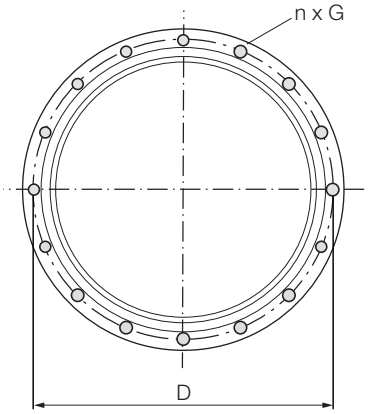
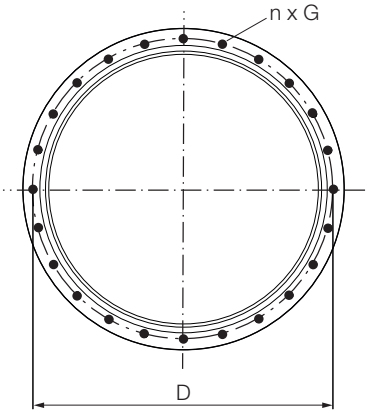
Model series R - Connecting part variants

Air actuator, type RI



Air actuator, type RS



○ Threaded hole ● Stud bolt

Specific properties

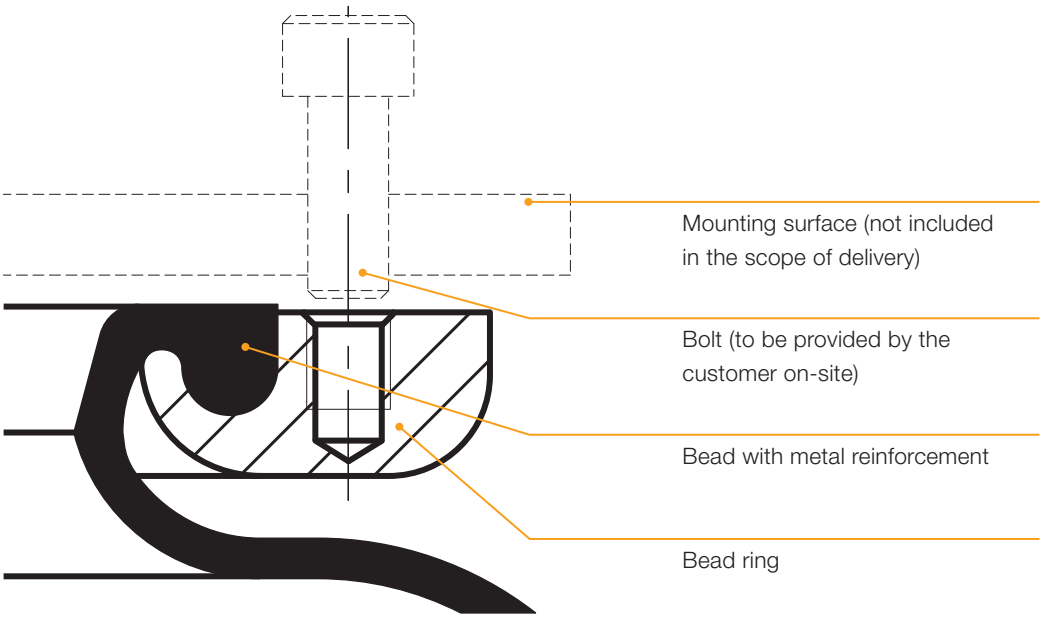
- Bead ring connecting parts can be disassembled
- Standard design uses NR elastomer
- Also available in special types: ECO, Niro and HP

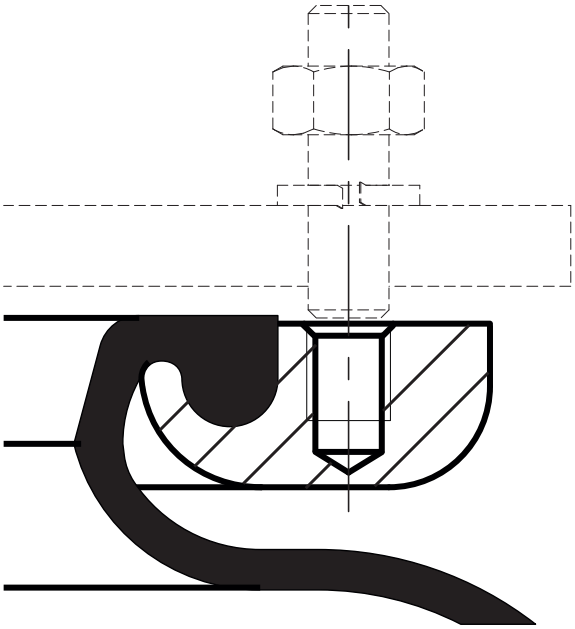
Model series R – Air actuator, type RI

RI-type air actuators have bead rings on both sides, each with threaded holes. In addition to the standard materials aluminum and mild steel, the RI-type bead rings are also available on request in stainless-steel.

Attachment

In order to safely and reliably hold the bead ring, the fastening screws must be inserted to at least 80 % of the available thread-in depth L_{min}. In the case of RI-type air actuators (designs 40 to 530), the product heights are 6 mm lower than the values specifi ed in the data sheet for the standard design (CI).





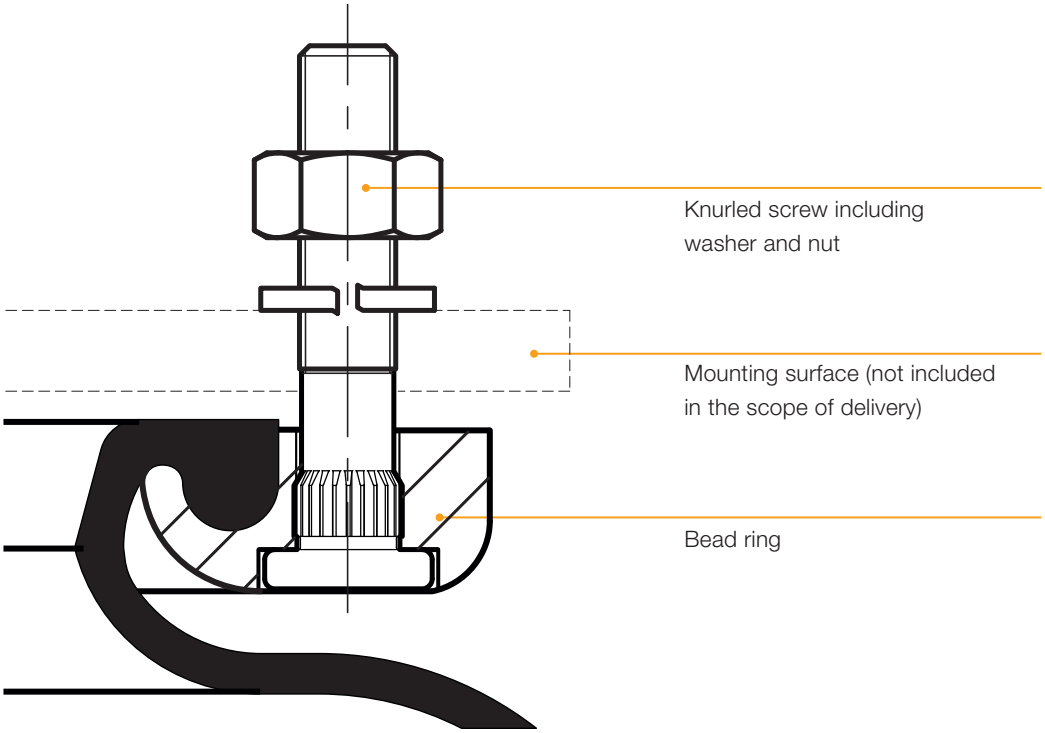
Model series R – Air actuator, type RS

RS-type air actuators have aluminum bead rings with stud bolts on both sides. The bead rings are delivered pre-mounted and accompanied by a set comprising knurled screws, nuts and circlips. All RS-type air actuators can also be supplied alternatively as RI-type air actuators.

Attachment

The knurled screws are inserted on-site into the through-holes on the bead ring and on the mounting surface. When the nuts are tightened, the knurled screws are pulled as stud bolts into the bead ring.

Use only genuine ContiTech knurled screws for assembly and installation.



Model series R –
General assembly and installation information

Mounting surface

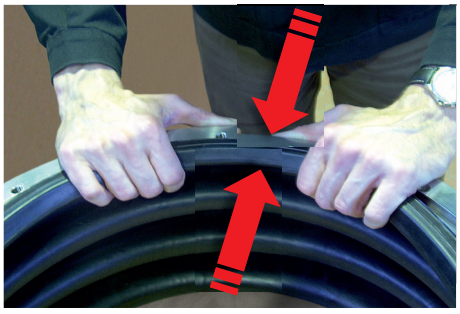
The R-type air actuators should be screwed onto a flat mounting surface on-site. The bead allows the air actuators to form a tight seal with the mounting surface. No additional seals are required. The mounting surface must have at least one circular ring area with an internal diameter of d_1 and an external diameter of d_4 (see table). The surface in question should be flat, with a surface quality of Rz ≤ 16 µm. The mounting surface should be positioned in such a way that it is not deformed as a result of the forces acting on it during operation.

Screwing down

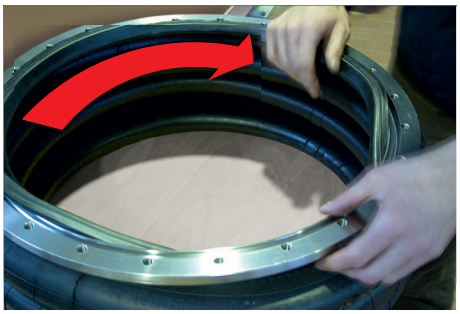
When screwing down, work diagonally and tighten the screws to the individually specified tightening torque. The bead rings can be rotated on the elastomer bellows in order to compensate for any alignment inaccuracies.

Bead ring assembly

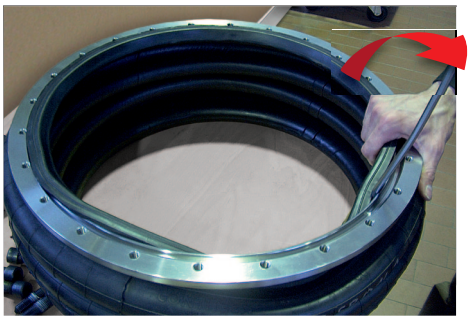
If a replacement is needed, the new elastomer bellows can be completed with the existing bead rings. Make sure that the bead ring is undamaged and that it matches the chosen bellows. You are at risk of being injured yourself or causing injuries to others if the bead ring does not match or is damaged. Normally, „dry“ mounting should not pose any problems. However, if this is not the case, it helps to moisten the parts with soapy water.



- Press the bead into the bead ring groove at any point on the circumference.



- Continue to press the bead into the groove for 2/3 of the circumference.



- Use a tire lever with a slightly hooked end to further pry the bead along the circumference. While doing this, hold down the section already pressed into place. Do not use any sharp-edged or pointed tools.