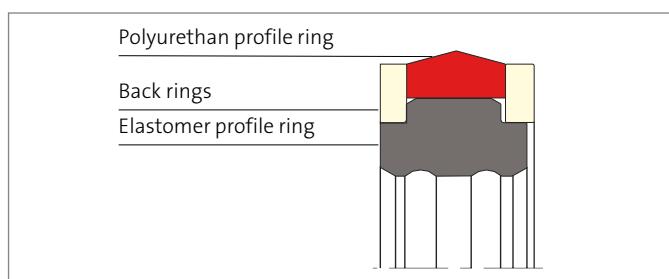


MERKEL COMPACT SEAL T 42



Merkel Kompaktdichtung T 42 is a double-acting piston seal with a sealing element made of polyurethane, an elastomer activating element and two back rings.



VALUE TO THE CUSTOMER

- Very good protection against extrusion even with pressure peaks
- High resistance to abrasion
- High contact pressure due to rubber profile ring
- Good media resistance, particularly with regard to aqueous solutions

Application

The T 42 compact seal is predominantly used in mining applications. The seal can be pressurised on both sides in plungers, pushers, stamping and ancillary cylinders in self-advancing support system.

Material

Polyurethan profile ring

Material	Designation	color
Polyurethan	93 AU V167	red

Back rings

Material	Designation
Polyacetal	POM PO202

Elastomer profile ring

Material	Designation
Nitrile rubber	NBR

Piston seal



FEATURES AND BENEFITS

$\varnothing d$ [mm]	Profile [mm]	70 MPa				
		D	d	d_2	d_f	X2
... 230	>7,5 ... 10,0 (BR 5,0 x 3,5)	H8	h9	h7	h7	0,4
... 300	>10,0 ... 12,5 (BR 6,5 x 3,5)	H8	h9	h7	h7	0,5
... 400	>12,5 (BR 7,5 x 5,0)	H8	h9	h7	h7	0,6

Tolerance recommendation and dimension d_2

When designing d_2 the admissible gap width, tolerances, guide play and deflection of the guide under load are to be taken into account. Please consult our Technical Manual.

Profile recommendation

D [mm]	S [mm]	L [mm]
<150	7,5	16
150 ... 200	10	20
>200 ... 400	12,5	20
>400	15	25

Installation & assembly

Reliable seal function is dependent on correct installation. Please consult our Technical Manual.

Installation diagram

