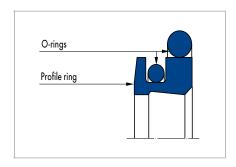
# **MERKEL DOUBLE WIPER PT 2**



## **PRODUCT DESCRIPTION**

Merkel Double Wiper PT 2 consisting of one profile ring made from PTFE with a sealing edge and a wiper edge, as well as two O-rings as sealing and pre-load components.

#### **PRODUCT ADVANTAGES**

Double wiper for improvement of total tightness. The Merkel Double Wiper PT 2 is mainly fitted in combination with our rod seals Merkel Omegat OMS-S. A pressure relieving bore is to be provided between seal and wiper

- Excellent regulation and positioning in operation
- Low friction, free of stick-slip
- Material variants for short stroke and high frequency; available on enquiry
- Especially suitable for large diameters

#### **APPLICATION**

- Presses
- Injection moulding machines
- Steel hydraulics engineering
- Rolling mills

## **MATERIAL**

Profile ring

Material	Code	Hardness
PTFE bronze compound	PTFE B602	-

## O-ring

Material	Code	Hardness
Nitrile rubber NBR	NBR	70 Shore A
Fluoro rubber	FKM	70 Shore A

#### **OPERATING CONDITIONS**

Running speed v	5 m/s	
Medium/ Temperature	85 NBR B247	85 FKM K664
Hydraulic oils HL, HLP	−30 °C +100 °C	−10 °C +200 °C
HFA fluids	+5 °C +60 °C	+5 °C +60 °C
HFB fluids	+5 °C +60 °C	+5 °C +60 °C
HFC fluids	−30 °C +60 °C	-
HFD fluids	-	+10 °C +200 °C
Water	+5 °C +100 °C	+5 °C +80 °C
HETG (rapeseed oil)	−30 °C +80 °C	−10 °C +80 °C
HEES (synthetic ester)	−30 °C +80 °C	−10 °C +100 °C
HEPG (glycol)	−30 °C +60 °C	−10 °C +80 °C
Mineral areases	-30 °C ±100 °C	-10 °C +200 °C

#### **DESIGN NOTES**

Please observe our general design notes in → Technical Manual.

## Surface quality

Peak-to-valley heights	Ra	R <sub>max</sub>
Sliding surface	* µm	* µm
Groove base	≤1,6 µm	≤6,3 µm
Groove flanks	≤3,0 µm	≤15,0 µm

<sup>\*</sup> Surface roughness of the sliding surface to suit the sealing component used.

#### **Tolerances**

Nominal Ø d	D	D <sub>1</sub>
100 1200 mm	Н8	Н8

The tolerance for the Ø d is defined by the buffer seal.

## **FITTING & INSTALLATION**

Careful fitting is a prerequisite for the correct function of the Merkel Double Wiper PT 2. Generally, wipers can be quickly and easily fitted by deforming into a kidney shape. → Technical Manual. For diameters from >100 mm to 150 mm, a fitting tool is required. Under 100 mm, no fitting in plunge-cut groove is possible.

## Lead-in chamfers

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

