



BACKUP RINGS

STU-type backup rings are used in combination with radial-sealing O-Rings to prevent gap extrusion (extrusion of seals into the sealing gap).

APPLICATIONS

STU backup rings are often used in fluid technology, especially in valves and pumps. But they also have applications in many other areas of general industry, such as sealing ball valves.

FUNCTION



STU-type backup rings are endless elastomer rings with a concave cross-section, which provides the O-Ring with a more extensive contact surface. This enables the O-Ring to maintain its nearly round cross-section even under high pressure, and it is subject to very low deformation. This produces an improved sealing effect and increases the operating life of the seal. The STU backup ring has no sealing function itself. But its symmetrical profile allows it to be used in internal and external sealing systems.

DIMENSIONS

The currently available dimensions can be found on our website dichtomatik.fst.com or on our online ordering platform **EASY**.

YOUR ADVANTAGES AT A GLANCE

- High resistance to extrusion
- High wear resistance
- Improved sealing effect and increased operating life for the O-Rings
- Nearly all dimensions for standard O-Ring measurements from stock

| Profile | Type | Color | Material | Hardness | Temperature (°C) | Pressure (MPa)** |
|---|------|-------|--------------|--------------|------------------|------------------|
|  | STU | black | NBR | 90 Shore A | -30 to +100 | ≤ 20 |
|  | STR* | white | POM | ≥ 82 Shore D | -50 to +90 | ≤ 60 |
| PTFE | | | ≥ 51 Shore D | -200 to +260 | ≤ 40 | |

* On request, STR-type backup rings in POM and PTFE materials, endless or slotted in each case, are available. Other materials are available on request.

** The maximum permissible operating pressure depends on clearance, design of the backup ring and operating conditions.

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