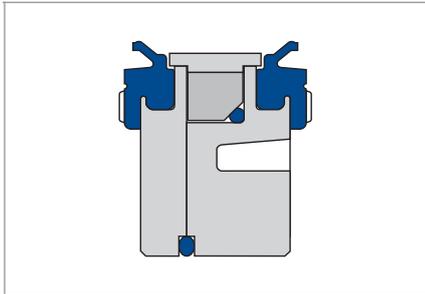


# MERKEL COMPLETE PISTON PNEUKO M 310



## PRODUCT DESCRIPTION

The compact, short, Merkel complete pneumatic piston PneuKO M consists of an aluminium body, guide strip, a magnet and the sealing body with a special sealing edge on the sealing lip and integrated buffers made of very wear resistant polyurethane.

## PRODUCT ADVANTAGES

- Long service life
- Low start friction due to optimised sealing lip geometry and additional venting passages
- Constant good sealing behaviour over a wide pressure range (to 1,2 MPa)
- Running properties without tendency to tilt due to a guide strip optimised for the application
- Aluminium body brings weight saving and permits high energy absorption
- Easily fastened to the piston rod
- Integrated static seal
- Supplied suitable for storage and fitting in deep-drawn inserts
- Simple provisioning
- Integrated magnet for a position check using a sensor

## APPLICATION

- Broad range of uses, only one piston for short stroke cylinders, compact cylinders, round cylinders and ISO cylinders

## MATERIAL

Material	Code	Hardness
Polyurethane	80 AU 21000	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	-25 ... +80 °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

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

→ Technical Manual.

## FITTING & INSTALLATION

Careful fitting is a prerequisite for the correct function of the seal. → Technical Manual. The Merkel Complete Piston PneuKO M 310 is fitted to shouldered end of the piston rod and fastened with washers and a nut. The threaded fitting is to be protected against loosening.