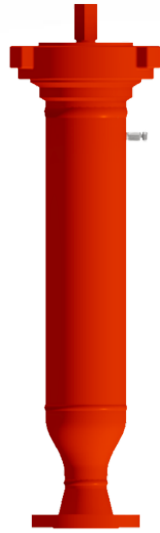
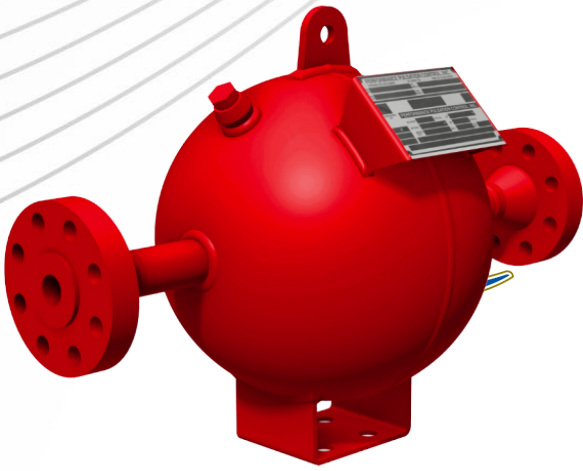


# PULSATION STABILIZERS



CARDON SALES COMPANY, LLC IS A PROUD AUTHORIZED DISTRIBUTOR FOR PERFORMANCE PULSATION CONTROL. THIS STATUS FLOW PRODUCT LINE THAT INCLUDES BOTH GAS CHARGED & MAINTENANCE FREE CARTRIDGE STYLE PULSATION CONTROL PRODUCTS. THE HIGHEST LEVEL OF EXCELLENCE IS ACHIEVED USING STRICT QUALITY CONTROL MEASURES. EACH & EVERY CARTRIDGE THAT IS HAND MANUFACTURED IS COMPLETELY INSPECTED & TESTED BEFORE IT LEAVES THE FACILITY.



**SF SERIES**



**VT SERIES**



**SC SERIES**

## CARTRIDGE STYLE

- COST EFFECTIVE
- IDEAL FOR MOST SUCTION CONDITIONS
- TOP SERVICEABLE
- INTERNALLY COATED FOR SEVERE DUTY
- WIDE RANGE OF CARTRIDGE ELASTOMERS

## MAINTENANCE FREE

- HIGHEST LEVEL OF PULSATION CONTROL
- IDEAL FOR HIGH TEMP
- WORKS WELL WITH REMOTE STATIONS
- VIRTUAL ELIMINATION OF ACCELERATION HEAD LOSS
- FLEXIBLE NOZZLE ORIENTATION
- NO ELASTOMERS FOR BROAD RANGE OF FLUID COMPATIBILITY

## MAINTENANCE FREE

- HIGH PERFORMANCE LEVEL IN COMPACT PACKAGE
- CLOSED CELL, NITROGEN INFUSED CELLULAR TECHNOLOGY
- AXIAL-FLOW SPLIT SHELL DESIGNS AVAILABLE
- SIMPLE & EASY TO INSTALL
- RELIABLE & CONSISTANT OVER SERVICE LIFE



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# DESIGN FEATURES

## STABILIZER CASE DESIGN




- Top Ring manufactured for maximum thread engagement
- Tubular Specification  
ASTM A-106-B
- Externally primed and coated with power based polyester coating
- 316 Stainless Steel Bleeder Valve uses needle and seat configuration for positive seal and long life
- Internally coated with Corvel ECA 1660 to a min. of 10 mills guaranteed holiday-free
- Concentric Reducer specification SA-234 WPB
- ANSI Flanges SA-105



## CARTRIDGE DESIGN

- 2 3/4" Hex Nut for safe and easy cartridge service
- 316 Stainless Steel Band
- Hand-Crafted, Multi-Ply Fiber-Belted Rubber: Nitrile, EPDM, HNBR (HSN), or XRE - with optional TFE encapsulation
- Inverted bottom plug for maximum gas volume
- Solid steel threads rated for 3 times working pressure
- 2,4 or 6 ply layers that are polyester reinforced and vulcanized to ensure superior strength
- Maximized inner diameter promotes increased gas volume
- End plug is seal coated for internal cord protection



\*Optional certification available:   



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# NOMENCLATURE

## MODEL CODE

EXAMPLE: SFT-14403-F-300

Head  
Pressure  
Rating  
Flange  
Mounting  
Volume



## CARTRIDGE

EXAMPLE: SFT-246-N

Head  
Length  
Ply  
Material



## CARTRIDGE CONNECTION

### TYPES:

(SFT) Threaded  
(SFAT) Acme threaded  
(SFU) Union  
(SFV) Grooved 4" & 6"  
(SFVM) Magnum Grooved 8"  
(SFM) Magnum Wingnut  
(SFG) Grooved 16"

## CARTRIDGE CONNECTION TYPES:

(SFT) Threaded  
(SFAT) Acme threaded  
(SFU) Union  
(SFV) Grooved 4" & 6"  
(SFVM) Magnum Grooved 8"  
(SFM) Magnum Threaded  
(SFG) Grooved 16"

## RATED OPERATING PRESSURE: *Depends on series*

50  
450  
700  
1440  
2100  
3000  
3600  
5000

## CARTRIDGE LENGTH: *Depends on series*

9"  
18"  
24"  
36"  
48"

## OPENING SIZE: *Depends on series*

1"-1.5"-2"-2.5"-3"-4"-6"-8"-10"-12"-14"

## NUMBER OF PLYS: *Depends on series*

2-Ply  
4-Ply  
6-Ply

## MOUNTING TYPE:

(F) Flanged RF  
(T) NPT Threaded  
(FFS) Flanged Flow Through - Top (STD)  
(FFT) Flanged Flow Through - Bottom  
(FJ) Flanged RTJ

## TYPE OF MATERIAL:

(N) Nitrile  
(NT) Nitrile/TFE Encapsulated  
(NN) Nitrile/Nickel Plated  
(NTN) Nitrile/TFE Encapsulated/Nickel Plated  
(E) EPDM  
(ET) EPDM/TFE Encapsulated  
(EN) EPDM/Nickel Plated  
(ETN) EPDM/TFE Encapsulated/Nickel Plated (X) XRE  
(XT) XRE/TFE Encapsulated  
(XN) XRE/Nickel Plated  
(XTN) XRE/Nickel Plated/TFE Encapsulated (H) HNBR  
(HSN)  
(HT) HNBR/TFE Encapsulated  
(HN) HNBR/Nickel Plated  
(HTN) HNBR/TFE Encapsulated/Nickel Plated

## CUBIC INCH GAS VOLUME:

150  
100  
300  
600  
900  
1200  
2400  
4800

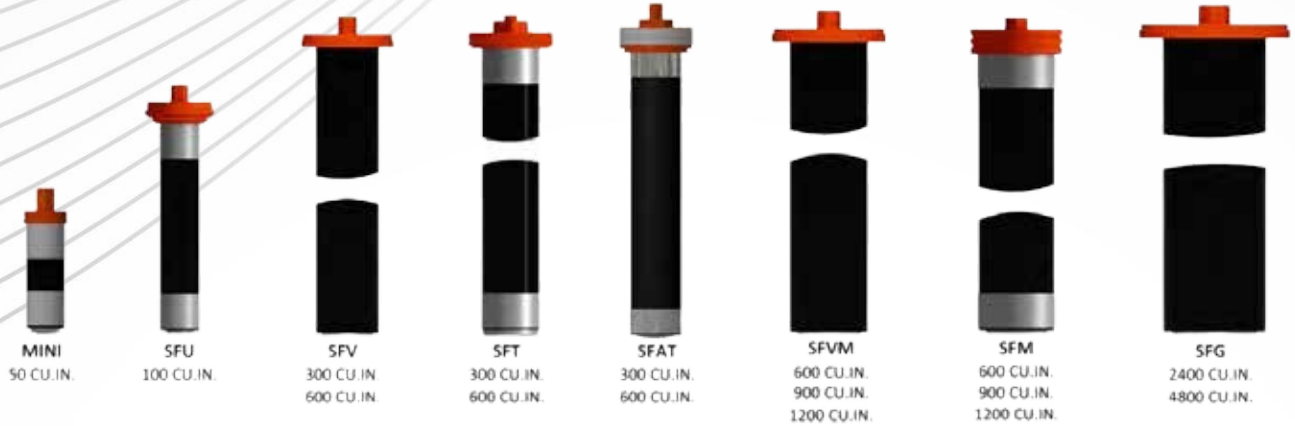
\*Nitrile is the standard elastomer on all cartridges unless otherwise specified.

\*For additional requirement, multiple non-displayed options are available.



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# REPLACEMENT CARTRIDGES



CARTRIDGE MODEL	PLY	GAS VOLUME	LENGTH	WIDTH	WEIGHT	MAX CHARGE
SFU-182	2	100 CU.IN.	18"	3"	20 LBS	100 PSI
SFU-186	6	100 CU.IN.	18"	3"	20 LBS	500 PSI
SFV-92	2	50 CU.IN.	9"	3"	17 LBS	100 PSI
SFV-96	6	50 CU.IN.	9"	3"	18 LBS	300 PSI
SFV-242	2	300 CU.IN.	24"	4"	25 LBS	100 PSI
SFV-244	4	300 CU.IN.	24"	4"	30 LBS	300 PSI
SFV-482	2	600 CU.IN.	48"	4"	25 LBS	100 PSI
SFV-484	4	600 CU.IN.	48"	4"	30 LBS	300 PSI
SFT-242	2	300 CU.IN.	24"	4"	25 LBS	100 PSI
SFT-244	4	300 CU.IN.	24"	4"	30 LBS	300 PSI
SFT-246	6	300 CU.IN.	24"	4"	35 LBS	500 PSI
SFAT-246	6	300 CU.IN.	24"	4"	45 LBS	500 PSI
SFT-246-5	6	300 CU.IN.	24"	4"	45 LBS	500 PSI
SFT-482	2	600 CU.IN.	48"	4"	25 LBS	100 PSI
SFT-484	4	600 CU.IN.	48"	4"	30 LBS	300 PSI
SFT-486	6	600 CU.IN.	48"	4"	50 LBS	500 PSI
SFAT-486	6	600 CU.IN.	48"	4"	60 LBS	500 PSI
SFT-486-5	6	600 CU.IN.	48"	4"	60 LBS	500 PSI
SFVM-244	4	600 CU.IN.	24"	6"	55 LBS	125 PSI
SFVM-364	4	900 CU.IN.	36"	6"	60 LBS	125 PSI
SFVM-484	4	1200 CU.IN.	48"	6"	60 LBS	125 PSI
SFM-244	4	600 CU.IN.	24"	6"	55 LBS	125 PSI
SFM-246	6	600 CU.IN.	24"	6"	55 LBS	300 PSI
SFM-364	4	900 CU.IN.	36"	6"	60 LBS	125 PSI
SFM-366	6	900 CU.IN.	36"	6"	65 LBS	300 PSI
SFM-484	4	1200 CU.IN.	48"	6"	60 LBS	125 PSI
SFM-486	6	1200 CU.IN.	48"	6"	70 LBS	300 PSI
SFG-246	6	2400 CU.IN.	24"	11.5"	170 OBS	75 PSI
SFG-486	6	4800 CU.IN.	48"	11.5"	210 LBS	75 PSI



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# ELASTOMER CONSIDERATIONS

ELASTOMER	RECOMMENDED FOR	RESISTANCE FACTORS
<p><b>NITRILE</b> (Generic Name) is the copolymer of butadiene and acrylo-nitrile. Trade names include buna, hycar, chemigum, paracril, krynac, and nysyn.</p>	<p>Nitrile rubber compound is recommended for most applications involving petroleum products, vegetable oils, mineral oils, and water within the following temperature range (-20°F/+180°F).</p>	<p>Nitrile rubbers are highly resistant to non-polar oils and solvents but are swelled or dissolved by highly polar solvents. Vulcanizates are resistant to petroleum oils and fuels and are essentially unaffected by alkaline solutions, aliphatic hydrocarbons, dilute acids, fatty acids and vegetable fats. Nitrile rubbers are resistant to crude oil, gasoline, fuels and petroleum-based oils but are affected by acetones, amines, toluene, benzene and related compounds. They are swelled and attacked strongly by ketones, aromatics and concentrated oxidizing acids. Nitrile rubbers are molded at temperatures of 300°F and are generally considered serviceable in applications up to 180°F. However, in continuous services above 150°F the useable life of the cartridge will be shortened.</p>
<p><b>EPDM</b> (Generic Name) is a terpolymer of ethylene, propylene and diene. Trade names include Epsyn nordel, vistalon, epcar and royalene.</p>	<p>EPDM rubber compound is recommended for hot water applications and also for amine applications with concentrations below 25% and within the specified temperature range. It is also recommended for glycol and TEG (Tri-ethylene glycol) services within the specified temperature range. EPDM rubbers have outstanding resistance to oxygen, ozone and heat vulcanizates and are essentially unaffected by water, alkalines, some acids and diesters.</p>	<p>EPDM rubbers have fair to good resistance to acetone, carbonic acid, citric acid, detergents, ethylene glycol and 20% hydrochloric acid, but are affected by butane, propane, benzene, concentrated hydrochloric and sulfuric acid. They have poor resistance to aliphatic hydrocarbons. They are swelled and attacked by aromatic hydrocarbons, some alcohols, and vegetable and animal oils. EPDM rubbers are normally molded at temperatures up to 300°F and are generally considered serviceable up to 230°F. The general range is considered to be -20°F/+230°F. However, with higher concentrations and temperatures above 180°F the useable life of the cartridge will be shortened.</p>
<p><b>XRE</b> is proprietary formula.</p>	<p>XRE rubber compound was developed specifically to meet the increased concentrations and temperatures of amines; more specifically selexol. However, it also has good resistance in high temperature services of glycol, TEG (Tri-ethylene glycol), chloride, caustic, sodium hydroxide, sodium silicate, sulfur dioxide, and steam. XRE rubber is normally molded at temperatures up to 350°F and is generally considered serviceable in temperatures of -20°/+300°F.</p>	<p>With higher concentrations and temperatures above 280°F, the useable life of the cartridge will be shortened.</p>
<p><b>HNBR</b> is a copolymer. Trade names include HSN.</p>	<p>HNBR rubber compound is recommended for non-polar hydrocarbons, crude oil, grease, water, steam, petroleum, some fuels, some oils, salt solutions, water anhydrous ammonia, ethanol, and alcohol. HNBR is attacked or has poor resistance to ozone, ketones, esters and chlorinated solvents. HNBR rubber is normally molded at temperature of 350°F and is generally considered serviceable in temperatures of -20°/+300°F.</p>	<p>With higher concentrations and temperatures above 280°F, the useable life of the cartridge will be shortened.</p>



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# ELASTOMER CONSIDERATIONS

ELASTOMER	COMPATIBILITY
<b>Nitrile</b> (Buna N)	Crude Oil, Gasoline, LPG, Water, Kerosene, ASTM Oil GR. 1-2-3, Salt Water, Aliphatic Hydrocarbons & Drill Mud
<b>EPDM</b> (Nordel)	Amines, TEG, Glycol, Sulfur Dioxide, Slurries with high chlorine concentrates, Boric Acid, Sodium Hydroxide
<b>XRE</b> (Proprietary Formula)	Amines, TEG, Glycol, Chloride, Caustic, Sodium Hydroxide, Sodium Silicate, Sulfur-Dioxide, Water, Steam
<b>HNBR</b> (HSN)	Non-Polar Hydrocarbons, Crude Oil, Grease, Water, Steam, Petroleum, Some Fuels, Some Oils, Salt Solutions, Water Anhydrous Ammonia, Ethanol, Alcohol
<b>Teflon Encapsulation</b> (TFE Sleeve)	Anhydrous Ammonia, High H2S Concentrates
<b>Electroless Nickel Plating</b>	Corrosive Service, Sea Water

**Note:** Nitrile is the standard elastomer on all cartridges unless otherwise specified. For additional compatibility of elastomers, please contact the factory.



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