

# Merkel Complete Piston TDUOP

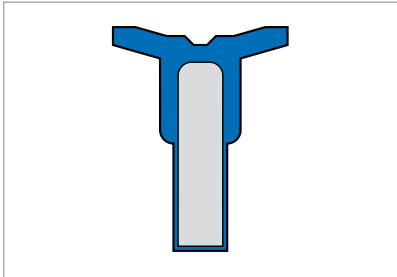


Fig. 1 Merkel Complete Piston TDUOP

## 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

Material	Code	Hardness	Base plate
NBR rubber	72 NBR 708	72 Shore A	mild steel according to DIN 1624

FKM on enquiry.

## Operating conditions

Medium	Prepared, dried and de-oiled compressed air (after greasing for fitting)
Operating pressure p	≤1,2 MPa (12 bar)
Temperature T	-20 ... +100 °C
Running speed v	≤1 m/s

## Design notes

### Surfaces

Surface roughness	R <sub>max</sub>	R <sub>p</sub> /R <sub>z</sub>
Cylinder barrel	≤4 µm	<0,5
	tp (25% R <sub>max</sub> ) = 50 ... 70%	

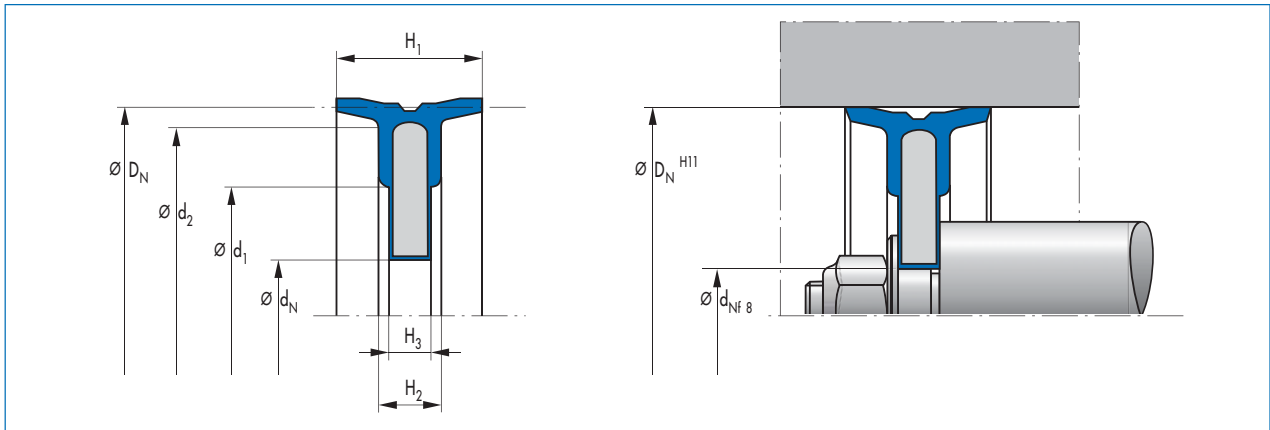
→ Technical Manual.

## 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.

Article list



D <sub>N</sub>	d <sub>N</sub>	d <sub>1</sub>	d <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	Material	Article No.	
25	8	15,6	21,4	12	4,6	3,8	72 NBR 708	112175	●
32	8	20	27,8	15	6,2	3,8	72 NBR 708	112176	●
35	8	25	30,8	15	4	4,8	72 NBR 708	125373	●
40	10	25	35	18	7,4	4,8	72 NBR 708	112177	●
50	10	37	45	18	7,4	4,8	72 NBR 708	112178	●
63	12	43	57,4	22	9	5,8	72 NBR 708	112179	●
70	12	50	64,4	22	9	5,8	72 NBR 708	112180	●
80	16	55	73,5	25	9	5,8	72 NBR 708	112239	●
100	16	75	93,5	25	9	6,8	72 NBR 708	112181	●
125	20	95	118	30	13	9,6	72 NBR 708	112182	●
140	20	110	132,5	30	14,2	10,8	72 NBR 708	112183	●

● Available from stock ○ On request: Tool is available, delivery at short notice