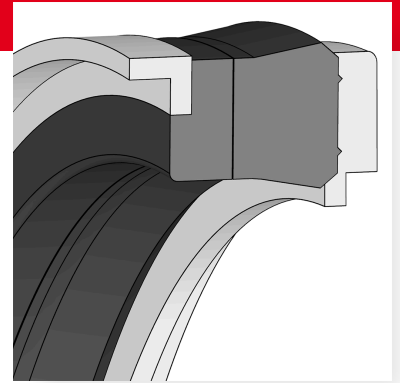




Piston seal KNA16

DESCRIPTION

- Asymmetrical
- Single acting
- Tight fit on inner diameter
- Main lip outside
- Seal back reinforced with fabric
- Retaining ring delimits installation space on pressure-facing side

FUNCTION

- Sealing of pistons
- Use with one-sided pressure load
- Fabric portion prevents gap extrusion
- Angle bushings serve as integrated guide elements

PRODUCT ADVANTAGES

- 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

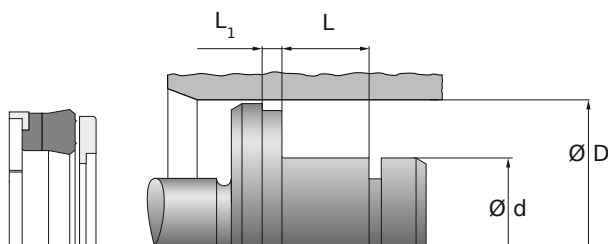
- Hydraulics
- Cylinders with increased pressure requirements

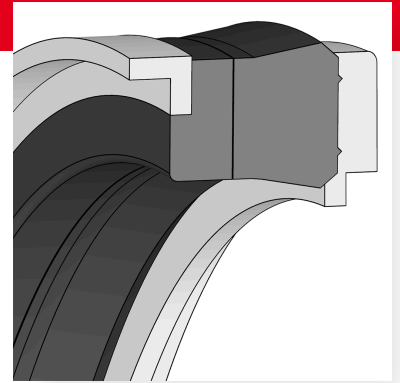
CONFORMITY AND CERTIFICATES

- 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

- Installation space cleaned and free of deposits or old packing rings
- Please refer to the technical manual for design guidelines.
- Surface roughness of the groove flanks $R_a \leq 3 \mu\text{m}$
- With pulsating pressures, hardness of the o-ring should not be less than 80 Shore A
- Mating surface should be at right angles to the shaft





DICHTOMATIK

Piston seal KNA16

INSTALLATION GUIDELINE

- Installation in axially open groove
- 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, threads, or keyways during installation; cover with an installation sleeve if necessary
- Grease the piston seal before fitting the cylinder
- The retaining ring supplied serves to secure the seal on the presure side and enables deformation-free installation of the complete sealing system on the piston

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

Pressure [MPa]

NBR

50

Sliding speed [m/s]

NBR

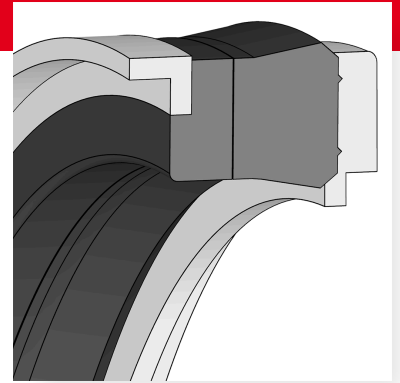
0.5



DICHTOMATIK



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Piston seal KNA16

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

