



### PRODUCT DESCRIPTION

"CR-S\*M" type glands, used in any orientation, are certified Flameproof Ex db, Increased Safety Ex eb, 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. Also certified for Divison installations under CEC. 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 db & 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 60079-0/1/7/31, UL50

EXAMPLE PART NUMBERING:  
CR-SBM20/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>OPTIONS</b>	<b>K-V-H</b>	Locknut & Nylon (K), Fibre (V) or PTFE (H) IP Washer
	<b>T</b>	Including Earth Tag
	<b>S</b>	Including Serrated Washer
	<b>1</b>	Quantity per kit
	<b>20</b>	Gland shell size
<b>NP</b>	Nickel Plated	
<b>M20</b>	M20 x 1.5 Male Entry Thread	
<b>050NPT</b>	1/2"NPT Male Connection Thread	

OPTIONAL ACCESSORIES:

<b>LOCKNUT (L)</b>	Brass (ACBLN) / Stainless Steel (ACSLN)
<b>EARTH TAG (T)</b>	Brass (ACBET) / Stainless Steel (ACSET)
<b>IP WASHERS</b>	Nylon (N) / Fibre (J) / PTFE (Z)
<b>SERRATED WASHERS</b>	Stainless Steel (S)

<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

### 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.

CERTIFICATION:

<b>UKEX</b>	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
<b>ATEX</b>	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
<b>IECEX</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
<b>CEC - Canada</b>	Class I Division 2, Groups A, B, C & D Class II Groups E, F & G Class III, Type 4X
<b>EAC</b>	PB Ex db I Mb X / 1Ex db IIC Gb X / PB Ex eb I Mb x / 1Ex eb IIC Gb X / 2Ex nR IIC Gc X Ex ta IIIC Da X
<b>INMETRO - Brazil</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
<b>CCC - China</b>	I M2 Ex db I Mb / II 2G Ex db IIC Gb / II 2G Ex eb I Mb / II 2G Ex eb IIC Gb II 3G Ex nR IIC Gc / II 1D Ex ta IIIC Da
<b>UKRAINE</b>	I M2 Ex db I Mb / II 2G Ex db IIC Gb / II 2G Ex eb I Mb / II 2G Ex eb IIC Gb II 3G Ex nR IIC Gc / II 1D Ex ta IIIC Da
<b>CCoE - India</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc
<b>KCS - Korea</b>	Ex d IIC / Ex e IIC
<b>ABS</b>	Specified ABS Rules
<b>LLOYD'S</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
<b>DNV</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da

CERTIFICATION NO:

<b>UKEX</b>	CML 21UKEX1031X & CML 21UKEX4037X
<b>ATEX</b>	CML 19ATEX1344X & CML 19ATEX4114X
<b>IECEX</b>	IECEX CML 19.0046X
<b>CEC - Canada</b>	CSA 1356011
<b>EAC</b>	RU C-GB AЖ58.B.051063/24
<b>INMETRO - Brazil</b>	NCC 13.2188 X
<b>CCC - China</b>	2021312313000422
<b>UKRAINE</b>	CLJ 18.0322 X
<b>CCoE - India</b>	PESO P494321/18 & P494321/20
<b>KCS - Korea</b>	15-GA4BO-0665X & 15-GA4BO-0666X
<b>ABS</b>	20-LD1944057-PDA
<b>LLOYD'S</b>	LR2124442TA
<b>DNV</b>	TAE00004XK

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 [L]	Dimensions/Weight (Metric)		
	Metric	NPT		Metric	NPT	Number of Cores [C]	Max Ø 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
50S	-	1 1/2"	16	M50 x 1.5	1 1/2" or 2"	200	34.2	38.2	62	65.0	71.5	0.875
50	M50 x 1.5	2"	16	M50 x 1.5	2"	400	39.4	44.1	62	65.0	71.5	0.875
63S	-	2"	19	M63 x 1.5	2" or 2 1/2"	400	44.8	50.1	63	80.00	88.0	1.281
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
75S	-	2 1/2"	19	M75 x 1.5	2 1/2" or 3"	425	55.4	62.0	63	90.0	99.0	1.406
75	M75 x 1.5	3" or 3 1/2"	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 our "Thread Reference Tables" for specific dimensions.
- Assembly instructions must be read prior to installation and adhered to in full.
- Peppers supply products with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. We usually incorporate a thread run out according to general machining techniques and parts 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 & Shroud 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 UKEX, ATEX, IECEX and CSA is required, this must be clearly requested at time of enquiry / order.