



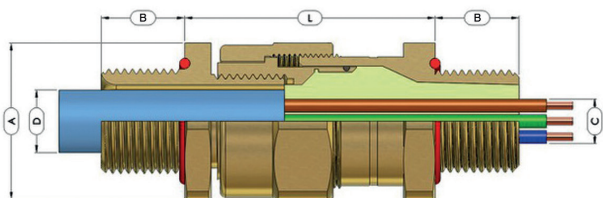
# PRODUCT TYPE CR-S\*M

## Single Compression Barrier Gland featuring Peppers T-1000 Compound and Male Conduit Connection Thread

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68 : Class I Div 2

### PART NUMBERS:

C	R	S	B	M
			S	



REFERENCE NUMBER: 4.3.0

EXAMPLE PART NUMBERING:  
CR-SB/M20/NP/M20/050NPT

<b>CR-S</b>	Gland with Compound (Barrier) Seal
<b>B</b>	Brass (B) / Stainless Steel (S)
<b>M</b>	Male Back End Configuration
<b>20</b>	Gland shell size
<b>L</b>	Locknut (material dictated by gland entry thread material)
<b>N</b>	Including IP Washer, Nylon (N) - Fibre (V) - PTFE (H)
<b>T</b>	Including Earth Tag
<b>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit
<b>NP</b>	Nickel Plated
<b>M20</b>	M20 x 1.5 Male Entry Thread
<b>050NPT</b>	12"NPT Internal Female Connection Thread

OPTIONAL ACCESSORIES:

<b>LOCKNUT</b>	Brass (ACBLN) / Stainless Steel (ACSLN)
<b>EARTH TAG</b>	Brass (ACBET) / Stainless Steel (ACSET)
<b>IP WASHERS</b>	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
<b>SERRATED WASHERS</b>	Stainless Steel (ACSSW)

<b>IP RATING:</b>	IP66 & IP68 (100 metres - 7 Days), Type 4X & DTS01:1991
<b>OPERATING TEMP:</b>	-60°C to +135°C
<b>MATERIALS:</b>	Brass or Stainless Steel
<b>PLATING:</b>	Electroless Nickel
<b>COMPOUND:</b>	Peppers T-1000 Sealing Compound

### PRODUCT DESCRIPTION

"CR-S\*M" type glands, used in any orientation, are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Group I Mining, Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. Commonly referred to as a "Conduit Stopper Box", they are suitable for use with conductors carried in conduit or as a line bushing for terminating flying leads. They provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics. The unique features include Peppers T-1000, the sealing compound that enables a quick and easy installation and an innovative barrier chamber that allows for a full inspection of the compound fill. The gland maintains IP66 & IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads. The gland is supplied with a male conduit connection thread.

### COMPLIANCE STANDARDS:

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529 C22.2 (see certificate), CAN/CSA 60079-0/1/7, UL50

CERTIFICATION:

<b>ATEX</b>	M2 II 1D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
<b>IECEX</b>	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
<b>CEC - Canada</b>	Class I Zone 1 Ex d IIC / Ex e II Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X
<b>EAC</b>	Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU
<b>INMETRO - Brazil</b>	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
<b>SAC - China</b>	Ex d IIC / Ex e IIC
<b>UKRAINE</b>	Ex d IIC X / Ex e II X
<b>CCoE - India</b>	Petroleum Rules 2002 (PESO)
<b>KCS - Korea</b>	Ex d IIC / Ex e IIC
<b>ABS</b>	Specified ABS Rules
<b>LLOYD'S</b>	Enclosure Systems (Part 1B)
<b>RMRS</b>	Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014)

CERTIFICATION No.:

<b>ATEX</b>	SIRA 03ATEX1479X & SIRA 09ATEX4124X
<b>IECEX</b>	IECEX SIR 07.0098X
<b>CEC - Canada</b>	CSA 1356011
<b>EAC</b>	RU C-GB.ГБ06.В.00098
<b>INMETRO - Brazil</b>	NCC 13.2188 X
<b>SAC - China</b>	NEPSI GYJ16.1401X
<b>UKRAINE</b>	UA.TR.047.C.0408-13 & 2937
<b>CCoE - India</b>	PESO P365300/4 & P365300/10
<b>KCS - Korea</b>	15-GA4BO-0665X & 15-GA4BO-0666X
<b>ABS</b>	14-LD463991A-1-PDA
<b>LLOYD'S</b>	10/00056(E1)
<b>RMRS</b>	14.02755.315

### CURING TIME:

@ 21°C Conductor termination can be effected after 1 hour. Compound chamber can be fully inspected after 4 hours and the equipment then energised.

CABLE GLAND SELECTION TABLE  
(ALL DIMENSIONS IN mm)

Gland size	Male Entry Thread		Metric Entry Thread Length [B]	Male Conduit Entry Threads		Gland Seal Range - Cable Sheath & Cores			Nominal Protrusion Length [D]	Dimensions/Weight (Metric)		
	Metric	NPT		Metric	NPT	Number of Cores [C]	Max O Over Cores [C]	Max Outer Sheath [D]		Across Flats [A]	Across Corners	Weight Kgs
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	40	12.5	14.0	45	30.0	33.0	0.224
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	60	17.8	20.0	49	37.6	41.4	0.323
32	M32 x 1.5	1" or 1 1/4"	16	M32 x 1.5	1" or 1 1/4"	80	23.5	26.3	55	46.0	50.6	0.548
40	M40 x 1.5	1 1/4" or 1 1/2"	16	M40 x 1.5	1 1/4" or 1 1/2"	130	28.8	32.2	56	55.0	60.5	0.770
50	M50 x 1.5	2"	16	M50 x 1.5	2"	400	39.4	44.1	62	65.0	71.5	0.875
63	M63 x 1.5	2 1/2"	19	M63 x 1.5	2 1/2"	425	50.0	56.0	63	80.0	88.0	1.281
75	M75 x 1.5	3"	19	M75 x 1.5	3"	425	60.8	68.0	63	90.0	99.0	1.406
80	M80 x 2.0	3" or 3 1/2"	25	M80 x 2.0	3" or 3 1/2"	425	64.4	72.0	81	104.0	115.2	2.957
85	M85 x 2.0	3" or 3 1/2"	25	M85 x 2.0	3" or 3 1/2"	425	69.8	78.0	81	104.0	115.2	2.488
90	M90 x 2.0	3 1/2" or 4"	25	M90 x 2.0	3 1/2" or 4"	425	75.1	84.0	81	114.0	125.7	3.029
100	M100 x 2.0	3 1/2" or 4"	25	M100 x 2.0	3 1/2" or 4"	425	80.5	90.0	81	114.0	125.7	2.825

NOTES

- Gland size does not necessarily equate to the entry thread size.
- The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to "Thread Reference Tables" for specific dimensions.
- Assembly instructions must be read prior to installation and adhered to in full.
- Peppers supply cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. They usually incorporate a thread run out according to the available machining techniques and will not have a full form thread for the entire length

- Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not been taken into account.
- When selecting IP Washer material for use with glands, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
- The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
- Where approval in addition to ATEX, IECEX and CSA is required, this must be clearly requested at time of enquiry / order.