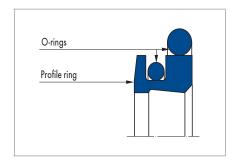
MERKEL DOUBLE WIPER PT 2



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/ 85 NBR B247 85 FKM K664 Temperature −30 °C ... +100 °C −10 °C ... +200 °C Hydraulic oils HL, HLP +5 °C ... +60 °C +5 °C ... +60 °C HFA fluids HFB fluids +5 °C ... +60 °C +5 °C ... +60 °C HFC fluids -30 °C ... +60 °C +10 °C ... +200 °C HFD fluids 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 −30 °C ... +60 °C −10 °C ... +80 °C HEPG (glycol) −10 °C ... +200 °C

DESIGN NOTES

Mineral greases

Please observe our general design notes in → Technical Manual.

-30 °C ... +100 °C

Surface quality

Peak-to-valley heights	R _a	R _{max}
Sliding surface	* µm	* µm
Groove base	≤1,6 µm	≤6,3 µm
Groove flanks	≤3,0 µm	≤15,0 µm

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

Tolerances

Nominal Ø d	D	D ₁
100 1200 mm	H8	Н8

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 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.

