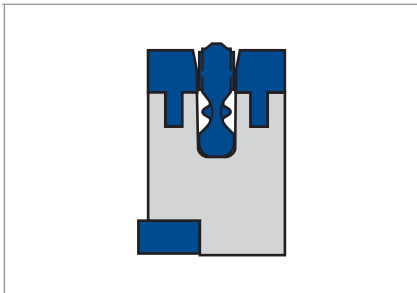


MERKEL COMPLETE PISTON PNEUKO G



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 _{max}	R _p /R _z
Cylinder barrel	≤4 µm	<0,5 µm

tp (25% R_{max}) = 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.