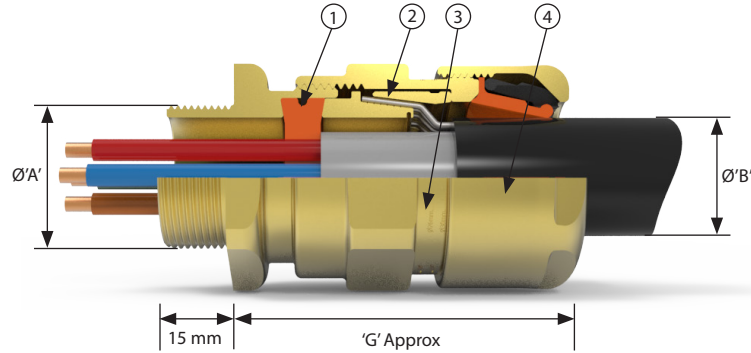




# PSG 553 RAC

Flameproof, Increased Safety, Dust Protection & Restricted Breathing  
 Class - Zones - Divisions  
 Dual Certified ATEX / IECEx



- ① Unique pre-punched silicone barrier seal - provides a barrier seal to the individual cores within the cable and prevents entry of the products of an explosion into the cable. No putty, resin or compound required to achieve an Exd flameproof barrier seal. Unused core holes are to be fitted with the hole plugs provided
- 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.

The PGS/553/RAC dual certified Exe/Exd gland offers an instant barrier seal around the individual cable cores, with each pre-punched hole in the silicone seal accepting a wide variance of core diameters. This results in unparalleled speed of installation, inspection and flexibility, with no need for compounds or resin to achieve the Exd barrier seal, no curing time and instant gland completion.

## Cable Gland Selection Table

| Size Ref. | Entry Thread Size 'A' |                         | Cable Acceptance Details |      |                    |               | 'G'    | Hexagon Dimensions |                |
|-----------|-----------------------|-------------------------|--------------------------|------|--------------------|---------------|--------|--------------------|----------------|
|           | Metric                | NPT* Standard or Option | Outer Sheath 'B'         |      | Armour / Braid 'C' |               |        | Across Flats       | Across Corners |
|           |                       |                         | Min                      | Max  | Orientation 1      | Orientation 2 | Length |                    |                |
| A         | M20                   | ¾" or ½"                | 12.5                     | 20.5 | 0.8 / 1.25         | 0.0 / 0.8     | 59.6   | 30.0               | 32.5           |
| B         | M25                   | 1" or ¾"                | 16.9                     | 26.0 | 1.25 / 1.6         | 0.0 / 0.7     | 66.4   | 36.0               | 39.5           |
| C         | M32                   | 1¼" or 1"               | 22.0                     | 33.0 | 1.6 / 2.0          | 0.0 / 0.7     | 71.2   | 46.0               | 50.5           |

## Technical Data

ATEX/IECEx

|                               |   |
|-------------------------------|---|
| Type of Protection            | Flameproof Exdb IIC Gb, Increased Safety Exeb IIC Gb, Dust Extb IIIC Db Ex II 2 |
| ATEX Classification           | CML19ATEX1167X and IECExCML19.0045X   |
| Area Classification           | Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22                         |
| Construction & Test Standards | IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31              |
| Ingress Protection            | IP66, IP67, IP68 (30 metres for 7 days) and IP69 to IEC/EN 60529 and NEMA 4X    |
| Deluge Protection             | Deluge Protection to DTS01  |
| Operating Temperature         | -60°C to +80°C  |

## Alternative Reversible Armour Clamping Ring Size Selection

| Size Ref | Steel Wire Armour / Braid / Tape |               |
|----------|----------------------------------|---------------|
|          | Orientation 1                    | Orientation 2 |
| B        | 0.9 - 1.25                       | 0.5 - 0.9     |
| C        | 1.2 - 1.6                        | 0.6 - 1.2     |

| Gland Size | Max / Min core dia (mm) | Max QTY Cores | Max / Min core dia (mm) | Max QTY Cores |
|------------|-------------------------|---------------|-------------------------|---------------|
| A          | 1.5 - 4                 | 7             |                         |               |
| B          | 1.5 - 4                 | 12            | 5 - 6.5                 | 5             |
| C          | 2.5 - 4                 | 19            |                         |               |

## Ordering Information

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

| Cable Gland Type | Size | Thread  | Material | (Optional) |
|------------------|------|---------|----------|------------|
| PSG/553/RAC      | C    | M32     | Brass    | AR         |
| PSG/553/RAC      | C    | 1¼" NPT | Brass    | AR         |

Order Example: PSG/553/RAC C M32 Brass AR

International Approvals

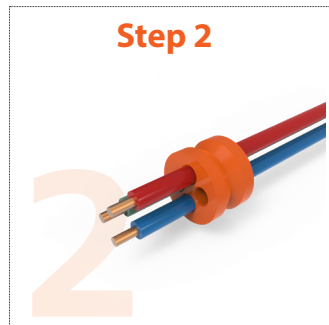


# PSG Seal

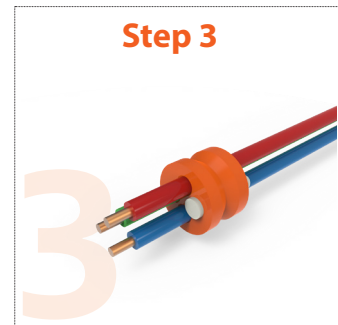
## How it works



The silicone seal is delivered pre-punched, allowing a variable size of cores to be terminated in each of the holes, including mixed core sizes (for example 3x2.5mm plus 1x1mm screen)



The cores are passed through the holes in the seal and the seal pulled into position.



Any unused holes are plugged with the supplied plastic bungs. The seal can now be inspected in-situ on the cable. The gland is then tightened as per the installation instructions.

# 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.



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



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



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