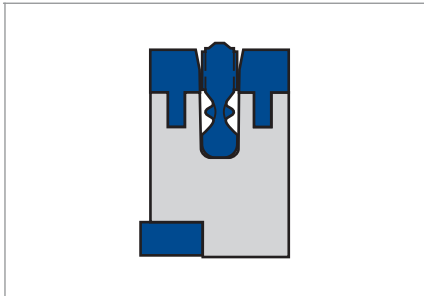


# MERKEL COMPLETE PISTON PNEUKO G



## PRODUCT DESCRIPTION

Merkel complete piston with light alloy/polyamide body, snap-action seal and integrated guide.

## PRODUCT ADVANTAGES

- Ready to fit Merkel complete piston with very low height to which pressure can be applied on both sides
- Easily fastened to the piston rod
- Integrated static seal on the inside diameter

## APPLICATION

- Pneumatic cylinder without request, frequent special cylinder

## MATERIAL

### Seal

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

### Base plate

>25 mm

| Material  | Code | Hardness |
|-----------|------|----------|
| Aluminium | Al   | –        |

### Base plate

≤25 mm

| Material                       | Code      | Hardness |
|--------------------------------|-----------|----------|
| Polyoxymethylene (poly-acetal) | POM 20 GF | –        |

### Guide

>25 mm

| Material  | Code    | Hardness |
|-----------|---------|----------|
| Polyamide | PA 4601 | –        |

### Guide

≤25 mm

| Material                       | Code | Hardness |
|--------------------------------|------|----------|
| Polyoxymethylene (poly-acetal) | POM  | –        |

### Static seal

| Material                       | Code       | Hardness   |
|--------------------------------|------------|------------|
| Acrylonitrile-butadiene rubber | 72 NBR 872 | 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

Careful fitting is a prerequisite for the correct function of the seal. → Technical Manual. The complete piston is fitted to shouldered end of the piston rod and fastened with washers (up to and including Ø 25 DIN 125 ≥ Ø 25 DIN 1440) and a nut. The threaded fitting is to be protected against loosening.

## 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                        |

tp (25% R<sub>max</sub>) = 50 ... 70%

→ Technical Manual.

## FITTING & INSTALLATION

Prior to installation in the cylinder, grease all cylinder contact surfaces evenly. Do not introduce any grease into the piston groove.