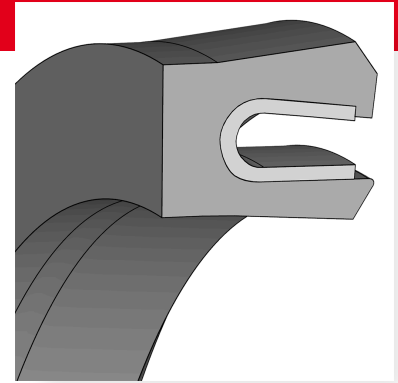




Piston seal KNA44

DESCRIPTION

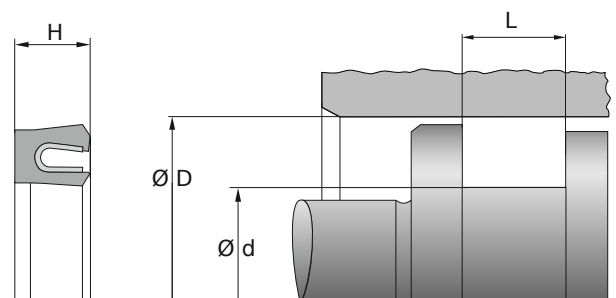
- Asymmetrical
- Single acting
- V-spring as preload element
- Tight fit on inner diameter
- Main lip outside

FUNCTION

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

APPLICATIONS

- Standard cylinders
- Stationary hydraulics



PRODUCT ADVANTAGES

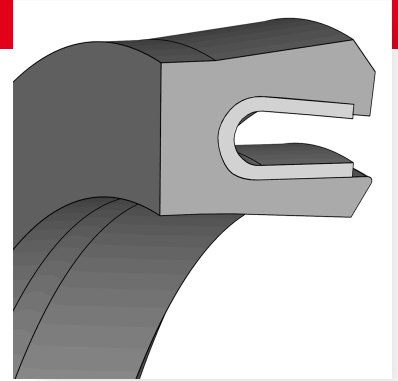
- Low friction even at low speed
- High chemical resistance
- High wear resistance
- Wide temperature range
- High extrusion reliability
- Reliable design with broad application spectrum for moderately demanding applications in general industry
- No stick-slip effect
- Good price/performance ratio
- Manufactured by certified external suppliers
- Suitable for dry running and deficient lubrication

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
- 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



Piston seal KNA44

INSTALLATION GUIDELINE

- Semi-open or closed installation spaces possible for a limited dimensional range
- Installation in axially open groove
- 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
- The seal must not be kinked during installation
- Calibrate at the end

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]

PTFE
35

Temperature [°C]

PTFE
-150...250

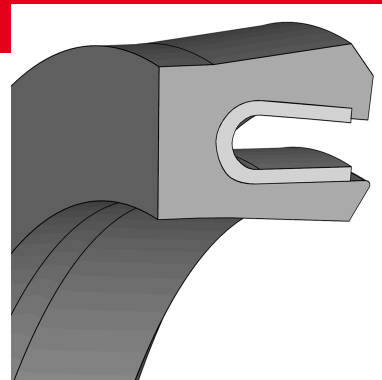
Sliding speed [m/s]

PTFE
15

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.



Piston seal KNA44



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

