



DICHTOMATIK

U-ring SNI43

DESCRIPTION

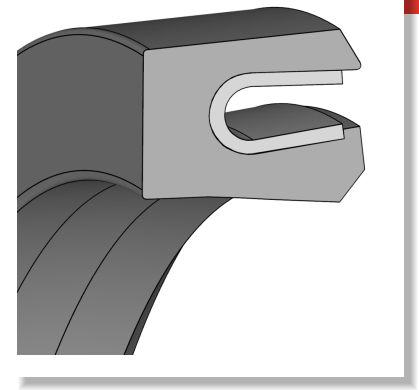
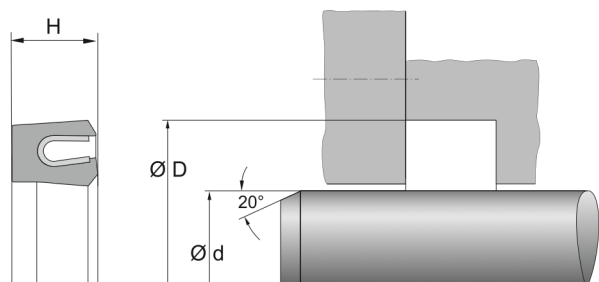
- Asymmetrical
- Single acting
- V-spring as preload element
- Inner main lip
- Tight fit on the outer diameter
- Sealing material: PTFE carbon
- Spring material: Stainless steel 1.4310 (DIN EN 1008-1)

FUNCTION

- Sealing of piston rods
- Suitable for high pressures and vacuum due to active preloading of the sealing lip
- Use with one-sided pressure load
- Pretensioning provides static tightness

PRODUCT ADVANTAGES

- Optimized sealing effect (asymmetric sealing lips)
- High chemical resistance
- Low friction even at low speed
- High wear resistance
- Suitable for dry running and deficient lubrication
- Wide temperature range



- No stick-slip effect
- High extrusion reliability
- Reliable design with broad application spectrum for moderately demanding applications in general industry
- Good price/performance ratio
- Manufactured by certified external suppliers

APPLICATIONS

- Stationary hydraulics
- Standard cylinders

APPLICATION LIMITS

- Temperature [°C]: -150 to 250
- Gliding speed [m/s]: max. 15
- Pressure [Mpa]: max. 35
- The values given here are maximum values and may not all be reached at the same time.

MEDIA RESISTANCE

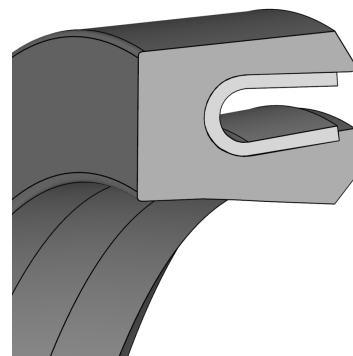
- Hydraulic oils of all types
- Hot air and steam
- Very good resistance in a wide range of media

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

U-ring SNI43



DESIGN GUIDELINE

- Cylinder housing and piston rod/piston must be chamfered to prevent damage
- Length and angle of the installation chamfers must be in accordance with installation space drawing
- Surface roughness of groove flanks $Ra \leq 3 \mu\text{m}$
- Surface roughness of groove base $Ra \leq 1,8 \mu\text{m}$
- Surface roughness of mating surface $Ra \leq 0,4 \mu\text{m}$

INSTALLATION GUIDELINE

- Installation in axially open groove
- Semi-open or closed installation spaces possible for a limited dimensional range
- Deburr sharp edges, provide with seamless chamfers and radii
- Clean the installation space carefully before installation, remove dust, dirt, metal chips, etc.
- Do not pull the seal over sharp edges, threaded tips or cavities (feather key grooves) during installation, cover with a mounting sleeve if necessary
- Oil or grease the piston rod before installation

STORAGE ADVISE

- Storage temperature $< 25^\circ\text{C}$
- 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