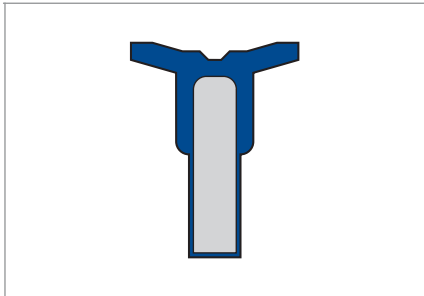


MERKEL COMPLETE PISTON TDUOP



PRODUCT DESCRIPTION

Merkel complete piston with steel base plate and vulcanised sealing lips with special pneumatic sealing edges.

PRODUCT ADVANTAGES

- Ready to fit complete piston to which pressure can be applied on both sides with integrated guide
- Easily fastened to the piston rod without additional sealing components
- Long service life
- Constant good sealing behaviour over a wide pressure range (to 1,2 MPa)
- Simple provisioning

APPLICATION

- Pneumatic cylinder without request

MATERIAL

Seal

Material	Code	Hardness
NBR rubber	72 NBR 708	72 Shore A

Base plate

Material	Code	Hardness
mild steel according to DIN 1624	–	–

OPERATING CONDITIONS

Medium	Prepared, dried and de-oiled compressed air (after greasing for fitting)
Operating pressure p	≤1,2 MPa
Temperature T	–20 ... +100 °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

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

→ Technical Manual.

FITTING & INSTALLATION

Careful fitting is a prerequisite for the correct function of the seal. → Technical Manual. The Merkel Complete Piston TDUOP 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.