# Cable gland Installation Guide

**Cable Gland**
**M20 x 1,5**

**Cable Gland**
**M25 x 1,5**

## Installation

Installation of the cable glands must be completed by a skilled technician or engineer. Failure to comply with the instructions below will render the ATEX/IECEx certifications **INVALID**. **The cable glands may <u>not</u> be modified by the customer**.

1. Thread size: M20 x 1,5 and M25 x 1,5.
2. Tighten cable gland according to TABLE 1 in assembly instruction.
3. The cable gland is manufactured in stainless steel AISI316L (1.4404).
4. IP66 / IP 68 up to 10 meters, 60 minutes.
5. Cables shall be suitably clamped to prevent pulling or twisting.
6. The interface between the sealing ring and the enclosure wall shall be parallel and smooth to ensure the IP rating of the enclosure is maintained
7. Marking:

   CE XXXX[1]

   I M2 Ex db eb I Mb
   II 2G Ex db eb IIC Gb
   II 2D Ex tb IIIC Db
   Service temperature: -40°C to +100°C

   [1]) It is place for the specific number for the QAN issuer.

8. Certificate number:

   a. ITS 16 ATEX 18432X
   b. IECEx ITS 16.0019X

   (see certification on www.scancon.dk)

9. Cable glands comply with the following standards:

| | |
|---|---|
| **IEC 60079-0 – 0:2011 Ed. 6**<br>**EN 60079 – 0:2012+A11:2013** | Explosive atmospheres - Part 0:Equipment – General requirements |
| **IEC 60079-1:2014 Ed. 7**<br>**EN 60079 – 1:2014** | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| **IEC 60079-31:2013 Ed. 2**<br>**EN 60079 – 31:2014** | Explosive atmospheres - Part 31:Equipment dust ignition protection by enclosure “t” |
| **IEC 60529:2001** | Degrees of Protection Provided by Enclosure (IP code) |

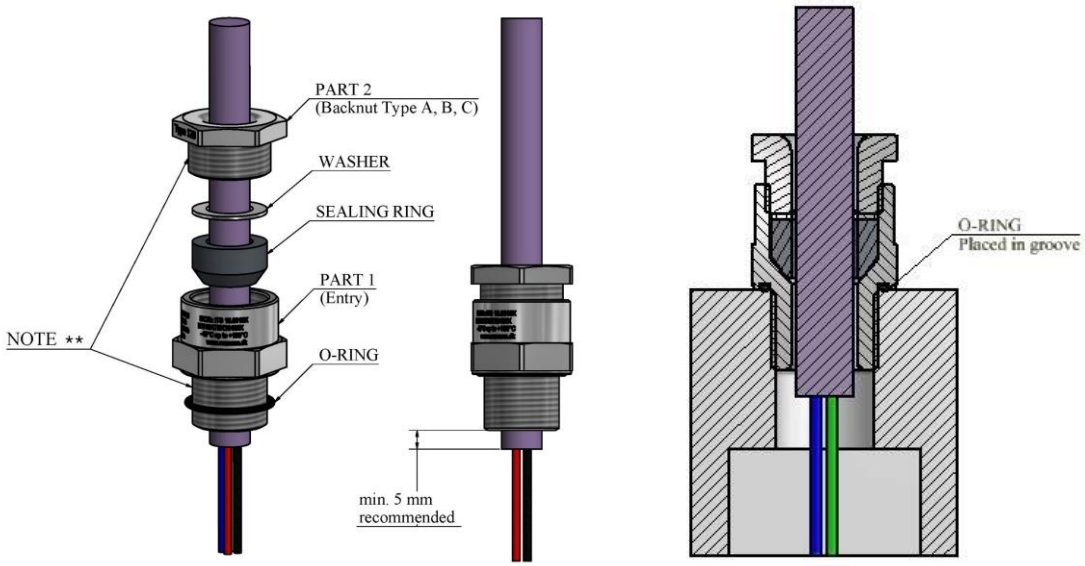
### Caution

- **Cable gland is not to be used with an adapter.**
- **Maintenance is not necessary. Any required maintenance or repair is to be done <u>only</u> by the manufacturer.**

**Assembly instruction:**

1. Operating temperature range: -40°C to +100°C
2. Cable gland provides a seal on the outer cable sheath and is intended for use on non-armoured elastomer and plastic insulated cables.

view I view II view III




| TABLE 1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Type | Entry thread size (PART 1) | Thread length [mm] | Cable Outer Sheath [Ø min.-max.] | PART 1 Torque [Nm] | BACKNUT (PART 2)* Torque [Nm] | Hexagon | |
| | | | | | | Across flats | Across corners |
| 07 | M20x1,5 | 15 | 6,30 – 7,50 | 50 | 12 (15) | 27 | 30,5 |
| 09 | M20x1,5 | 15 | 8,30 – 9,40 | 50 | 15 (20) | 27 | 30,5 |
| 10 | M20x1,5 | 15 | 9,70 – 10,8 | 50 | 16 (24) | 27 | 30,5 |
| 12 | M20x1,5 | 15 | 10,8 – 12,3 | 50 | 20 (30) | 27 | 30,5 |
| 14 | M25x1,5 | 15 | 13,3 – 14,3 | 65 | 20 (30) | 32 | 36 |

*) Backnut (PART 2) type may vary.

**) **Add grease on each thread prior tightening!**

a) Pass cable through cable gland as shown above (view I).
b) Tighten PART 1 (Entry) into the equipment with spanner/wrench with torque given in Table 1. Make sure that O-RING is placed in the groove. (view III)
c) Ensure that the cable sheath go out the gland min. 5 mm. (view II)
d) Hold cable and tighten PART 2 (Backnut) into the PART 1 with spanner/wrench with torque given in Table 1.

*NOTE: Adding other data (on other CB request) or changing layout to this Installation Manual does not conflict with the actual data in this document, QPS and ATEX/IECEx certification. Adding the new data to this document cause change of revision number and the change not need to be notified by Certification Body.*