

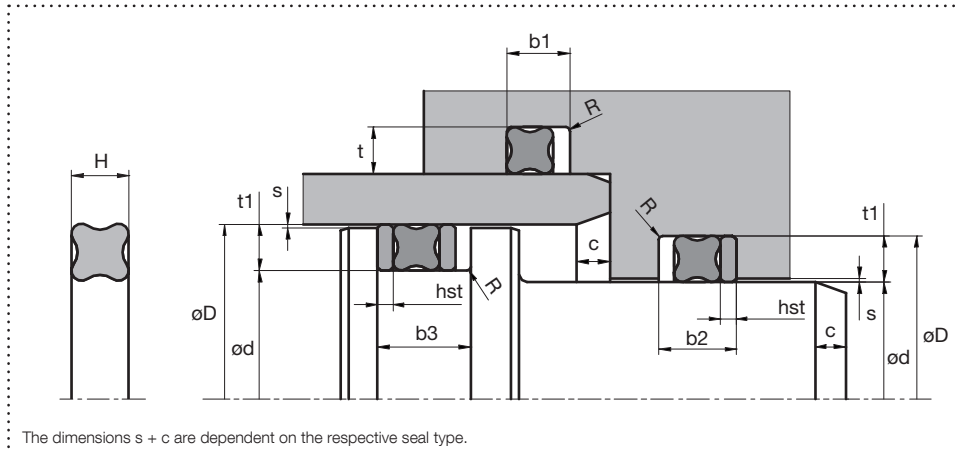


trygonal

Rotary Seal TR37P

double acting

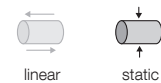
Housing design



Design

- X-Ring in different dimensions and materials
- Resistant to chemical and thermal requirements
- Used as a seal
- 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	6,3	1,6	4	0,8	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) ⁵ (mm)	OD (ISO 3601 ⁴) ⁵ (mm)	t (mm)	b1 (mm)	t1 (mm)	b2 (mm)	b3 (mm)	R (mm)	hst (mm)	c (mm)	s (mm)
2,62	2,65	2,25	3	2,35	4,4	5,8	0,3	1,4	3,5	0,08
3,53	3,55	3,1	4	3,21	5,4	6,8	0,4	1,4	4	0,08
5,33	5,3	4,75	6	4,89	7,7	9,4	0,4	1,7	5	0,10
6,99	7	6,2	8	6,40	10,5	13	0,6	2,5	6	0,10

³American Standard ⁴DIN 3771 ⁵øD = H

Material and application parameters

Sealing element	Temp. (°C)	max. sliding speed (m/s)	max. pressure
NBR standard	-30 – +100	only recommended for static applications	50 bar (5 MPa)
FPM diet br	-50 – +150	only recommended for static applications	50 bar (5 MPa)
EPDM spring	-20 – +200	only recommended for static applications	50 bar (5 MPa)
HNBR diet	-25 – +150	only recommended for static applications	50 bar (5 MPa)
MVQ diet we	-60 – +200	only recommended for static applications	–
AFLAS® standard	-10 – +200	only recommended for static applications	50 bar (5 MPa)
HPU premium	-30 – +110	only recommended for static applications	80 bar (8 MPa)
HPU diet	-20 – +110	only recommended for static applications	80 bar (8 MPa)
HPU lubric	-20 – +110	only recommended for static applications	80 bar (8 MPa)
HPU taiga	-50 – +110	only recommended for static applications	80 bar (8 MPa)

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.