditions of Classification, Part 1 - Light and High Speed Craft: 1-1-4/11.9, 1-1-A2, 1-1-A3, which covers the following:
2022 High Speed Craft Rules: 4-1-1/37, 4-6-3/9.1.1

National:
NA

International:
A2FRC:
EN IEC 60079-0:2018, EN IEC 60079-15:2019
737, 787, 797, 777, 747, 757, 767:
EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018, EN 60079-1:2014, EN 60079-31:2014
783, 793 Y adaptor, T adaptor:
EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015+A1:2018, EN 60079-31:2014
780/PX780 784/PX784 789/PX789, Unions:
EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015+A1:2018, EN 60079-31:2014
781D, 781E Breather Drain:
EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015+A1:2018, EN 60079-31:2014

Government:
NA

EUMED:
NA

OTHERS:
NA

CMP PRODUCTS LTD. (WCN: 448444)
A2FRC Cable Glands for Conduit, Adaptors, Reducers, Stopping Plugs and Breather Drains
PDA No.: 22-2230864-PDA
Issuance Date: 6 May 2022
Expiration Date: 6 May 2027

DESCRIPTION:

Gland Accessories of Certified-Safe Type, Model A2FRC for Conduit, Adaptors, Reducers, Stopping Plugs and Breather Drains as certified by a recognized testing laboratory. They can be used in both hazardous and/or non-hazardous locations on ships and offshore units.

A2FRC range of cable glands:

For termination of circular braided or unarmoured cables. Consisting of a male-threaded entry item, seal actuation nut and outer captivated or running coupling. Front entry item, with a displacement sealing ring screws into an enclosure entry. The outer running coupling retained in the seal actuation nut allowing a free running threaded connection.

Ranges of Adaptors, Reducers and Stopping Plugs:

737: Adaptor/Reducer

747, 757, 767: Stopping Plugs

777: Insulated Adaptor

781D: Breather Drain

781E: Breather Drain

783, 793: Y Adaptor, T Adaptor

787: 90 Degree Adaptor

789, PX789: 90 Degree Union

784, PX784: 45 Degree Union

780, PX780: In-Line Union

797: Adaptor

Types 737 and 797 Ranges of Adaptors and Reducers:

Metallic or non-metallic 737 Range of Adaptors / Reducers for conversion to another thread form and/or size. 797 Range of Adaptors intended to convert an enclosure entry to the opposite thread form and/or size. May have an optional O-ring seal.

Types 747, 757 and 767 Ranges of Stopping Plugs:

Type 747 Range of Stopping Plugs manufactured from metallic or non-metallic material comprising a cylindrical body with an external male thread. Having a socket head recess (747), hexagonal head (757) or domed head (767). May have an optional 'O' ring seal.

Type 777 Range of insulated Adaptors:

Consist of three parts: a metallic front portion that forms a threaded entry into the equipment, a non-metallic insulator and a metallic rear section that accommodates a gland.

Type 787 Range of Right-Angled Adaptors:

Have a male thread at one end, a female thread at 90° to the male thread. Intended to provide cable entry options where space is limited. May have an optional O-ring seal.

Type 783 series (Y) and 793 series (T):

Shaped dual entry angled Adaptors. Having a male thread at one end and two female threads 120° and 90° respectively to the male thread. Intended to provide dual cable entry options for cables to enter enclosures where space is limited. May have an optional O-ring seal.

Type 784/PX784 & 789/PX789 Unions:

Intended for connection of male to female, male to male or female to female threads when conventional adaptors/reducers are impractical. Additionally, they may be used to convert an existing cable entry aperture to a different thread-form and/or size. Each union comprises two parts held together with a nut. The interface between the two parts being a serrated face which forms a flame-path when the nut is fully tightened. The union is designed such that connection at both ends is achieved without twist the associated cable. PX versions contain a barrier seal of Epoxy or Liquid Resin (RapidEx) that forms an explosion-proof seal around individual cable conductors.

The Type 780/PX780 Unions:

Intended for in-line connection of male to female, male to male or female to female threads when conventional adaptors/reducers are impractical. Additionally, they may be used to convert an existing cable entry aperture to a different thread-form and/or size. Each union comprises two parts held together with a nut. The interface between the two parts is a serrated face which forms a flame-path when the nut is tightened. The unions are designed such that connection at both ends is achieved without twisting the cable. PX versions contain a barrier seal of Epoxy or Liquid Resin (RapidEx) that forms an explosion-proof seal around individual cable conductors.

Type 781D and 781E Breather Drain Plug:

Intended for mounting to an enclosure to permit the passage of the internal moisture out of the enclosure.

Type 781D Breather Drain:

Intended for installation into a threaded entry on a flameproof enclosure.

Type 781E Breather Drain:

Intended for installation into a threaded entry or a clearance hole on an increased safety enclosure.

Nylon Ex e only version available May have optional O-ring seal.