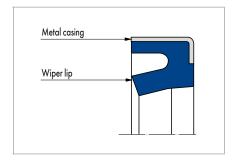
MERKEL WIPER AUPS



PRODUCT DESCRIPTION

Dirt wiper with metal housing; wiper lip flush with housing.

PRODUCT ADVANTAGES

Single-acting wiper for the protection of cylinders against ingress of dirt; especially also as protective component and sealing component for pivoting bearings, amongst others, in standardised housings according to ISO 6195 Type B.

- Secure seating in the housing (press fitting), no rotation with the shaft on pivoting motion
- Re-greasing of pivoting bearings possible without problems;
 lip opens at low overpressure; old grease can escape
- Low axial housing height, wiper lip not protruding
- Axially open, easy to manufacture housing

APPLICATION

- Earth moving equipment
- Industrial vehicles
- Loading platforms
- Agricultural machinery
- Cranes
- Support cylinders
- Pivoting pin seal

MATERIAL

Wiper

Material	Code	Hardness
Polyurethane	94 AU 925	94 Shore A

Metal housing

Material	Code	Hardness
unalloyed steel DIN 1624	-	-

OPERATING CONDITIONS

Running speed v	2 m/s	
Medium/ Temperature	94 AU 925	
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 +40 °C	
HETG (rapeseed oil)	−30 °C +60 °C	
HEES (synthetic ester)	−30 °C +60 °C	
HEPG (glycol)	−30 °C +40 °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	0,05 0,3* µm	≤2,5* µm
Groove flanks	≤1,6 µm	≤6,3 µm
Groove base	≤3,0 µm	≤15,0 µm

Percentage contact area M,>50% up to max 90% at cutting depth c = Rz/2 and reference line C ref = 0%. * On usage as a wiper, surface roughness of the sliding surface to suit the sealing component used.

Tolerances

Nominal Ø d	D
30 100 mm	H8

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

FITTING & INSTALLATION

Merkel Wiper AUPS wipers are pressed into axially open housings. Careful fitting is a prerequisite for the correct function of the wiper. → Technical Manual.

Lead-in chamfers

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

