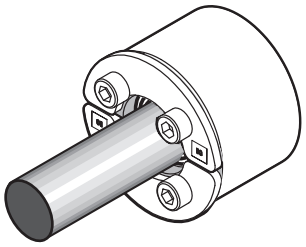
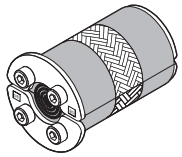
Installation instructions
Roxtec RS BG™ seal for metal pipes



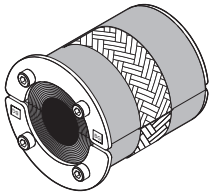
Safety information

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

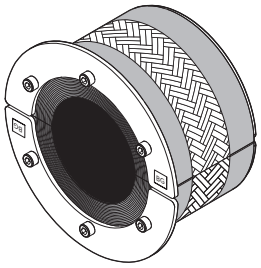
Components



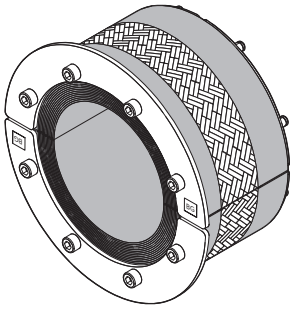
Roxtec RS 25-31 BG



Roxtec RS 43-68 BG



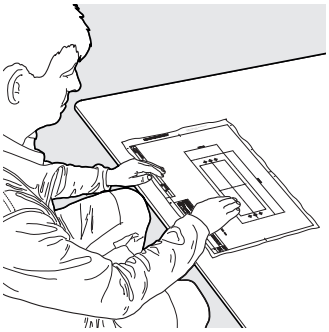
Roxtec RS 75-125 BG



Roxtec RS 150 BG WOC

Roxtec Lubricant

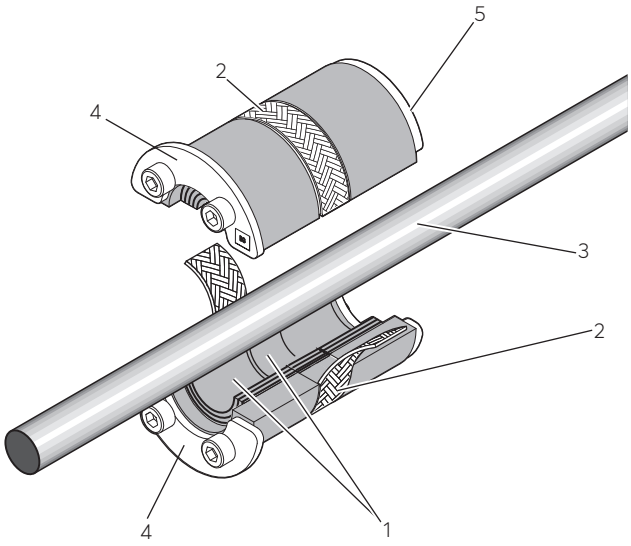
Additional information

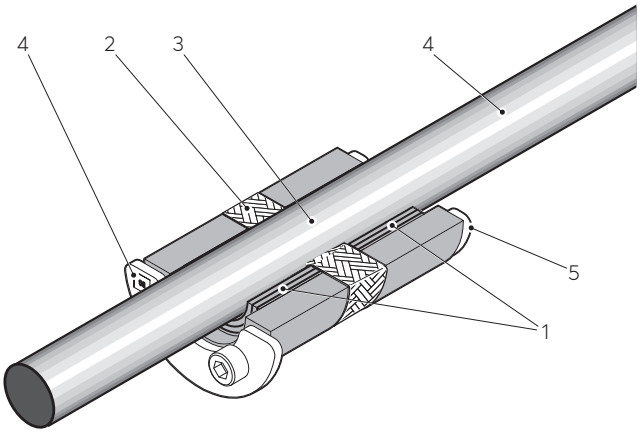


Additional information is available, such as drawings, apertures, videos, ratings and certificates.

Scan QR-code or visit roxtec.com for additional information.

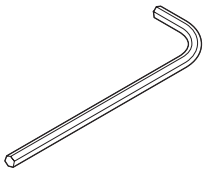
Product description



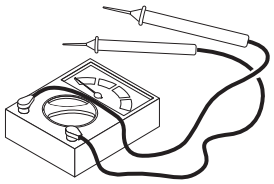


1. Removable layers
2. Braid
3. Pipe
4. Front fittings
5. Rear fittings

Tools

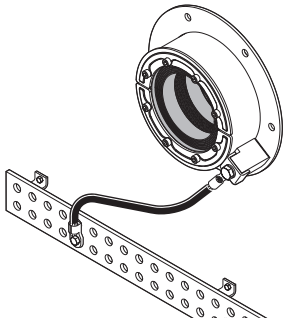


Allen key (not included)



Continuity tester (not included)

Bonding and grounding of sleeves



Ensure electrical contact with protective earth. National regulations apply.

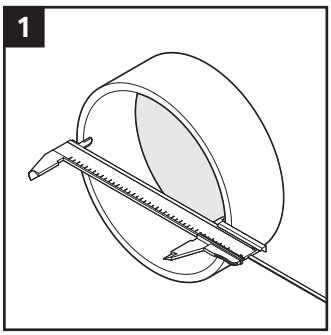
Technical data

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

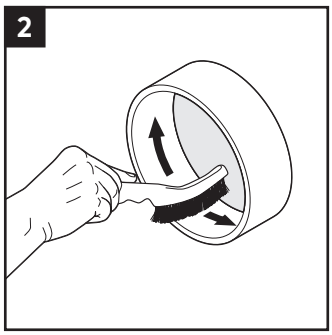
Braid conductor properties

Name	Braid cross-section/cable (mm^2)	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

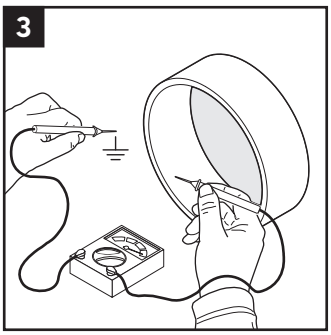
Installation



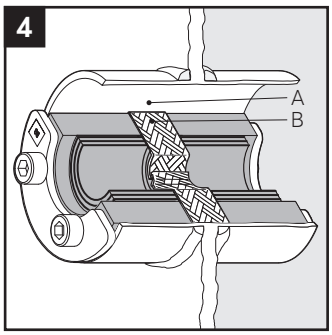
Make or verify an aperture.



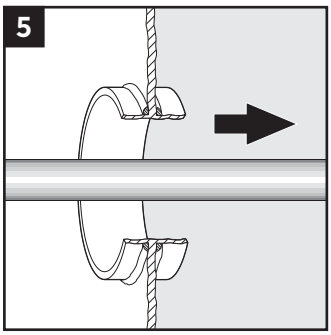
Clean the aperture.



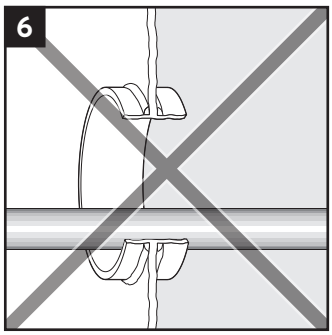
The sleeve must have electrical contact with the potential equalization bar.



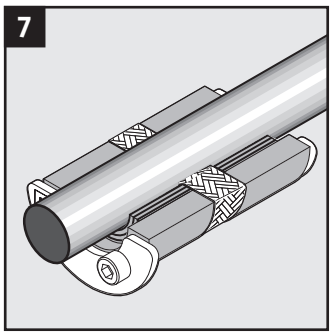
There shall be electrical contact between the sleeve (A) and the braid (B).



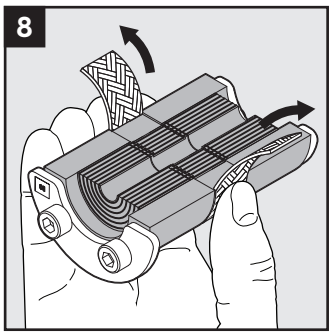
The pipe shall go straight and centered through the sleeve.



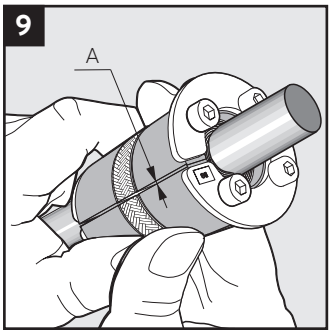
Not acceptable.



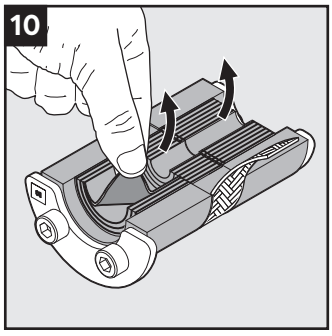
Correct placement of a pipe.



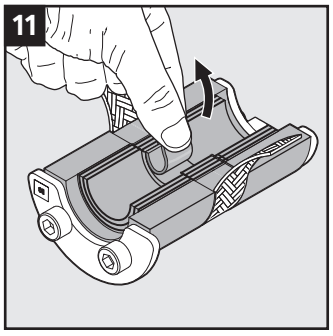
Remove the core and fold back the braid.



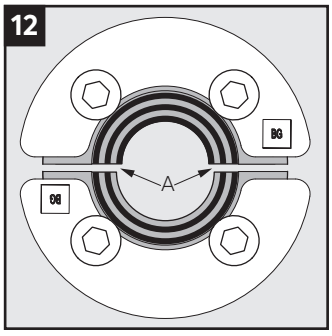
Achieve a gap of 0.1-1.0 mm (A) between the two halves by peeling off layers. The pipe shall be in contact with the braid.



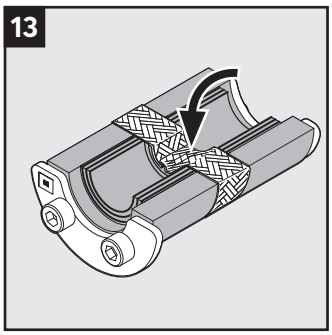
Adapt the layers that are in contact with the pipe.



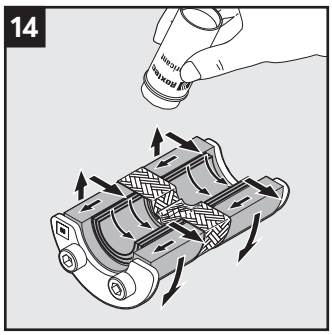
Adapt the layers that are in contact with the braid.



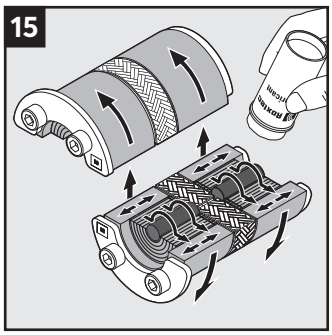
The number of layers must not differ (A) by more than one between the corresponding halves.



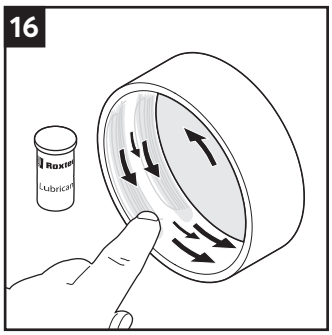
Fold the braid tightly inside the seal.



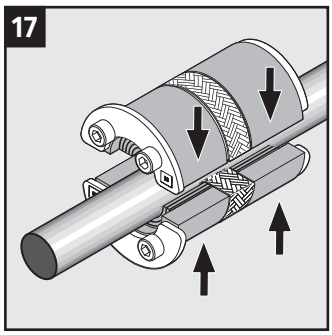
Lubricate the sealing surfaces. Avoid excess lubricant on the braid.



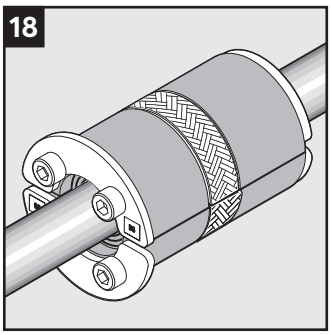
Lubricate the sealing surfaces of any spare seal. Do not remove the core.



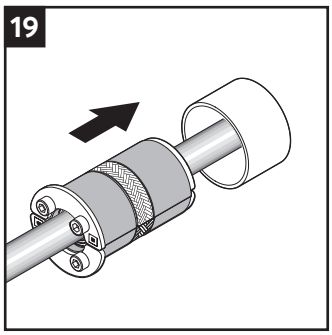
Lubricate the inside surfaces of the sleeve. Lubricate the area that will be in contact with the braid sparsely.



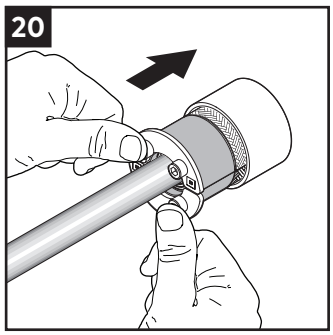
Assemble the seal around the pipe.



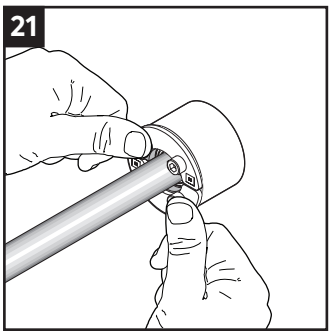
Verify the gap between the seal halves.



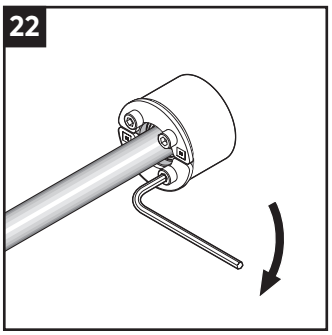
Slide the seal along the pipe into the sleeve.



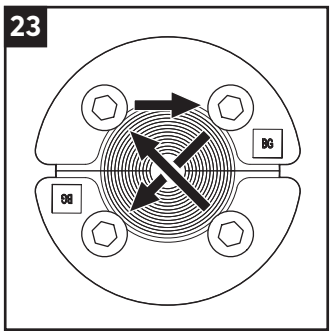
Do not damage the braid.

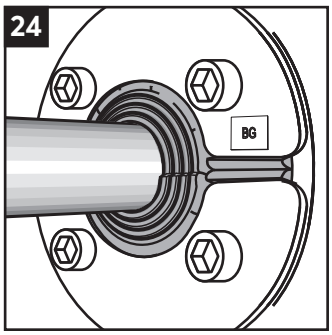


Insert the seal to stop.

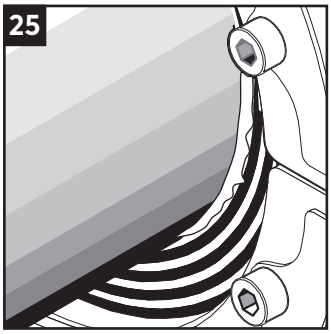


Tighten the screws crosswise in small steps to the specified torque.

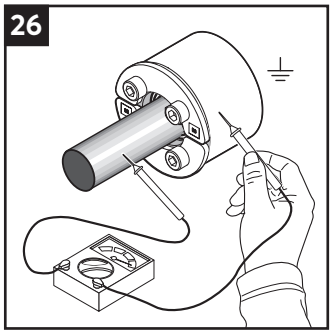




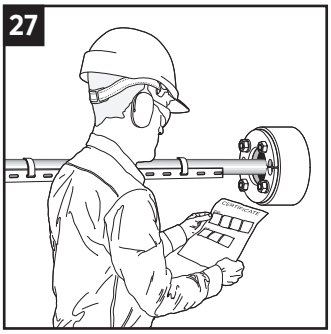
Bulging rubber between the fittings indicates a tight seal.



Protruding excess lubricant indicates a tight seal.



Electrical continuity testing is recommended.

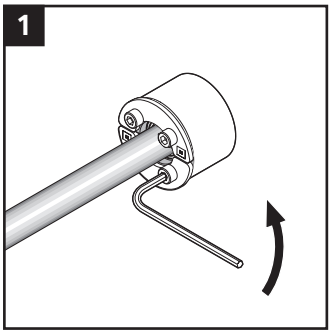


Check additional documentation, if applicable.

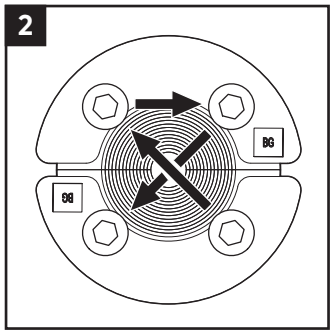
After installation inspection

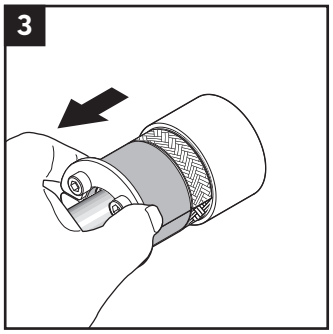
- Are the screws tightened evenly?
- Are the layers peeled correctly?
- Is lubricant protruding?
- Is the rubber bulging?

Disassembly and reinstallation

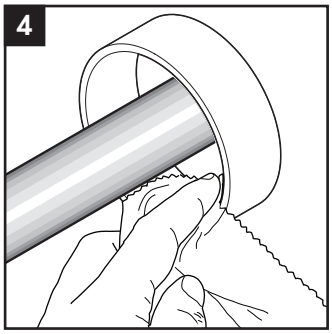


Untighten the screws crosswise in small steps.





Remove the seal from the sleeve.



Clean the sleeve and continue the reinstallation.

Note

- Integrated environmental sealing system for bonding and grounding applications.
- For optimum reliability, wait 24 hours or longer after installation before exposing the pipes to strain or pressure.
- Cores or pipes must be present in all seals.
- Pipe with a considerable weight needs to be supported.
- An incorrectly adapted seal shall be replaced (layers shall not be reused).
- 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.

Art. no:248132 Doc. no:DOC-006623 rev. A

Disclaimer

Roxtec International AB
Box 540, 371 23 Karlskrona, SWEDEN
+46 455 36 67 00, info@roxtec.com
www.roxtec.com