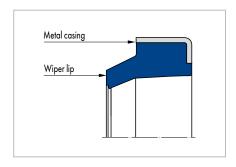
# MERKEL WIPER AUAS R



#### **PRODUCT DESCRIPTION**

Dirt wiper with metal housing, wiper lip protruding; AUAS with slightly rounded sealing edge.

#### **PRODUCT ADVANTAGES**

Single-acting wiper for the protection of cylinders against ingress of dirt, use in standardised housings, amongst others, according to IS 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

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	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
10 260 mm	H8 mm

The tolerance for the Ø d is defined by the buffer seal.

### **FITTING & INSTALLATION**

The Merkel Wiper AUAS R 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.

