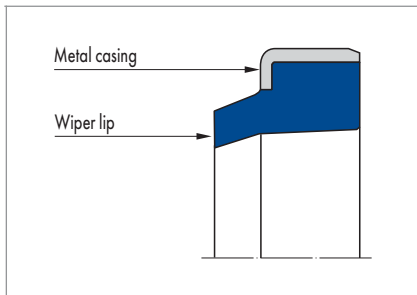


MERKEL WIPER AUAS



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
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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	* μm	* μm
Groove flanks	$\leq 1,6 \mu\text{m}$	$\leq 6,3 \mu\text{m}$
Groove base	$\leq 3,0 \mu\text{m}$	$\leq 15,0 \mu\text{m}$

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

Tolerances

Nominal $\varnothing d$	D
10 ... 260 mm	H8

The tolerance for the $\varnothing d$ 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.