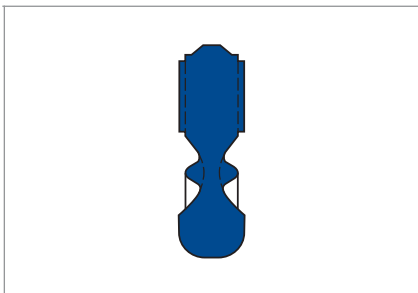


## MERKEL COMPACT SEAL KDN



### 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 <sub>max</sub>	R <sub>p</sub> /R <sub>z</sub>
Cylinder barrel	≤4 µm	<0,5 µm
Groove base	≤10 µm	<0,5 µm

tp (25% R<sub>max</sub>) = 50 ... 75%

→ Technical Manual.