

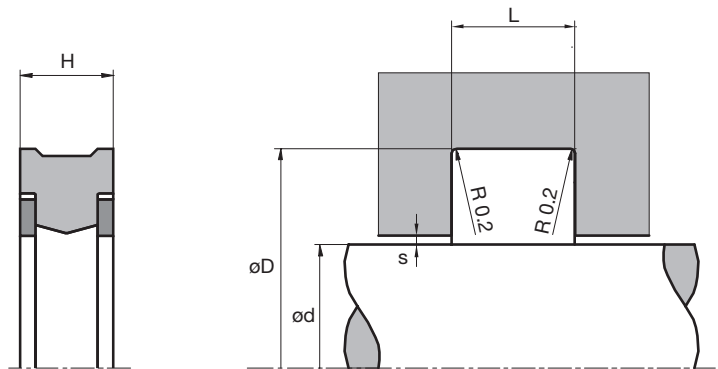


trygonal

Rotary Seal TR03R

double acting

Housing design



The dimensions $s + c$ are dependent on the respective seal type.

Design

- Rotary seal made of rubber with backup rings
- Tight fit on outer diameter
- Backup rings allow larger gap dimensions
- Use at higher temperatures and with different media

Application



rotating



oscillating



screwing

Brightened symbols:
Seal only for limited use.
Please contact us.

Surface finish

Roughness	Rtmax (μm)	Ra (μm)	Material portion
Sliding surface	$\leq 2,5$	0,1 – 0,5	Hardness: min. 45 HRC (55 HRC recommended), insert depth > 0.3mm Contact area: 50 - 95% at a cutting depth of $0.5 \times R_z$ starting from $C_{ref} = 0\%$.
Groove base	$\leq 6,3$	$\leq 1,6$	
Groove flanks	≤ 15	≤ 3	

Standard dimensions

ϕd (mm)	ϕD H9 (mm)	L + 0,2 (mm)	H (mm)	s (mm)
> 22 – \leq 36	d + 10	8	5,9	e8/H9
> 36 – \leq 56	d + 12	8	7,1	e8/H9
> 56 – \leq 85	d + 15	11	9,8	f7/H7
> 85 – \leq 140	d + 20	13	11,5	f7/H7
> 140 – \leq 200	d + 25	16	14,1	f7/H7
> 200 – \leq 300	d + 30	19	16,7	f7/H7
> 300	d + 40	26	23,0	f7/H7

Material and application parameters

Sealing element	Support ring	Temp. ($^{\circ}\text{C}$)	max. sliding speed (m/s)	max. pressure ¹
NBR standard	POM/PA6G ²	-30 – +100	0,2	250 bar (25 MPa)
FPM diet br	PTFE glass wear	-20 – +200	0,2	250 bar (25 MPa)
EPDM spring	POM/PA6G ²	-40 – +100	0,2	250 bar (25 MPa)
EPDM spring	PTFE glass wear	-50 – +150	0,2	250 bar (25 MPa)
HNBR diet	POM/PA6G ²	-25 – +100	0,2	250 bar (25 MPa)
HNBR diet	PTFE glass wear	-25 – +150	0,2	250 bar (25 MPa)
AFLAS [®] standard	Peek nature diet	-10 – +200	0,2	250 bar (25 MPa)

¹ Pressure values as a function of the gap dimension. ² $\leq \phi 280\text{mm}$: POM ; $> \phi 280\text{mm}$: PA6G

The specified application parameters are generally valid values and must not be used simultaneously with the application. An order can be placed by specifying the profile type, material and specified housing design dimensions.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.