

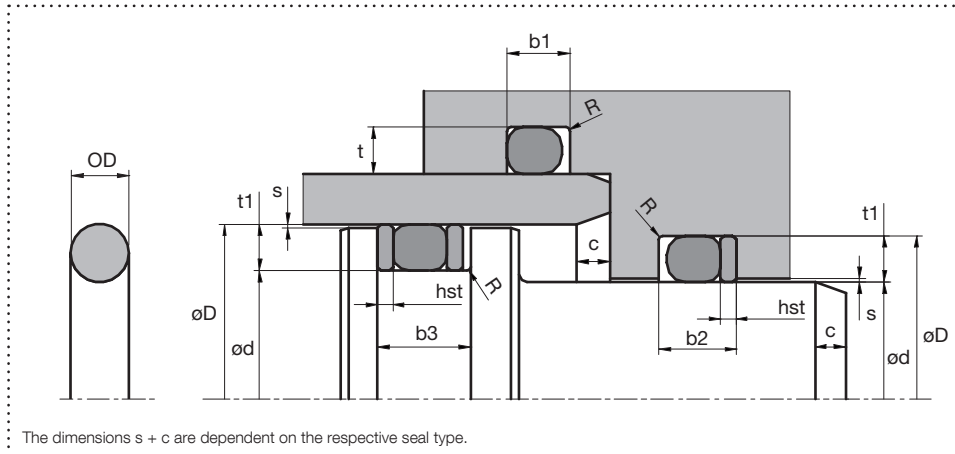


trygonal

Rotary Seal TR13

O-ring single/double acting

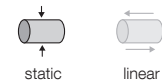
Housing design



Design

- O-ring in various dimensions and materials
- Resistant to chemical and thermal requirements
- Used as sealing or preload element
- Alternative seal types are suggested for dynamic applications

Application



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

Surface finish

Pressure Roughness	constant		pulsating		Material portion
	Rtmax (µm)	Ra (µm)	Rtmax (µm)	Ra (µm)	
Sliding surface ¹	12,5	3,2	6,3	1,6	Ratio contact area: 50 – 95% at a cutting depth of 0.5 x Rz starting from Cref = 0%
Groove base ²	12,5	3,2	6,3	1,6	
Groove flanks	12,5	3,2	6,3	1,6	

¹Rtmax/Ra dynamic application: 1,6 µm/0,4 µm ²Rtmax/Ra dynamic application: 6,3 µm/1,6 µm

Standard dimensions

OD (AS 568A ³) (mm)	OD (ISO 3601 ⁴) (mm)	t (mm)	b1 (mm)	t1 (mm)	b2 (mm)	b3 (mm)	R (mm)	hst (mm)	c (mm)	s (mm)
1,78	1,8	1,35	2,5	1,58	3,5	4,5	0,3	1	3	f7/H8
2,62	2,65	2,18	3,5	2,42	5,0	6,5	0,3	1,5	3,5	f7/H8
3,53	3,55	3	4,4	3,70	5,9	7,4	0,5	1,5	4	f7/H8
5,33	5,3	4,5	6,7	5,60	8,4	10,1	0,6	1,7	5	f7/H8
6,99	7	5,94	8,8	7,37	10,8	12,8	0,8	2	6	f7/H8
10	10	8,5	12,5	10,50	15,0	17,5	1	2,5	10	f7/H8
12	12	10,2	15,5	12,85	18,5	21,5	1	3	12	f7/H8
15	15	12,75	19	15,88	22	25	1	3	15	f7/H8

³American Standard ⁴DIN 3771

Material and application parameters

Sealing element	Temp. (°C)	max. sliding speed (m/s)	max. pressure ⁵
HPU premium	-30 – +110	only recommended for static applications	600 bar (60 MPa)
HPU diet	-20 – +110	only recommended for static applications	600 bar (60 MPa)
HPU lubric	-20 – +110	only recommended for static applications	600 bar (60 MPa)
HPU taiga	-50 – +110	only recommended for static applications	600 bar (60 MPa)
NBR standard	-30 – +100	only recommended for static applications	160 bar (16 MPa)
FPM diet br	-20 – +200	only recommended for static applications	160 bar (16 MPa)
EPDM spring	-50 – +150	only recommended for static applications	160 bar (16 MPa)
HNBR diet	-25 – +150	only recommended for static applications	160 bar (16 MPa)
MVQ diet we	-60 – +200	only recommended for static applications	160 bar (16 MPa)
PTFE virgin diet	-200 – +260	only recommended for static applications	160 bar (16 MPa)

⁵From 400 bar for HPU premium or 100 bar for NBR standard we recommend the use of support rings.

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.