CABLE GLAND

501/453/RAC
Flameproof, Increased Safety, Dust Protection
Class - Zones
Certified ATEX / IECEx / c CSA us

- 1 Elastomeric Exd flameproof seal on cable inner sheath
- 2 Reversible Armour Clamp
  - For all types of armour and braid.
- 3 Patented Cable Gland Tightening Guide
  - Helps prevent damage caused by over tightening
- 4 Unique Rear Seal - Offering ultimate sealing over an extremely wide cable acceptance range.

Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>Metric</th>
<th>NPT* Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Os</td>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>Standard</td>
</tr>
<tr>
<td>A</td>
<td>M20</td>
<td>1/4&quot; or ½&quot;</td>
</tr>
<tr>
<td>B</td>
<td>M25</td>
<td>1&quot; or ¾&quot;</td>
</tr>
<tr>
<td>C</td>
<td>M32</td>
<td>1¼&quot; or 1&quot;</td>
</tr>
<tr>
<td>C2</td>
<td>M40</td>
<td>1½&quot; or 1¾&quot;</td>
</tr>
<tr>
<td>D</td>
<td>M50</td>
<td>2&quot; or 1½&quot;</td>
</tr>
<tr>
<td>E</td>
<td>M63</td>
<td>2½&quot; or 2½&quot;</td>
</tr>
<tr>
<td>F</td>
<td>M75</td>
<td>3&quot; or 2½&quot;</td>
</tr>
<tr>
<td>G</td>
<td>M80</td>
<td>3½&quot; or 3½&quot;</td>
</tr>
<tr>
<td>H</td>
<td>M90</td>
<td>4&quot;</td>
</tr>
<tr>
<td>J</td>
<td>M100</td>
<td>4½&quot; or 5&quot;</td>
</tr>
</tbody>
</table>

Hexagon Dimensions

<table>
<thead>
<tr>
<th>'G' Approx</th>
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</thead>
<tbody>
<tr>
<td>15 mm</td>
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</tbody>
</table>

All dimensions in millimetres (except * where dimensions are in inches)

Os - F size metric entry threads are 1.5mm pitch as standard, 15mm length of thread
G - J size metric entry threads are 2mm pitch as standard, 20mm length of thread

Technical Data

Ingress Protection
IP66, IP67 and IP68 (30 metres for 7 days, special conditions may apply) to IEC/EN 60529 and NEMA 4X

Deluge Protection
to DTS01

Operating Temperature
-60°C to +100°C

ATEX/IECEx Protection Class
Ex II 2GD Ex db IIC Gb; Ex eb IIC Gb; Extb IIIC Db

ATEX Certificate No
CML  19ATEX1167X

IECEx Certificate No
CML 19.0045X

Construction & Test Standards
IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31

Marine Approvals
DNV: TAE0000BS

Additional Certifications
EAC: TC RU C-GB HA91 B 0046 19
Inmetro: IEX 14.0272X
KCs: 17-KA4BO-0129X to 0137X
PESO: P450038
CNEx: CNEx17 2858X

NEC/CEC Protection Class
Class I, Zone I, AEx eb IIC Gb; Zone 21, AEx db IIC Gb

CEC Protection Class
Class I Div 2 ABCD, Class II Div 2 EFG and Class III
Ex db IIIC Gb; Ex eb IIC Gb

c CSA us Certificate
CSA1015065

Construction & Test Standards
UL 60079-0, UL 60079-7, UL 60079-31, CSA 22.2 No: 60079-0, CSA 22.2 No: 60079-7, CSA 22.2 No: 60079-7, CSA 22.2 No: 60079-31, UL514B; UL1203; UL 2225

For all sales and product enquiries please contact Hawke Sales
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* Smaller value is applicable when selecting reduced NPT entry option.
² Sizes Os and G are available with an M16 thread size. For O size with M16 thread, the maximum cable outer sheath diameter is 10.9mm
Brass NPT entries are nickel plated as standard.
Cable Gland **Tightening Guide**

Whilst Hawke International goes to great lengths to ensure products are designed to be as simple to install, inspect and maintain as is possible, differing levels of competency, training and understanding can lead to glands being incorrectly installed. With hazardous area products, any poor installation issues can not only lead to expensive equipment failure, but also potential explosion risks and associated risk to life.

To help address issues with the overtightening of cable glands and the resultant damage to cables and seals, Hawke International has developed the patented **INBUILT TIGHTENING GUIDE**.

Without the need for fiddly measuring systems, the guide provides a permanent visual indication of the gland tightness through installation, inspection and maintenance.

**How it works**

The gland is permanently marked with various lines/numbers indicating the correct tightening level related to the cable diameter. Following the relevant cable gland Installation Instructions, the back seal should be tightened until a seal is formed on the cable outer sheath and then tightened one further turn.

1. **Step 1**
   - Follow cable gland installation instructions until final stage – tightening of rear seal

2. **Step 2**
   - Tighten backnut until a seal is formed onto the cable, then tighten one further turn

3. **Step 3**
   - The backnut should be level with the marking guide corresponding to its diameter – this can be visually inspected and adjusted as necessary

**Note:** The cable gland installation instructions have a printed cable OD measure for if the cable OD is not known