CABLE GLAND TYPE : PX2K, PX2KW & PX2KX

INGRESS PROTECTION : IP66, IP67, IP68, Type 4X; Oil Resistant II

PROCESS CONTROL SYSTEM : BS EN ISO 9001

: ISO/IEC 80079-34:2011

HAZARDOUS AREA CLASSIFICATION

ATEX CERTIFICATION No. SIRA 06ATEX1097X & SIRA 07ATEX4326X

(x) II 2 GD Ex d IIC / Ex e II / Ex nR II / Ex tD A21 IP66 ATEX CERTIFICATION CODE IEC Ex CERTIFICATION No : IEC Ex SIR.06.0044X

: Ex d IIC / Ex e IIC / Ex nR II / Ex tD A21 IP66 IEC Ex CERTIFICATION CODE

cCSAus CERTIFICATION No.

: Class I Div 1, 2, Groups A, B, C, D: Class II, Div 1, 2, Groups F and G; Class III, Div 1, 2; cCSAus CERTIFICATION CODE

Class I Zone 1 AEx d IIC / AEx e II

UL CERTIFICATION FILE : E161256, E201187

UL CERTIFICATION CODE : Class I, Div 2, Groups A,B,C,D; Class II, Div 2, Groups F,G (Code details depends upon application - please see certificate)

INSTALLATION INSTRUCTIONS

Installation should only be performed by a competent person using the correct tools. Spanners should be used for tightening. Read all instructions before beginning installation.

SPECIAL CONDITIONS FOR SAFE USE

- 1. The cable gland ranges shall only be used where the temperature, at the point of entry, is in the following ranges: -60°C to +100°C when compound filled.
- 2. The cable glands used for terminating braid cable are only suitable for fixed installations. Cables must be effectively clamped to prevent twisting
- 3. The entry component threads may need additional sealing to maintain the ingress protection ratings as applicable to the associated equipment to
- 4. According to the CEC wiring code, connectors with metric threads are only suitable for Areas Classified in ZONES unless fitted with an approved Metric to NPT thread conversion adaptor
- 5. Wiring method for type of cables that can be used in Class I, Div. 1, 2, and Class I, Zone 1, 2, Classified Areas according to 60079-14 installation
- Shipboard Cables are for use on Marine Platform or shipboards only and are subject to local authorities having jurisdiction on the installation.
- CAUTION To reduce risk of flame propagation, fittings with ISO metric threads require:
 - a) 5 full threads engaged for gas groups C and D
 - b) 10 full threads engaged for gas groups A and B
- 8) When the connector is supplied with metric entry threads, a CMP Entry Thread Washer should be fitted between the connector and the enclosure
- to prevent the ingress of moisture or dust into the enclosure. Thread tape must not be applied to the threads.
- 9) Before installing the connector, ensure that the connector thread forms and the enclosure thread form are compatible

C € 0518

The following accessories are available from CMP Products, as optional extras, to assist with fixing, sealing and earthing:-Locknut | Earth Tag | Serrated Washer | Entry Thread (I.P.) Sealing Washer | Shroud

Cable	Available Entry Threads					Diameter Over	Maximum	Overall		Armour Range			Across	Across	Ordering		
Gland Size	Standard		Option	Minimum Thread	Number Of Cores	Conductors	Diameter Over Lead Sheath	Cable Diameter		Grooved Cone		Stepped Cone		Flats	Corners	Reference (Brass Metric)	ı
	Metric	NPT	NPT	Length	or cores	Max	Max	Min	Max	Min	Max	Min	Max	Max	Max		l
20S/16	M20	1/2"	3/4"	15.0	34	12.6	14.9	6.1	11.5	0.0	1.0	0.9	1.0	30.5	32.9	20S16PX2K1RA	1
20S	M20	1/2"	3/4"	15.0	34	12.6	14.9	9.5	15.9	0.0	1.0	0.9	1.25	30.5	32.9	20SPX2K1RA	
20	M20	1/2"	3/4"	15.0	34	12.6	19.9	12.5	20.9	0.0	1.0	0.9	1.25	30.5	32.9	20PX2K1RA	3
25S	M25	3/4"	1"	15.0	80	17.5	21.0	14.0	22.0	0.0	1.0	1.25	1.6	37.5	40.5	25SPX2K1RA	4
25	M25	3/4"	1"	15.0	80	17.5	25.2	18.2	26.2	0.0	1.0	1.25	1.6	27.5	40.5	25PX2K1RA	} } }
32	M32	1"	1-1/4"	15.0	115	23.6	32.9	23.7	37.9	0.0	1.0	1.6	2.0	55.0	49.7	32PX2K1RA	1 3
40	M40	1-1/4"	1-1/2"	15.0	185	30.0	39.4	27.9	40.4	0.0	1.0	1.6	2.0	55.0	59.4	40PX2K1RA	3
50S	M50	1-1/2"	2"	15.0	274	36.6	45.7	35.2	46.7	0.0	1.0	2.0	2.5	60.0	64.8	50SPX2K1RA	3
50	M50	2″	2-1/2"	15.0	343	41.0	52.1	40.4	53.1	0.0	1.0	2.0	2.5	70.0	75.6	50PX2K1RA	0
63S	M63	2"	2-1/2"	15.0	466	47.9	58.4	45.5	59.4	0.0	1.0	2.0	2.5	75.0	81.0	63SPX2K1RA	1 2
63	M63	2-1/2"	3″	15.0	585	53.7	64.9	54.6	65.9	0.0	1.0	2.0	2.5	80.0	86.4	63PX2K1RA	0
75S	M75	2-1/2"	3″	15.0	727	59.9	72.8	58.0	72.1	0.0	1.0	2.0	2.5	89.0	96.1	75SPX2K1RA	l
75	M75	3″	3-1/2"	15.0	837	64.3	77.5	66.7	78.5	0.0	1.0	2.5	3.0	99.0	106.9	75PX2K1RA	1
90	M90	3-1/2"	3-1/2""	15.0	1146	75.3	89.4	78.2	90.4	0.0	1.6	3.0	3.5	114.0	123.1	90PX2K1RA	1
100	M100	4"	-	15.0	1480	85.6	100.5	86.1	101.5	0.0	1.6	3.15	4.0	133.0	143.6	100PX2K1RA	
	All dimensions in millimetres unless otherwise stated																

** Codes shown are for PX2K glands, for PX2KW or PX2KX add "W" or "X" respectively, e.g. 20PX2KW1RA, 20PX2KX1RA

I, the undersigned, hereby declare that the equipment referred to herein conforms to the requirements of the ATEX Directive 94/9/EC and the following

EN60079-0:2006, EN60079-1:2007, EN60079-7:2007, EN60079-15:2005, BS 6121:1989, EN50262:1998 (Amd 2001), EN61241-0:2004, EN61241-1:2004

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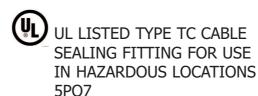
INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES PX2K, PX2KW, & PX2KX

FOR TERMINATION OF CABLES WITH WIRE BRAID, TAPE ARMOUR (STA/DSTA), STRIP ARMOUR & SINGLE WIRE ARMOUR (SWA) (WITH LEAD INNER SHEATH ON PB VARIANTS). FOR USE IN HAZARDOUS LOCATIONS.

INCORPORATING EC DECLARATION OF CONFORMITY TO DIRECTIVE 94/9/EC

CABLE GLAND TYPES PX2K, PX2KW, PX2KX & PB VARIANTS















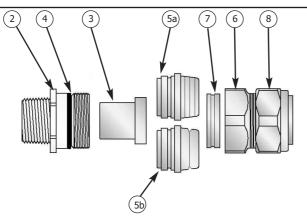




INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES PX2K, PX2KW, & PX2KX

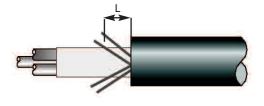
CABLE GLAND COMPONENTS

- 1. Compound (EP2122)
- 2. Entry Component
- Compound Tube
- 4. "O" Rina
- 5a. Grooved Armour Cone (XYZ)
- 5b. Stepped Armour Cone (W)
- 6. Bod
- 7. AnyWay Clamping Ring
- 8. Outer Seal Nut Assembly



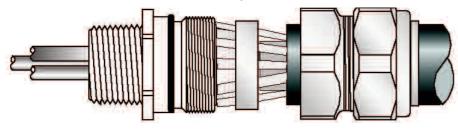
PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

- 1. The PX2K type cable gland is supplied as a Universal Kit with two armour cones, the grooved armour cone (5a) is suitable for Strip Armour, Tape Armour and Braided Cables, and the stepped cone (5b) is suitable for Wire Armour (SWA) cables. The PX2KX gland only has one cone (5a) and the PX2KW only has one cone (5b). (PB Variants have an earthing device for the lead sheath).
- 2. Separate the gland components by removing the body and outer seal nut assembly. Pass the body and outer seal nut assembly (6),(8), and the AnyWay clamping ring (7) over the cable, outer seal nut first.
- 3. Prepare the cable by stripping back the outer sheath and braid / armour to suit the equipment. Expose the braid or armour further so that it can be formed around the armour cone by cutting back the outer sheath by a length "L". This length varies slightly depending upon cable diameter, but typical values are shown below. The inner sheath should be long enough to just pass through the armour cone when installed. On lead sheathed cables, the lead sheath should be long enough to just pass through the armour cone when installed.



CABLE GLAND SIZE	20S/16, 20S, 20	25S, 25, 32, 40	50S, 50, 63S, 63	75S, 75, 90
CABLE STRIP		15 mm	18 mm	20 mm
LENGTH "L"		(0.591 inches)	(0.709 inches)	(0.787inches)

4. For direct make-off, fit the entry item to the equipment. Insert the armour cone (5a or 5b into the entry item (2) and pass the cable through them until the braid or armour contacts the cone and make sure that it is evenly spaced around it. Tighten the body (6) to lock the braid or armour and then slacken and remove the body again, withdrawing the cable with it. (On PB variants the earthing device automatically makes contact with the lead sheath).

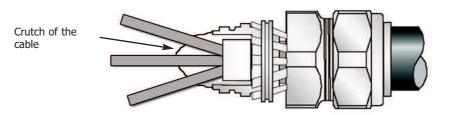


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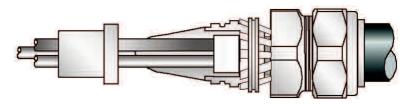
- 5. Remove any bedding or fillers from around the cable cores. If the cable cores have screens, these should be unravelled and then twisted together to form a single core. Wearing the protective gloves supplied, mix all of the two-part epoxy compound (1) until it is pliable and an even colour is achieved (minimum mixing temperature 10°C).
- 6. Separate the cores and apply the compound to the crutch of the cable for a distance of about 6mm and pack into place.

If a drain wire is present then it should be sleeved using some heat shrink tubing which is pushed into the compound before shrinking with the application of some heat.

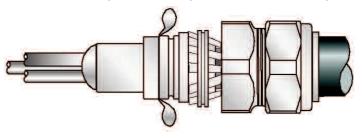
If screens have been twisted together at stage 5, also be sleeved using heat shrink sleeving.



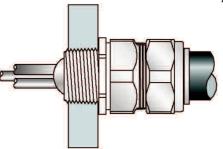
7. Bring the cores together again and pack more compound around them to a length and diameter sufficient to fill the compound tube, ending in a taper



8. Pass the compound tube (3) over the conductors until the stepped end is fully located with the armour cone (5). Pack more compound into place until the compound tube is fully filled



- 9. Re-install the cable assembly into the entry item making sure that the compound is not disturbed and fully tighten the body (6) onto the entry item (2). Tighten the outer seal nut assembly (8) until it comes to an effective stop. This will occur when :-
 - A) The outer seal nut (8) has clearly engaged the cable and cannot be further tightened without the use of excessive force by the installer.
 - B) The outer seal nut (8) is metal to metal with the body of the gland (6).



The gland and conductors must be left undisturbed to allow the compound to cure. This may take up to 24 hours depending upon temperature.