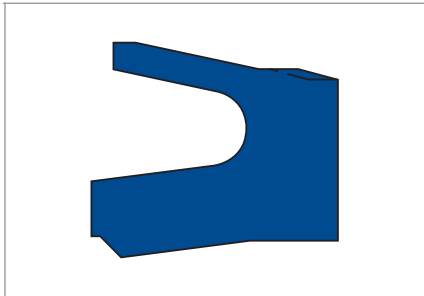


MERKEL U-RING NAP 300



FITTING & INSTALLATION

Careful fitting is a prerequisite for the correct function of the seal.
→ Technical Manual. Pneumatic U-rings can be snapped by hand into the housing grooves provided.

PRODUCT DESCRIPTION

Merkel U-ring with asymmetrical profile and special pneumatic sealing edge on the dynamic sealing lip.

PRODUCT ADVANTAGES

- The asymmetrical profile with the longer and thicker static sealing lip ensures secure seating in the bottom of the groove
- The special pneumatic sealing edge gives very good tightness with low friction and maintains an effective lubricating film
- Material with high wear resistance
- Good low temperature properties

APPLICATION

- Piston seal e.g. for ISO pneumatic cylinders

MATERIAL

Material	Code	Hardness
Polyurethane	80 AU 941	80 Shore A

OPERATING CONDITIONS

Medium	Prepared, dried and de-oiled compressed air (after greasing for fitting)
Operating pressure p	≤1,2 MPa
Temperature T	-35 ... +80 °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

$t_p (25\% R_{max}) = 50 \dots 75\%$

→ Technical Manual.