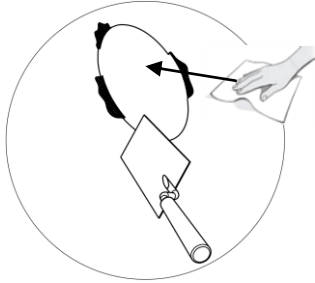# Rubber press seal GPD, GPD-ZS
Ring space seal RRD, RRD-WR, RDZ

Assembly instructions

Preparation and instructions for installation in core hole/wall sleeve

- Repair nicks and cavities in the core drill hole/wall sleeve.
- Clean the core drill hole/wall sleeve and cables/pipes.
- Do not use solvent-based cleaning agents for cleaning (UGA cable cleaner recommended).

  Depending on the concrete quality, core drill holes should be sealed with UGA Aquagard (not supplied as standard by UGA).
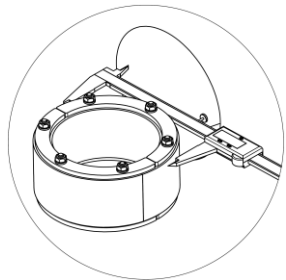
- Check the inner diameter of the core hole/wall sleeve (tolerance Øi: +2 mm/-1 mm) to the outer diameter of the rubber press seal/ring space seal, as well as the dimensions of the cables/pipes to be laid.


The following maximum tightening torques are restricted to installing cable protection pipes made from pressure-resistant materials. When using cable protection pipes with thinner walls or made from softer materials (e.g. PE), foamed plastic, etc., the tightening torques must be reduced accordingly to avoid deformations. The user is responsible for checking that the seals are suitable for the respective installation case.

Maximum permitted tightening torques:

M5 = 3 Nm (SW8)	M8 = 10 Nm (SW13)
M6 = 5 Nm (SW10)	M10 = 22 Nm (SW17)

Nuts must not be tightened with a battery-operated, drill or impact screw driver!
Torque spanner recommended!

### Procedure for tightening the clamping nuts:
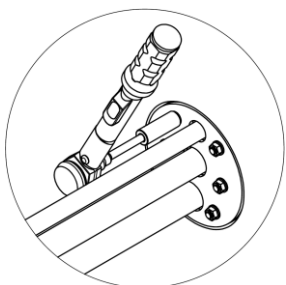
Applies to all described variants:
- Gradually tighten the nuts of the rubber press seal with the extension and suitable socket (long version) uniformly until the rubber press seal is tight.
- In the case of rubber press seals with several segments, make sure that the individual segments are fitted without any offset.
- For nuts between the cables, work with a joint on the extension.

Cables/pipes must be guided in a straight line through the core drill hole/wall sleeve/rubber press seal. Maximum bending capability 8°.

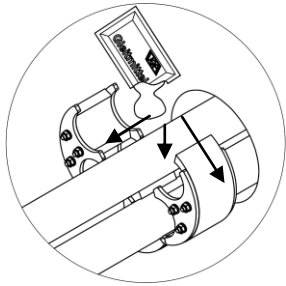### Installing the rubber press seal, closed version:
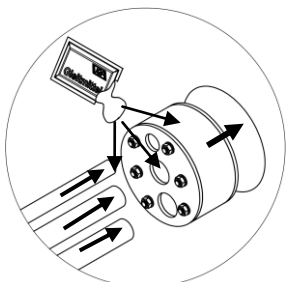
- Lubricate all inner and outer surfaces of the rubber press seal, as well as cables/pipes.
- Pull the cables/pipes through the holes provided in the rubber press seal.
- Push the rubber press seal into the core drill hole/wall sleeve so that it is flush.
- Tighten the nuts as described in the framed field.

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UGA ®
Kabel- und Rohrdurchführungen
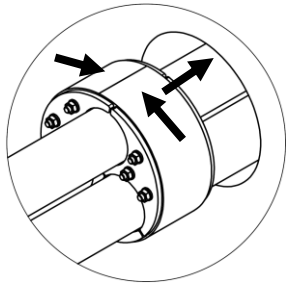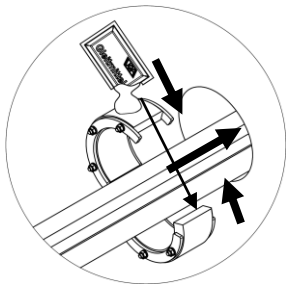
Installing the rubber press seal, split version:

- Lubricate all inner/outer surfaces and the division cut surfaces of the rubber press seal, as well as cables/pipes.
- Unfold the rubber press seal and lay the cables/pipes in the openings provided.

- Fold the rubber press seal together and, when closed, push it into in the core drill hole/wall sleeve so that it is flush.
- Tighten the nuts as described on page 1 in the framed field.

## Installing the rubber press seal, split version with interchangeable insert:

- Lubricate the rubber press seal without interchangeable insert on the outside and the division cut surfaces, and fold around the cables.
- Press the rubber press seal when closed into the core drill hole/wall sleeve so that it is flush.
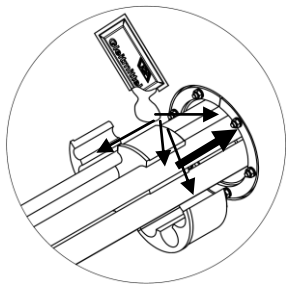
- Lubricate all inner/outer surfaces and the division cut surfaces of the interchangeable insert, as well as cables/pipes.
- Unfold the interchangeable insert and insert cables in the holes provided.
- Close the interchangeable insert around the cables/pipes and push up to the edge in the rubber press seal.
- Tighten the nuts as described on page 1 in the framed field.

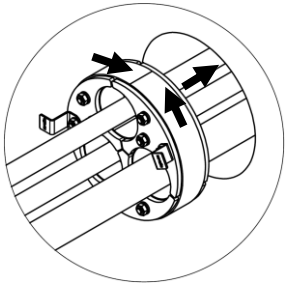## Assembling the rubber press seal with onion ring insert:
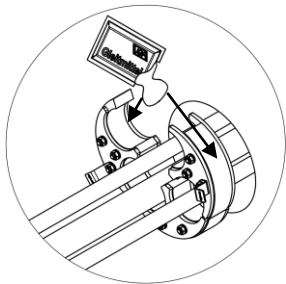
- Lubricate the outside of the rubber press seal without onion ring inserts and the division cut surfaces.
- Unfold the rubber press seal and lay a cable/pipe in each opening.

  If a cable/pipe is not fitted, fit the onion ring insert with plug.

Rubber press seal GPD, GPD-ZS
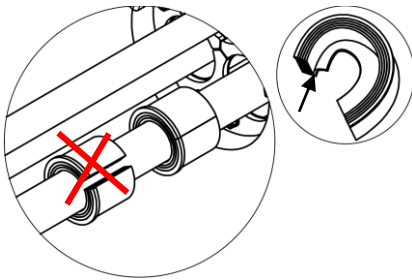# Ring space seal RRD, RRD-WR, RDZ

Assembly instructions

- Fold the rubber press seal together and press into the core drill hole/wall sleeve when closed, until the latches sit tight.

**Align onion ring insert with cable:**

- Remove plug and fold onion ring insert around the cable.
- Remove sufficient layers that the division cut surfaces of the onion ring insert touch each other, but do **not** overlap when enclosing the cable/pipe.

  It may be necessary to use a blade to cut the connection point of the onion ring layers!
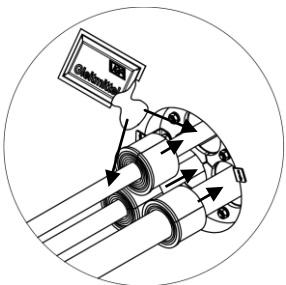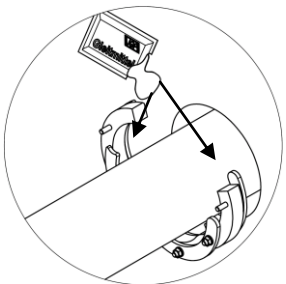
- Lubricate all inner/outer surfaces and the division cut surfaces of the onion ring inserts, as well as cables/pipes.
- Fold the onion ring inserts around the cables and push in the rubber press seal up to the edge.
- Tighten the nuts as described on page 1 in the framed field.

Assembling the ring space seal RRD for pipes that are already installed:
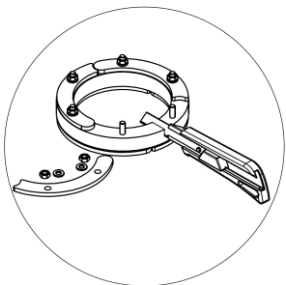
Retrospective division of ring space seals

- Undo nuts and washers of a segment and remove segment.
- Using a sharp knife blade, cut through the rubber ring at an offset of approx. 10 mm from the middle of the two threaded bolts.
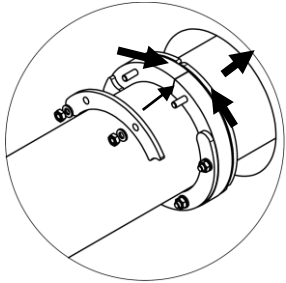
- Lubricate the ring space seal on the inner/outer surfaces and the division cut surfaces, and fold around the pipe.

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Rubber press seal GPD, GPD-ZS
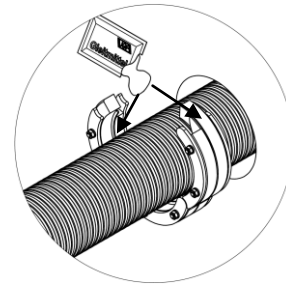# Ring space seal RRD, RRD-WR, RDZ

Assembly instructions

- Close the ring space seal and refit the removed segment.
- Push the ring space seal into the core drill hole/wall sleeve so that it is flush.
- Tighten the nuts as described on page 1 in the framed field.

Assembling the ring space seal RRD-WR for corrugated pipes:

- Lubricate the ring space seal on the inner/outer surfaces and the division cut surfaces, and fold around the pipe; the support ring must sit in a corrugation trough around the corrugated pipe.
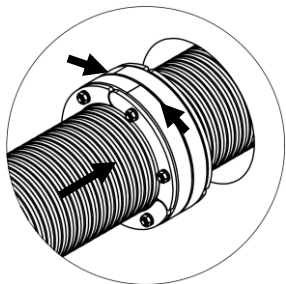
- Press the ring space seal, when closed, into the core drill hole/wall sleeve with the corrugated pipe so that it is flush.
- Tighten the nuts as described on page 1 in the framed field.

With all connection variants it is necessary to ensure that the pipe/cable to be connected exhibits no damage in the area of the seal.
It is necessary to ensure that no tensile/pressure forces and mechanical loads act on the pipe to be connected, and on the penetration.

Important note:
We accept no warranty claims in case of deviations from the information in the assembly instructions and/or with incorrect use of our products.
This also applies to combinations with external products that have not been approved by us.

General:
Observe the nationally valid installation and filling specifications of the pipe manufacturer!
Compact the substrate and cable foundation well before cable/pipe installation, so that the cables/pipes cannot sink.
Incorrect cable or protection pipe installation and unprofessional filling of the cable trench leads to settling, which can in turn lead to damage.
Only open cable penetrations directly before fitting with cables, in order to avoid unintentional damage during structural work.

You find assembly instructions in other languages on the side www.uga.eu or on inquiry!

Status: 11/2016

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