

Subject: Guardian™ HDF High Density Fabric Covers	Date: 7/17/2018	Issue: 18-04A HDF
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HYSON Metal Forming Solutions announces the launch of **Guardian™ HDF**, a **High Density Fabric** cover that extends the life of gas springs by guarding against ingestion of dust, fluid and other contaminants **is now available for the TANKER product line**. *Guardian HDF* is a fabric accessory ideal for harsh environments including hot stamping.



Features:

- Engineered to fit standard HYSON gas springs and mounting options:
 - TNK 4400, TNK 6600
- Designed for gas springs in tube sizes:
 - Ø95 mm
 - Ø120 mm
 - Ø150 mm
- Available in an assortment of lengths to cover gas springs with stroke length between 10 mm and 250mm.

Temperature Parameters:

	Min °F	Max °F	Min °C	Max °C
HDF Temperature Resistance	-31	392	-35	200

Note: Operating temperature of gas springs is different than temperature resistance of HDF. Refer to HYSON catalogs for operating temperature of spring.

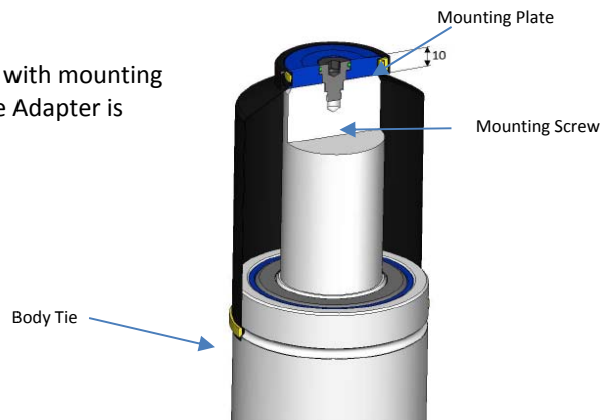
Availability:

Guardian HDF is now available for order. Contact HYSON Inside Sales Team @ Orders@HysonSolutions.com

Mounting:

Guardian HDF assembles directly to piston rod and cylinder body with mounting screw for top rod threads and a tie for cylinder c-groove. A Flange Adapter is available for order for upper flange mounted applications.

Note: *Guardian HDF* increases spring height by 10mm





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Order Number selected based on tube size, stroke length and gas spring model. Minimum Order quantity is 1 piece.

<u>Tube Size</u>	<u>Stroke Length</u>	<u>Gas Spring Model</u>	<u>Order Number</u>
Ø95	10-25	NP-3000 CS2-1500	HDF-95-025C
	26-50		HDF-95-050C
	51-75		HDF-95-075C
	76-100		HDF-95-100C
	101-125		HDF-95-125C
	126-150		HDF-95-150C
	151-175		HDF-95-175C
	176-200		HDF-95-200C
	201-225		HDF-95-225C
	226-250		HDF-95-250C
Ø95	10-25	T4-4200 T3-4200 T3T-4200 TNKT-4200 TNKS-4200	HDF-95-025S
	26-50		HDF-95-050S
	51-75		HDF-95-075S
	76-100		HDF-95-100S
	101-125		HDF-95-125S
	126-150		HDF-95-150S
	151-175		HDF-95-175S
	176-200		HDF-95-200S
	201-225		HDF-95-225S
	226-250		HDF-95-250S

<u>Tube Size</u>	<u>Stroke Length</u>	<u>Gas Spring Model</u>	<u>Order Number</u>
Ø120	10-25	NP-5000 CS2-3000	HDF-120-025C
	26-50		HDF-120-050C
	51-75		HDF-120-075C
	76-100		HDF-120-100C
	101-125		HDF-120-125C
	126-150		HDF-120-150C
	151-175		HDF-120-175C
	176-200		HDF-120-200C
	201-225		HDF-120-225C
	226-250		HDF-120-250C
Ø120	10-25	T4-6600 T3-6600 T3T-6600 TNKT-6600 TNKS-6600	HDF-120-025S
	26-50		HDF-120-050S
	51-75		HDF-120-075S
	76-100		HDF-120-100S
	101-125		HDF-120-125S
	126-150		HDF-120-150S
	151-175		HDF-120-175S
	176-200		HDF-120-200S
	201-225		HDF-120-225S

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<u>Tube Size</u>	<u>Stroke Length</u>	<u>Gas Spring Model</u>	<u>Order Number</u>
Ø150	226-250	NP-7500	HDF-120-250S
	10-25		HDF-150-025C
	26-50		HDF-150-050C
	51-75		HDF-150-075C
	76-100		HDF-150-100C
	101-125		HDF-150-125C
	126-150		HDF-150-150C
	151-175		HDF-150-175C
	176-200		HDF-150-200C
	201-225		HDF-150-225C
	226-250		HDF-150-250C
Ø150	10-25	T4-9500 T3-9500	HDF-150-025S
	26-50		HDF-150-050S
	51-75		HDF-150-075S
	76-100		HDF-150-100S
	101-125		HDF-150-125S
	126-150		HDF-150-150S
	151-175		HDF-150-175S
	176-200		HDF-150-200S
	201-225		HDF-150-225S
	226-250		HDF-150-250S
	Ø150		10-25
26-50		HDF-150-050L	
51-75		HDF-150-075L	
76-100		HDF-150-100L	
101-125		HDF-150-125L	
126-150		HDF-150-150L	
151-175		HDF-150-175L	
176-200		HDF-150-200L	
201-225		HDF-150-225L	
226-250		HDF-150-250L	

Flange Adapter:

In instances where spring is mounted via upper flange, the HDF Flange Adapter can be ordered separately.

<u>Tube Size</u>	<u>Flange Adapter</u>
Ø95	HDF95
Ø120	HDF120
Ø150	HDF150

