



제14-0252호

안 전 인 증 서

CMP Products Limited

Glasshouse Street, St Peters, Newcastle upon Tyne,
NE6 1BE, United Kingdom

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행
규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인
증표시의 사용을 인증합니다.

품

목

Cable gland

형식 · 모델 / 용량 · 등급 / 인증번호

형식·모델	용량 · 등급	인증번호
PX**	Ex d IIC, Ex e IIC, Ex nR IIC, Ex ta IIIC	14-GA4BO-0252X

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2013-54호)

인 증 조 건

Tamb = -60℃ to +85℃

2014 년 06 월 13 일

한국가스안전공사 사장





인 증 조 건

1. 제조공장:

Glasshouse Street, St Peters, Newcastle upon Tyne, NE6 1BE, United Kingdom에
위치한 CMP Products Limited에서 생산한 제품 중 아래 인증범위에 한함.

2. 제품개요

The PX** series Type ranges of barrier cable glands consist of a male-threaded front entry component, fitted with a barrier tube such that a spigot/combination joint is formed, which is intended to screw into an entry point of its associated enclosure in accordance with relevant codes of practice. The barrier tube is filled with a sealing material that creates a flameproof seal around the cable cores passing through it and is mechanically retained. The front entry component to main body mating thread may be fitted with an optional 'O'ring seal to provide increased ingress protection. Clamping of the armour or braid is effected by a combination of the front entry component and the different optional armour cone and reversible sleeve combinations within the main body being fastened together. An outer seal nut threads onto the main body and creates an environmental seal between the gland and cable outer sheath. The outer seal nut contains an elastomeric sealing ring and a Nylon 6 ferrule.

3. 인증범위:

품목 Cable gland,

모델 PX**(PX2KW, PX2KX, PX2K, PXRC, PXSS2K, PXSS2K-HC)에 한하여 인증함.

4. 안전한 사용을 위한 조건

- 가. The glands when used for terminating braided cables are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
- 나. When the cable glands are supplied with an entry thread that is one size up from the nominal gland size, designated with the letter 'B' after the gland size, they shall not be used with any adaptor device.
- 다. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent twisting and pulling.

5. 인증(변경)사항

6. 그 밖의 사항

안전인증품의 품질관리, 변경사항 신고 등 인증 받은 자의 의무 준수.



Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
5th Floor, A-Block, CGO Complex, Seminary Hills,
Nagpur - 440006

E-mail : explosives@explosives.gov.in

Phone/Fax No : 0712 -2510248, Fax-2510577

Approval No : A/P/HQ/KA/104/5698 (P444949)

Dated : 18/06/2019

To,

M/s. CMP Products Ltd,
Glasshouse Street, St Peters, Newcastle Upon Tyne, England, Tyne and Wear, NE6 1BS, Newcastle Upon Tyne
NE6 1BS
UK

Sub : Approval of Flame Proof, Increased Safety, under Petroleum Rules 2002- Regarding.

Sir(s),

Please refer to your letter No. OIN302580 dated 16/05/2019 on the subject.

The following Ex electrical equipment(s) manufactured by you according to EN 60079-0 : 2006, EN 60079-0 : 2012, EN 60079-0 : 2012/A11 : 2013, EN 60079-1 : 2004, EN 60079-1 : 2007, EN 60079-1 : 2014, EN 60079-31 : 2014, EN 60079-7 : 2007, EN 60079-7 : 2015, standards and covered under Intertek Testing & Certification Limited / Sira Certification Services Test reports mentioned below is/are approved for use in Zone 1, Zone 2 of Gas IIC hazardous areas coming under the the Petroleum Rules, 2002 administered by this Organization.

Sr. No	Description	Safety Protection	Equipment reference Number	Test Agency			Drawing no
				Name	Certificate No.	Certificate Date	
1	Cable Gland Types A**	Ex e IIC Gb / Ex d IIC Gb	P444949/1	Sira Certification Services	Sira 13 ATEX1068X Issue 2	17/12/2014	As Per Test Report
2	Type 737,747, 757,767 and 797 Range of Adaptors, Reducers and Stopping Plugs	Ex e IIC Gb / Ex d IIC Gb (metallic)	P444949/2	Sira Certification Services	SIRA 13ATEX1265X (issue 1)	17/09/2014	As Per Test Report
3	Type 784 , 789, PX784, PX789 Unions	Ex eb IIC Gb / Ex db IIC Gb	P444949/3	Intertek Testing & Certification Limited	ITS 17ATEX102499U	13/04/2018	As Per Test Report
4	Cable Gland Types Triton T3** and TE**	Ex e IIC Gb / Ex d IIC Gb	P444949/4	Sira Certification Services	SIRA 13ATEX1073X (issue 4)	04/02/2016	As Per Test Report
5	Cable Gland Types SS2K**	Ex e IIC Gb / Ex d IIC Gb	P444949/5	Sira Certification Services	SIRA 13ATEX1069X	29/04/2013	As Per Test Report
6	Cable Gland Types C**	Ex e IIC Gb	P444949/6	Sira Certification Services	SIRA 13ATEX1070X	29/04/2013	As Per Test Report
7	Cable Gland Types E**	Ex e IIC Gb / Ex d IIC Gb	P444949/7	Sira Certification Services	SIRA 13ATEX1071X	29/04/2013	As Per Test Report
8	Types PX** Cable Glands	Ex eb IIC Gb / Ex db IIC Gb	P444949/8	Intertek Testing & Certification Limited	ITS 17ATEX102491X	21/03/2018	As Per Test Report
9	Type 777 Range of Insulated Adaptors	Ex e IIC Gb / Ex d IIC Gb	P444949/9	Sira Certification Services	SIRA 10ATEX1057U	28/04/2010	As Per Test Report
10	PXFC and PXFC-LTPB Barrier Gland for Flexible Conduit	Ex e IIC Gb / Ex d IIC Gb	P444949/10	Sira Certification Services	SIRA 10ATEX1172X (issue 2)	17/02/2012	As Per Test Report
11	TMC2 Ranges of Cable Glands	Ex e IIC Gb	P444949/11	Sira Certification Services	SIRA 09ATEX1164X	24/08/2009	As Per Test Report
12	Type 780, PX780 Unions	Ex eb IIC Gb / Ex db IIC Gb	P444949/12	Intertek Testing & Certification Limited	ITS 17ATEX102498X	13/04/2018	As Per Test Report
13	Type 783 Series (Y) shaped and 793 series (T) shaped dual entry Adaptors	Ex eb IIC Gb / Ex db IIC Gb	P444949/13	Sira Certification Services	SIRA 16ATEX1234U (issue 1)	13/12/2016	As Per Test Report
14	TMCX and TMC Ranges of Cable Glands	Ex e IIC Gb (TMC) / Ex d IIC Gb (TMCX)	P444949/14	Sira Certification Services	SIRA 07ATEX1122X (issue 2)	04/12/2017	As Per Test Report
15	TMC2X Ranges of Cable Glands	Ex e IIC Gb / Ex d IIC Gb	P444949/15	Sira Certification Services	SIRA 09ATEX1165X (issue 1)	22/12/2014	As Per Test Report

16	Type TC and TCCG Ranges of Cable Glands	Ex e IIC Gb / Ex d IIC Gb	P444949/16	Sira Certification Services	SIRA 09ATEX1092X (issue 1)	14/12/2010	As Per Test Report
17	Type 781D Breather / Drain Plugs and Type 781E Breather/Drain Plugs	Ex e IIC Gb (781E) / Ex d IIC Gb (781D)	P444949/17	Sira Certification Services	SIRA 10ATEX1307U (issue 02)	19/09/2013	As Per Test Report
18	Type 787 Range of Right Angled Adaptors	Ex e IIC Gb / Ex d IIC Gb	P444949/18	Sira Certification Services	SIRA 14ATEX1033U	20/03/2014	As Per Test Report
19	Types A2F100, RA2F100, A2F100HC, RA2F100HC, A2F100/M, RA2F100/M, A2F100HC/M and RA2F100HC/M Series of Cable Gland	Ex eb IIC Gb / Ex db IIC Gb	P444949/19	Sira Certification Services	SIRA 16ATEX1018 (issue 1)	04/08/2017	As Per Test Report

This Approval is granted subject to observance of the following conditions:-

1) The design and construction of the equipment shall be strictly in accordance with description, condition and drawings as mentioned in the Intertek Testing & Certification Limited / Sira Certification Services Test Reports referred to above.

2) The equipment shall be used only with approved type of accessories and associated apparatus.

3) Each equipment shall be marked either by raised lettering cast integrally or by plate attached permanently to the main structure to indicate conspicuously:-

- Name of the manufacturer
- Name and number by which the equipment is identified.
- Number & date of the test report of the Intertek Testing & Certification Limited / Sira Certification Services applicable to the equipment.
- Equipment reference number of this letter by which use of apparatus is approved.
- Protection level.

4) A certificate to the effect that the equipment has been manufactured strictly in accordance with the drawing referred to in the Intertek Testing & Certification Limited / Sira Certification Services Test report and is identical with the one tested and certified at Intertek Testing & Certification Limited / Sira Certification Services shall be furnished with each equipment.

5) The customer shall be supplied with a copy of this letter, an extract of the conditions and maintenance schedule, if any, recommended by Intertek Testing & Certification Limited / Sira Certification Services in their test reports and copy of instructions booklet detailing operation & maintenance of the equipment so as to maintain its Flame Proof characteristics.

6) The After sales service and maintenance of subject equipment shall be looked after by your representative M/s. British Engines (India) Private Limited, 6A, Attibele Industrial Area, Bengaluru - 562 107 (Karnataka)

Conditions of the Approval:-

Ex e marked Ex electrical equipment shall be used in Zone 2 Area only.

This approval also covers the permissible variations as approved under the Intertek Testing & Certification Limited / Sira Certification Services test reports referred above. This approval is liable to be cancelled if any of the conditions of the approval is violated or not complied with. The approval may also be amended or withdrawn at any time, if considered necessary in the interest of safety.

The field performance report from actual users/your customers of the subject equipment may please be collected and furnished to this office for verification and record on annual basis.

The Approval is Valid upto 31/12/2021



Yours faithfully,

(K Srinivasa Rao)
Controller of Explosives
For Chief Controller of Explosives
Nagpur

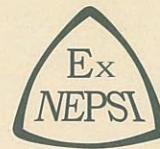
for Chief Controller of Explosives
Nagpur

Copy to :

- Jt. Chief Controller of Explosives, South Circle Office, CHENNAI
- M/s. British Engines (India) Private Limited, 6A, Attibele Industrial Area, Bengaluru - 562 107 (Karnataka)

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

Note:- Please submit the revalidation application one month before the date of Expiry of approval otherwise approval will be treated as cancelled and a fresh application for approval will be considered for the approval.



防 爆 合 格 证

证 号: GYJ18.1252X

由 CMP Products Limited

制造的产品:

(地址: Glasshouse Street, St Peters, Newcastle-upon-Tyne, NE6 1BS, UK)

名 称 电缆引入装置

型 号 规 格 PX**系列

防 爆 标 志 见本证书附件

产 品 标 准 /

图 样 编 号 /

经图样及技术文件的审查和样品检验, 确认上述产品
符合 GB 3836.1-2010、GB 3836.2-2010、GB 3836.3-2010、
GB 3836.8-2014、GB 12476.1-2013、GB 12476.5-2013 标准,
特颁发此证。

本证书有效期: 2018年5月22日至2023年5月21日

备 注 1. 安全使用注意事项见本证书附件。
2. 证书编号后缀“X”表明产品具有安全使用特殊条件, 内容见本证书附件。
3. 型号规格说明见本证书附件。

站 长

国家级仪器仪表防爆安全监督检验站

颁发日期二〇一八年五月二十二日

本证书仅对与认可文件和样品一致的产品有效。

地址: 上海市漕宝路103号
邮编: 200233

网址: www.nepsi.org.cn
Email: info@nepsi.org.cn

电话: +86 21 64368180
传真: +86 21 64844580

国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

(GYJ18.1252X)

(Attachment I)

GYJ18.1252X防爆合格证附件 I

由CMP Products Limited生产的PX**系列电缆引入装置, 经国家级仪器仪表防爆安全监督检验站(NEPSI)检验, 符合下列防爆标准规定的要求:

GB 3836.1 - 2010 爆炸性环境 第1部分: 设备 通用要求

GB 3836.2 - 2010 爆炸性环境 第2部分: 由隔爆外壳“d”保护的设备

GB 3836.3 - 2010 爆炸性环境 第3部分: 由增安型“e”保护的设备

GB 3836.8 - 2014 爆炸性环境 第8部分: 由“n”型保护的设备

GB 12476.1 - 2013 可燃性粉尘环境用电气设备 第1部分: 通用要求

GB 12476.5 - 2013 可燃性粉尘环境用电气设备 第5部分: 外壳保护型“tD”

防爆标志为Ex d IIC Gb / Ex e IIC Gb / Ex nR IIC Gc / Ex tD A20 IP6X, 防爆合格证号为GYJ18.1252X。

一、产品安全使用特殊条件

防爆合格证号后缀“X”, 表明产品在使用时具有安全使用特殊条件, 具体内容如下:

1. 电缆引入装置与电气设备外壳连接时, 引入口的温度范围不得超过 $-60^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 。
2. 当采用编织电缆时, 电缆引入装置仅用在固定安装场所, 并且须由用户采取有效措施夹紧电缆, 以防电缆被拔脱或扭转。
3. 当引入口螺纹为B版本时, 该产品严禁与转换接头配套使用。

二、产品规格

除表1和表2所列螺纹规格以外, 还可选用满足ANSI/ASME B1.20.1-1983第8.1条外螺纹要求的NPT螺纹。

1. PX*-FF系列:

表1

型号规格	引入口螺纹	引入口螺纹 ("B"版本)	电缆内部护套外径 (mm)		电缆外部护套外径 (mm)	
			最小值	最大值	最小值	最大值
20s	M20×1.5	M25×1.5	4.0×6.2	6.8×11.7	4.4×7.8	6.8×11.7
20	M20×1.5	M25×1.5	5.7×8.0	8.7×13.5	4.4×10.9	8.7×16.0

2. 其余PX**系列:

表2

型号规格	引入口螺纹	引入口螺纹 ("B" 版本)	最大芯数	最大芯线直径 (mm)	SWA电缆		SWA、STA、带状铠装、挠性铠装 ^① 、金属丝编织电缆		电缆外部护套外径			
					最小值 (mm)	最大值 (mm)	最小值 (mm)	最大值 (mm)	PXSS2K ^{②③}		PX** ^③	
20s/16	M20×1.5	M25×1.5	11	12.6	0.8	1.25	0	0.8	3.1	8.7	6.1	13.2
20s	M20×1.5	M25×1.5	11	12.6	0.8	1.25	0	0.8	6.1	11.7	9.5	15.9
20	M20×1.5	M25×1.5	11	12.6	0.8	1.25	0	0.8	6.5	14.0	12.5	20.9
20L	M20×1.5	M25×1.5	11	12.6	0.8	1.25	0	0.8	10.0	15.9	—	—
25s	M25×1.5	M32×1.5	21	17.5	1.25	1.6	0	1.1	11.1	20.0	14.0	22.0
25	M25×1.5	M32×1.5	21	17.5	1.25	1.6	0	1.1	11.1	20.0	18.2	26.2
32	M32×1.5	M40×1.5	38	23.6	1.6	2.0	0	1.2	17.0	26.3	23.7	33.9
32L	M32×1.5	M40×1.5	38	23.6	1.6	2.0	0	1.2	20.0	27.4	—	—
40	M40×1.5	M50×1.5	59	30.0	1.6	2.0	0	1.2	22.0	32.1	27.9	40.4
50s	M50×1.5	M63×1.5	89	36.6	2.0	2.5	0	1.5	29.5	38.2	35.2	46.7
50	M50×1.5	M63×1.5	89	41.0	2.0	2.5	0	1.5	35.6	44.1	40.4	53.1
63s	M63×1.5	M75×1.5	115	47.9	2.0	2.5	0	1.5	40.1	50.1	45.6	59.4
63	M63×1.5	M75×1.5	115	53.7	2.0	2.5	0	1.5	47.2	56.0	54.6	65.9
75s	M75×1.5	M90×2.0	140	59.9	2.0	2.5	0	1.5	52.8	62.0	59.0	72.1
75	M75×1.5	M90×2.0	140	64.3	2.5	3.0	0	1.5	59.1	68.0	66.7	78.5
90	M90×2.0	M100×2.0	200	75.3	3.0	3.5	0	1.6	66.6	79.4	76.2	90.4
100	M100×2.0	M115×2.0	200	85.6	3.15	4.0	0	1.6	76.0	90.9	86.1	101.5

注: ①适用于PX2KX, PX2K型;

②可配用另一种外部螺帽, 见图号为GA273的图纸;

③不包括PXRC。

3. 型号命名:

PX **a b c****a**: 可选值: 2KW, 2KX, 2K, B2KW, SS2K, SS2K-HC, RC, VAR**b**: 可选值: REX**c**: 可选值: PB, VAR, FF, HC, TA

三、产品使用注意事项

1. 用户不得自行更换该产品的零部件, 应会同产品制造商共同解决使用中出现的故障, 以杜绝损坏现象的发生。

2. 产品的安装、使用和维护应同时遵守产品说明书及下列相关标准、规范的要求:

GB 3836.13 - 2013 爆炸性环境 第13部分: 设备的修理、检修、修复和改造

GB 3836.15 - 2000 爆炸性气体环境用电气设备 第15部分：危险场所电气安装（煤矿除外）

GB 3836.16 - 2006 爆炸性气体环境用电气设备 第16部分：电气装置的检查和维护（煤矿除外）

GB 50257 - 2014 电气装置安装工程爆炸和火灾危险环境 电气装置施工及验收规范

GB 12476.2 - 2010 可燃性粉尘环境用电气设备 第2部分：选型和安装

GB 15577 - 2007 粉尘防爆安全规程

四、制造厂责任

1. 制造厂必须将上述安全使用特殊条件和使用注意事项纳入产品使用说明书。
2. 制造厂必须严格按照NEPSI认可的文件资料生产。

国家级仪器仪表防爆安全监督检验站

二〇一八年五月二十三日