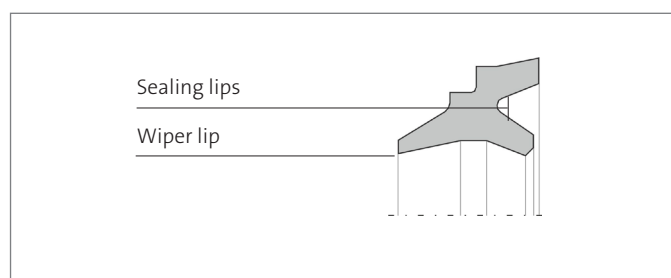


MERKEL DOUBLE WIPER P 8



Merkel Double Wiper P 8, double-acting elastomer dirt wiper.



Applications

Inwardly, the Merkel double wiper P 8 exercises the stripping function of a lip seal, and outwardly a wiper effect against dirt. The Merkel P 8 is principally used in conjunction with our rod sealing system. In order to prevent a pressure build-up between the seal and the wiper, we definitely recommend providing a pressure relief borehole in front of the double wiper.

Material

Material	Designation	Color
Nitrile rubber	NBR	black

Other materials available on request.

VALUE TO THE CUSTOMER

- Strong wiping action against dirt
- Very good sealing effect against residual film of oil on the extending rod
- Wear-resistant



FEATURES AND BENEFITS

Operating conditions

Material	NBR
Hydraulic oils, HL, HLP	−30 ... +100 °C
HFA fluids	+5 ... +60 °C
HFB fluids	+5 ... +60 °C
HFC fluids	−30 ... +60 °C
HFD fluids	–
Water	+5 ... +100 °C
HETG (rape-seed oil)	−30 ... +80 °C
HEES (synth. ester)	−30 ... +80 °C
HEPG (glycol)	−30 ... +60 °C
Mineral greases	−30 ... +100 °C
Sliding speed	2 m/s

The figures given are maximum values and must not be applied simultaneously.

Surface finish

Peak-to-valley heights	R_a	R_{max}
Sliding surface	*	*
Groove base	$\leq 1,6 \mu m$	$\leq 6,3 \mu m$
Groove sides	$\leq 3,0 \mu m$	$\leq 15,0 \mu m$

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

Material content $M_r > 50\%$ to max. 90%, with cut depth $c = R_z/2$ and reference line $C_{ref} = 0\%$

Design notes

Please note our general design-related remarks in the Merkel Technical Manual.

Tolerance recommendation

Nominal- \varnothing d	D	D ₁	D ₂
16 ... 1.000	H10	H11	H10

The tolerance for the diameter d is determined by the buffer seal.

Installation chamfers

Length and angle must be executed to suit the rod seal being used.

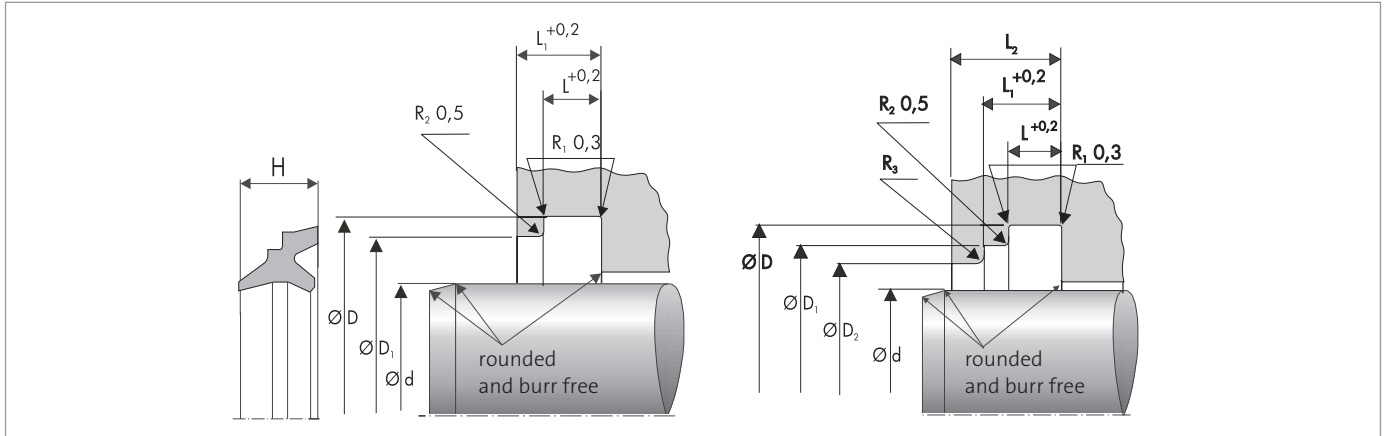
Installation & assembly

Careful installation is a prerequisite for the correct function of the wiper. Generally, wipers can be quickly and easily fitted by deforming into a kidney shape. Please note our general remarks on the installation of hydraulic seals in the Merkel Technical Manual.



FEATURES AND BENEFITS

Installation diagram



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