Cable Glands -
Group I Mining
### Unique Rear Sealing System

This arrangement offers IP66, IP67, IP68 (30 metres for 7 days), NEMA 4X and Deluge (DT501) Ingress Protection. The seal is manufactured from a silicone material, has LSFZH properties, is ozone and oil resistant and is suitable for use at both high and low temperatures. The Rear Sealing System covers the entire range of cable diameters with out the need for special seals and the cable acceptance range is stamped on the backnut for ease of inspection. The backnut can be hand tightened, with only one further spanner turn required to ensure IP66, IP67, IP68 and NEMA 4X.

### Unique Inspectable Compound Chamber

The revolutionary Hawke compound chamber has been designed with inspectability in mind. The pre-lubricated compound chamber can be removed once the compound has fully cured, allowing full inspection of the flameproof seal. If required, minor surface voids can be repaired in-situ. This unique patented compound chamber now forms the compound as well as providing a flameproof seal.

### Zero Cable Damage

The unique Hawke diaphragm sealing system does not damage cable which exhibit ‘Cold Flow’ characteristics. The diaphragm type seal is the only elastomeric seal to comply fully with IEC/EN 60079-14 and is therefore suitable on effectively filled ‘cold flow’ cables which would otherwise require barrier style cable glands. The Hawke diaphragm seal is also unique in that it is the only flameproof elastomeric seal that can be visually inspected in operation – a real benefit to inspectors.

### The Original Reversible Armour Clamp

The original RAC clamping system was invented by Hawke over 10 years ago and is a well established proven performer in all conditions. Simply by reversing the clamping ring, the cable gland can adjust to accommodate all types of cable armour or braid. Unlike many of our competitors, the correct stamping orientation is marked clearly and backed up by the presence of a groove in the component. Hawke’s RAC clamping system is also fully Inspectable when positioned on the cable.
**Cable Glands**

**Mining**

Flameproof Exd & Increased Safety Exe

Dual Certified ATEX / IECEx

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**Application**

- Mining.
- For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z', elastomer and plastic insulated cables.

**Technical Data**

- **Flameproof Exd and Increased Safety Exe**
- **Certificate No’s:** Baseefa08ATEX0330X and IECEx BAS 08.0114X.
- **Suitable for use in Mines.**
- **Construction and Test Standards:** IEC/EN 60079-0, IEC/EN 60079-1 and IEC/EN 60079-7.
- **Ingress Protection:** IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529.
- **Operating Temperature Range:** -60°C to +80°C.
- **Assembly Instruction Sheet:** AI 371.

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**CABLE GLAND SELECTION TABLE**

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>Entry Thread Size</th>
<th>Cable Acceptance Details</th>
<th>'G'</th>
<th>Hexagon Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metric * NPT Option</td>
<td>Inner Sheath 'A'</td>
<td>Outer Sheath 'B'</td>
<td>Armour / Braid 'C'</td>
</tr>
<tr>
<td>Os M20</td>
<td>½&quot;</td>
<td>3.0 - 8.1</td>
<td>5.5 - 12.0</td>
<td>0.8 / 1.25</td>
</tr>
<tr>
<td>O M20</td>
<td>¼&quot;</td>
<td>6.5 - 11.5</td>
<td>9.5 - 16.0</td>
<td>0.8 / 1.25</td>
</tr>
<tr>
<td>A M20</td>
<td>⅛ or ¼&quot;</td>
<td>8.4 - 14.3</td>
<td>12.5 - 20.5</td>
<td>0.8 / 1.25</td>
</tr>
<tr>
<td>B M25</td>
<td>1&quot; or ⅛&quot;</td>
<td>11.1 - 19.7</td>
<td>16.9 - 26.0</td>
<td>1.25 / 1.6</td>
</tr>
<tr>
<td>C M32</td>
<td>⅜ or ⅛&quot;</td>
<td>17.6 - 26.5</td>
<td>22.0 - 33.0</td>
<td>1.6 / 2.0</td>
</tr>
<tr>
<td>C2 M40</td>
<td>1½ or ¼&quot;</td>
<td>23.1 - 32.5</td>
<td>28.0 - 41.0</td>
<td>1.6 / 2.0</td>
</tr>
<tr>
<td>D M50</td>
<td>2 or 1⅜&quot;</td>
<td>28.9 - 44.4 / 42.3¹</td>
<td>36.0 - 52.6</td>
<td>1.8 / 2.5</td>
</tr>
<tr>
<td>E M63</td>
<td>2½ or 2&quot;</td>
<td>39.9 - 56.3 / 54.3¹</td>
<td>46.0 - 65.3</td>
<td>1.8 / 2.5</td>
</tr>
<tr>
<td>F M75</td>
<td>3 or 2½&quot;</td>
<td>50.5 - 68.2 / 65.3¹</td>
<td>57.0 - 78.0</td>
<td>1.8 / 2.5</td>
</tr>
</tbody>
</table>

All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard.

1 Smaller value is applicable when selecting reduced NPT entry option.

**Features**

- Provides armour clamping using one clamping arrangement for all armour / braid types.
- Provides a diaphragm seal on the cables inner sheath which will not damage cable that has 'Cold Flow' characteristics.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.
- Brass NPT entries are nickel plated as standard.

**Application**

- **Mining.**
- For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z', elastomer and plastic insulated cables.
- For particular use with:
  - Cables that exhibit 'Cold Flow' characteristics.
  - See technical section for installation rules and regulations.

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**Alternative Reversible Armour Clamping Rings (RAC)**

**SELECTION TABLE**

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>Steel Wire Armour / Braid / Tape</th>
<th>Orientation 1</th>
<th>Orientation 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>0.9 - 1.25</td>
<td>0.5 - 0.9</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>1.2 - 1.6</td>
<td>0.6 - 1.2</td>
<td></td>
</tr>
<tr>
<td>C2</td>
<td>1.2 - 1.6</td>
<td>0.6 - 1.2</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.45 - 1.8</td>
<td>1.0 - 1.45</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>1.45 - 1.8</td>
<td>1.0 - 1.45</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>1.45 - 1.8</td>
<td>1.0 - 1.45</td>
<td></td>
</tr>
</tbody>
</table>

**Ordering Information**

Format for ordering is as follows: Alternative Clamping Ring (AR), add suffix AR to ordering information.

<table>
<thead>
<tr>
<th>Cable Gland Type</th>
<th>Size</th>
<th>Thread</th>
<th>(Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>453/UNIV</td>
<td>C</td>
<td>M32</td>
<td>AR</td>
</tr>
</tbody>
</table>
Cable Glands
Mining
Flameproof Exd & Increased Safety Exe
Dual Certified ATEX / IECEx

Technical Data
- Flameproof Exd and Increased Safety Exe I M2.
- Certificate No's: Baseefa08ATEX0331X and IECEx BAS 08.0112X.
- Suitable for use in Mines.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 383.

Features
- Provides armour clamping using one clamping arrangement for all armour / braid types.
- Provides a seal onto the cables inner sheath.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.
- Brass NPT entries are nickel plated as standard.

Application
- Mining.
- See technical section for installation rules and regulations.

Ordering Information
Format for ordering as follows: Alternative Clamping Ring (AR), add suffix AR to ordering information. Alternative Seal (S), add suffix S to ordering information.

CABLE GLAND SELECTION TABLE

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>Metric</th>
<th>NPT + Standard or Option</th>
<th>Cable Acceptance Details</th>
<th>Hexagon Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Os</td>
<td>M20</td>
<td>½&quot;</td>
<td>Inner Sheath 'A'</td>
<td>Outer Sheath 'B'</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Standard Seal</td>
<td>Alternative Seal (S)</td>
</tr>
<tr>
<td>O</td>
<td>M20</td>
<td>½&quot;</td>
<td>3.0 8.0 - -</td>
<td>5.5 12.0</td>
</tr>
<tr>
<td>A</td>
<td>M20</td>
<td>¾&quot; or ½&quot;</td>
<td>6.5 11.9 - -</td>
<td>9.5 16.0</td>
</tr>
<tr>
<td>B</td>
<td>M25</td>
<td>1&quot; or ¾&quot;</td>
<td>12.5 19.7 9.5 15.4</td>
<td>12.5 20.5</td>
</tr>
<tr>
<td>C</td>
<td>M32</td>
<td>1¼&quot; or 1¾&quot;</td>
<td>19.0 26.5 14.5 21.2</td>
<td>22.0 33.0</td>
</tr>
<tr>
<td>C2</td>
<td>M40</td>
<td>1½&quot; or 1¼&quot;</td>
<td>25.0 32.5 22.0 28.0</td>
<td>28.0 41.0</td>
</tr>
<tr>
<td>D</td>
<td>M50</td>
<td>2&quot; or 1½&quot;</td>
<td>31.5 44.4 / 42.3¹ 27.5 34.8</td>
<td>36.0 52.6 1.8 / 2.5</td>
</tr>
<tr>
<td>E</td>
<td>M63</td>
<td>2½&quot; or 2&quot;</td>
<td>42.5 56.3 / 54.3¹ 39.0 46.5</td>
<td>46.0 65.3 1.8 / 2.5</td>
</tr>
<tr>
<td>F</td>
<td>M75</td>
<td>3&quot; or 2½&quot;</td>
<td>54.5 68.2 / 65.3¹ 48.5 58.3</td>
<td>57.0 78.0 1.8 / 2.5</td>
</tr>
</tbody>
</table>

All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard.

¹ Smaller value is applicable when selecting reduced NPT entry option.

Connection Solutions
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HPG01
UPD 090610
**Cable Glands**
Mining
Flameproof Exd & Increased Safety Exe
Dual Certified ATEX / IECEx

**Application**
- Mining.
- For use with pliable wire armoured cables.
- See technical section for installation rules and regulations.

**Technical Data**
- Flameproof Exd and Increased Safety Exe.
- Certificate No’s: Baseefa08ATEX0331X and IECEx BAS 08.0112X.
- Suitable for use in Mines.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 381.

**Ordering Information**
Format for ordering is as follows: Alternative Seal (S), add suffix S to ordering information.

**Features**
- Provides armour clamping using one clamping arrangement.
- Provides a seal onto the cables inner sheath.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.
- Brass NPT entries are nickel plated as standard.

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**CABLE GLAND SELECTION TABLE**

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>Entry Thread Size</th>
<th>Metric NPT * Standard or Option</th>
<th>Cable Acceptance Details</th>
<th>Hexagon Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Os</td>
<td>M20 ½”</td>
<td>3.0</td>
<td>5.5 12.0 7 x 0.45 50.2</td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>M20 ¾”</td>
<td>6.5</td>
<td>9.5 16.0 7 x 0.45 50.2</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>M20 ¾” or ½”</td>
<td>10.0</td>
<td>12.5 20.5 7 x 0.45 52.0</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>M25 1” or ¼”</td>
<td>12.5</td>
<td>16.9 26.0 7 x 0.45 59.2</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>M32 1¼” or 1”</td>
<td>19.0</td>
<td>22.0 33.0 7 x 0.45 63.2</td>
<td></td>
</tr>
<tr>
<td>C2</td>
<td>M40 1½” or 1¼”</td>
<td>25.0</td>
<td>28.0 41.0 7 x 0.71 68.7</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>M50 2” or 1½”</td>
<td>31.5</td>
<td>36.0 52.6 7 x 0.71 86.1</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>M63 2½” or 2”</td>
<td>42.5</td>
<td>46.0 65.3 7 x 1.25 82.2</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>M75 3” or 2½”</td>
<td>54.5</td>
<td>78.0 87.0 95.0 104.0</td>
<td></td>
</tr>
</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.

¹ Smaller value is applicable when selecting reduced NPT entry option.
**Cable Glands**

**Mining**

Flameproof Exd & Increased Safety Exe

Dual Certified ATEX / IECEx

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**Technical Data**

- **Flameproof Exd and Increased Safety Exe**
  - Certificate No's: Baseefa08ATEX0329X and IECEx BAS 08.0115X
  - Suitable for use in Mines.
  - Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529.
  - Operating Temperature Range: -60°C to +80°C.
  - Assembly Instruction Sheet: AI 305.

**Features**

- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the products of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- The compound chamber may be separated from the cured compound to ensure that the chamber has been effectively filled. If required, external voids can be repaired.
- Provides a cable retention seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.
- Brass NPT entries are nickel plated as standard.

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**Application**

- Mining.
- For use with non-armoured elastomer and plastic insulated cables.
- For particular use with:-
  - Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
  - Cables that exhibit ‘Cold Flow’ characteristics.
  - Enclosures containing an ignition source.
- See technical section for installation rules and regulations.

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**CABLE GLAND SELECTION TABLE**

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>Metric</th>
<th>NPT * Standard or Option</th>
<th>Entry Thread</th>
<th>Cable Acceptance Details</th>
<th>Outer Sheath 'B'</th>
<th>‘G’</th>
<th>Hexagon Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Standard Seal</td>
<td>Alternative Seal ($)</td>
<td>Across Flats</td>
</tr>
<tr>
<td>Os M20</td>
<td>½&quot;</td>
<td>8.0</td>
<td>8.0</td>
<td>6</td>
<td>3.0</td>
<td>8.0</td>
<td>-</td>
</tr>
<tr>
<td>O M20</td>
<td>½&quot;</td>
<td>8.9</td>
<td>10.0</td>
<td>6</td>
<td>7.5</td>
<td>11.9</td>
<td>-</td>
</tr>
<tr>
<td>A M20</td>
<td>½&quot; or ¾&quot;</td>
<td>11.0</td>
<td>12.5</td>
<td>10</td>
<td>11.0</td>
<td>14.3</td>
<td>8.5</td>
</tr>
<tr>
<td>B M25</td>
<td>1&quot; or ¾&quot;</td>
<td>16.2</td>
<td>18.4</td>
<td>21</td>
<td>13.0</td>
<td>20.2</td>
<td>9.5</td>
</tr>
<tr>
<td>C M32</td>
<td>½&quot; or 1&quot;</td>
<td>21.9</td>
<td>24.7</td>
<td>42</td>
<td>19.0</td>
<td>26.5</td>
<td>15.5</td>
</tr>
<tr>
<td>C2 M40</td>
<td>1½&quot; or 1¼&quot;</td>
<td>26.3</td>
<td>29.7</td>
<td>60</td>
<td>25.0</td>
<td>32.5</td>
<td>22.0</td>
</tr>
<tr>
<td>D M50</td>
<td>2&quot; or 1¼&quot;</td>
<td>37.1</td>
<td>41.7</td>
<td>80</td>
<td>31.5</td>
<td>44.4</td>
<td>27.5</td>
</tr>
<tr>
<td>E M63</td>
<td>2¾&quot; or 2&quot;</td>
<td>47.8</td>
<td>53.5</td>
<td>100</td>
<td>42.5</td>
<td>56.3</td>
<td>39.0</td>
</tr>
<tr>
<td>F M75</td>
<td>3&quot; or 2½&quot;</td>
<td>59.0</td>
<td>66.2 / 65.3¹</td>
<td>120</td>
<td>54.5</td>
<td>68.2</td>
<td>48.5</td>
</tr>
</tbody>
</table>

All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard, 15mm length of thread.

¹ Smaller value is applicable when selecting reduced NPT entry option.

---

**Ordering Information**

Format for ordering is as follows: Alternative Seal (S), add suffix S to ordering information.

<table>
<thead>
<tr>
<th>Cable Gland Type</th>
<th>Size</th>
<th>Thread (OPTIONAL)</th>
<th>Cable Gland Type</th>
<th>Size</th>
<th>Thread (OPTIONAL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>623</td>
<td>C</td>
<td>M32 S</td>
<td>623</td>
<td>C</td>
<td>1 ¼&quot;NPT S</td>
</tr>
</tbody>
</table>

Two part sealing compound and assembly instructions are supplied with the cable gland.

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**Connection Solutions**

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Cable Glands
Mining
Flameproof Exd & Increased Safety Exe
Dual Certified ATEX / IECEx

Application
- Mining.
- For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z', elastomer and plastic insulated cables.
- For particular use with:
  - Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
  - Cables that exhibit 'Cold Flow' characteristics.
  - Enclosures containing an ignition source.
- See technical section for installation rules and regulations.

Features
- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the products of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- The compound chamber may be separated from the cured compound to ensure that the chamber has been effectively filled. If required, external voids can be repaired.
- Provides armour clamping, using one clamping arrangement for all armour / braid types.
- Provides a cable retention seal and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.
- Brass NPT entries are nickel plated as standard.

Ordering Information
Format for ordering is as follows: Alternative Seal (AR), add suffix AR to ordering information.

Cable Gland Type | Size | Thread | (Optional) | Cable Gland Type | Size | Thread | (Optional)
--- | --- | --- | --- | --- | --- | --- | ---
653/UNIVERSAL | C | M32 | AR | 653/UNIVERSAL | C | 1¼" NPT | AR

Two part sealing compound and assembly instructions are supplied with the cable gland.
Cable Glands
Mining
Flameproof Exd & Increased Safety Exe
Dual Certified ATEX / IECEx

Technical Data

- Flameproof Exd and Increased Safety Exe I M2.
- Certificate No’s: Baseefa08ATEX0329X and IECEx BAS 08.0115X.
- Suitable for use in Mines.
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529.
- Operating Temperature Range: -60°C to +80°C.
- Assembly Instruction Sheet: AI 346.

Features

- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the products of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- The compound chamber may be separated from the cured compound to ensure that the chamber has been effectively filled. If required, external voids can be repaired.
- Provides armour clamping for pliable wire armour.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.
- Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.
- Brass NPT entries are nickel plated as standard.

Ordering Information

Format for ordering is as follows:

<table>
<thead>
<tr>
<th>Cable Gland Type</th>
<th>Size</th>
<th>Thread</th>
<th>Cable Gland Type</th>
<th>Size</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>653/T</td>
<td>C</td>
<td>M32</td>
<td>653/T</td>
<td>C</td>
<td>1¼”NPT</td>
</tr>
</tbody>
</table>

Two part sealing compound and assembly instructions are supplied with the cable gland.

Application

- Mining.
- For use with pliable wire armoured cable.
- For particular use with:
  - Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
  - Cables that exhibit ‘Cold Flow’ characteristics.
  - Enclosures containing an ignition source.
- See technical section for installation rules and regulations.

CABLE GLAND SELECTION TABLE

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>Metric</th>
<th>NPT * Standard or Option</th>
<th>Inner Sheath / Cores</th>
<th>Outer Sheath 'B'</th>
<th>Pliable Wire Armour 'C'</th>
<th>'G' Approx (Fully Compressed Length)</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>M20</td>
<td>½&quot;</td>
<td>8.9</td>
<td>10.0</td>
<td>6</td>
<td>9.5</td>
</tr>
<tr>
<td>A</td>
<td>M20</td>
<td>¾” or ½”</td>
<td>11.0</td>
<td>12.5</td>
<td>10</td>
<td>12.5</td>
</tr>
<tr>
<td>B</td>
<td>M25</td>
<td>1” or ¾”</td>
<td>16.2</td>
<td>18.4</td>
<td>21</td>
<td>16.9</td>
</tr>
<tr>
<td>C</td>
<td>M32</td>
<td>1¼” or 1”</td>
<td>21.9</td>
<td>24.7</td>
<td>42</td>
<td>22.0</td>
</tr>
<tr>
<td>C2</td>
<td>M40</td>
<td>1½” or 1¼”</td>
<td>26.3</td>
<td>29.7</td>
<td>60</td>
<td>28.0</td>
</tr>
<tr>
<td>D</td>
<td>M50</td>
<td>2” or 1½”</td>
<td>37.1</td>
<td>41.7</td>
<td>80</td>
<td>36.0</td>
</tr>
<tr>
<td>E</td>
<td>M63</td>
<td>2½” or 2”</td>
<td>47.8</td>
<td>53.5</td>
<td>100</td>
<td>46.0</td>
</tr>
<tr>
<td>F</td>
<td>M75</td>
<td>3” or 2½”</td>
<td>59.0</td>
<td>66.2 / 65.3¹</td>
<td>120</td>
<td>57.0</td>
</tr>
</tbody>
</table>

All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard, 15mm length of thread.

¹ Smaller value is applicable when selecting reduced NPT entry option.
Accessories
Mining
Flameproof Exd & Increased Safety Exe
Dual Certified ATEX / IECEx

Stopping Plug: M475 & M477

Application
• Mining.
• See technical section for installation rules and regulations

Features
• To close unused cable gland entries and maintain the flameproof integrity of the equipment.
• Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.
• M475 is fitted from the outside of the enclosure.
• M477 is fitted from the inside of the enclosure.

Technical Data
• Flameproof Exd & Increased Safety Exe I M2.
• Certificate No’s: Sira 06ATEX1240U.
• Suitable for use in Mines.
• Operating Temperature Range: -60°C to +80°C.
• Assembly Instruction Sheet: AI 379.
• Alternative certification options available: GOST R-Exe IIU

Blanking Flange Type: 470

Application
• Mining.
• See technical section for installation rules and regulations

Features
• To close unused cable gland entries and maintain the flameproof integrity of the equipment.
• Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.

Technical Data
• Flameproof Exd & Increased Safety Exe I M2.
• Certificate No’s: Baseefa08ATEX0333U and IECEx BAS 08.0013U
• Suitable for use in Mines.
• Construction and Test Standards: IEC/EN 60079-0 and IEC/EN 60079-1.
• Operating Temperature Range: -60°C to +80°C.
• Assembly Instruction Sheet: Al 345.
• Alternative certification options available: GOST R-Exe IIU

Ordering Information
Format for ordering as follows:
Blanking Flange Type Size
470 C 470 C
Cable Glands
Mining
Flameproof Exd & Increased Safety Exe
Dual Certified ATEX / IECEx

Adaptor Flange Type: 483

| Size Ref. | Equipment Entry Hole Size
<table>
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<tr>
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<tbody>
<tr>
<td></td>
<td>Max</td>
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<tr>
<td>O</td>
<td>25.70</td>
</tr>
<tr>
<td>A</td>
<td>25.70</td>
</tr>
<tr>
<td>B</td>
<td>32.05</td>
</tr>
<tr>
<td>C</td>
<td>38.40</td>
</tr>
<tr>
<td>C2</td>
<td>51.10</td>
</tr>
<tr>
<td>D</td>
<td>63.80</td>
</tr>
<tr>
<td>E</td>
<td>76.50</td>
</tr>
<tr>
<td>F</td>
<td>76.50</td>
</tr>
</tbody>
</table>

All dimensions in millimetres.

Application
• Mining.
• See technical section for installation rules and regulations

Features
• To allow metric threaded Group 1 cable gland types: 653/UNIV, 653/T, 653, 623, 453/UNIV, 453/T, 453/RAC and 453 to be used in size up spigot entries.
• Manufactured in Brass (standard), Nickel Plated Brass or 316 Stainless Steel.

Technical Data
• Flameproof Exd I M2.
• Certificate No’s: Baseefa08ATEX0333U and IECEx BAS 08.0013U
• Suitable for use in Mines.
• Construction and Test Standards: IEC/EN 60079-0 and IEC/EN 60079-1.
• Operating Temperature Range: -60°C to +80°C.
• Assembly Instruction Sheet: AI 344.
• Alternative certification options available: GOST R-Exe IIU

SELECTION TABLE

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>U</th>
<th>V</th>
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<tr>
<td>O</td>
<td>57.1</td>
<td>12.7</td>
<td>25.40</td>
<td>26.1</td>
<td>6.7</td>
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<td>7.0</td>
<td>36</td>
<td>82.5</td>
<td>M20</td>
<td>20.0</td>
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<td>25.40</td>
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<tr>
<td>B</td>
<td>69.8</td>
<td>14.3</td>
<td>31.75</td>
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<td>C2</td>
<td>95.2</td>
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<td>80</td>
<td>149.3</td>
<td>M50</td>
<td>50.7</td>
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<tr>
<td>E</td>
<td>127.0</td>
<td>17.5</td>
<td>76.20</td>
<td>32.5</td>
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<td>95</td>
<td>162.0</td>
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<td>13.5</td>
<td>95</td>
<td>162.0</td>
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</table>

All dimensions in millimetres.

Ordering Information
Format for ordering is as follows:

<table>
<thead>
<tr>
<th>Adaptor Flange Type</th>
<th>Size</th>
<th>Adaptor Flange Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>483</td>
<td>C</td>
<td>483</td>
<td>C</td>
</tr>
</tbody>
</table>

A 484 Flanged Adaptor option is also available which allows metric threaded Group 1 cable gland types 653/UNIV, 653/T, 653, 623, 453/UNIV, 453/T, 453/RAC and 453 to be fitted into a size for size spigot entry.