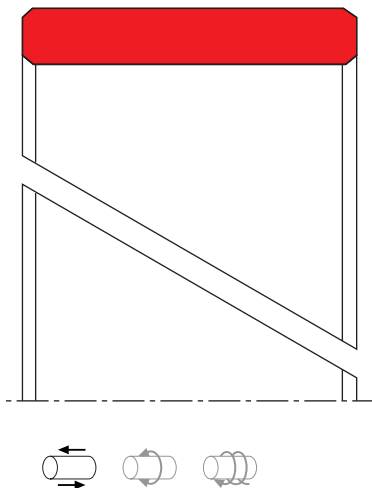


SEAL SPEC F01

seal-mart 



description

most common guide ring for rod or piston application. used in many standard cylinders, majority of applications require split version for installation into closed housings, non split design available (bushings).

category of profile

machined or molded/standard/trade product.

area of application

earth moving equipment, industrial vehicles, agricultural machinery, cranes.

advantages

as a non-metallic guide element for pistons & rods, for standardised housings, amongst others, according to ISO 10766

- no seizure due to metal/plastic materials combination.
- medium load-bearing capacity.
- chamfered profile edges prevent pressing of edge into the corner radii of the housing groove.
- simple snap-in fitting.

operating parameter & material

material	temperature	surface speed max	specific load max
POM	-50 °C ... +100 °C	4,0 m/s	25 N/mm ²
PA	-40 °C ... +100 °C	4,0 m/s	25 N/mm ²
PTFE glass	-200 °C ... +200 °C	4,0 m/s	3 N/mm ²
PTFE bronze	-200 °C ... +200 °C	5,0 m/s	4,5 N/mm ²
TEX	-40 °C ... +130 °C	1,0 m/s	90 N/mm ²

POM up to ø260 mm, PA above ø260 mm

the stated operation conditions represent general indications. it is recommended not to use all maximum values simultaneously. surface speed limits apply only to the presence of adequate lubrication film.

surface quality

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	≤2,5	0,05 ... 0,3
bottom of groove	≤10	≤2
groove face	≤15	≤3

tolerance recommendation

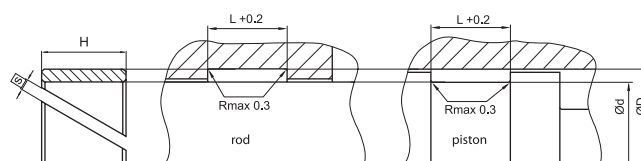
seal housing tolerance	
Ød	f8
ØD	H9

manufacture tolerance

ØD	production tolerance profile thickness	
	piston guide ring	rod guide ring
≤ 120	- 0,1	- 0,1
> 120	- 0,15	- 0,1

seal & housing recommendations

please note that we are able to produce those profiles to your specific need or any non standard housing. for detail measurements, please see seal-mart catalog...



variations:
- cutting gap width s=...mm
- endless

