

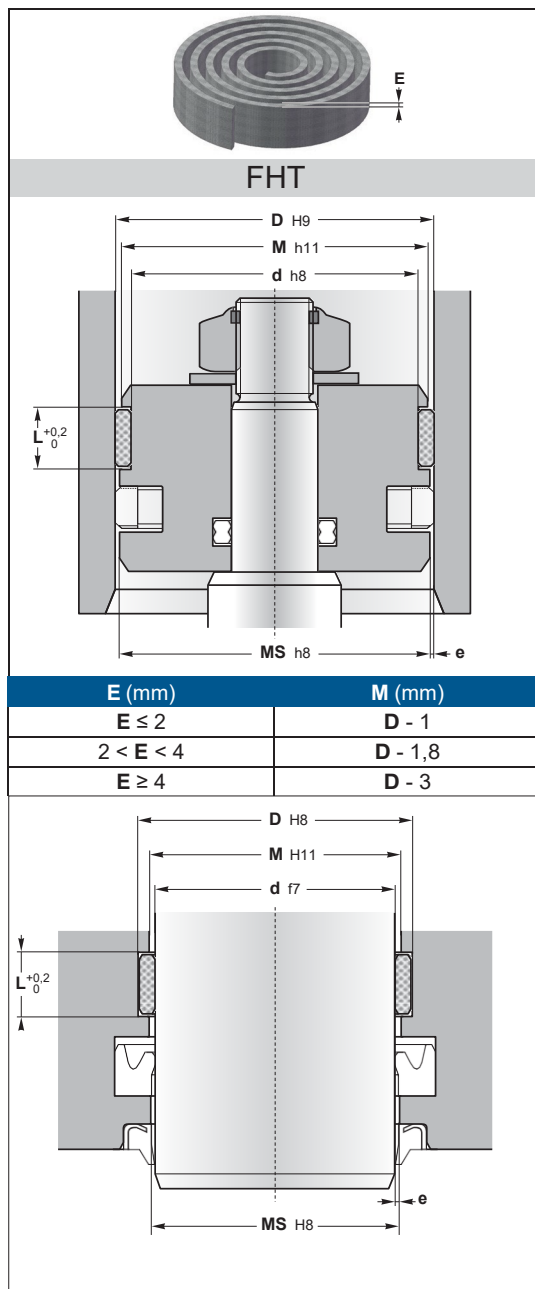


FHT

Phenolic resin/aramid fabric graphite impregnated guide strip



Length of the rolls : 2 meters



FHT guide strip is made of aramid fabric reinforced graphite impregnated phenolic resin. It prevent metallic contact of the machine parts and absorb the transverse force that occurs.

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

An increased sliding ability which results in an improvement of the stick-slip effect is achieved by **inclusion of graphite** in the compound.

The **FHT** guide strip is used for applications at **high temperatures** (up to 200°C).

Operating conditions

Max. permissible radial load at 25°C: ≤ 120 N/mm²
 60°C: ≤ 60 N/mm²

Temperature -40°C to 200°C

Speed ≤ 1 m/s

Materials

Guide ring aramid fabric reinforced
 high temperature phenolic resin
 + graphite

Colour grey

Assembly

Install in the groove

Advantages

- Simple groove design
- Only suitable for diameters above 150 mm
- Very high load capacity
- Reduced friction (graphite)
- For high temperature applications
- No water absorption
- High wear capacity

Please contact us for applications approaching maximum values.

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

E (mm)	M (mm)
E ≤ 2	d + 1
2 < E < 4	d + 1,8
E ≥ 4	d + 3

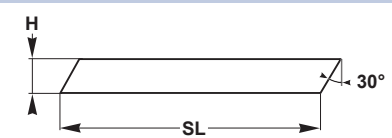
E	L	Reference
2,5	5,6	FHT-25056
	9,7	FHT-25097
	15	FHT-25150
	20	FHT-25200
	25	FHT-25250

Calculation of the permissible radial force for pistons

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

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

Calculation of the stretched length



Piston : **SL = (D-E).3,11** Rod : **SL = (d+E).3,11**