



The cutting angle of FHP is 45°

The diameter **M** is only valid in the area of the guide ring and not in the extrusion area of the seal. The diameter MS in the seal area must be calculated with the e value of the seal used.

E (mm)	M (mm)
E ≤ 2	D - 1
2 < E < 4	D - 1,8
E ≥ 4	D - 3

FHP guide rings are made of synthetic fabric reinforced phenolic resin. They prevent metallic contact of the machine parts and absorb the transverse force that occurs.

Hard fabric material guide rings are primarily used in mobile and heavy hydraulics, as they are very well-suited for higher surface pressures.

An increased sliding ability which results in reduction of stick-slip effects is achieved by inclusion of PTFE in the compound.

Guide rings are easier to install than guide strips and are therefore recommended by Sealtech.

Operating conditions

Compressive strength DIN 534	454 320 N/mm ²
Max. permissible radial load	at 25°C: ≤ 100 N/mm ² 60°C: ≤ 50 N/mm ²
Temperature	-30°C to 120°C
Speed	< 1 m/s

Materials

Guide ring	synthetic fabric reinforced
	phenolic resin + PTFE
Colour	light brown

Assembly

Install in the groove

Advantages

Simple groove, easy fitting Very high load capacity Reduced friction (PTFE) No water absorption High wear capacity

Please contact us for applications approaching maximum values.

Calculation of the permissible radial force

- F = (p x D x L x n) / s
- = maximum radial force (N)
- = maximum permissible loading for material (N/mm²) р
- **D** x L = diameter x width of the ring (mm²)
- = number of rings n
- = safety factor s

F

