

MERKEL COMPACT SEAL AIRZET PK



PRODUCT DESCRIPTION

Merkel Compact Seal Airzet PK can be pressurised on both sides with grooves on the front side for pressure activation.

PRODUCT ADVANTAGES

- The compact design permits short piston designs
- The rounded sealing profile and the flexible centre part give good tightness with low friction and maintain an effective lubricating film
- Widely proven design
- Large supply range available
- Very good tribological properties (wear, friction and long service life)

APPLICATION

- Short-stroke cylinders
- Valves and cylinders, especially short-stroke cylinders for high-temperature applications (only FKM)

MATERIAL

Material	Code	Hardness
NBR rubber	80 NBR 186349	80 Shore A
Fluoro elastomer	75 FKM 230553	75 Shore A

OPERATING CONDITIONS

Medium	Prepared, dried and de-oiled compressed air (after greasing for fitting)
Operating pressure p	≤1,2 MPa
Temperature T (NBR)	-20 ... +80 °C
Temperature T (FKM)	-5 ... +150 °C
Running speed v	≤1,2 m/s

DESIGN NOTES

Surface quality

Peak-to-valley heights	R _{max}	R _p /R _z
Cylinder barrel	≤4 µm	<0,5 µm
Groove base	≤10 µm	<0,5 µm

tp (25% R_{max}) = 50 ... 70%

→ Technical Manual.

FITTING & INSTALLATION

Careful fitting is a prerequisite for the correct function of the seal. → Technical Manual. The Merkel compact seal Airzet PK is snapped over the de-burred housing edge into the housing groove.