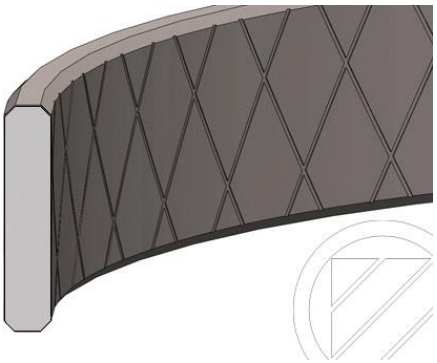
DICHTOMATIK
Any seal. Any time.



GS 01

DESCRIPTION

Product group: Guide elements
Design: Guide strip
Profile no.: 01
Material: PTFE bronze filled

OPERATIONAL APPLICATION LIMITS

Max. surface pressure (N/mm2): ≤ 15
Temperature (°C): -60 to +200
Running speed (m/s): ≤ 15

MEDIA

- Hydraulic oils acc. to DIN 51524 Part 1 – 3
- Lubricating oils
- Mineral oil based lubricating greases
- Highly non-flammable hydraulic fluids HFA, HFB, HFC acc. to VDMA 24317

FUNCTION

Guide strips made of PTFE compounds serve to guide pistons and rods. They prevent metallic contact of the machine parts and absorb the transverse force that occurs. Guide elements made of PTFE compounds are characterised by outstanding friction behaviour which minimises the stick-slip effect. In addition they exhibit high thermal and chemical resistance. PTFE guide strips are suitable for medium surface pressure.

INSTALLATION

Guide strips are produced on rolls and cut to the required length.
There are three different cutting types: 30°, 90°, ST.
30° = for better press force distribution and to facilitate installation
90° = simple cut
ST = for swivel movements

The following formulae are used to calculate the required lengths
Guiding a rod:
$L = 3.11 \times (d + S) - 1.0$
Guiding a piston:
$L = 3.11 \times (D - S) - 1.0$

In these formulae, the heat expansion coefficient and the gap dimensions for the join are already included.
The ready cut guide strips can easily be installed in closed installation grooves.

REMARKS

Guide strips have the advantage of universal application. Due to the surface structure of the strips and the special consistence of the PTFE material, additional lubrication is created on by the guide strips. A chamfer on the edges prevents edge compression in the groove corners and facilitates installation..