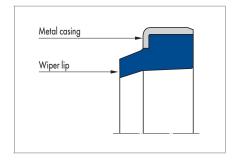
# **MERKEL WIPER AUAS**



## **PRODUCT DESCRIPTION**

Dirt wiper with metal housing, wiper lip protruding with sharp, punched sealing edge.

## **PRODUCT ADVANTAGES**

Single-acting wiper for the protection of cylinders against ingress of dirt, use in standardised housings, amongst others, according to ISO 6195 Type B.

- Secure seating in housing (press fitting)
- No open ring gap to the outside (dirt pocket) between rod and wiper housing
- No pressure build-up between wiper and seal
- Axially open, easy to manufacture housing

As a preference, we recommend the use of the more modern type AUAS R. The wiper lip with a radius reliably wipes away dirt and simultaneously leaves a residual film of oil on the retracting rod; friction behaviour, tightness and service life of the whole system are further improved.

### **APPLICATION**

- Earth moving equipment
- Industrial vehicles
- Loading platforms
- Agricultural machinery
- Cranes
- Presses
- Support cylinders

#### 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	Ra	R <sub>max</sub>
Sliding surface	* µm	* µm
Groove flanks	≤1,6 µm	≤6,3 µm
Groove base	≤3,0 µm	≤15,0 µm

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

#### Tolerances

Nominal Ø d	D
10 260 mm	H8

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

### **FITTING & INSTALLATION**

The Merkel Wiper AUAS is 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.





