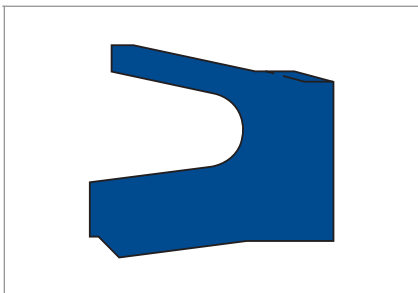


MERKEL U-RING NAP 300



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 |

tp (25% R_{max}) = 50 ... 75%

→ Technical Manual.