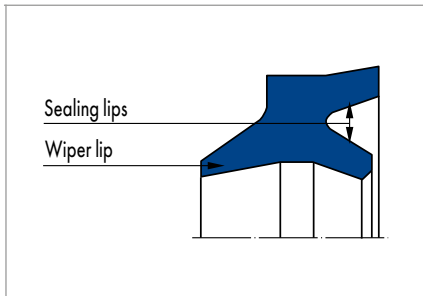


MERKEL DOUBLE WIPER P 9



PRODUCT DESCRIPTION

Elastomer double wiper especially for large diameters.

PRODUCT ADVANTAGES

The Merkel Double Wiper P 9 exerts inwards the wiping function of a U-ring, and a wiping action outwards against soiling.

- Intermediate sizes without mould/tool possible
- Strong wiping action against dirt
- Very good sealing effect against residual film of oil on the extending rod
- Wear-resistant

APPLICATION

- Presses
- Injection moulding machines
- Standard cylinders (large)

MATERIAL

Material	Code	Hardness
Nitrile rubber NBR	85 NBR B247	85 Shore A

OPERATING CONDITIONS

Running speed v	1 m/s
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Medium/ Temperature	85 NBR B247
Hydraulic oils HL, HLP	-30 °C ... +100 °C
HFA fluids	+5 °C ... +60 °C
HFB fluids	+5 °C ... +60 °C
HFC fluids	-30 °C ... +60 °C
HFD fluids	-
Water	+5 °C ... +100 °C
HETG (rapeseed oil)	-30 °C ... +80 °C
HEES (synthetic ester)	-30 °C ... +80 °C
HEPG (glycol)	-30 °C ... +60 °C
Mineral greases	-30 °C ... +100 °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 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
16 ... 2000 mm	H10	

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 P 9. 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.