# Roxtec

Safety information Safety Information Roxtec recommends that all installations are performed without facility operation. Follow national regulations and installation codes. Any action affecting the routed ser-vice should be performed according to manufacturer recommendations.

# Installation instructions Roxtec RS BG<sup>™</sup> seal



## Components











Roxtec RS 25-31 BG

Roxtec RS 75-125 BG Roxtec RS 43-68 BG

Roxtec RS 150 BG WOC

Roxtec Lubricant

### **Technical data**

| Name      | Aperture dimension Ø (mm) | For cable/pipe Ø (mm) | Torque (Nm) | Tool size (mm) |
|-----------|---------------------------|-----------------------|-------------|----------------|
| RS 25 BG  | 25 – 26                   | 3.6 - 12              | ~ 1         | 2.5            |
| RS 31 BG  | 31 – 32                   | 4 – 17                | ~ 1         | 2.5            |
| RS 43 BG  | 43 - 45                   | 4 – 23                | ~ 4         | 4              |
| RS 50 BG  | 50 – 52                   | 8 – 30                | ~ 4         | 4              |
| RS 68 BG  | 68 – 70                   | 26 - 48               | ~ 4         | 4              |
| RS 75 BG  | 75 – 77                   | 24 - 54               | ~ 4         | 4              |
| RS 100 BG | 100 - 102                 | 48 - 70               | ~ 4         | 4              |
| RS 125 BG | 125 – 127                 | 66 – 98               | ~ 7         | 5              |
| RS 150 BG | 150 – 152                 | 93 – 119              | ~ 7         | 5              |



Removable layers
 Braid
 Cable armor
 Cable jacket
 Front fittings
 Rear fittings

The range of the modules indicates the smallest diameter of the exposed cable armor (A) to the largest diameter of the cable jacket (B). Seals with core can be used to provide spare capacity.

Tools







Allen key (not included)

Cable stripper tool. Recommended by the cable manufacturer (not included)

Continuity tester (not included)

# **Braid conductor properties**

| Name      | Braid cross-section/cable (mm²) | Approximately equivalent AWG |
|-----------|---------------------------------|------------------------------|
| RS 25 BG  | 13                              | 6                            |
| RS 31 BG  | 13                              | 6                            |
| RS 43 BG  | 13                              | 6                            |
| RS 50 BG  | 24                              | 4                            |
| RS 68 BG  | 42                              | 1                            |
| RS 75 BG  | 42                              | 1                            |
| RS 100 BG | 42                              | 1                            |
| RS 125 BG | 42                              | 1                            |
| RS 150 BG | 42                              | 1                            |



Make or verify an aperture.

Clean the aperture.

2

10



ization bar.

11

The sleeve must have electrical



There shall be electrical contact contact with the potential equalbetween the inner surface of the sleeve (A) where the braid is situated and the braid of the seal (B).



The cable shall go straight and centered through the sleeve.



Not acceptable.



Not acceptable.



Art No: `

165624

Doc Z

rev 0

On the cable, mark where the cable jacket is to be removed.



Make sure that the markings on the cable are situated in the center of the sleeve.



Remove the outer jacket and any plastic foil. The cable armor shall be clean and conductive.

Correct placement of a cable.

Remove the core and fold back the braid.



Achieve a gap of 0.1-1.0 mm (A) between the two halves by peeling off layers. The cable armor shall be in contact with the braid.



Adapt the layers that are in contact with the cable jacket.





The number of layers must not differ (A) by more than one between the corresponding halves.



Fold the braid tightly inside the seal.



Lubricate the sealing surfaces. Avoid excess lubricant on the braid.



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Lubricate the sealing surfaces of any spare seal. Do not remove the core.



Lubricate the inside surfaces of the sleeve. Lubricate the area that will be in contact with the

braid sparsely.



Place the cable in the sealing half.





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Verify the gap between the seal

Insert the seal into the sleeve.

25



Do not damage the braid.



Tighten the screws crosswise in small steps to the specified torque.





The seal is compressed when the rubber bulges between the fittings.



Excess lubricant is a sign of good compression.



Optional: Verify earth continuity

from the cable armor to earth.

Use a suitable instrument.



Make a final check! Different approvals or certificates may include amendments or limitations related to this application.











halves.





#### **Disassembly and reinstallation**









Untighten the screws crosswise in small steps.

Remove the seal from the sleeve.

Clean the sleeve and continue the reinstallation.

#### Note

- Integrated environmental sealing system for shielded applications. For use with shielded cables.
- For optimum reliability, wait 24 hours or longer after installation before exposing the cables/pipes to strain or pressure.
- Cores or cables/pipes must be present in all seals.
- Corrosion preventing primer must be removed to achieve electrical conductivity, where applicable.
- Approvals or certificates may include amendments or limitations related to this application.
- The latest version of this and related documents are found at roxtec.com.

#### Disclaimer

Disclaimer
The Roxtec cable entry sealing system ("the Roxtec system") is a modular-based system of sealing products consisting of different components. Each and every one of the components is necessary for the best performance of the Roxtec system. The Roxtec system has been certified to resist a number of different hazards. Any such certification, and the ability of the Roxtec system to resist such hazards, is dependent on all components that are installed as a part of the Roxtec system. Thus, the certification is not valid and does not apply unless all components installed as part of the Roxtec system or manufactured by or under license from Roxtec ("authorized manufacturer"). Roxtec gives no performance guarantee with respect to the Roxtec system, unless (I) all components installed as part of the Roxtec system are manufac-tured by an authorized manufacturer and (II) the purchaser is in compliance with (a), and (b), below.
(a) Juring storage, the Roxtec system or part thereof, shall be kept indoors in ts original packaging at room temperature.
(b) Installation shall be carried out in accordance with Roxtec installation instructions in effect from time to time.

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