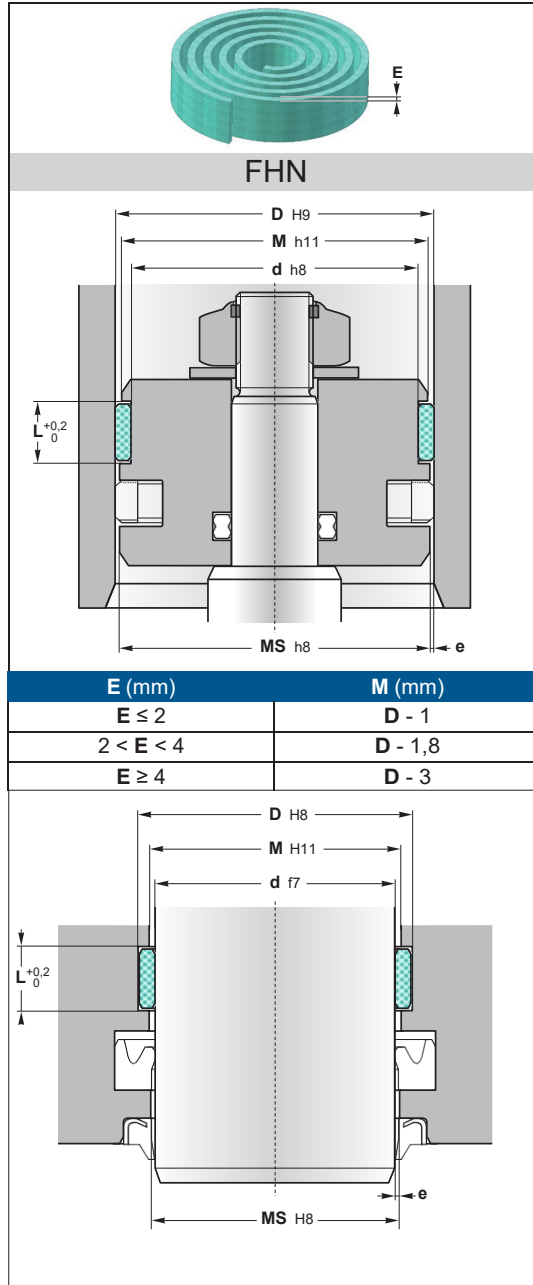




FHN

Fabric reinforced polyester resin PTFE impregnated guide strip



Fabric reinforced composite FHN guides are widely used as piston or rod guides for heavy duty hydraulic applications due to their high compressive strength, good sliding behaviour and the excellent wear resistance. They are supplied by the meter or cut to specific length.

Operating conditions

Max. permissible radial load at 25°C: ≤ 100 N/mm²
60°C: ≤ 50 N/mm²
Temperature -30°C to 120°C
Speed ≤ 1 m/s

Materials

Guide ring polyester fabric reinforced polyester resin + PTFE
Colour light blue

Assembly

Install in the groove

Advantages

Simple groove design
Only suitable for diameters above 150 mm
Reduced friction
Vibration absorbing
Excellent wear resistance
High load 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.

Length of the rolls : 10 meters

E	L	Reference	E	L	Reference	
2	5,6	FHN-20056	2,5	30	FHN-25300	
	6,3	FHN-20063		40	FHN-25400	
	9,7	FHN-20097		50	FHN-25500	
12	12,8	FHN-20120	3	12	FHN-30120	
	12,8	FHN-20128		12,8	FHN-30128	
	15	FHN-20150		15	FHN-30150	
19,2	19,2	FHN-20192	20	20	FHN-30200	
	20	FHN-20200		25	FHN-30250	
	25	FHN-20250		30	FHN-30300	
	30	FHN-20300		35	FHN-30350	
	35	FHN-20350		40	FHN-30400	
2,5	40	FHN-20400	3,5	20	FHN-35200	
	5,6	FHN-25056		4	9,7	FHN-40097
	6,3	FHN-25063			15	FHN-40150
8,1	FHN-25081	20	FHN-40200			
9,7	9,7	FHN-25097	25	25	FHN-40250	
	12	FHN-25120		30	FHN-40300	
	12,8	FHN-25128		40	FHN-40400	
15	15	FHN-25150	50	50	FHN-40500	
	20	FHN-25200				
	25	FHN-25250				

Inch dimensions

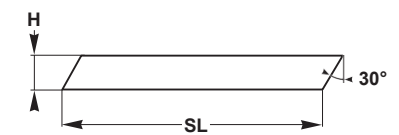
E	L	Reference
1/8" (3,18 mm)	3/8" (9,53 mm)	FHN-31095
	1/2" (12,7 mm)	FHN-31127
	5/8" (15,88 mm)	FHN-31159
3/4" (19,05 mm)	1" (25,4 mm)	FHN-31191
		FHN-31254

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: $SL = (D-E) \cdot 3,11$ Rod: $SL = (d+E) \cdot 3,11$