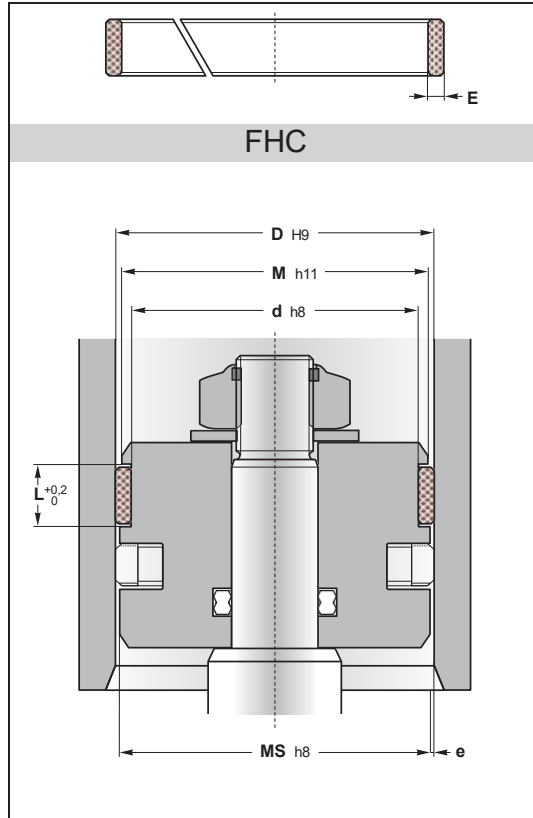




FHC

Phenolic resin/cotton fabric guide ring for pistons



FHC guide rings are made of cotton 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**.

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

Operating conditions

Compressive strength DIN 53454	290 N/mm ²
Max. permissible radial load	at 25°C: ≤ 90 N/mm ² 60°C: ≤ 45 N/mm ²
Temperature	-30°C to 120°C
Speed	< 1 m/s

Materials

Guide ring	cotton fabric reinforced phenolic resin
Colour	light brown

Assembly

Install in the groove

Advantages

- Simple groove design and assembly
- High load capacity
- Wide range of sizes
- High wear capacity

Please contact us for applications approaching maximum values.

The cutting angle of FHC is 30°

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.

Calculation of the permissible radial force

$$F = (p \times D \times L \times n) / s$$

F	= maximum radial force (N)
p	= maximum permissible loading for material (N/mm ²)
D x L	= diameter x width of the ring (mm ²)
n	= number of rings
s	= safety factor

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