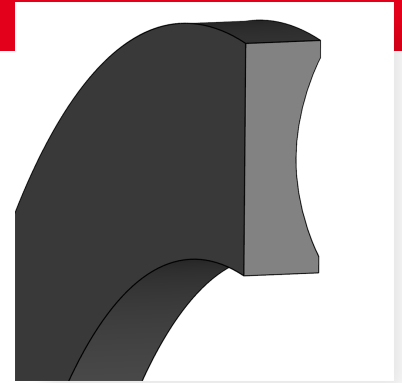




Back-up ring STU

DESCRIPTION

- Concave cross section

FUNCTION

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

PRODUCT ADVANTAGES

- Excellent sealing effect
- High pressure creep resistance
- High wear resistance
- 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
- Low deformation due to larger contact surface of the O-ring

APPLICATIONS

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

CONFORMITY AND CERTIFICATES

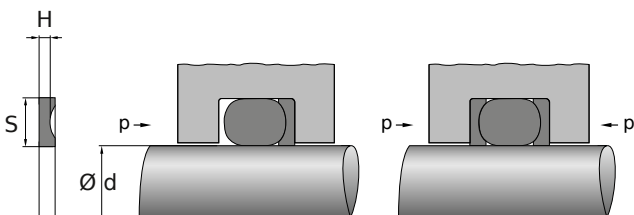
- Please consult the material data sheet valid for the respective material for current information on approvals and certificates, as this information depends on the compound and cannot be listed exhaustively here.

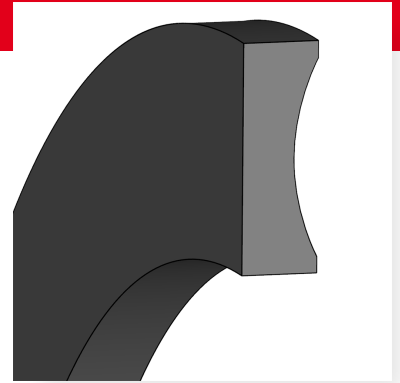
DESIGN GUIDELINE

- Flat surface
- Surface roughness $R_{max} \leq 15 \mu m$

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





Back-up ring STU

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

Temperature [°C]

NBR
-30...100

The values given are based on a limited number of tests on standard test specimens (2 mm sample plates) from laboratory production. The data determined from finished parts may deviate from the above values depending on the manufacturing process and the part geometry.

The information provided herein is based on laboratory tests and on data sources deemed reliable. It constitutes general, non-binding guideline values and does not represent any guarantee of specific properties or suitability for a particular purpose. The suitability of a product for a specific application depends on the actual operating conditions and a variety of factors. Full testing and performance evaluation of the final product are the responsibility of the user. Freudenberg FST GmbH | www.fst.com