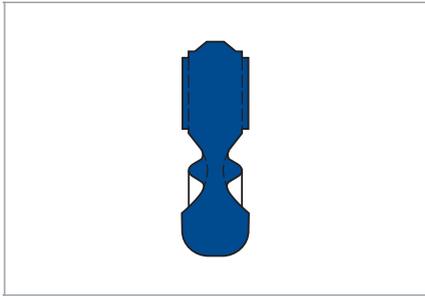


MERKEL COMPACT SEAL KDN



FITTING & INSTALLATION

Careful fitting is a prerequisite for the correct function of the seal.
 → Technical Manual. Merkel Compact Seal KDN is snapped over the de-burred housing edge into the housing groove.

PRODUCT DESCRIPTION

Merkel Compact Seal 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

APPLICATION

- Short-stroke cylinders

MATERIAL

Material	Code	Hardness
Acrylonitrile-butadiene rubber	72 NBR 708	72 Shore A

OPERATING CONDITIONS

Medium	Prepared, dried and de-oiled compressed air (after greasing for fitting)
Operating pressure p	≤1,0 MPa
Temperature T	-20 ... +100 °C
Running speed v	≤1,0 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 ... 75%

→ Technical Manual.