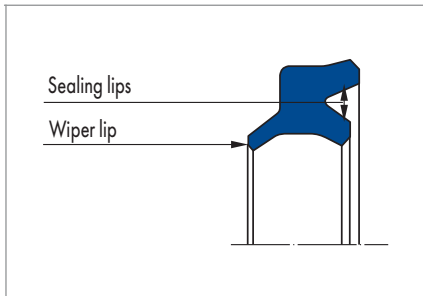


# MERKEL DOUBLE WIPER PU 11



## PRODUCT DESCRIPTION

U-ring with wiper lip (double-lip wiper); sealing edge of wiper lip lightly rounded.

## PRODUCT ADVANTAGES

Double wiper for improvement of total tightness; dimensions also for standardised housing according to ISO 6195 Type C.

- Sealing lips pointing inwards fulfil the function of a U-ring
- Wiper lip with lightly rounded sealing edge reliably wipes away dirt and leaves a residual oil film on the retracting rod
- Tightness, service life and friction behaviour of the entire system are improved.

Merkel Double Wiper PU 11 can take pressures up to 1,6 MPa. If higher pressures can build, up we recommend a pressure relieving bore between seal and wiper.

## APPLICATION

- Industrial vehicles
- Injection moulding machines
- Standard cylinders

## MATERIAL

Material	Code	Hardness
Polyurethane	95 AU V142	95 Shore A

## OPERATING CONDITIONS

Running speed $v$	1 m/s
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Medium/Temperature	95 AU V142
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 ... +50 °C
HETG (rapeseed oil)	-30 °C ... +60 °C
HEES (synthetic ester)	-30 °C ... +80 °C
HEPG (glycol)	-30 °C ... +50 °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	$D_1$
12 ... 200 mm	H11	H11

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

## FITTING & INSTALLATION

Careful fitting is a prerequisite for the correct function of the Merkel Double Wiper PU 11. Generally, wipers can be quickly and easily fitted by deforming into a kidney shape. → Technical Manual.

### Lead-in chamfers

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