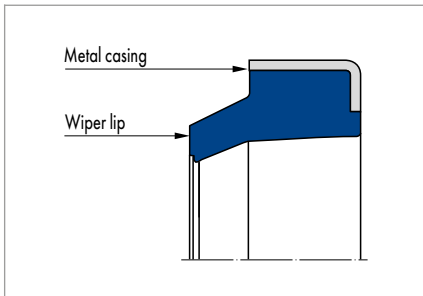


# MERKEL WIPER AUAS R



## 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
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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	* $\mu\text{m}$	* $\mu\text{m}$
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
10 ... 260 mm	H8 mm

The tolerance for the  $\varnothing d$  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.