### Technical Data

**Ingress Protection**: IP66, IP67, IP68 (30 metres for 7 days, special conditions may apply) and IP69 to IEC/EN 60529 and NEMA 4X

**Operating Temperature**: -60°C to +80°C

**ATEX/IECEx Protection Class**: Ex II 2GD Ex db IIC Gb; Ex II 2GD Ex eb IIC Gb; Ex nR IIC Gc; Ex tb IIIC Db

**ATEX Certificate No**: CML 18ATEX1268X, CML 18ATEX4507

**IECEx Certificate No**: IECEx CML 18.0131X

**Construction & Test Standards**: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7, IEC/EN 60079-15 and IEC/EN 60079-31

**Marine Approvals**: DNV: TAE00008S


**NEC/CEC Protection Class**: Class I, Zone I, AEx eb IIIC Gb; Zone 21, AEx tb IIIC Db

**CEC Protection Class**: Class I Div 2 ABCD, Class II Div 2 EFG and Class III Ex ib IIIC Gb; Ex eb IIIC Gb

**c CSA us Certificate**: 1015065

**Construction & Test Standards**: UL2225, UL1203, UL514B, CSA C22.2 NO. 0-10, CSA C22.2 NO. 174-18, CSA C222 60079-0, CSA C22.2 60079-1, CSA 22.2 60079-7 and CSA 22.2 60079-31

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**Cable Gland Selection Table**

<table>
<thead>
<tr>
<th>Size Ref.</th>
<th>Entry Thread Size 'A'</th>
<th>Cable Acceptance Details</th>
<th>'G'</th>
<th>Hexagon Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Inner Sheath 'A'</td>
<td>Max.</td>
<td>Max.</td>
</tr>
<tr>
<td>Os M20</td>
<td>⁵⁄₈&quot;</td>
<td>3.5</td>
<td>8.1</td>
<td>5.5</td>
</tr>
<tr>
<td>O M20</td>
<td>⁹⁄₁₆&quot; or ⁷⁄₈&quot;</td>
<td>6.5</td>
<td>11.4</td>
<td>9.5</td>
</tr>
<tr>
<td>A M20</td>
<td>⁵⁄₈&quot; or ⁷⁄₈&quot;</td>
<td>8.4</td>
<td>14.3</td>
<td>12.5</td>
</tr>
<tr>
<td>B M25</td>
<td>1&quot; or ⁷⁄₈&quot;</td>
<td>11.1</td>
<td>19.7</td>
<td>16.9</td>
</tr>
<tr>
<td>C M32</td>
<td>⁵⁄₈&quot; or 1&quot;</td>
<td>17.6</td>
<td>26.5</td>
<td>22.0</td>
</tr>
<tr>
<td>C2 M40</td>
<td>1³⁄₄&quot; or 1&quot;</td>
<td>23.1</td>
<td>32.5</td>
<td>28.0</td>
</tr>
<tr>
<td>D M50</td>
<td>2&quot; or 1³⁄₄&quot;</td>
<td>28.9</td>
<td>44.4</td>
<td>42.3</td>
</tr>
<tr>
<td>E M63</td>
<td>2¹⁄₂&quot; or 2&quot;</td>
<td>39.9</td>
<td>56.3</td>
<td>54.3</td>
</tr>
<tr>
<td>F M75</td>
<td>3&quot; or 2¹⁄₂&quot;</td>
<td>50.5</td>
<td>68.2</td>
<td>65.3</td>
</tr>
<tr>
<td>G M80</td>
<td>3¹⁄₂&quot;</td>
<td>67.0</td>
<td>73.0</td>
<td>75.0</td>
</tr>
<tr>
<td>H M90</td>
<td>3¹⁄₂&quot;</td>
<td>67.0</td>
<td>77.6</td>
<td>75.0</td>
</tr>
<tr>
<td>J M100</td>
<td>4&quot;</td>
<td>79.0</td>
<td>91.6</td>
<td>88.0</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 |
| G - J size metric entry threads are 2mm pitch as standard, 20mm length of thread  |
| G - J size are only available in the 501/453/RAC design style. |

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

2 Sizes Os and O are available with an M16 thread size. For O size with M16 thread, the maximum cable inner sheath diameter is 10.9mm
**CABLE GLAND**

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

### 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.

#### Step 1

Follow cable gland installation instructions until final stage – tightening of rear seal

#### Step 2

Tighten backnut until a seal is formed onto the cable, then tighten one further turn

#### Step 3

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

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**Barrier Gland Upgrade Kit**

The Barrier gland upgrade kit comes with everything needed to turn the 501/453/UNIVERSAL into the ICG/653/UNIVERSAL barrier gland.

The kit, available in ExPress injectable self-mixing barrier resin and QSP 2-part hand mix putty both offer a barrier cure time from 30 minutes, are both fully inspectable and offer full visibility through the clear silicone flameproof seal during installation and inspection.

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**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.

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**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>Material</th>
<th>(Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>501/453/UNIV C</td>
<td>M32</td>
<td>Brass</td>
<td>AR</td>
<td></td>
</tr>
<tr>
<td>501/453/UNIV C</td>
<td>1¼” NPT</td>
<td>NP Brass</td>
<td>AR</td>
<td></td>
</tr>
</tbody>
</table>

Example Code: 501/453/UNIV C M32 Stainless

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**Alternative Reversible Armour Clamping Ring Size Selection**

- **B**: 0.9 - 1.25
- **C**: 1.2 - 1.6
- **C2**: 1.2 - 1.6
- **D**: 1.45 - 1.8
- **E**: 1.45 - 1.8
- **F**: 1.45 - 1.8

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Product design and specifications are subject to change without notice. Please check the Hawke website for latest specifications.

www.ehawke.com