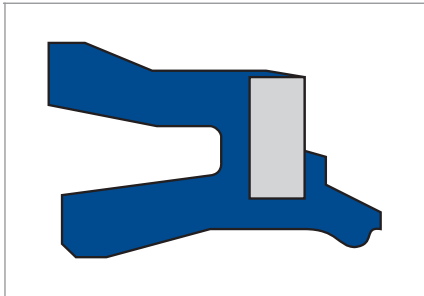


MERKEL COMBINATION SEAL NIPSL



PRODUCT DESCRIPTION

Combination wiper seal with metal reinforcement and special pneumatic sealing edge.

PRODUCT ADVANTAGES

- Combination seal with minimal space requirements, which seals inwards and wipes outwards.
- The component can be replaced from the outside (without dismantling the equipment)
- Broad supply range

APPLICATION

- Rod seal for pneumatic cylinders

MATERIAL

Seal

| Material | Code | Hardness |
|--------------------------------|------------|------------|
| Acrylonitrile-butadiene rubber | 72 NBR 708 | 72 Shore A |

Base plate

| Material | Code | Hardness |
|----------------------------------|------|----------|
| mild steel according to DIN 1624 | – | – |

FKM on enquiry.

OPERATING CONDITIONS

| | |
|----------------------|--|
| Medium | Prepared, dried and de-oiled compressed air (after greasing for fitting) |
| Operating pressure p | ≤1,2 MPa |
| Temperature T | –20 ... +100 °C |
| Running speed v | ≤1,0 m/s |

DESIGN NOTES

Surface quality

| Peak-to-valley heights | R _{max} | R _p /R _z |
|------------------------|------------------|--------------------------------|
| Rod | ≤4 µm | <0,5 µm |
| Groove base | ≤10 µm | <0,5 µm |

t_p (25% R_{max}) = 50 ... 75%

→ Technical Manual.

FITTING & INSTALLATION

Careful fitting is a prerequisite for the correct function of the seal. → Technical Manual. The Merkel Combination Seal NIPSL is pressed into the housing from outside. The back is supported by a circlip (DIN 7993). To remove the seal, it is advisable to provide an axial cut-out in the ring groove that allows the circlip to be easily removed.