



Status Flow[®]

Stabilizer Catalog

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Cartridge Style Stabilizers

- Cost effective
- Ideal for most suction conditions
- Top servicable
- Internally coated for severe duty
- Wide range of elastomers

Performance Pulsation Control

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What Is Pulsation?

Pulsation or cavitation is the sudden change in pressure within a closed system when fluid is either accelerated or decelerated. Since fluid is not easily compressible any force applied to it must be accounted for. This energy left unchecked will produce variations in the fluid movement, which can become extreme and in turn cause severe damage, not only to the pump but also the complete piping system.

What Causes Pulsation With a Pumping System?

The number one reason that pulsation occurs within a pump is the lack of proper feed. It is essential that as the plunger is retracted and the pump is filled with fluid that the fluid always maintains contact with the face of the plunger. If not, when the plunger moves forward it will impact with the fluid, causing unwanted vibration or pulsation. A suction stabilizer aids in keeping the fluid in constant contact with the plunger.

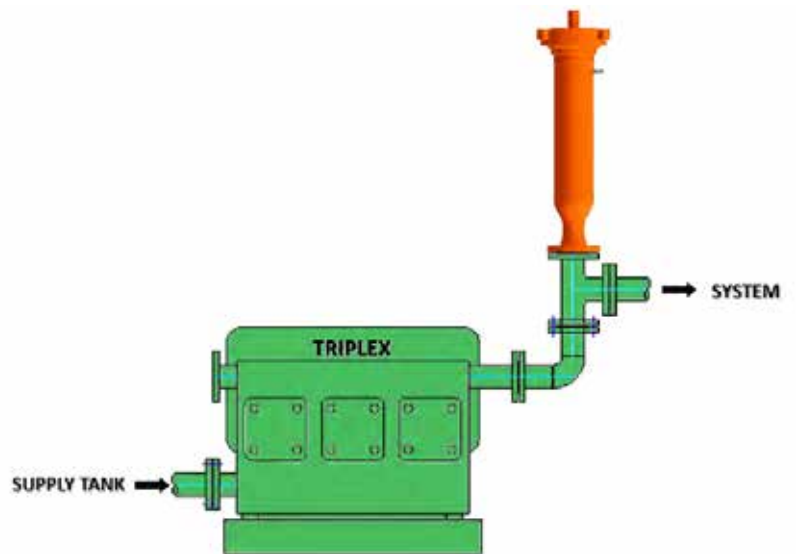
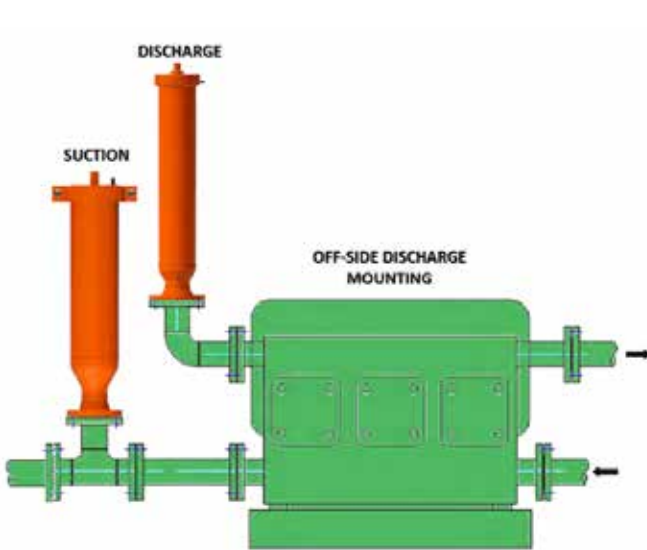
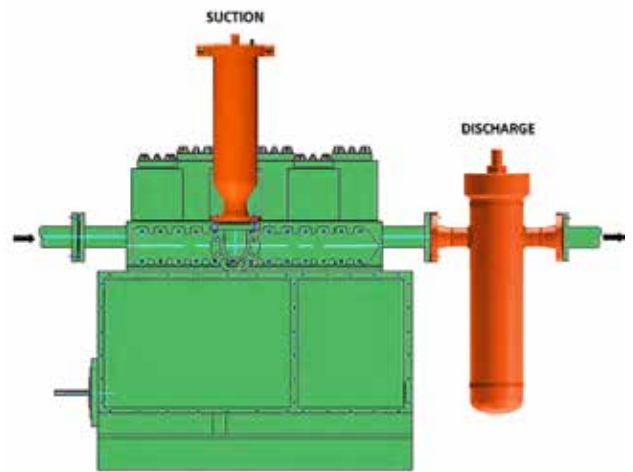
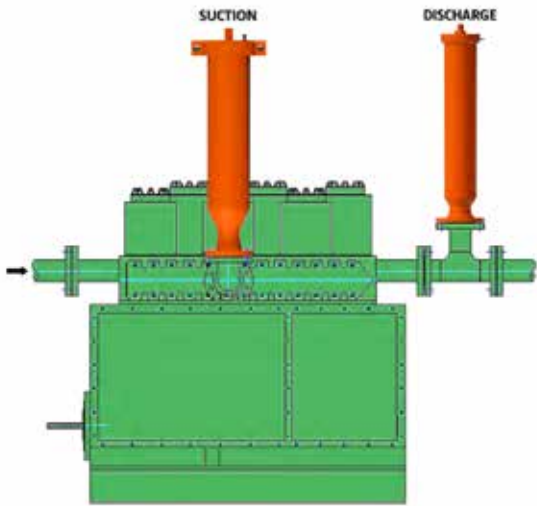
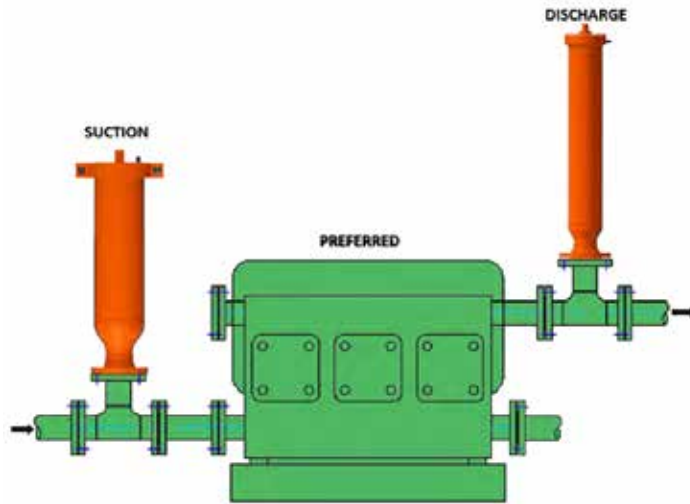
What Are Other Causes of Pulsation?

- Leaking Valves
- Improper Spring Rates
- Piping Designs That Are Restrictive to Flow
- Worn Packing
- Multiple Pumps On A Common Header

How Does Pulsation Equipment Help?

When a suction and discharge stabilizer are placed in a pumping system, the nitrogen filled cartridges act much like a shock absorber. Because the nitrogen gas is compressible the system is presented with a cushion to absorb the rapid acceleration and deceleration of the fluid as the pump completes each stroke.

Note: A suction stabilizer protects the pump and a discharge stabilizer protects the piping system. PPC highly recommends that a suction and discharge stabilizer be placed on every reciprocating pump system.



In general, the majority of pump pulsation problems can be traced to and remedied on the suction side of a pump, even though some symptoms may show up on the discharge side. In feeding the pump, it is imperative to maintain a steady flow of fluid through the suction valves. Also, the fluid column must attach thoroughly to the face of the plunger to achieve complete cylinder fill on the suction stroke. Therefore, it is recommended that pulsation stabilizers be attached to the suction side first, then the discharge side of the pump.

To size stabilizers, you will need:

1 Maximum Operating Pressures (Suction & Discharge)

Example: SFT-14403-F-300

Series #	1500	4500/7000	14400	21000	36000	50000
ANSI Rating	ANSI 150	ANSI 300	ANSI 600	ANSI 900	ANSI 1500	ANSI 2500
Working PSI	150 PSI	450/700 PSI	1440 PSI	1200 PSI	3600 PSI	5000 PSI

2 Pump Connection Sizes and Types

Example: SFT-14403-F-300

Note: The stabilizer opening should be the same size as the pump opening or larger. Flanged and threaded sizes are available from 1" to 14" depending on the series.

3 Pump Capacity

Example: SFT-14403-F-300

Determine stabilizer volume needed (cubic inches) using stroke length and plunger diameter, using chart below. This is a general sizing chart - all factors of pumping station must be considered. In special instances please call factory for proper sizing.

SUCTION

Pump Stroke Length	Cubic Inch Stabilizer	Connection Sizes
2-1/2" or shorter	100 cu. in.	1" to 3"
2-3/4" to 4"	300 cu. in.	2" to 8"
4-1/2" to 6"	600 cu. in.	2" to 8"
6" to 8"	900 cu. in.	3" to 8"
9" to 12"	1200 cu. in.	3" to 8"
10" to 14"	2400 cu. in.	4" to 14"
12" to 15"	4800 cu. in.	4" to 14"

DISCHARGE

Pump Stroke Length	Cubic Inch Stabilizer	Connection Sizes
2-1/2" or shorter	100 cu. in.	1" to 3"
3" TO 4"	300 cu. in.	2" to 8"
5" to 12"	600 cu. in.	2" to 8"
10" to 12"	1200 cu. in.	3" to 8"
Note: Below 2100 PSI	1200 cu. in.	3" to 8"

4 Fluid Type & Temperature

Fluid that is pumped must be compatible with the internal cartridge. Nitrile is standard unless otherwise specified. See page # for additional information on elastomer compatibility.

This approach for sizing suction stabilizer and discharge dampeners is a publicly available method that has been well proven over many years. The equation and pump factors are found in John Miller's book, The Reciprocating Pump, Theory and Design, which PPC utilizes in standard quotations and performance analysis.

Gas charged units are sized using the following equation:

$$\text{Size} = \frac{c \cdot D^2 \cdot S \cdot (P_s \text{ or } P_d)}{\% \cdot (P_{cs} \text{ or } P_{cd})}$$

"Size"	Equals gas volume retain in vessel
"C"	0.100 for Triplex SA 0.030 for Quintuplex SA 0.684 for Simplex SA 0.558 for Simplex DA or Duplex SA 0.196 for Duplex DA
"D"	Equals diameter of plunger or piston
"S"	Equals stroke length of pump in inches
"Ps" (Suction Operating Pressure) "Pd" (Discharge Operating Pressure)	Equals pump operating pressure in system
"Pc"	Equals pre-charge pressure Pcs = Pre-charge pressure - suction Pd = Discharge operating pressure
"%"	Equals Residual pulsation as a percent of "P" expressed as a whole number. <i>Ex. 4% goes into the equation as 4</i> Note: % can be different for suction and discharge

Sizing Example:

C = 0.011 for triplex single acting pump

D = 2.25

S = 3

Ps = 2.7 psig

Pd = 1360

Pcs = 1.5 psig

PPC recommended pre-charge pressure for suction stabilizer is approx. 50-60% of suction operating pressure (Ps), not to exceed maximum pre-charge pressure of the cartridge.

Pcd = 500 psig

PPC recommended pre-charge pressure for discharge dampener is approx. 50-60% of discharge operating pressure (Ps), not to exceed maximum pre-charge pressure of the cartridge.

Suction Stabilizer Sizing

Size = $[0.100 \times 2.25^2 \times 2.7] / [4 \times 1.5] = 0.69$ gallons

The size in the equation above equate to gas volume in gallons.

Size conversion - 0.69 gallons x 231 cubic inch/gallon = 159.4 cubic inch

Unit selected is a 300 cubic inch (1.3 gallon) unit with a pre-charged cartridge.

Performance criteria of 4% is satisfied.

Discharge Sizing

Size = $[0.100 \times 2.25^2 \times 3 \times 1360] / [4 \times 500] = 1.04$ gallons

The size in the equation above equate to gas volume in gallons.

Size conversion - 1.04 gallons x 231 cubic inch/gallon = 240.3 cubic inch

Unit offered is a 300 cubic inch (1.3 gallon) unit with a pre-charged cartridge.

Performance criteria of 4% is satisfied.

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

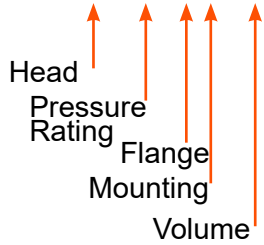


*Optional certification available:



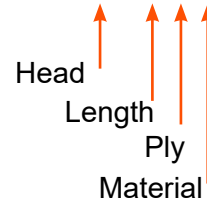
MODEL CODE

EXAMPLE: SFT-14403-F-300



CARTRIDGE

EXAMPLE: SFT-246-N



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:

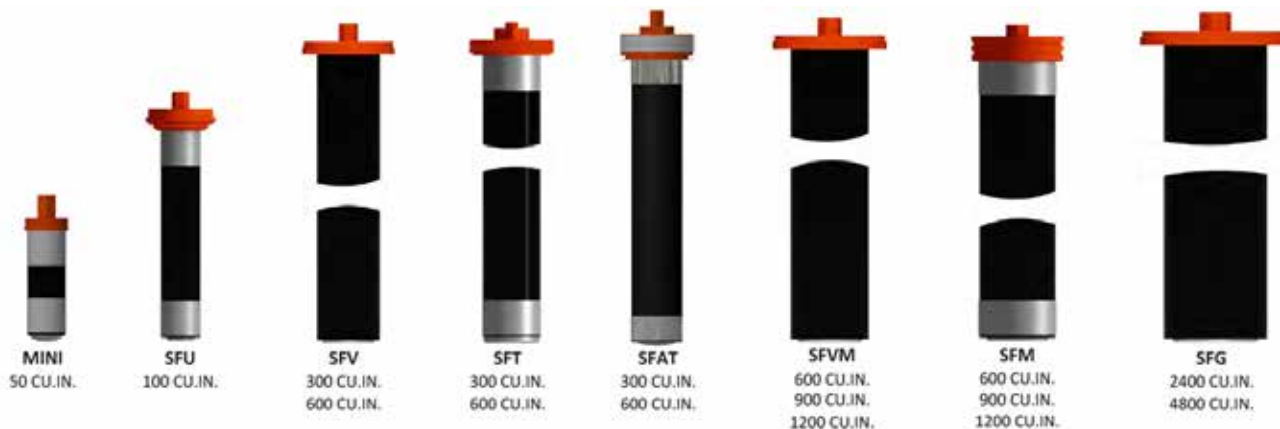
- (N) Nitrile
- (NT) Nitrile/TFE Encapsulated
- (NN) Nitrile/Nickle Plated
- (NTN) Nitrile/TFE Encapsulated/Nickel Plated
- (E) EPDM
- (ET) EPDM/TFE Encapsulated
- (EN) EPDM/Nickel Plated
- (ETN) EPDM/ TFE Encapsulated/Nickel Plated
- (X) XRE
- (XT) XRE/TFE Encapsulated
- (XN) XRE/Nickel Plated
- (XTN) 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

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

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



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

ELASTOMER	RECOMMEND FOR	RESISTANCE FACTORS
<p>NITRILE (Generic Name) is the copolymer of butadiene and acrylonitrile. 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>EPDM (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>XRE 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>HNBR 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 temperature above 280°F the useable life of the cartridge will be shortened.</p>

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

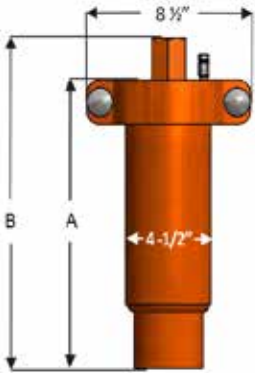
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFV-1500 SERIES (Mini 50) - 50 Cubic Inch Gas Capacity - Grooved Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFV-1502-TC-50	16	14	37	150	2"-FNPT	SFV-92	100 psi

SFV-4500 SERIES (Mini 50) - 50 Cubic Inch Gas Capacity - Grooved Top

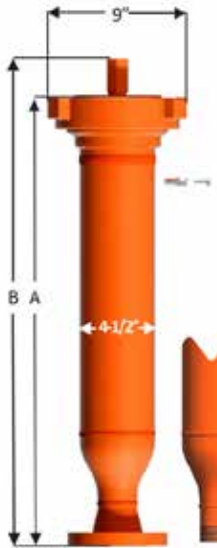
MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFV-4502-TC-50	16	14	37	450	2"-FNPT	SFV-96	300 psi



Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFU-1500 SERIES - 100 Cubic Inch Gas Capacity - Union Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFU-1501-F-100	26	28	60	150	1"-150 RF ANSI	SFU-182	100 psi
SFU-1501.5-F-100	26	28	61	150	1.5"-150 RF ANSI	SFU-182	100 psi
SFU-1502-F-100	26	28	63	150	2"-150 RF ANSI	SFU-182	100 psi
SFU-1502.5-F-100	26	28	67	150	2.5"-300 RF ANSI	SFU-182	100 psi
SFU-1503-F-100	26	28	69	150	3"-150 RF ANSI	SFU-182	100 psi
SFU-1501-T-100	25	27	58	150	1" XH NPT	SFU-182	100 psi
SFU-1501.5-T-100	25	27	58	150	1.5" XH NPT	SFU-182	100 psi
SFU-1502-T-100	26	28	58	150	2" XH NPT	SFU-182	100 psi
SFU-1502.5-T-100	26	28	58	150	2.5" XH NPT	SFU-182	100 psi
SFU-1503-T-100	26	28	59	150	3" XH NPT	SFU-182	100 psi



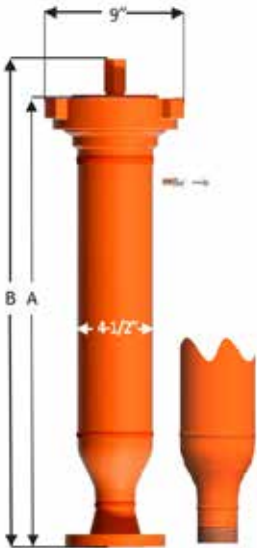
SFU-4500 SERIES - 100 Cubic Inch Gas Capacity - Union Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFU-4501-F-100	26	28	61	450	1"-300 RF ANSI	SFU-186	500 psi
SFU-4501.5-F-100	26	28	64	450	1"-300 RF ANSI	SFU-186	500 psi
SFU-4502-F-100	26	28	65	450	2"-300 RF ANSI	SFU-186	500 psi
SFU-4502.5-F-100	27	29	69	450	2.5"-300 RF ANSI	SFU-186	500 psi
SFU-4503-F-100	27	29	73	450	3"-300 RF ANSI	SFU-186	500 psi
SFU-4501-T-100	25	27	58	450	1" XH NPT	SFU-186	500 psi
SFU-4501.5-T-100	25	27	58	450	1.5" XH NPT	SFU-186	500 psi
SFU-4502-T-100	26	28	58	450	2" XH NPT	SFU-186	500 psi
SFU-4502.5-T-100	26	28	58	450	2.5" XH NPT	SFU-186	500 psi
SFU-4503-T-100	26	28	59	450	3" XH NPT	SFU-186	500 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFU-7000 SERIES - 100 Cubic Inch Gas Capacity - Union Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFU-7001-F-100	26	28	61	700	1"-300 RF ANSI	SFU-186	500 psi
SFU-7001.5-F-100	26	28	64	700	1.5"-300 RF ANSI	SFU-186	500 psi
SFU-7002-F-100	26	28	65	700	2"-300 RF ANSI	SFU-186	500 psi
SFU-7002.5-F-100	27	29	69	700	2.5"-300 RF ANSI	SFU-186	500 psi
SFU-7003-F-100	27	29	73	700	3"-300 RF ANSI	SFU-186	500 psi
SFU-7001-T-100	25	27	58	700	1" XH NPT	SFU-186	500 psi
SFU-7001.5-T-100	25	27	58	700	1.5" XH NPT	SFU-186	500 psi
SFU-7002-T-100	26	28	58	700	2" XH NPT	SFU-186	500 psi
SFU-7002.5-T-100	26	28	58	700	2.5" XH NPT	SFU-186	500 psi
SFU-7003-T-100	26	28	59	700	3" XH NPT	SFU-186	500 psi



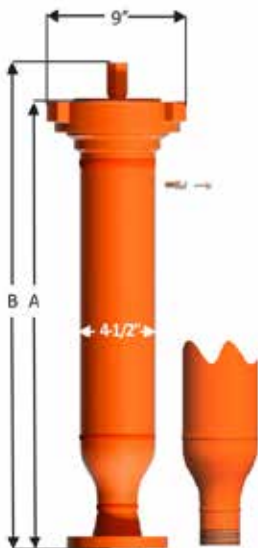
SFU-14400 SERIES - 100 Cubic Inch Gas Capacity - Union Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFU-14401-F-100	26	28	61	14400	1"-600 RF ANSI	SFU-186	500 psi
SFU-14401.5-F-100	27	29	65	1440	1.5"-600 RF ANSI	SFU-186	500 psi
SFU-14402-F-100	27	29	67	1440	2"-600 RF ANSI	SFU-186	500 psi
SFU-14402.5-F-100	27	29	71	1440	2.5"-600 RF ANSI	SFU-186	500 psi
SFU-14403-F-100	27	29	75	1440	3"-600 RF ANSI	SFU-186	500 psi
SFU-14401-T-100	25	27	58	1440	1" XH NPT	SFU-186	500 psi
SFU-14401.5-T-100	25	27	58	1440	1.5" XH NPT	SFU-186	500 psi
SFU-14402-T-100	26	28	58	1440	2" XH NPT	SFU-186	500 psi
SFU-14402.5-T-100	26	28	58	1440	2.5" XH NPT	SFU-186	500 psi
SFU-14403-T-100	26	28	59	1440	3" XH NPT	SFU-186	500 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFU-21000 SERIES - 100 Cubic Inch Gas Capacity - Union Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFU-21001-F-100	27	29	68	2100	1"-900 RF ANSI	SFU-186	500 psi
SFU-21001.5-F-100	27	29	72	2100	1.5"-900 RF ANSI	SFU-186	500 psi
SFU-21002-F-100	28	30	74	2100	2"-900 RF ANSI	SFU-186	500 psi
SFU-21002.5-F-100	28	30	78	2100	2.5"-900 RF ANSI	SFU-186	500 psi
SFU-21003-F-100	28	30	82	2100	3"-900 RF ANSI	SFU-186	500 psi
SFU-21001-T-100	25	27	65	2100	1" XH NPT	SFU-186	500 psi
SFU-21001.5-T-100	25	27	65	2100	1.5" XH NPT	SFU-186	500 psi
SFU-21002-T-100	26	28	66	2100	2" XH NPT	SFU-186	500 psi
SFU-21002.5-T-100	26	28	66	2100	2.5" XH NPT	SFU-186	500 psi
SFU-21003-T-100	26	28	67	2100	3" XH NPT	SFU-186	500 psi



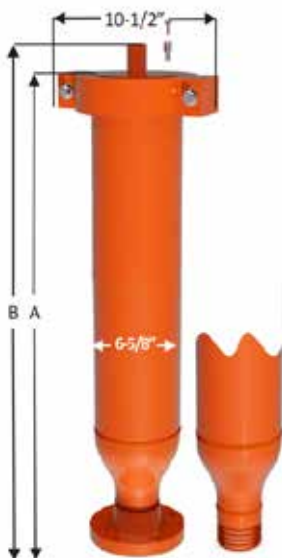
SFU-30000 SERIES - 100 Cubic Inch Gas Capacity - Union Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFU-30001-F-100	27	29	86	3000	1"-1500 RF	SFU-186	500 psi
SFU-30001.5-F-100	27	29	91	3000	1.5"-1500 RF	SFU-186	500 psi
SFU-30002-F-100	28	30	101	3000	2"-1500 RF	SFU-186	500 psi
SFU-30002.5-F-100	28	30	113	3000	2.5"-1500 RF	SFU-186	500 psi
SFU-30003-F-100	29	31	125	3000	3"-1500 RF	SFU-186	500 psi
SFU-30004-F-100	28	30	151	3000	4"-1500 RF	SFU-186	500 psi
SFU-30001-T-100	25	27	78	3000	1" NPT	SFU-186	500 psi
SFU-30001.5-T-100	25	27	78	3000	1.5" NPT	SFU-186	500 psi
SFU-30002-T-100	26	28	79	3000	2" NPT	SFU-186	500 psi
SFU-30002.5-T-100	26	28	79	3000	2.5" NPT	SFU-186	500 psi
SFU-30003-T-100	26	28	80	3000	3" NPT	SFU-186	500 psi
SFU-30004-T-100	27	29	79	3000	4" NPT	SFU-186	500 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFV-1500 SERIES - 300 Cubic Inch Gas Capacity - Grooved 6" Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFV-1502-F-300	34	36	87	150	2"-150 RF ANSI	SFV-242	100 psi
SFV-1503-F-300	34	36	93	150	3"-150 RF ANSI	SFV-242	100 psi
SFV-1504-F-300	34	36	97	150	4"-150 RF ANSI	SFV-242	100 psi
SFV-1506-F-300	34	36	105	150	6"-150 RF ANSI	SFV-242	100 psi
SFV-1508-F-300	36	38	128	150	8"-150 RF ANSI	SFV-242	100 psi
SFV-1502-T-300	33	35	82	150	2" XH NPT	SFV-242	100 psi
SFV-1503-T-300	34	36	83	150	3" XH NPT	SFV-242	100 psi
SFV-1504-T-300	34	36	84	150	4" XH NPT	SFV-242	100 psi
SFV-1506-T-300	34	36	86	150	6" XH NPT	SFV-242	100 psi
SFV-1508-T-300	35	37	93	150	8" XH NPT	SFV-242	100 psi



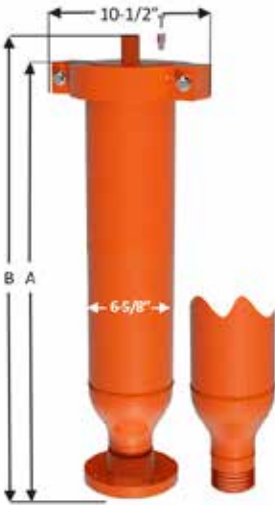
SFV-4500 SERIES - 300 Cubic Inch Gas Capacity - Grooved 6" Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFV-4502-F-300	34	36	94	450	2"-300 RF ANSI	SFV-244	300 psi
SFV-4503-F-300	34	36	102	450	3"-300 RF ANSI	SFV-244	300 psi
SFV-4504-F-300	34	36	111	450	4"-300 RF ANSI	SFV-244	300 psi
SFV-4506-F-300	34	36	131	450	6"-300 RF ANSI	SFV-244	300 psi
SFV-4508-F-300	36	38	156	450	8"-300 RF ANSI	SFV-244	300 psi
SFV-4502-T-300	33	35	87	450	2" XH NPT	SFV-244	300 psi
SFV-4503-T-300	34	36	88	450	3" XH NPT	SFV-244	300 psi
SFV-4504-T-300	34	36	89	450	4" XH NPT	SFV-244	300 psi
SFV-4506-T-300	34	36	91	450	6" XH NPT	SFV-244	300 psi
SFV-4508-T-300	35	37	93	450	8" XH NPT	SFV-244	300 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFV-1500 SERIES - 600 Cubic Inch Gas Capacity - Grooved 6" Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFV-1502-F-600	60	62	125	150	2"-150 RF ANSI	SFV-482	100 psi
SFV-1503-F-600	60	62	131	150	3"-150 RF ANSI	SFV-482	100 psi
SFV-1504-F-600	60	62	135	150	4"-150 RF ANSI	SFV-482	100 psi
SFV-1506-F-600	60	62	143	150	6"-150 RF ANSI	SFV-482	100 psi
SFV-1508-F-600	60	62	166	150	8"-150 RF ANSI	SFV-482	100 psi
SFV-1502-T-600	59	61	120	150	2" XH NPT	SFV-482	100 psi
SFV-1503-T-600	60	62	121	150	3" XH NPT	SFV-482	100 psi
SFV-1504-T-600	60	62	122	150	4" XH NPT	SFV-482	100 psi
SFV-1506-T-600	60	62	124	150	6" XH NPT	SFV-482	100 psi
SFV-1508-T-600	59	61	131	150	8" XH NPT	SFV-482	100 psi



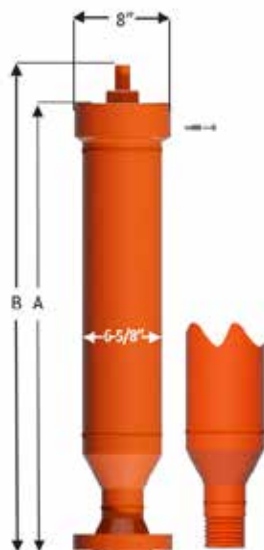
SFV-4500 SERIES - 600 Cubic Inch Gas Capacity - Grooved 6" Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFV-4502-F-600	58	60	132	450	2"-300 RF ANSI	SFV-484	300 psi
SFV-4503-F-600	58	60	140	450	3"-300 RF ANSI	SFV-484	300 psi
SFV-4504-F-600	58	60	149	450	4"-300 RF ANSI	SFV-484	300 psi
SFV-4506-F-600	58	60	169	450	6"-300 RF ANSI	SFV-484	300 psi
SFV-4508-F-600	60	62	194	450	8"-300 RF ANSI	SFV-484	300 psi
SFV-4502-T-600	57	59	125	450	2" XH NPT	SFV-484	300 psi
SFV-4503-T-600	58	60	126	450	3" XH NPT	SFV-484	300 psi
SFV-4504-T-600	58	60	127	450	4" XH NPT	SFV-484	300 psi
SFV-4506-T-600	58	60	129	450	6" XH NPT	SFV-484	300 psi
SFV-4508-T-600	59	61	131	450	8" XH NPT	SFV-484	300 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFT-1500 SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-1502-F-300	34	37	91	150	2"-150 RF ANSI	SFT-242	100 psi
SFT-1503-F-300	34	37	97	150	3"-150 RF ANSI	SFT-242	100 psi
SFT-1504-F-300	35	38	101	150	4"-150 RF ANSI	SFT-242	100 psi
SFT-1506-F-300	33	36	106	150	6"-150 RF ANSI	SFT-242	100 psi
SFT-1508-F-300	36	39	132	150	8"-150 RF ANSI	SFT-242	100 psi
SFT-1502-T-300	33	36	86	150	2" XH NPT	SFT-242	100 psi
SFT-1503-T-300	34	37	87	150	3" XH NPT	SFT-242	100 psi
SFT-1504-T-300	35	38	88	150	4" XH NPT	SFT-242	100 psi
SFT-1506-T-300	32	35	87	150	6" XH NPT	SFT-242	100 psi
SFT-1508-T-300	35	38	97	150	8" XH NPT	SFT-242	100 psi



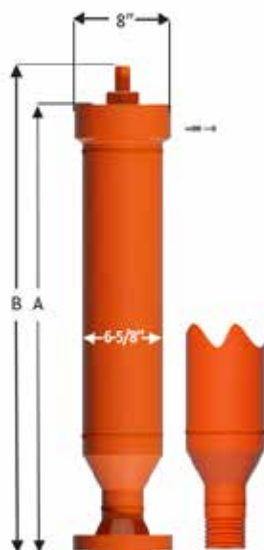
SFT-7000 SERIES - 300 Cubic Inch Gas Capacity - ThreadedTop

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-7002-F-300	34	37	98	700	2"-150 RF ANSI	SFT-244	300 psi
SFT-7003-F-300	35	38	106	700	3"-150 RF ANSI	SFT-244	300 psi
SFT-7004-F-300	35	38	115	700	4"-150 RF ANSI	SFT-244	300 psi
SFT-7006-F-300	33	36	132	700	6"-150 RF ANSI	SFT-244	300 psi
SFV-7008-F-300	36	39	165	700	8"-150 RF ANSI	SFT-244	300 psi
SFT-7002-T-300	33	36	91	700	2" XH NPT	SFT-244	300 psi
SFT-7003-T-300	34	37	92	700	3" XH NPT	SFT-244	300 psi
SFT-7004-T-300	35	38	93	700	4" XH NPT	SFT-244	300 psi
SFT-7006-T-300	32	35	92	700	6" XH NPT	SFT-244	300 psi
SFT-7008-T-300	35	38	102	700	8" XH NPT	SFT-244	300 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFT-14400 SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-14402-F-300	35	38	105	1440	2"-600 RF ANSI	SFT-246	500 psi
SFT-14403-F-300	35	38	113	1440	3"-600 RF ANSI	SFT-246	500 psi
SFT-14404-F-300	36	39	132	1440	4"-600 RF ANSI	SFT-246	500 psi
SFT-14406-F-300	34	37	165	1440	6"-600 RF ANSI	SFT-246	500 psi
SFT-14408-F-300	38	41	212	1440	8"-600 RF ANSI	SFT-246	500 psi
SFT-14402-T-300	33	36	96	1440	2" XH NPT	SFT-246	500 psi
SFT-14403-T-300	34	37	97	1440	3" XH NPT	SFT-246	500 psi
SFT-14404-T-300	35	38	98	1440	4" XH NPT	SFT-246	500 psi
SFT-14406-T-300	32	35	97	1440	6" XH NPT	SFT-246	500 psi
SFT-14408-T-300	35	38	107	1440	8" XH NPT	SFT-246	500 psi



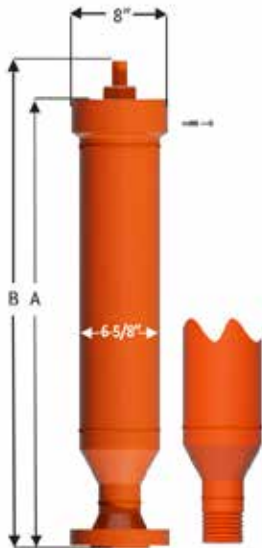
SFT-21000 SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-21002-F-300	36	39	142	2100	2"-900 RF ANSI	SFT-246	500 psi
SFT-21003-F-300	36	39	147	2100	3"-900 RF ANSI	SFT-246	500 psi
SFT-21004-F-300	36	39	169	2100	4"-900 RF ANSI	SFT-246	500 psi
SFT-21006-F-300	35	38	223	2100	6"-900 RF ANSI	SFT-246	500 psi
SFT-21008-F-300	39	42	313	2100	8"-900 RF ANSI	SFT-246	500 psi
SFT-21002-T-300	33	36	119	2100	2" XH NPT	SFT-246	500 psi
SFT-21003-T-300	34	37	120	2100	3" XH NPT	SFT-246	500 psi
SFT-21004-T-300	35	38	122	2100	4" XH NPT	SFT-246	500 psi
SFT-21006-T-300	32	35	120	2100	6" XH NPT	SFT-246	500 psi
SFT-21008-T-300	35	38	137	2100	8" XH NPT	SFT-246	500 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFT-36000 SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-36002-F-300	36	39	163	3600	2"-1500 RF ANSI	SFT-246	500 psi
SFT-36003-F-300	36	39	187	3600	3"-1500 RF ANSI	SFT-246	500 psi
SFT-36004-F-300	37	40	208	3600	4"-1500 RF ANSI	SFT-246	500 psi
SFT-36006-F-300	36	39	294	3600	6"-1500 RF ANSI	SFT-246	500 psi
SFT-36008-F-300	41	44	424	3600	8"-1500 RF ANSI	SFT-246	500 psi
SFT-36002-T-300	33	36	141	3600	2" XH NPT	SFT-246	500 psi
SFT-36003-T-300	34	37	143	3600	3" XH NPT	SFT-246	500 psi
SFT-36004-T-300	35	38	144	3600	4" XH NPT	SFT-246	500 psi
SFT-36006-T-300	32	35	139	3600	6" XH NPT	SFT-246	500 psi
SFT-36008-T-300	35	38	166	3600	8" XH NPT	SFT-246	500 psi



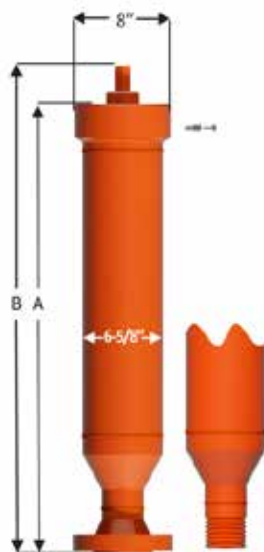
SFAT-50000 SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFAT-50002-F-300	37	40	220	5000	2"-2500 RF ANSI	SFAT-246	500 psi
SFAT-50003-F-300	38	41	290	5000	3"-2500 RF ANSI	SFAT-246	500 psi
SFAT-50004-F-300	39	42	350	5000	4"-2500 RF ANSI	SFAT-246	500 psi
SFAT-50006-F-300	40	43	602	5000	6"-2500 RF ANSI	SFAT-246	500 psi
SFAT-50008-F-300	45	48	783	5000	8"-1500 RF ANSI	SFAT-246	500 psi
SFAT-50002-T-300	33	36	167	5000	2" XH NPT	SFAT-246	500 psi
SFAT-50003-T-300	34	37	170	5000	3" XH NPT	SFAT-246	500 psi
SFAT-50004-T-300	35	38	172	5000	4" XH NPT	SFAT-246	500 psi
SFAT-50006-T-300	32	35	165	5000	6" XH NPT	SFAT-246	500 psi
SFAT-50008-T-300	35	38	201	5000	8" XH NPT	SFAT-246	500 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFT-1500 SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-1502-F-600	58	61	129	150	2"-150 RF ANSI	SFT-482	100 psi
SFT-1503-F-600	58	61	135	150	3"-150 RF ANSI	SFT-482	100 psi
SFT-1504-F-600	59	62	139	150	4"-150 RF ANSI	SFT-482	100 psi
SFT-1506-F-600	57	60	144	150	6"-150 RF ANSI	SFT-482	100 psi
SFT-1508-F-600	60	63	170	150	8"-150 RF ANSI	SFT-482	100 psi
SFT-1502-T-600	57	60	124	150	2" XH NPT	SFT-482	100 psi
SFT-1503-T-600	58	61	125	150	3" XH NPT	SFT-482	100 psi
SFT-1504-T-600	59	62	126	150	4" XH NPT	SFT-482	100 psi
SFT-1506-T-600	56	59	125	150	6" XH NPT	SFT-482	100 psi
SFT-1508-T-600	59	62	135	150	8" XH NPT	SFT-482	100 psi



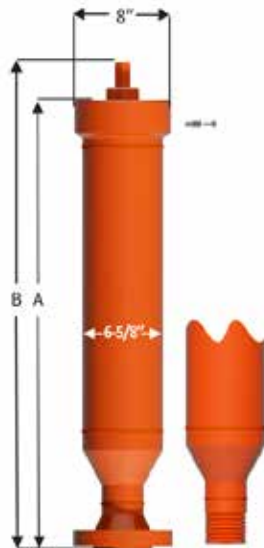
SFT-7000 SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-7002-F-600	58	61	136	700	2"-300 RF ANSI	SFT-484	300 psi
SFT-7003-F-600	59	62	144	700	3"-300 RF ANSI	SFT-484	300 psi
SFT-7004-F-600	59	62	153	700	4"-300 RF ANSI	SFT-484	300 psi
SFT-7006-F-600	57	60	170	700	6"-300 RF ANSI	SFT-484	300 psi
SFT-7008-F-600	60	63	203	700	8"-300 RF ANSI	SFT-484	300 psi
SFT-7002-T-600	57	60	129	700	2" XH NPT	SFT-484	300 psi
SFT-7003-T-600	58	61	130	700	3" XH NPT	SFT-484	300 psi
SFT-7004-T-600	59	62	131	700	4" XH NPT	SFT-484	300 psi
SFT-7006-T-600	56	59	130	700	6" XH NPT	SFT-484	300 psi
SFT-7008-T-600	59	62	140	700	8" XH NPT	SFT-484	300 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFT-14400 SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-14402-F-600	59	62	158	1440	2"-600 RF ANSI	SFT-486	500 psi
SFT-14403-F-600	59	62	166	1440	3"-600 RF ANSI	SFT-486	500 psi
SFT-14404-F-600	60	63	185	1440	4"-600 RF ANSI	SFT-486	500 psi
SFT-14406-F-600	58	61	218	1440	6"-600 RF ANSI	SFT-486	500 psi
SFT-14408-F-600	62	65	265	1440	8"-600 RF ANSI	SFT-486	500 psi
SFT-14402-T-600	57	60	149	1440	2" XH NPT	SFT-486	500 psi
SFT-14403-T-600	58	61	150	1440	3" XH NPT	SFT-486	500 psi
SFT-14404-T-600	59	62	151	1440	4" XH NPT	SFT-486	500 psi
SFT-14406-T-600	56	59	150	1440	6" XH NPT	SFT-486	500 psi
SFT-14408-T-600	59	62	160	1440	8" XH NPT	SFT-486	500 psi



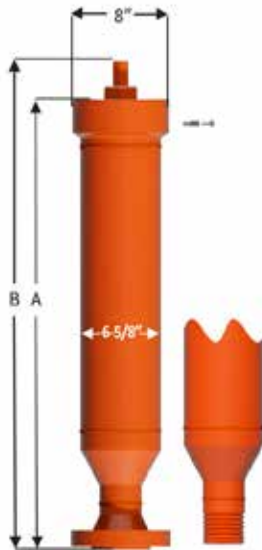
SFT-21000 SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-21002-F-300	60	63	214	2100	2"-900 RF ANSI	SFT-486	500 psi
SFT-21003-F-300	60	63	241	2100	3"-900 RF ANSI	SFT-486	500 psi
SFT-21004-F-300	59	62	295	2100	4"-900 RF ANSI	SFT-486	500 psi
SFT-21006-F-300	59	62	295	2100	6"-900 RF ANSI	SFT-486	500 psi
SFT-21008-F-300	63	66	385	2100	8"-900 RF ANSI	SFT-486	500 psi
SFT-21002-T-300	57	60	191	2100	2" XH NPT	SFT-486	500 psi
SFT-21003-T-300	59	62	194	2100	3" XH NPT	SFT-486	500 psi
SFT-21004-T-300	56	59	192	2100	4" XH NPT	SFT-486	500 psi
SFT-21006-T-300	56	59	192	2100	6" XH NPT	SFT-486	500 psi
SFT-21008-T-300	59	62	209	2100	8" XH NPT	SFT-486	500 psi

Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFT-36000 SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-36002-F-600	60	63	251	3600	2"-1500 RF ANSI	SFT-486	500 psi
SFT-36003-F-600	60	63	275	3600	3"-1500 RF ANSI	SFT-486	500 psi
SFT-36004-F-600	61	64	296	3600	4"-1500 RF ANSI	SFT-486	500 psi
SFT-36006-F-600	60	63	382	3600	6"-1500 RF ANSI	SFT-486	500 psi
SFT-36008-F-600	65	68	512	3600	8"-1500 RF ANSI	SFT-486	500 psi
SFT-36002-T-600	57	60	229	3600	2" XH NPT	SFT-486	500 psi
SFT-36003-T-600	58	61	231	3600	3" XH NPT	SFT-486	500 psi
SFT-36004-T-600	59	62	232	3600	4" XH NPT	SFT-486	500 psi
SFT-36006-T-600	56	59	227	3600	6" XH NPT	SFT-486	500 psi
SFT-36008-T-600	59	62	254	3600	8" XH NPT	SFT-486	500 psi



SFAT-50000 SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFAT-50002-F-600	61	64	325	5000	2"-2500 RF ANSI	SFAT-486	500 psi
SFAT-50003-F-600	62	65	395	5000	3"-2500 RF ANSI	SFAT-486	500 psi
SFAT-50004-F-600	63	66	455	5000	4"-2500 RF ANSI	SFAT-486	500 psi
SFAT-50006-F-600	64	67	707	5000	6"-2500 RF ANSI	SFAT-486	500 psi
SFAT-50008-F-600	69	72	888	5000	8"-1500 RF ANSI	SFAT-486	500 psi
SFAT-50002-T-600	57	60	273	5000	2" XH NPT	SFAT-486	500 psi
SFAT-50003-T-600	58	61	276	5000	3" XH NPT	SFAT-486	500 psi
SFAT-50004-T-600	59	62	277	5000	4" XH NPT	SFAT-486	500 psi
SFAT-50006-T-600	56	59	270	5000	6" XH NPT	SFAT-486	500 psi
SFAT-500080-T-600	59	62	306	5000	8" XH NPT	SFAT-486	500 psi

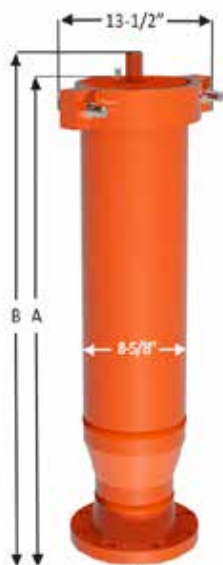
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFVM-1500 SERIES - 600 Cubic Inch Gas Capacity - Grooved 8" Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFVM-1503-F-600	34	36	142	150	3"-150 RF ANSI	SFVM-244	125 psi
SFVM-1504-F-600	35	37	146	150	4"-150 RF ANSI	SFVM-244	125 psi
SFVM-1506-F-600	35	37	154	150	6"-150 RF ANSI	SFVM-244	125 psi
SFVM-1508-F-600	35	37	171	150	8"-150 RF ANSI	SFVM-244	125 psi

SFVM-4500 SERIES - 600 Cubic Inch Gas Capacity - Grooved 8" Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFVM-4503-F-600	35	37	146	450	3"-300 RF ANSI	SFVM-244	125 psi
SFVM-4504-F-600	35	37	155	450	4"-300 RF ANSI	SFVM-244	125 psi
SFVM-4506-F-600	35	37	175	450	6"-300 RF ANSI	SFVM-244	125 psi
SFVM-4508-T-600	35	37	199	450	8"-300RF ANSI	SFVM-244	125 psi



SFVM-1500 SERIES - 600 Cubic Inch Gas Capacity - Grooved 8" Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFVM-1503-F-900	46	48	181	150	3"-150 RF ANSI	SFVM-364	125 psi
SFVM-1504-F-900	47	49	185	150	4"-150 RF ANSI	SFVM-364	125 psi
SFVM-1506-F-900	47	49	193	150	6"-150 RF ANSI	SFVM-364	125 psi
SFVM-1508-F-900	47	49	210	150	8"-150 RF ANSI	SFVM-364	125 psi

SFVM-4500 SERIES - 600 Cubic Inch Gas Capacity - Grooved 8" Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFVM-4503-F-900	47	49	185	450	3"-300 RF ANSI	SFVM-364	125 psi
SFVM-4504-F-900	47	49	194	450	4"-300 RF ANSI	SFVM-364	125 psi
SFVM-4506-F-900	47	49	214	450	6"-300 RF ANSI	SFVM-364	125 psi
SFVM-4508-F-900	47	49	238	450	8"-300 RF ANSI	SFVM-364	125 psi

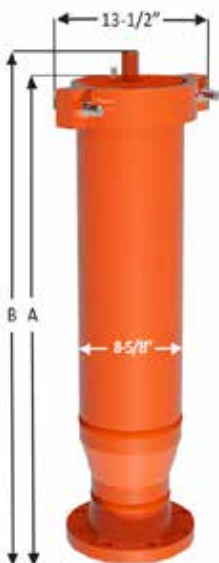
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFVM-1500 SERIES - 1200 Cubic Inch Gas Capacity - Grooved 8" Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFVM-1503-F-1200	58	60	209	150	3"-150 RF ANSI	SFVM-484	125 psi
SFVM-1504-F-1200	59	61	214	150	4"-150 RF ANSI	SFVM-484	125 psi
SFVM-1506-F-1200	59	61	222	150	6"-150 RF ANSI	SFVM-484	125 psi
SFVM-1508-F-1200	59	61	238	150	8"-150 RF ANSI	SFVM-484	125 psi

SFVM-1500 SERIES - 4500 Cubic Inch Gas Capacity - Grooved 8" Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFVM-4503-F-1200	59	61	214	450	3"-300 RF ANSI	SFVM-484	125 psi
SFVM-4504-F-1200	59	61	223	450	4"-300 RF ANSI	SFVM-484	125 psi
SFVM-4506-F-1200	59	61	243	450	6"-300 RF ANSI	SFVM-484	125 psi
SFVM-4508-F-1200	59	61	266	450	8"-300 RF ANSI	SFVM-484	125 psi



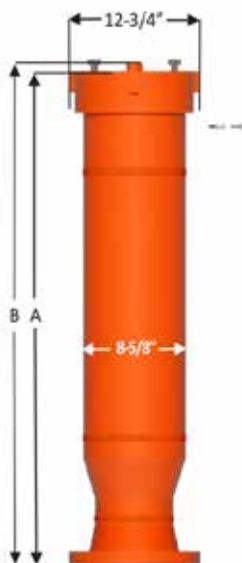
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFM-1500 SERIES - 600 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-1503-F-600	36	38	186	150	3"-150 RF ANSI	SFM-244	125 psi
SFM-1504-F-600	36	38	190	150	4"-150 RF ANSI	SFM-244	125 psi
SFM-1506-F-600	37	39	198	150	6"-150 RF ANSI	SFM-244	125 psi
SFM-1508-F-600	33	35	208	150	8"-150 RF ANSI	SFM-244	125 psi

SFM-4500 SERIES - 600 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-4503-F-600	37	39	190	450	3"-300 RF ANSI	SFM-244	125 psi
SFM-4504-F-600	37	39	199	450	4"-300 RF ANSI	SFM-244	125 psi
SFM-4506-F-600	37	39	219	450	6"-300 RF ANSI	SFM-244	125 psi
SFM-4508-F-600	34	36	236	450	8"-300 RF ANSI	SFM-244	125 psi



SFM-14400 SERIES - 600 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-14403-F-600	37	39	241	1440	3"-600 RF ANSI	SFM-246	300 psi
SFM-14404-F-600	38	40	260	1440	4"-600 RF ANSI	SFM-246	300 psi
SFM-14406-F-600	38	40	296	1440	6"-600 RF ANSI	SFM-246	300 psi
SFM-14408-F-600	35	37	323	1440	8"-600 RF ANSI	SFM-246	300 psi

SFM-21000 SERIES - 600 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-21003-F-600	38	40	274	2100	3"-900 RF ANSI	SFM-246	300 psi
SFM-21004-F-600	38	40	296	2100	4"-900 RF ANSI	SFM-246	300 psi
SFM-21006-F-600	39	41	355	2100	6"-900 RF ANSI	SFM-246	300 psi
SFM-21008-F-600	36	38	416	2100	8"-900 RF ANSI	SFM-246	300 psi

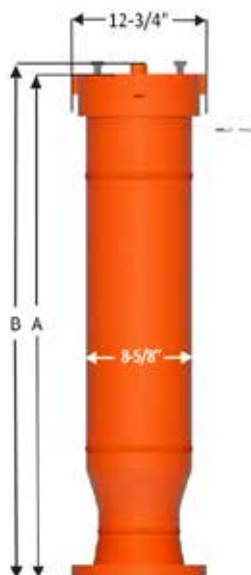
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFM-1500 SERIES - 900 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-1503-F-900	48	50	214	150	3"-150 RF ANSI	SFM-364	125 psi
SFM-1504-F-900	48	50	219	150	4"-150 RF ANSI	SFM-364	125 psi
SFM-1506-F-900	49	51	227	150	6"-150 RF ANSI	SFM-364	125 psi
SFM-1508-F-900	45	47	236	150	8"-150 RF ANSI	SFM-364	125 psi

SFM-4500 SERIES - 900 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-4503-F-900	49	51	219	450	3"-300 RF ANSI	SFM-364	125 psi
SFM-4504-F-900	49	51	228	450	4"-300 RF ANSI	SFM-364	125 psi
SFM-4506-F-900	49	51	248	450	6"-300 RF ANSI	SFM-364	125 psi
SFM-4508-F-900	46	48	264	450	8"-300 RF ANSI	SFM-364	125 psi



SFM-14400 SERIES - 900 Cubic Inch Gas Capacity -Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-14403-F-900	49	51	284	1440	3"-600 RF ANSI	SFM-366	300 psi
SFM-14404-F-900	50	52	303	1440	4"-600 RF ANSI	SFM-366	300 psi
SFM-14406-F-900	50	52	339	1440	6"-600 RF ANSI	SFM-366	300 psi
SFM-14408-F-900	47	49	367	1440	8"-600 RF ANSI	SFM-366	300 psi

SFM-21000 SERIES - 900 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-21003-F-900	50	52	325	2100	3"-900 RF ANSI	SFM-366	300 psi
SFM-21004-F-900	50	52	347	2100	4"-900 RF ANSI	SFM-366	300 psi
SFM-21006-F-900	51	53	406	2100	6"-900 RF ANSI	SFM-366	300 psi
SFM-21008-F-900	48	50	467	2100	8"-900 RF ANSI	SFM-366	300 psi

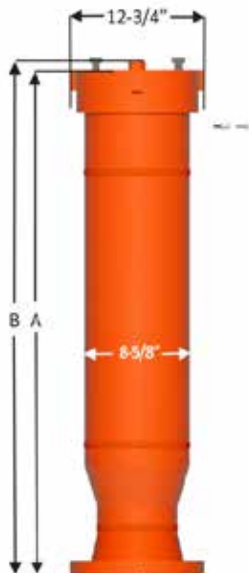
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFM-1500 SERIES - 1200 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-1503-F-1200	60	62	243	150	3"-150 RF ANSI	SFM-484	125 psi
SFM-1504-F-1200	60	62	247	150	4"-150 RF ANSI	SFM-484	125 psi
SFM-1506-F-1200	61	63	255	150	6"-150 RF ANSI	SFM-484	125 psi
SFM-1508-F-1200	57	59	265	150	8"-150 RF ANSI	SFM-484	125 psi

SFM-4500 SERIES - 1200 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-4503-F-1200	61	63	247	450	3"-300 RF ANSI	SFM-484	125 psi
SFM-4504-F-1200	61	63	256	450	4"-300 RF ANSI	SFM-484	125 psi
SFM-4506-F-1200	61	63	276	450	6"-300 RF ANSI	SFM-484	125 psi
SFM-4508-F-1200	58	60	293	450	8"-300 RF ANSI	SFM-484	125 psi



SFM-14400 SERIES - 1200 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-14403-F-1200	61	63	328	1440	3"-600 RF ANSI	SFM-486	300 psi
SFM-14404-F-1200	62	64	347	1440	4"-600 RF ANSI	SFM-486	300 psi
SFM-14406-F-1200	62	64	383	1440	6"-600 RF ANSI	SFM-486	300 psi
SFM-14408-F-1200	59	61	410	1440	8"-600 RF ANSI	SFM-486	300 psi

SFM-21000 SERIES - 1200 Cubic Inch Gas Capacity - Wing Nut Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFM-21003-F-1200	62	64	376	2100	3"-900 RF ANSI	SFM-486	300 psi
SFM-21004-F-1200	62	64	398	2100	4"-900 RF ANSI	SFM-486	300 psi
SFM-21006-F-1200	63	65	457	2100	6"-900 RF ANSI	SFM-486	300 psi
SFM-21008-F-1200	60	62	518	2100	8"-900 RF ANSI	SFM-486	300 psi

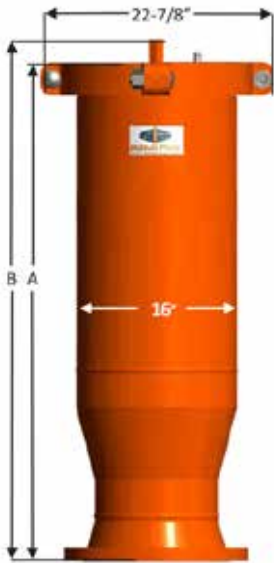
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFG-1500 SERIES - 2400 Cubic Inch Gas Capacity - Grooved 16" Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFG-1506-F-2400	43	45	408	150	6" 150 RF	SFG-246	75 psi
SFG-1508-F-2400	44	46	425	150	8" 150 RF	SFG-246	75 psi
SFG-15010-F-2400	44	46	438	150	10" 150 RF	SFG-246	75 psi
SFG-15012-F-2400	44	46	468	150	12" 150 RF	SFG-246	75 psi
SFG-15014-F-2400	45	47	500	150	14" 150 RF	SFG-246	75 psi

SFG-1500 SERIES - 800 Cubic Inch Gas Capacity - Grooved 16" Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFG-1506-F-4800	67	69	518	150	6" 150 RF	SFG-486	75 psi
SFG-1508-F-4800	68	70	535	150	8" 150 RF	SFG-486	75 psi
SFG-15010-F-4800	68	70	548	150	10" 150 RF	SFG-486	75 psi
SFG-15012-F-4800	68	70	578	150	12" 150 RF	SFG-486	75 psi
SFG-15014-F-4800	69	71	610	150	14" 150 RF	SFG-486	75 psi



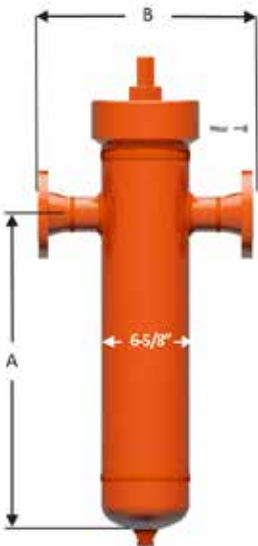
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFT-14400 FFS SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-14402-FFS-300	25	19	145	1440	2"-600 RF ANSI	SFT-246	500 psi
SFT-14403-FFS-300	25	21	165	1440	3"-600 RF ANSI	SFT-246	500 psi
SFT-14404-FFS-300	25	23	215	1440	4"-600 RF ANSI	SFT-246	500 psi

SFT-21000 FFS SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-21002-FFS-300	25	23	200	2100	2"-900 RF ANSI	SFT-246	500 psi
SFT-21003-FFS-300	25	23	215	2100	3"-900 RF ANSI	SFT-246	500 psi
SFT-21004-FFS-300	25	26	265	2100	4"-900 RF ANSI	SFT-246	500 psi



SFT-36000 FFS SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-36002-FFS-300	25	23	215	3600	2"-1500 RF ANSI	SFT-246	500 psi
SFT-36003-FFS-300	25	27	275	3600	3"-1500 RF ANSI	SFT-246	500 psi
SFT-36004-FFS-300	25	29	325	3600	4"-1500 RF ANSI	SFT-246	500 psi

SFAT-50000 FFS SERIES - 300 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFAT-50002-FFS-300	25	27	310	5000	2"-2500 RF ANSI	SFAT-246	500 psi
SFAT-50003-FFS-300	25	32	455	5000	3"-2500 RF ANSI	SFAT-246	500 psi
SFAT-50004-FFS-300	25	35	585	5000	4"-2500 RF ANSI	SFAT-246	500 psi

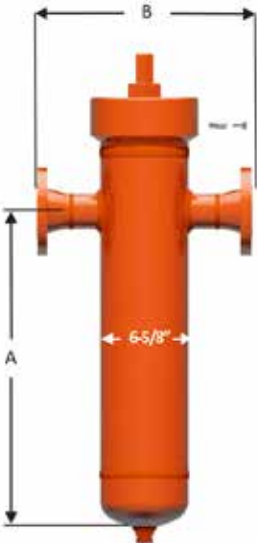
Note: Dimensions and weights are for reference only. Manufacturer tolerances may cause dimensions to vary slightly. Engineered drawings provided upon request. Additional connections available upon request.

SFT-14400 FFS SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A	HEIGHT B	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-14402-FFS-600	49	19	185	1440	2"-600 RF ANSI	SFT-486	500 psi
SFT-14403-FFS-600	49	21	205	1440	3"-600 RF ANSI	SFT-486	500 psi
SFT-14404-FFS-600	49	23	255	1440	4"-600 RF ANSI	SFT-486	500 psi

SFT-21000 FFS SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-21002-FFS-600	49	23	260	2100	2"-900 RF ANSI	SFT-486	500 psi
SFT-21003-FFS-600	49	23	275	2100	3"-900 RF ANSI	SFT-486	500 psi
SFT-21004-FFS-600	49	26	325	2100	4"-900 RF ANSI	SFT-486	500 psi



SFT-36000 FFS SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFT-36002-FFS-600	49	23	290	3600	2"-1500 RF ANSI	SFT-486	500 psi
SFT-36003-FFS-600	49	27	350	3600	3"-1500 RF ANSI	SFT-486	500 psi
SFT-36004-FFS-600	49	29	400	3600	4"-1500 RF ANSI	SFT-486	500 psi

SFAT-50000 FFS SERIES - 600 Cubic Inch Gas Capacity - Threaded Top

MODEL	HEIGHT A (Inch)	HEIGHT B (Inch)	WEIGHT	MAWP (PSI)	MOUNTING CONNECTION	CARTRIDGE	MAX CHARGE (NITROGEN)
SFAT-50002-FFS-600	49	27	410	5000	2"-2500RF ANSI	SFAT-486	500 psi
SFAT-50003-FFS-600	49	32	545	5000	3"-2500RF ANSI	SFAT-486	500 psi
SFAT-50004-FFS-600	49	35	675	5000	4"-2500RF ANSI	SFAT-486	500 psi

PPC warrants that its Status Flow® stabilizers are free from defects in materials and workmanship for a period of twelve (12) months from the date of installation or eighteen (18) months from shipment date, whichever expires first.

PPC warrants that its stabilizer cartridges (excluding TFE sleeved) are free from defects in material and workmanship for a period of six (6) months from installation or twelve (12) months from the date of manufacture, whichever expires first. TFE sleeve cartridges are guaranteed free from defects in materials or workmanship for a period of three (3) months from date of installation or twelve (12) months from date of manufacture, whichever expires first.

During the warranty period should PPC determine the components failed while under normal conditions and proper use, and provide the products have been properly stored, installed, and maintained, PPC shall correct such defective components at its discretion either by repair or replacement.

Labor, Etc. Costs: PPC shall in NO EVENT be responsible or liable for the cost of field labor or other charges incurred by any customer in removing and/or reaffixing Status Flow® product, part or component thereof.

Warranty Exclusions: (a) Defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provide; (b) failures resulting from abuse, accident or negligence; (c) normal maintenance services and the parts used in connection with such service; (d) units which are not installed in accordance with applicable local codes, ordinances and good trade practices; or (e) if the unit is moved from its original installation location and (f) unit is used for purposes other than for what it was designed and manufactured.

Return or Replaced Components: Any item to be replaced under this Warranty must be returned to Status Flow® in Odessa, Texas, or such place as PPC may designate, freight prepaid.

Product Improvements: Status Flow® reserves the right to change or improve its products or any portions thereof without being obligated to provide such a change or improvement for units sold and/or shipped prior to such a change or improvement.

Liability Limitation: In no event shall Status Flow® be liable or responsible for special, incidental, or consequential damages, including but not limited to loss of anticipated profits or revenue, loss of use of the equipment, claims of customers of the purchaser or any such related claims or loss. Status Flow® liability on any claim shall in no case exceed the purchase price allocable to the products or components which give rise to the claim.