

GOVERNMENT APPROVED TEST LABORATORY
 IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

Date Issued: **19 Mar 2024**
 *Expiry date: **26 Jan 2027**
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Issue: 2

Ex – Type Examination Certificate

Certificate Number: **MS-XPL/21.0010 X**
 Equipment: **Cable Gland**
 Model / Type: **E****
 Applicant: **CMP Products Limited**
Glasshouse Street
St Peters
Newcastle Upon Tyne
NE6 1BS
United Kingdom
 Manufacturer: **CMP Products Limited**
 Serial No: All serial numbers imported between issued- and expire date and all serial numbers covered by a valid report or acceptable product certification mark.

Supplied by
CMP Products Limited
 Identified by Inspection Authority number
MS-XPL/21.0010 X

And as described in the Explolabs file number **XPL/21804/21.0010** is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of South African Standards.

- SANS 60079-0: 2019 Ed 6** Explosive atmospheres Part 0: Equipment — General requirements
- IEC 60079-0: 2017 Ed 7**
- SANS 60079-1: 2015 Ed 5** Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"
- IEC 60079-1: 2014 Ed 7**
- SANS 60079-7: 2023 Ed 4.1** Explosive atmospheres Part 7: Equipment protection by increased safety "e"
- IEC 60079-7: 2017 Ed 5.1**
- SANS 60079-15: 2022 Ed 5** Explosive atmospheres Part 15: Equipment protection by type of protection "n"
- IEC 60079-15: 2017 Ed 5**
- SANS 60079-31: 2014 Ed 2** Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"
- IEC 60079-31: 2013 Ed 2**

Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
High	Mb Group I	Suitable for normal operation and severe operating conditions	Equipment de-energized when explosive atmosphere present	Not Applicable
High	Gb Group II	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains functioning in zones 1 and 2	Not Applicable
Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	Not Applicable
Very high	Da Group III	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning in zones 20, 21 and 22	Not Applicable

- The use of a component having an alternative profile allowing an integral earthing facility. The type designation identifying the cable gland being fitted with this option.
- The use of metallic continuity diaphragm component specified by the cable gland type designation for use when terminating lead sheathed cables.
- The use of an earthing device component specified by the cable gland type designation for use with variable speed drive (VSD) / variable frequency drive (VFD) cables.
- Alternative material of manufacture of the ferrule to be the same as the gland material.
- The use of seals suitable for flat form cables.
- The use of an O ring seal between the body and the entry item to provide a deluge seal.
- Alternative outer seal arrangement to allow the glands to be fitted to flexible conduit.
- The option to fit a blanking disc between the outer seal and the main body to maintain a minimum IP66 rating. The disc is to be marked 'Ex e only' to indicate that the gland is not suitable for Ex d applications when the disc is fitted.

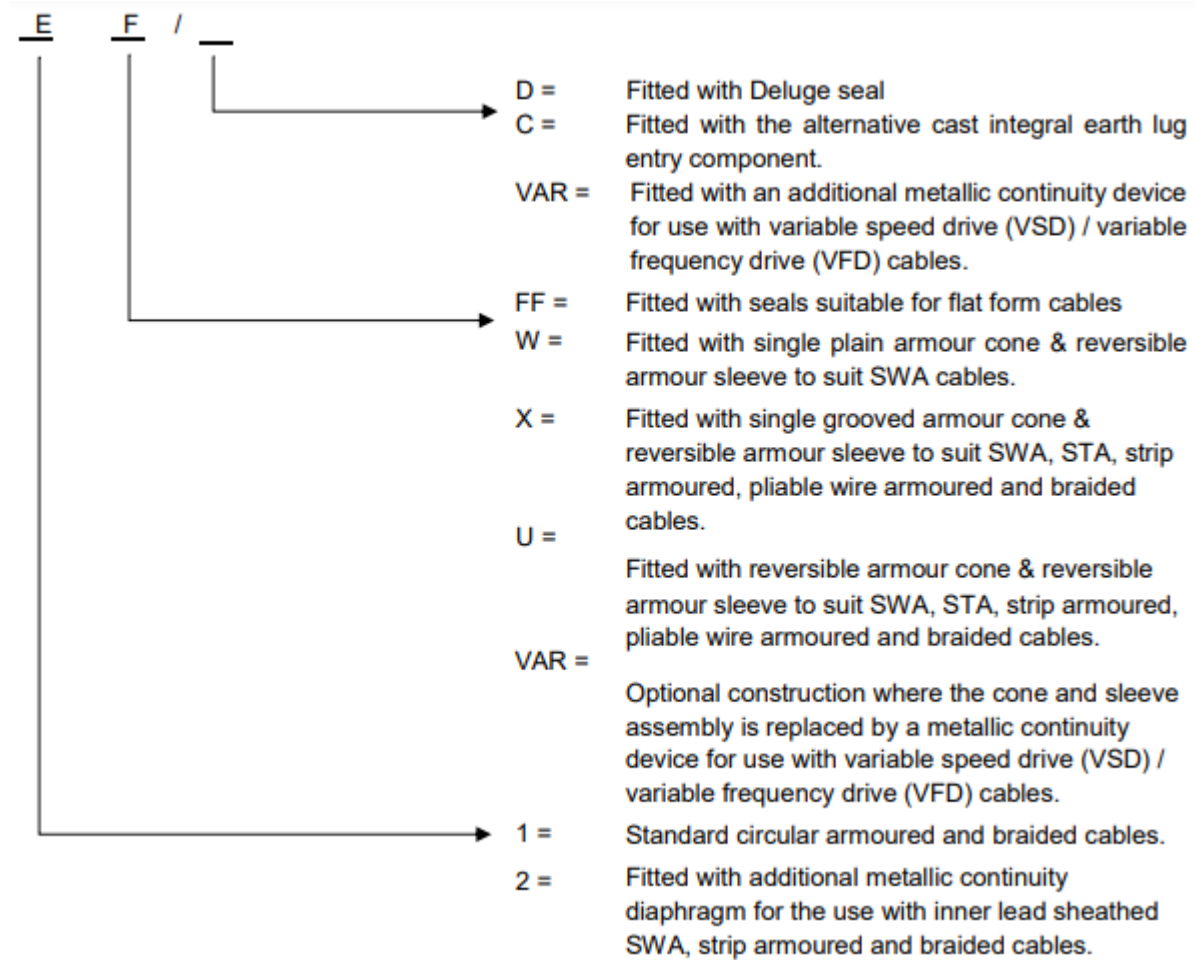
The gland and seal sizes are determined by the entry thread and cable range take sizes:

Gland Size	Entry Thread	Entry Thread "B" version	Inner Seal sheath range Ø (mm)		SWA, STA, strip armour, pliable wire armour & wire braid (mm)		SWA (mm)		Outer seal sheath range Ø (mm)	
			Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
16	M16 x 1.5	-	3.1	8.6	0	0.8	0.8	1.25	6.1	13.2
20S/16	M20 x 1.5	M25 x 1.5	3.1	8.6	0	0.8	0.8	1.25	6.1	13.2
20S16/20S	M20 x 1.5	M25 x 1.5	3.1	8.6	0	0.8	0.8	1.25	9.5	15.9
20S	M20 x 1.5	M25 x 1.5	6.1	11.6	0	0.8	0.8	1.25	9.5	15.9
20S/20	M20 x 1.5	M25 x 1.5	6.1	11.6	0	0.8	0.8	1.25	12.5	20.9
20	M20 x 1.5	M25 x 1.5	6.5	13.9	0	0.8	0.8	1.25	12.5	20.9
20/25S	M20 x 1.5	M25 x 1.5	6.5	13.9	0	1.1	1.25	1.6	14.0	22.0
20/25	M20 x 1.5	M25 x 1.5	6.5	13.9	0	1.1	1.25	1.6	18.2	26.2
25S	M25 x 1.5	M32 x 1.5	11.1	19.9	0	1.1	1.25	1.6	14.0	22.0
25	M25 x 1.5	M32 x 1.5	11.1	19.9	0	1.1	1.25	1.6	18.2	26.2
25/32	M25 x 1.5	M32 x 1.5	11.1	19.9	0	1.2	1.6	2.0	23.7	33.9
32	M32 x 1.5	M40 x 1.5	17.0	26.2	0	1.2	1.6	2.0	23.7	33.9
32/40	M32 x 1.5	M40 x 1.5	17.0	26.2	0	1.2	1.6	2.0	27.9	40.4
40	M40 x 1.5	M50 x 1.5	22.0	32.1	0	1.2	1.6	2.0	27.9	40.4
40/50S	M40 x 1.5	M50 x 1.5	22.0	32.1	0	1.5	2.0	2.5	35.2	46.7
50S	M50 x 1.5	M63 x 1.5	29.5	38.1	0	1.5	2.0	2.5	35.2	46.7
50S/50	M50 x 1.5	M63 x 1.5	29.5	38.1	0	1.5	2.0	2.5	40.4	53.1
50	M50 x 1.5	M63 x 1.5	35.6	44.0	0	1.5	2.0	2.5	40.4	53.1
50/63S	M50 x 1.5	M63 x 1.5	35.6	44.0	0	1.5	2.0	2.5	45.6	59.4
63S	M63 x 1.5	M75 x 1.5	40.1	49.9	0	1.5	2.0	2.5	45.6	59.4
63S/63	M63 x 1.5	M75 x 1.5	40.1	49.9	0	1.5	2.0	2.5	54.6	65.6
63	M63 x 1.5	M75 x 1.5	47.2	55.9	0	1.5	2.0	2.5	54.6	65.9
63/75S	M63 x 1.5	M75 x 1.5	47.2	55.9	0	1.5	2.0	2.5	59.0	72.1
75S	M75 x 1.5	M90 x 2.0	52.8	61.9	0	1.5	2.0	2.5	59.0	72.1
75S/75	M75 x 1.5	M90 x 2.0	52.8	61.9	0	1.5	2.5	3.0	66.7	78.5
75	M75 x 1.5	M90 x 2.0	59.1	67.9	0	1.5	2.5	3.0	66.7	78.5
75/90	M75 x 1.5	M90 x 2.0	59.1	67.9	0	1.6	3.0	3.5	76.2	90.4
90	M90 x 2.0	M100 x 2.0	66.6	79.9	0	1.6	3.0	3.5	76.2	90.4
90/100	M90 x 2.0	M100 x 2.0	66.6	79.9	0	1.6	3.15	4.0	86.1	101.5
100	M100 x 2.0	M115 x 2.0	76.0	90.9	0	1.6	3.15	4.0	86.1	101.5
100/115	M100 x 2.0	M115 x 2.0	76.0	90.9	0	1.6	3.15	4.0	101.5	110.3
115	M115 x 2.0	M130 x 2.0	86.0	97.9	0	1.6	3.15	4.0	101.5	110.3
115/130	M115 x 2.0	M130 x 2.0	86.0	97.9	0	1.6	3.15	4.0	110.2	123.3
130	M130 x 2.0	N/A	97.0	114.9	0	1.6	3.15	4.0	110.2	123.3

E*-FF in these sizes only:

Gland size	Entry thread	Entry thread 'B' version	Cable inner seal sheath range (mm)		Cable outer seal sheath range (mm)	
			Min.	Max.	Min	Max
20s	M20 x1.5	M25 x1.5	4.0 x 6.2	6.8 x 11.7	4.4 x 7.8	6.8 x 11.7
20	M20 x1.5	M25 x1.5	5.7 x 8.0	8.7 x 13.5	4.4 x 10.9	8.7 x 16.0

Type designation code:



Based on the following documentation: IECEx CML 18.0181X. Issue 0.

2. INSTALLATION INSTRUCTIONS

It is the manufacturer’s responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

3. SPECIAL CONDITIONS FOR SAFE USE (denoted by “X” after certificate number)

The following conditions relate to safe installation and/or use of the equipment.

- i. The E**-Type cable glands shall not be used to terminate on braided cables in group I applications.
- ii. The glands when used for terminating braided cables are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
- iii. 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, e.g. 32B****, they shall not be used with any adaptor device.
- iv. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent twisting and pulling.

