



## Back-up ring STU

### DESCRIPTION

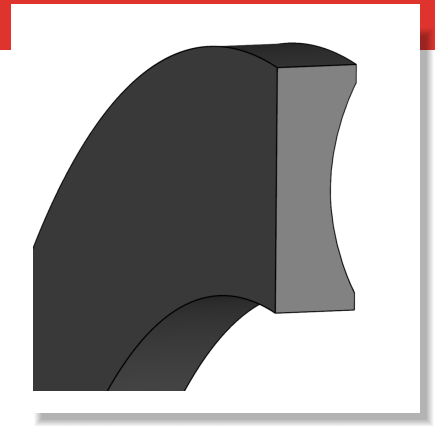
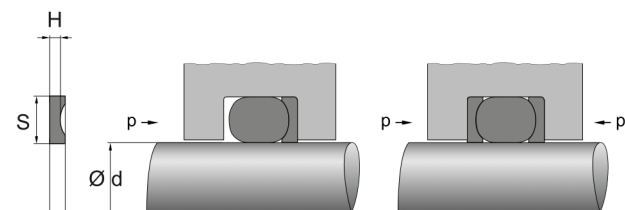
- Concave cross section
- Material: NBR

### FUNCTION

- Extension of the application range of o-rings
- Prevents gap extrusion with radial sealing O-rings

### PRODUCT ADVANTAGES

- Excellent sealing effect
- High wear resistance
- High pressure creep resistance
- Low deformation due to larger contact surface of the O-ring
- High extrusion reliability
- Long service life
- Reliable design with broad application spectrum for moderately demanding applications in general industry
- Good price/performance ratio
- Manufactured by certified external suppliers



### APPLICATIONS

- Hydraulic valves
- Pipe fittings for general industry
- Ball valves
- Cylinder base and head

### APPLICATION LIMITS

- The operating limits are determined by the selected o-ring. The pressure resistance of the sealing system can be increased by a small gap dimension and the backup ring.
- Temperature [°C]: -30 to 100
- Pressure [Mpa]: max. 12
- The values given here are maximum values and may not all be reached at the same time.

### MEDIA RESISTANCE

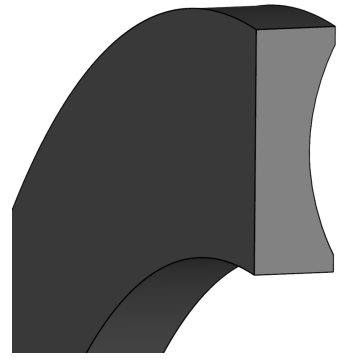
- Hydraulic oils according to DIN 51524 part 1-3
- Flame-retardant hydraulic fluids HFA, HFB, HFC according to VCMA 24317
- Water up to max. +60°C
- Good chemical resistance to various mineral oils and greases, vegetable and animal oils and greases
- Low resistance to ozone, weathering and ageing

### CONFORMITY AND CERTIFICATES

- Please consult the material data sheet valid for the respective material for current information on approvals and certificates, as this information depends on the compound and cannot be listed exhaustively here.

 DICHTOMATIK

## Back-up ring STU



### DESIGN GUIDELINE

- Machine installation space according to the manufacturer's specifications
- Installation space tends to be wider than for a simple o-ring

### INSTALLATION GUIDELINE

- Avoid any damage during installation
- For one-sided pressure loading, install on the side facing away from the pressure behind the o-ring, concave side facing the o-ring and flat side facing the gap
- To avoid installation errors or in the case of changing pressure directions, use two support rings, one support ring on each side of the o-ring

### STORAGE ADVISE

- Storage temperature <25°C
- No direct heat sources
- No direct sunlight
- No condensation in the storage room
- No exposure to ozone or ionizing radiation
- Recommendations based on the revision of ISO 2230 dated 16.09.1992

The information contained herein is believed to be reliable, but no representations, warranties or guarantees of any kind are made as to its accuracy or suitability for any purpose. The information reproduced herein is based on laboratory testing and is not necessarily indicative of end product performance. Complete testing and performance of the end product is the responsibility of the user.

© Freudenberg FST GmbH | [dichtomatik.fst.com](http://dichtomatik.fst.com)