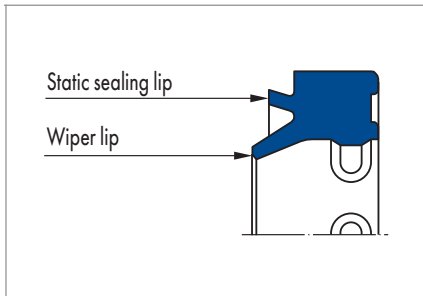


MERKEL WIPER PU 5



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 spray
- 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
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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_a	R_{max}
Sliding surface	* μm	* μm
Groove base	$\leq 1,6 \mu\text{m}$	$\leq 6,3 \mu\text{m}$
Groove flanks	$\leq 3,0 \mu\text{m}$	$\leq 15,0 \mu\text{m}$

* Surface roughness of the sliding surface to suit the sealing component used.

Tolerances

Nominal $\varnothing d$	D	D_1
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.