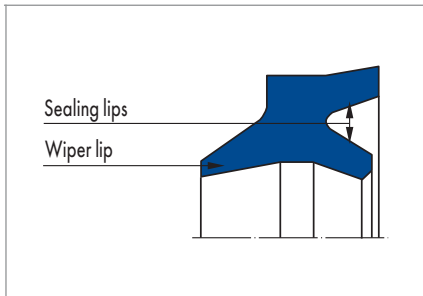


# MERKEL DOUBLE WIPER P 9



## 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 |
|-------------------|-------|

| Medium/<br>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        | * $\mu\text{m}$        | * $\mu\text{m}$         |
| 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   | $D_1$ |
|-------------------------|-----|-------|
| 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.