

General information

Installation and maintenance:

For European member countries of GENELEC, shall standard EN 60079-14 and EN 60079-17 be considered.

For countries members of IECEx shall standard IEC 60079-14 and IEC 60079-17 be considered.

For other countries shall applicable national regulation be considered.

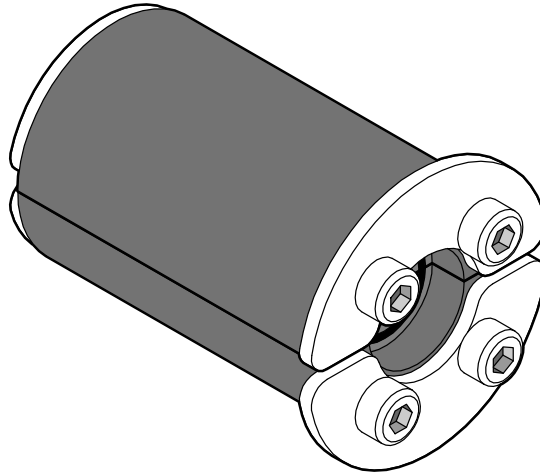
The products fulfill the following standards:

EN 60079-0:2012, EN 60079-31:2009

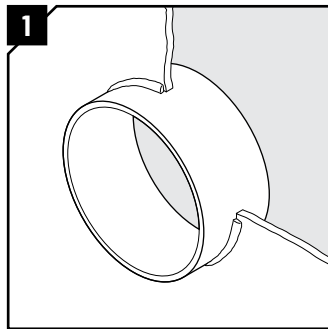
IEC 60079-0:2011, IEC 60079-31:2008



Installation instructions Cable transit device RS Ex

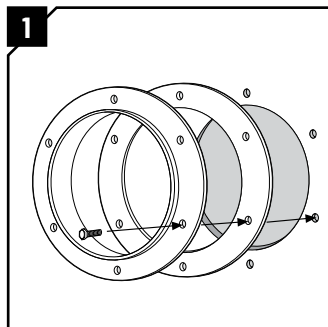


Sleeve for welding to structures (without flange)

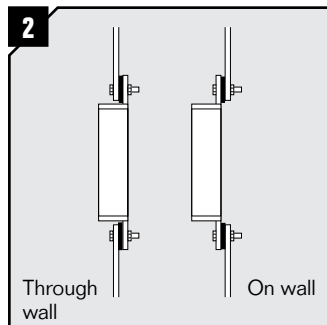


Weld the sleeve to the cabinet/
wall. Welding instructions available
on www.roxtec.com

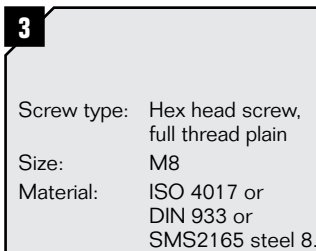
Sleeve for bolting to structures (with flange)



Use the sleeve as template for the
drilling of the screw holes. Drill \varnothing
= 8.5 mm.

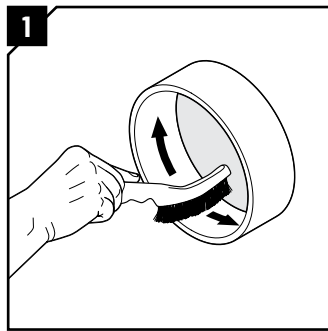


Attach the frame to the cabinet/
wall using bolts and nuts. The
rubber gasket shall be placed
between frame and cabinet/wall.

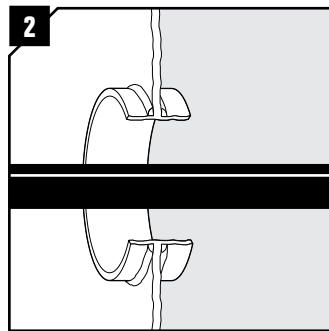


Required quality.

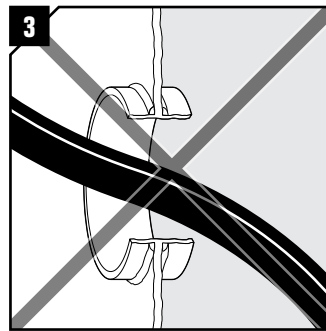
Installation of RS Ex seal



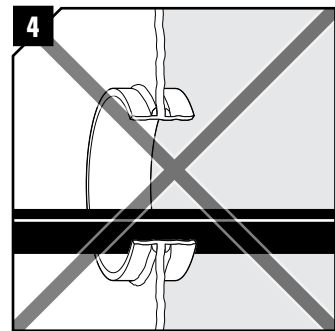
Clean the aperture.



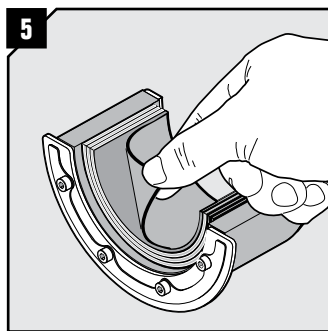
Feed the cable through the opening. The cable/pipe shall go straight and centered through the sleeve.



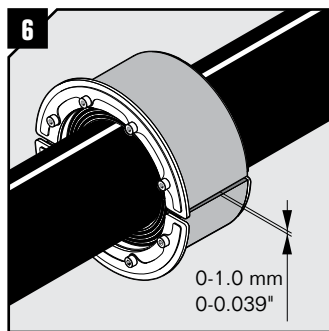
Not acceptable.



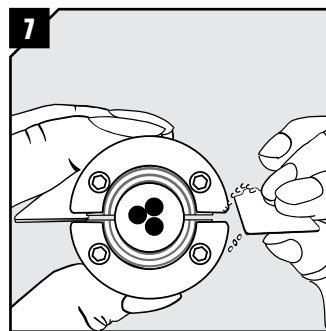
Not acceptable.



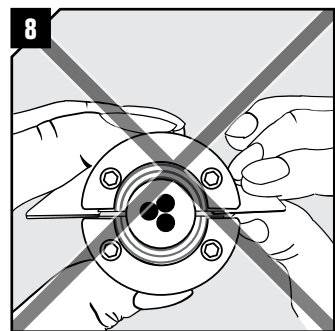
Adapt the seal by peeling off layers from the halves until you reach the gap seen in step 6. The number of layers may not differ by more than one between the halves.



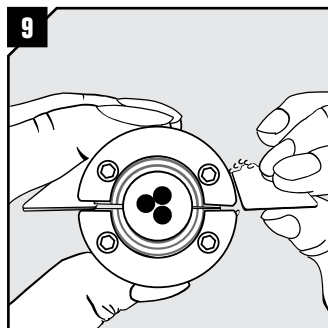
Achieve a 0-1.0 mm gap between the two halves when held against the cable/pipe.



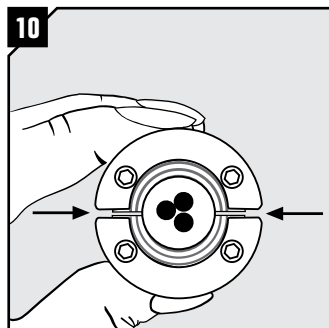
Measure the gap with the Ex gap gauge by holding blade one in one gap and checking the other with blade two.



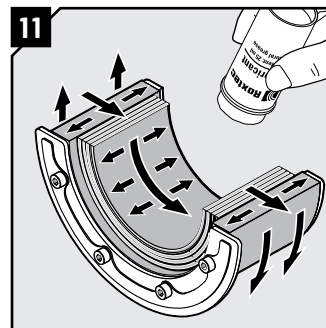
If the gap is too big, the gauge will slip in easily.



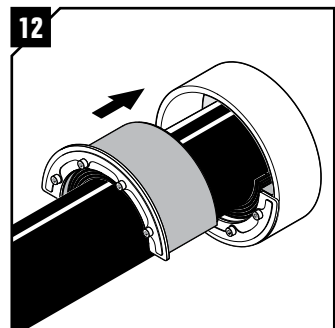
If the gap is correct, there will be no room for blade two.



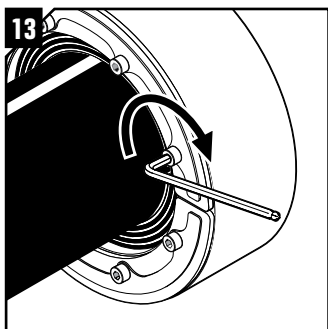
When checking without the gauge, there shall be a visual gap.



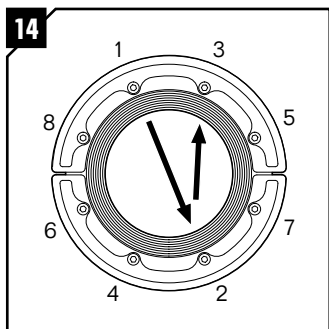
Lubricate the inside and the outside sealing surfaces with Rextec Lubricant.



Insert the halves into the sleeve.



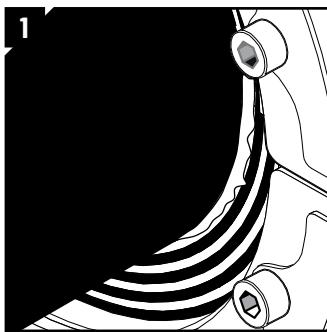
Tighten the bolts crosswise in small steps to firm compression.



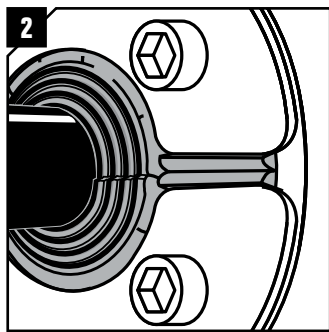
Type:	Max torque* (Nm)
RS 23 Ex - RS 31 Ex	1
RS 43 Ex - RS 100 Ex	4
RS 125 Ex - RS 150 Ex	7

* The torque depends on several things, e.g cable or pipe size, amount of used lubricant, sleeve size or material in the cable sheet, etc.

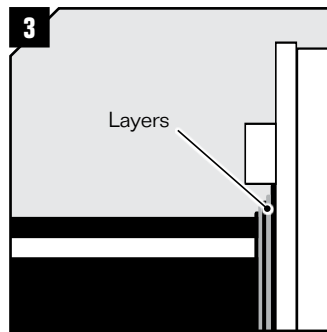
Check compression



Excess lubricant shall be visible after compression.

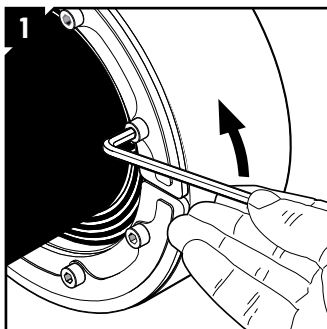


The rubber shall expand over the front fittings.

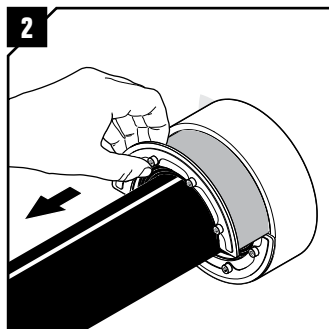


Rubber layers shall bulge outwards, if any.

Disassembly

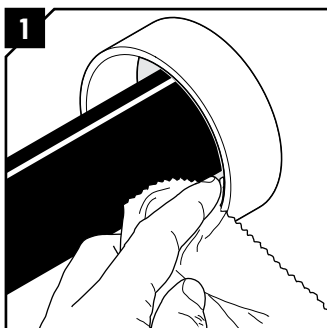


Release the compression by loosening the screws alternately.

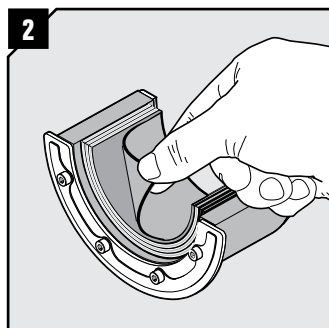


Remove the seal.

Reinstallation



Clean the sleeve.



Continue the reinstallation from step 5.

Note

- An incorrectly adapted seal shall be replaced (layers shall not be reused).
- Temperature range -60 to +80 °C.
- You find the EC Type examination certificate at www.roxtec.com, or contact your local Roxtec supplier.

Sleeve with flange, aperture dimensions for bolted installations

Seal	Recommended aperture dimensions		Minimum clearance depth	
	Ø (mm)	Ø (in)	(mm)	(in)
RS 23 Ex	34	1.339	28	1.102
RS 25 Ex	36	1.417	28	1.102
RS 31 Ex	42	1.654	28	1.102
RS 43 Ex	54	2.126	66	2.598
RS 50 Ex	65	2.559	66	2.598
RS 68 Ex	85	3.346	66	2.598
RS 75 Ex	91	3.583	66	2.598
RS 100 Ex	116	4.567	71	2.795
RS 125 Ex	142	5.591	71	2.795
RS 150 Ex	166	6.535	73	2.874

Theoretically recommended dimensions

RS Ex seal

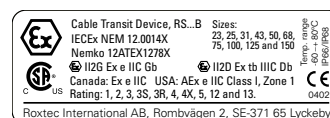
Seal	For cable/pipe	
	Ø (mm)	Ø (in)
RS 23 Ex	0+ 3.6-11	0+0.142-0.433
RS 25 Ex	0+ 3.6-12	0+0.142-0.472
RS 31 Ex	0+ 4-17	0+0.157-0.669
RS 43 Ex	0+ 4-23	0+0.157-0.906
RS 50 Ex	0+ 8-30	0+0.315-1.181
RS 68 Ex	0+ 26-48	0+1.024-1.890
RS 75 Ex	0+ 26-48	0+1.024-1.890
RS 100 Ex	0+ 48-70	0+1.890-2.756
RS 125 Ex	0+ 66-98	0+2.598-3.858
RS 100 woc Ex	48-70	1.890-2.756
RS 125 woc Ex	66-98	2.598-3.858
RS 150 woc Ex	93-119	3.661-4.685

Frame label:

RS Ex B (Bolting)

Year of
manufacture

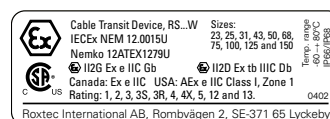
XXX



RS Ex W (Welding)

Year of
manufacture

XXX



woc = without core

The following conditions for safe use (apparatus certified cable transit device) and schedule of limitations (U-marked component certified cable transit device) shall be considered according to the ATEX EC Type Examination certificates and the IECEx Certificates of Conformity:

- In order to maintain the explosion protection, the installation instructions that accompany the products shall be considered.
- Only cable for fixed installation is permitted for the cable entry.
- The cable entry is ready for use not earlier than 24 h after being tightened according to the installation instructions.
- For optimum reliability wait 24 hours or longer after installation before exposing the cables/pipes to strain or pressure.

This includes mechanical test (if applicable) and test of degree of protection IP, which shall be carried out on the frame of the cable entry (excluding modules and compression unit) after it has been mounted on the enclosure of the apparatus subject to test and certification.

IEC 60079-0:2011

1, 2, 3, 4.2, 4.3, 5.2 (with respect of temperature limits), 6.1, 6.2, 7.1.1, 7.1.2.3, 7.2.1, 7.2.2, 7.5, 8.1, 8.3, 8.4, 13.1, 13.2, 13.4, 13.5, 16.3, 24, 25, 26.1, 26.2 (with respect of internal ingress protection), 26.4.1.1, 26.4.1.2, 26.4.1.2.2, 26.4.2, 26.4.4, 26.4.5.1 (with respect of internal ingress protection), 26.4.5.2, 26.7.1, 26.7.2, 26.8, 26.9, 29.1, 29.2, 29.4, 29.5, 29.9, 30.1, A.1, A.2.1, A.2.3, A.2.4.1, A.2.5, A.2.6, A.2.7, A.3.1.1, A.3.1.4, A.3.1.5, A.3.2.2, A.3.3, A.3.4 (with respect of internal ingress protection), A.4.1, A.4.2 and B.1.

EN 60079-0:2012

ZA

IEC 60079-31:2008

1, 2, 3, 4, 4.1, 5.2.1, 6.1.1 (with respect of internal ingress protection) and 7.

EN 60079-31:2009

ZA

DISCLAIMER

"The Rextec cable entry sealing system ("the Rextec 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 Rextec system. The Rextec system has been certified to resist a number of different hazards. Any such certification, and the ability of the Rextec system to resist such hazards, is dependent on all components that are installed as a part of the Rextec system. Thus, the certification is not valid and does not apply unless all components installed as part of the Rextec system are manufactured by or under license from Rextec ("authorized manufacturer"). Rextec gives no performance guarantee with respect to the Rextec system, unless (i) all components installed as part of the Rextec system are manufactured by an authorized manufacturer and (ii) the purchaser is in compliance with (a), and (b), below.

(a) During storage, the Rextec system or part thereof, shall be kept indoors in its original packaging at room temperature.

(b) Installation shall be carried out in accordance with Rextec installation instructions in effect from time to time.

The product information provided by Rextec does not release the purchaser of the Rextec system, or part thereof, from the obligation to independently determine the suitability of the products for the intended process, installation and/or use.

Rextec gives no guarantee for the Rextec system or any part thereof and assumes no liability for any loss or damage whatsoever, whether direct, indirect, consequential, loss of profit or otherwise, occurred or caused by the Rextec systems or installations containing components not manufactured by an authorized manufacturer and/or occurred or caused by the use of the Rextec system in a manner or for an application other than for which the Rextec system was designed or intended.

Rextec expressly excludes any implied warranties of merchantability and fitness for a particular purpose and all other express or implied representations and warranties provided by statute or common law. User determines suitability of the Rextec system for intended use and assumes all risk and liability in connection therewith. In no event shall Rextec be liable for indirect, consequential, punitive, special, exemplary or incidental damages or losses."



Rextec International AB
Box 540, 371 23 Karlskrona, SWEDEN
PHONE +46 455 36 67 00, FAX +46 455 820 12
EMAIL info@roxtec.com, www.roxtec.com