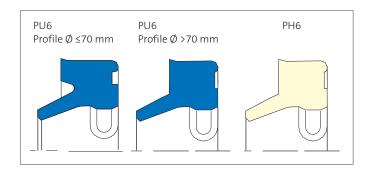
# MERKEL WIPER PU6 / PH6



**Merkel Wiper PU6 / PH6** is a single-acting wiper made of polyurethane or Hytrel with supportive segments to avoid twisting, a slightly rounded wiper lip and a static sealing edge at the outside diameter.



## **Application**

Single-acting wiper, mainly used in earth moving equipment, injection molding machines, presses, support cylinders in the mining industry.

#### Material

Material	Designation	Color
Polyurethane	95 AU V149	dark blue
Polyurethane	95 AU V142	dark blue
Hytrel	97 TPE TP106	white

# **VALUE TO THE CUSTOMER**

- No ingress of dirt and water spray via outside diameter
- Reliably wipes away dirt
- Leaves a residual film of oil on retracting rod
- No twisting and pressure build-up between seal and wiper
- Highly wear-resistant





# TECHNICAL PROPERTIES

## **Operating Conditions**

Material	95 AU V142 / 95 AU V149 97 TPE TP106
Hydraulic Oils, HL, HLP	−30 +110 °C
HFA Fluids	+5 +50 °C
HFB Fluids	+5 +50 °C
HFC Fluids	−30 +40 °C
HFD Fluids	-
Water	+5 +50 °C
HETG (rape-seed oil)	−30 +60 °C
HEES (synth. ester)	−30 +80 °C
HEPG (glycol)	−30 +40 °C
Mineral Greases	−30 +110 °C
Sliding Speed	2 m/s

The figures given are maximum values and must not be applied simultaneously.

#### **Surface Finish**

Peak-to-valley Heights	$R_{a}$	R <sub>max</sub>
Sliding Surface	0,05 0,3 μm	≤2,5 μm
Groove	≤1,6 μm	≤6,3 μm
Groove Sides	≤3,0 μm	≤15,0 μm

Material content  $M_r > 50\,\%$  to max. 90 %, with cut depth c =  $R_z/2$  and reference line  $C_{ref}$  = 0 %

#### **Tolerance Recommendation**

Nominal Ø d [mm]	D	$D_1$
12 200	H10	H11

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

#### **Installation Chamfers**

Length and angle must be executed to suit the rod seal being used.

## **Installation & Assembly**

Careful installation is a prerequisite for the correct function of the wiper Merkel PU 6. Generally, wipers can be quickly and easily fitted by deforming them into a kidney shape. Please note the general remarks on the installation of hydraulic seals in our Technical Manual, chapter "Assembling hydraulic seals".

#### **Design Notes**

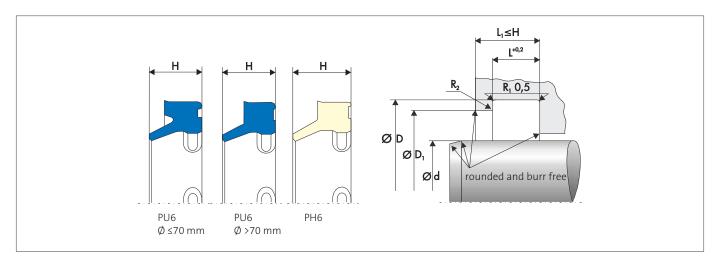
Please note the general design remarks in our Technical Manual.





# **GLAND DESIGN**

## **Installation Diagram**



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