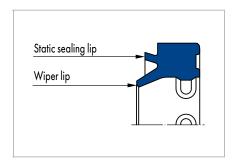
# MERKEL WIPER PU 5



#### **PRODUCT DESCRIPTION**

Dirt wiper with additional static sealing lip and bearing segments; sealing edge of wiper lip slightly rounded.

#### **PRODUCT ADVANTAGES**

Single-acting wiper, use also in standardised housings according to ISO 6195 Type A.

- Additional static sealing lip prevents ingress of dirt and water
- Wiper lip with slightly rounded sealing edge reliably wipes dirt away and leaves a residual oil film on the retracting rod; friction behaviour and service life are improved
- The support on the wiper heel prevents twisting in the groove as well as pressure build-up between wiper and seal

# **APPLICATION**

- Mining
- Earth moving equipment
- Industrial vehicles
- Loading platforms
- Agricultural machinery
- Cranes
- Presses
- Injection moulding machines
- Support cylinders
- Telescopic cylinders

## **MATERIAL**

Material	Code	Hardness
Polyurethane	95 AU V149	95 Shore A

#### **OPERATING CONDITIONS**

Running speed v	2 m/s	
Medium/ Temperature	95 AU V149	
Hydraulic oils HL, HLP	−30 °C +110 °C	
HFA fluids	+5 °C +50 °C	
HFB fluids	+5 °C +50 °C	
HFC fluids	−30 °C +40 °C	
HFD fluids	-	
Water	+5 °C +50 °C	
HETG (rapeseed oil)	−30 °C +60 °C	
HEES (synthetic ester)	−30 °C +80 °C	
HEPG (glycol)	−30 °C +50 °C	
Mineral greases	−30 °C +110 °C	

#### **DESIGN NOTES**

Please observe our general design notes in → Technical Manual.

Surface quality

Peak-to-valley heights	R <sub>a</sub>	R <sub>max</sub>
Sliding surface	* µm	* µm
Groove base	≤1,6 µm	≤6,3 µm
Groove flanks	≤3,0 µm	≤15,0 µm

<sup>\*</sup> Surface roughness of the sliding surface to suit the sealing component used.

## **Tolerances**

Nominal Ø d	D	D <sub>1</sub>
16 200 mm	H11	H11

The tolerance for the  $\varnothing$  d is defined by the buffer seal.

# FITTING & INSTALLATION

Careful fitting is a prerequisite for the correct function of the Merkel Wiper PU 5. Generally, wipers can be quickly and easily fitted by deforming into a kidney shape. → Technical Manual.

## Lead-in chamfers

Length and angle are to be designed to suit the rod seal used.

