

# Single Seal Barrier Gland featuring Peppers T-1000 Compound with Female Thread for Conduit Connection

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : Class I Div 2



## PRODUCT TYPE CR-S\*F



### PRODUCT DESCRIPTION

"CR-S\*F" 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 Division 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 female 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

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  |
| <b>CEC - Canada</b>     | Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da<br>Class I Division 2, Groups A, B, C & D<br>Class II Groups E, F & G<br>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  |
| <b>CCC - China</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>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>ECAS-Ex</b>          | Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc  |
| <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:

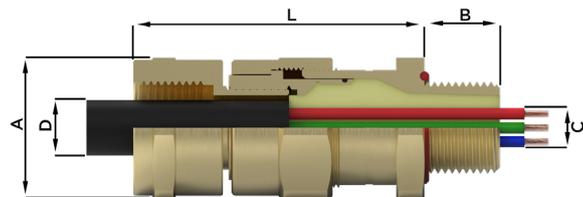
|                         |                                   |
|-------------------------|-----------------------------------|
| <b>UKEX</b>             | CML 21UKEX1031X & CML 21UKEX4037X |
| <b>ATEX</b>             | CML 19ATEX1344X & CML 19ATEX4114X |
| <b>IECEX</b>            | IECEX CML 19.0046X                |
| <b>CEC - Canada</b>     | CSA 1356011                       |
| <b>EAC</b>              | RU C-GB.AJK58.B.05106/24          |
| <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>ECAS-Ex</b>          | 25-06-153223/E25-06-159811/NB0007 |
| <b>ABS</b>              | 25-01581110-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] | Female 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                 | 57                            | 30.0                       | 33.0           | 0.324        |
| 25         | M25 x 1.5         | 3/4" or 1"       | 16                             | M25 x 1.5            | 3/4" or 1"       | 60                                      | 17.8                 | 20.0                 | 63                            | 37.6                       | 41.4           | 0.513        |
| 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                 | 67                            | 46.0                       | 50.6           | 0.726        |
| 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                 | 68                            | 55.0                       | 60.5           | 1.088        |
| 50S        | -                 | 1 1/2"           | 16                             | M50 x 1.5            | 1 1/2" or 2"     | 200                                     | 34.2                 | 38.2                 | 68                            | 65.0                       | 71.5           | 1.328        |
| 50         | M50 x 1.5         | 2"               | 16                             | M50 x 1.5            | 2"               | 400                                     | 39.4                 | 44.1                 | 68                            | 65.0                       | 71.5           | 1.328        |
| 63S        | -                 | 2"               | 19                             | M63 x 1.5            | 2" or 2 1/2"     | 400                                     | 44.8                 | 50.1                 | 72                            | 80.0                       | 88.0           | 2.022        |
| 63         | M63 x 1.5         | 2 1/2"           | 19                             | M63 x 1.5            | 2 1/2"           | 425                                     | 50.0                 | 56.0                 | 72                            | 80.0                       | 88.0           | 2.022        |
| 75S        | -                 | 2 1/2"           | 19                             | M75 x 1.5            | 2 1/2" or 3"     | 425                                     | 55.4                 | 62.0                 | 78                            | 90.0                       | 99.0           | 2.314        |
| 75         | M75 x 1.5         | 3" or 3 1/2"     | 19                             | M75 x 1.5            | 3"               | 425                                     | 60.8                 | 68.0                 | 78                            | 90.0                       | 99.0           | 2.314        |
| 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                 | 103                           | 104.0                      | 115.2          | 4.262        |
| 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                 | 103                           | 104.0                      | 115.2          | 3.748        |
| 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                 | 104                           | 114.0                      | 125.7          | 4.791        |
| 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                 | 104                           | 114.0                      | 125.7          | 4.103        |

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



EXAMPLE PART NUMBERING:  
CR-SBF20/NP/M20/050NPT

|               |  |
|---------------|--|
| <b>CR-S</b>   | Gland with Compound (Barrier) Seal                   |
| <b>B</b>      | Brass (B) / Stainless Steel (S)                      |
| <b>F</b>      | Female Back End Configuration                        |
| <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 Internal Female 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.

- 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.