

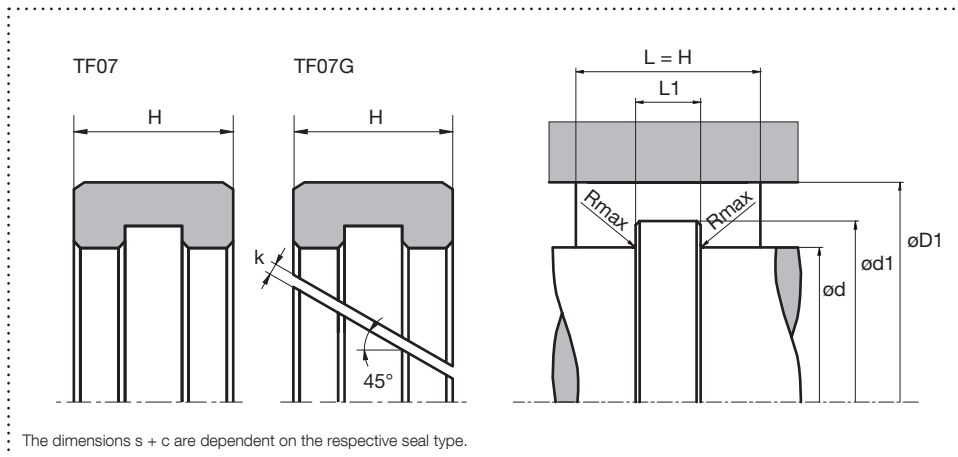


trygonal

# Guide Ring TF07/TF07G

## Hydraulics/Pneumatics

### Housing design



### Design

- Guide element with groove for piston application
- Endless design possible

### Application



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

### Surface finish

Sealing element	PU/Elastomere		PTFE		Material portion
	Roughness	Rtmax (µm)	Ra (µm)	Rtmax (µm)	
Sliding surface	≤ 2,5	0,1 – 0,5	≤ 2	0,05 – 0,3	Ratio contact area: 50 – 95% at a cutting depth of 0.5 x Rz starting from Cref = 0%
Groove base	≤ 6,3	≤ 1,6	≤ 6,3	≤ 1,6	
Groove flanks	≤ 15	≤ 3	≤ 15	≤ 3	

### Standard dimensions

Smallest nominal inside diameter  $\varnothing d \geq 22$  mm

Depending on the type of application, the geometry of the guide element must be adapted (see profile descriptions/recommended installation space). Since an uncut version is not advisable for mounting reasons, rotary applications should be avoided.

Standard designs with a  $k > 0$  cutting gap do not allow a supporting function.

A  $k = 0$  cutting gap and a spiral groove are provided for support functions.

Gap width  $k$ : Values depending on material and operating temperature.

For detailed information see profile descriptions.

### Material and application parameters

Sealing element	Temperature (°C)	max. sliding speed (m/s)	Surface pressure <sup>2</sup>
PTFE glass wear	-200 – +200	4	3,0 N/mm <sup>2</sup>
PTFE bronze wear	-200 – +200	5	4,5 N/mm <sup>2</sup>
PTFE bronze wear 60%	-200 – +200	5	7,5 N/mm <sup>2</sup>
POM <sup>1</sup>	-50 – +100	4	25 N/mm <sup>2</sup>
PA6G <sup>1</sup>	-40 – +100	4	25 N/mm <sup>2</sup>
HGW 200	-40 – +130	4	125 N/mm <sup>2</sup>

<sup>1</sup> ≤  $\varnothing 280$ mm; POM ; >  $\varnothing 280$ mm: PA6G <sup>2</sup> depending on application temperatures and permissible compression. For detailed information see profile description.

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.