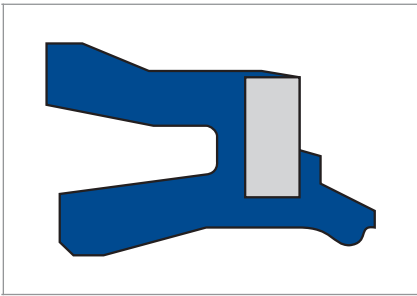


MERKEL COMBINATION SEAL NIPSL



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.