

HYSON™ Guardian™ HDF



Cost Effective



Easy Integration



Increased Longevity



Reliable Protection



Key Features

- Protection from contaminants.
- Easy installation.
- Multiple size options.
- Temperature resistance.
- Only adds 10 mm of length to the spring.

Temperature Performance

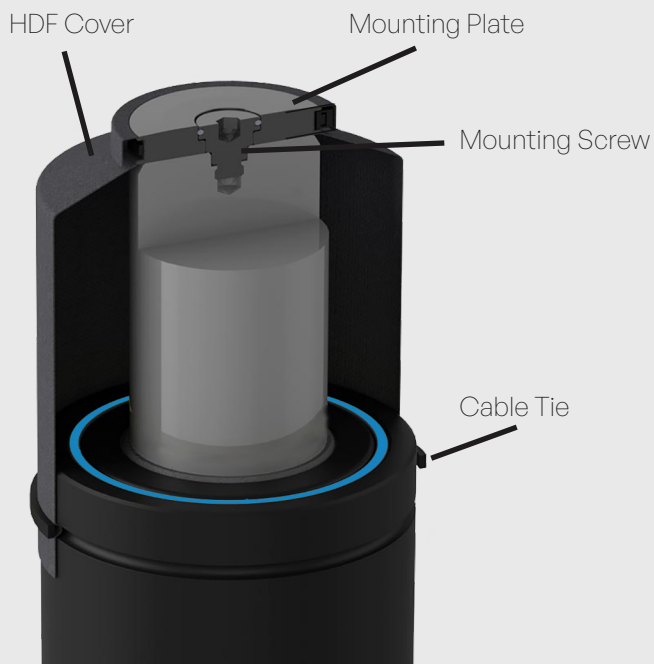
Operating Temperature

0 – 80°C (32 – 176°F)

Temperature Resistance

-35 – 150°C (-31 – 150°F)

SPM according to the Gas Spring



About Guardian HDF

The Guardian™ High Density Fabric Cover (HDF), is a specialized protective cover designed to enhance the durability and reliability of Gas Springs in harsh environments. This is achieved by covering the Gas Spring rod and part of the body.

The HDF can be installed on an application in which the Gas Spring has a service thread in the piston rod top and where the stroke of the Gas Spring can utilize an additional 10 mm (0.39 in). The cover itself is attached to the striker plate and sized based on cylinder diameter, then cut to length, and secured at the C-Groove during installation.

**For more information visit the [HysonSolutions.com](https://www.HysonSolutions.com)
Order at Orders@HysonSolutions.com**

Stroke Length	Cylinder Diameter	Order No.	T3	T3T	T3F	T4	NP	CS2 CS2-A	TNKT TNKS
10-250 mm (0.39-9.84 in)	45 mm (1.77 in)	HDF-45-250X	T3 750	T3T 750	T3F 750	T4 750			
10-250 mm (0.39-9.84 in)	50 mm (1.97 in)	HDF-50-250C					NP 750		
10-250 mm (0.39-9.84 in)	50 mm (1.97 in)	HDF-50-250X	T3 1000	T3T 1000	T3F 1000	T4 1000			
10-250 mm (0.39-9.84 in)	63 mm (2.48 in)	HDF-63-250X	T3 1500	T3T 1500	T3F 1500	T4 1500			
10-250 mm (0.39-9.84 in)	75 mm (2.95 in)	HDF-75-250C					NP 1500		
10-250 mm (0.39-9.84 in)	75 mm (2.95 in)	HDF-75-250S				T4 2400			
10-250 mm (0.39-9.84 in)	75 mm (2.95 in)	HDF-75-250X	T3 2400	T3T 2400	T3F 2400				
10-250 mm (0.39-9.84 in)	95 mm (3.74 in)	HDF-95-250C					NP 3000	CS2 1500 CS2-A 1500	
10-250 mm (0.39-9.84 in)	95 mm (3.74 in)	HDF-95-250S	T3 4200	T3T 4200		T4 4200			TNKT 4200 TNKS 4200
10-250 mm (0.39-9.84 in)	120 mm (4.72 in)	HDF-120-250C					NP 5000	CS2 3000 CS2-A 3000	
10-250 mm (0.39-9.84 in)	120 mm (4.72 in)	HDF-120-250S	T3 6600	T3T 6600		T4 6600			TNKT 6600 TNKS 6600
10-250 mm (0.39-9.84 in)	150 mm (5.91 in)	HDF-150-250L					NP 7500		
10-250 mm (0.39-9.84 in)	150 mm (5.91 in)	HDF-150-250S	T3 9500			T4 9500			
10-250 mm (0.39-9.84 in)	150 mm (5.91 in)	HDF-150-250C						CS2 5000 CS2-A 5000	
10-250 mm (0.39-9.84 in)	195 mm (7.68 in)	HDF-195-250L					NP 10000	CS2 7500 CS2-A 7500	
10-250 mm (0.39-9.84 in)	195 mm (7.68 in)	HDF-195-250S	T3 20000			T4 20000			

Flange Adapter

If the Gas Spring is Flange assembled, an additional item – called a Flange Adapter (Hdff) – must be used. The Flange Adapter must be assembled at the top of the Flange with the Flange assembly screws. Make sure to use the right Flange Adapter model for the cylinder size, according to the table to the right. **Note: The Flange Adapter can only be combined with the Flanges in the table below.**

Spare Part	Order No.
M6 Screw	1034847
M8 Short Screw	1034848
M8 Long Screw	1034849
M16 Screw	1034850
Metal Cable Ties (10 Pieces)	1032103
Cable Tie Tightening Tool	1031124

Cylinder Size	Mounting Flange	Adapter No.
ø 45 mm (1.77 in)	FCS 500	Hdff-45
ø 50 mm (1.97 in)	FCS 750	Hdff-50
ø 63 mm (2.48 in)	FCSX 1500	Hdff-63
ø 75 mm (2.95 in)	FCS 1500	Hdff-75
ø 95 mm (3.74 in)	FCS 3000	Hdff-95
ø 120 mm (4.72 in)	FCS 5000	Hdff-120
ø 150 mm (5.91 in)	FCS 7500	Hdff-150
ø 195 mm (7.68 in)	FCS 10000	Hdff-195