

## Press Ring Seals

### General information



#### A. Applicability

These assembly instructions apply to Kröner press ring seals type S, A, Blind, E, SD, SW, SDW, SF, MFD, S-Plus as well as the divided models.

The seals can be used for core hole drilling in waterproof concrete or casings with a smooth surface.

#### B. Technical specification

The technical specifications for the press ring seals depend on the type of modular ring seal.

Data sheets are available for every type; please refer to these for the technical specifications of your modular ring seal. All aforementioned press ring seals comply with the FHRK (German Association for House Entries for Cables and Pipes) Standard 20, 30, 40, types SD and SDW additionally FHRK Standard 60.



#### C. Required tools and auxiliary materials

In addition to the common standard tools, you also require the following tools and auxiliary materials for easy installation:

- torque spanner, extension, wrench socket, calliper gauge
- lubricant, cable cleaner, cleaning cloths



You cannot use any cleaning agents containing solvents to clean the pipes or modular ring seal.

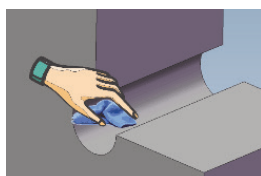
#### D. Please note

- Protect the press ring seals against damage, moisture and soiling when installing them.
- Inspect the completeness and integrity of the press ring seal to be installed. Only undamaged seals can be installed.
- Press ring seals are not fixed or supporting points and therefore cannot take on any mechanical forces.
- Expected sinking must be compensated for by installing centering aids or spacers in the casings or core holes.
- The relevant BG (German Employers' Liability Insurance Association) and VDE (Germany Association for Electrical, Electronic & Information Technologies) regulations as well as the statutory and possibly existing internal accident prevention and safety guidelines must be observed when installing the modular ring seals.
- A suitable sealing position must be selected in prefabricated walls!  
In case of doubt, please contact the responsible building contractor or the manufacturer of the wall.



## Installation

### 1. Preparing installation



- a. Prior to installation, please check the inner diameter of the casing or the core hole for the permissible tolerance as well as the outer diameter of the media pipe or the cable with the dimensions of the seal you have.
- b. The limit of tolerance for core holes or casings is -2 mm to +3 mm.
- c. The surface of the core hole, casing and media pipes must be free of dust and grooves. We recommend correcting unevenness in the core hole (contraction cavities, cracks, flaws) using epoxy resin.

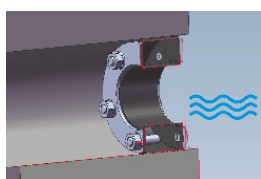
### 2. Installation



- a. In principle, one press ring seal should be installed on the outside of the building and one on the inside. If only 1 seal is used per feedthrough, it should be placed towards the outside of the building, to prevent water from being able to penetrate the open core hole or casing.
- b. If necessary, lubricate the media pipe with lubricant. Then, slide the seal onto the media pipe.



Do not apply any lubricant to the outside of the press ring!

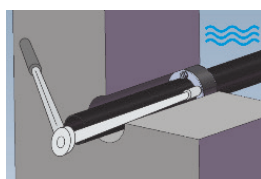


- c. In the case of divided models, fold the press ring seal around the media pipe.
- d. Insert the press ring seal into the casing or core hole flush against the wall.



When doing so, please pay attention to the right-angled installation of the modular ring seal to the core hole or casing.

### 3. Press



- a. Tighten each of the nuts alternately (crosswise) several rotations using a torque spanner until the correct torque is reached. In the process, the rubber seal is displaced by the stainless steel pressure disc. The tolerance of the components to be pressed also allows for different torque values in the case of different conditions. The rubber seal must form a slightly protruding bulge around the inside and outside and must abut against the pipe or the cable and the core hole -> visual inspection!
- b. Lesser torque values may be required for thin-walled plastic pipes, to prevent damaging the pipe.
- c. Maximum permissible tightening torque values:

| Note                     | M5     | M6     | M8    | M10   | M12   |
|--------------------------|--------|--------|-------|-------|-------|
| Normal tightening torque | 3 Nm   | 4.5 Nm | 7 Nm  | 15 Nm | 25 Nm |
| Maximum for screws       | 4.5 Nm | 6 Nm   | 16 Nm | 32 Nm | 56 Nm |



if installed correctly, it is not necessary to subsequently tighten the screws.