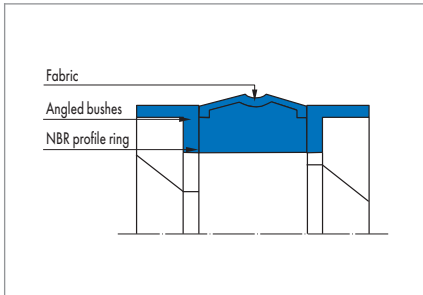


Merkel Compact Seal Simko 320 X2



Product description

Three-piece Merkel Compact Seal Simko 320 X2 consisting of a fabric reinforced elastomeric sealing element and two guide back-up rings.

Product advantages

Double-acting Merkel piston seal with integrated guide back-up rings.

Application

- Earth moving equipment
- Agricultural machinery
- Cranes
- Standard cylinders

Material

Sealing component

Material	Hardness
Nitrile rubber NBR and fabric reinforcement	80 Shore A

Guide back-up rings

Material	Hardness
Polyamide	–

Operating conditions

Pressure p	40 MPa
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Running speed v	0,5 m/s
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Medium/ Temperature	80 NBR 878/PA
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	–

Medium/ Temperature	80 NBR 878/PA
Water	+5 °C ... +90 °C
HETG (rapeseed oil)	–30 °C ... +80 °C
HEES (synthetic ester)	–
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	0,05 ... 0,3 µm	≤2,5 µm
Groove base	≤1,6 µm	≤6,3 µm
Groove flanks	≤3,0 µm	≤15,0 µm

Percentage contact area M_r >50% to max. 90% at cutting depth c = Rz/2 and reference line C_{ref} = 0%.

Tolerances

Nominal Ø D	D	d	d ₂	d ₃
25 ... 250 mm	H11	h11	±0,07	f8

Fitting & installation

Careful fitting is a prerequisite for the correct function of the seal.
→ Technical Manual.