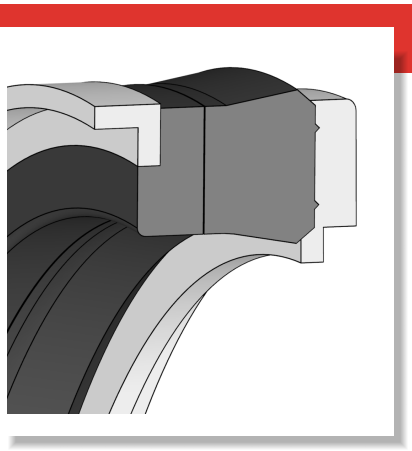


DICHTOMATIK

Piston seal KNA16

DESCRIPTION

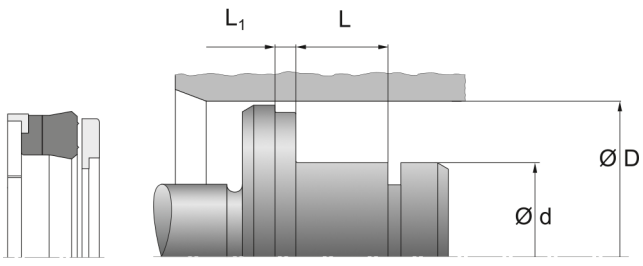
- Asymmetrical
- Single acting
- Main lip outside
- Retaining ring delimits installation space on pressure-facing side
- Tight fit on inner diameter
- Seal back reinforced with fabric
- Sealing material: NBR
- Material guide element / retainer ring: POM
- Material on back of seal: Cotton fabric / NBR

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

APPLICATION LIMITS

- Temperature [°C]: -30 to 100
- Gliding speed [m/s]: max. 0,5
- Pressure [Mpa]: max. 50
- The values given here are maximum values and may not all be reached at the same time.

MEDIA RESISTANCE

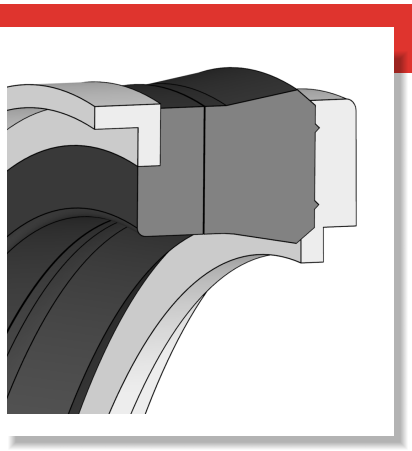
- Hydraulic oils according to DIN 51524 part 1-3
- Lubricating oils
- Lubricating greases based on minor oils
- Flame-retardant hydraulic fluids HFA, HFB, HFC according to VCMA 24317

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

- 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 ≤ 3 µm
- Surface roughness of groove base Ra ≤ 1,8 µm
- Surface roughness of mating surface Ra ≤ 0,4 µm



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, threaded tips or cavities (feather key grooves) during installation, cover with a mounting sleeve if necessary
- Grease the piston seal before fitting the cylinder
- The retaining ring supplied serves to secure the seal on the presusre 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