

Explanation of Pump Nomenclature S1F Non-Metallic · Design Level 3 · Ball Valve

				<u> </u>									
M 1 - 1	D		Check	Destina	M /- HI	Diaphragm/	Check	Non-Wetted	Denting	D	D	14 in	Shipping
Model	Pump	Pump	Valve	Design	Wetted	Check Valve	Valve	Material	Porting	Pump	Pump	Kit	Weight
	Brand	Size	Туре	Level	Material	Materials	Seat	Options	Options	Style	Options	Options	lbs. (kg)
S1FB3P1PPUS000.	S	1F	В	3	Р	1	Р	Р	U	S	0	00.	42 (19)
S1FB3P2PPUS000.	S	1F	В	3	Р	2	P	Р	U	S	0	00.	42 (19)
S1FB3PBPPUS000.	S	1F	В	3	Р	В	Р	Р	U	S	0	00.	42 (19)
S1FB3PGPPUS000.	S	1F	В	3	Р	G	Р	Р	U	S	0	00.	42 (19)
S1FB3PNPPUS000.	S	1F	В	3	Р	N	Р	Р	U	S	0	00.	42 (19)
S1FB3K1KPUS000.	S	1F	В	3	K	1	K	Р	U	S	0	00.	54 (24)
S1FB3K2KPUS000.	S	1F	В	3	K	2	K	Р	U	S	0	00.	54 (24)
S1FB3P3PPUV000.	S	1F	В	3	Р	3	Р	Р	U	V	0	00.	48 (22)
S1FB3K3KPUV000.	S	1F	В	3	K	3	K	Р	U	V	0	00.	64 (29)
S1FB3P4PPUV000.	S	1F	В	3	Р	4	Р	Р	U	V	0	00.	48 (22)
S1FB3K4KPUV000.	S	1F	В	3	К	4	K	Р	U	V	0	00.	64 (29)

Note: Models listed in the table are for reference only. See nomenclature below for other models. **Check Valve Seat**

P= Polypropylene

Pump Brand

S= SANDPIPER®

Pump Size

1F= 1" Full Flow

Check Valve Type B= Ball

Design Level 3= Design Level 3

Wetted Material

- K= PVDF
- P= Polypropylene
- C= Conductive Polypropylene
- V= Conductive PDVF

Diaphragm Check Valve Materials

- 1= Santoprene[®]/Santoprene[®]
- 2= PTFE Santoprene Backup/PTFE PTFE Pumping, PTFE-Santoprene 3=
- Backup Driver/PTFE
- Santoprene Pumping/Santoprene® 4 =
- B= Nitrile/Nitrile
- G= PTFE-Neoprene Backup/PTFE
- N= Neoprene/Neoprene
- V= FKM/FKM
- Y= PTFE Pumping/One-Piece Bonded Driver/PTFE Z= One-Piece Bonded/PTFE

Non-Wetted Material Options P= Polypropylene

K= PVDF

- 1= 40% Glass Filled Polypropylene with PTFE hardware
- C = Conductive Polypropylene

Porting Options

- U= Universal (Fits ANSI and DIN)
- 7= Dual Porting (ANSI)
- 8= Top Dual Porting (ANSI)
- 9= Bottom Dual Porting (ANSI)

Pump Style

- D= With Electronic Leak Detection (110 V)
- E= With Electronic Leak Detection (220V)
- M= With Mechanical Leak Detection
- S= Standard
- V= With Visual Leak Detection

Pump Options

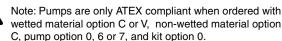
- A 0= None
 - 1= Sound Dampening Muffler
 - 2= Mesh Muffler High temperature Air Valve
 - w/Integral Muffler
 - 4= High temperature Air Valve w/Sound Dampening Muffler
 - 5= High temperature Air Valve w/Mesh Muffler
- 6= Metal Muffler
- 7= Metal Muffler with Grounding Cable A

Kit Options

00.= None A P0.= 10-30VDC Pulse Output Kit P1.= Intrinsically-Safe 5-30VDC, 110/120VAC 220/240 VAC Pulse Output Kit P2 = 110/120 or 220/240VAC Pulse Output Kit E0.= Solenoid Kit with 24VDC Coil E1.= Solenoid Kit with 24VDC Explosion-Proof Coil E2.= Solenoid Kit with 24VAC/12VDC Coil A E3.= Solenoid Kit with 12VDC **Explosion-Proof Coil** E4.= Solenoid Kit with 110VAC Coil △ E5.= Solenoid Kit with 110VAC Explosion-Proof Coil E6.= Solenoid Kit with 220VAC Coil △ E7.= Solenoid Kit with 220VAC Explosion-Proof Coil E8.= Solenoid Kit with 110VAC, 50 Hz

- Explosion-Proof Coil
- E9.= Solenoid Kit with 230VAC, 50 Hz Explosion-Proof Coil
 - SP.= Stroke Indicator Pins
- A1.= Solenoid Kit with 12 VDC Explosion-Proof Coil A2.= Solenoid Kit with 24 VDC Explosion-Proof Coil
- A3.= Solenoid Kit with 110/120 VAC 50/60 Hz Explosion-Proof Coil
- Solenoid Kit with 220/240 VAC
 - 50/60 Hz Explosion-Proof Coil

II 2GD T5



II 2G Ex ia c IIC T5

II 2D c iaD 20 IP67 T100°C

Note: Pumps ordered with the options listed in (1) above are ATEX compliant when ordered with kit option P1.



Note: Pumps ordered with the options listed in (1) to the left are ATEX compliant when ordered with kit option A1, A2, A3, or A4.

*Refer to the service manual to see special conditions for safe use.

IEC EEX m T4

(4) FM VED



Note: Pump models equipped with these explosion-proof solenoid kit options E1, E3, E5, E7, E8 or E9, are certified and approved by the above agencies. They are NOT ATEX compliant.



A CAUTION! Operating temperature limitations are as follows:

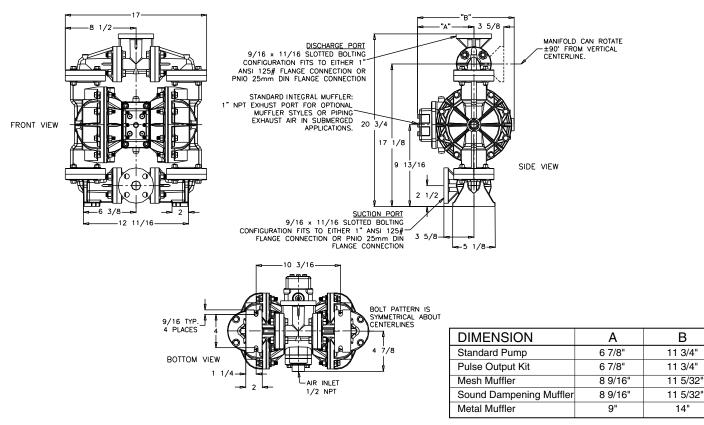
	Operating	Operating Temperatures			
Materials	Maximum*	Minimum*			
Virgin PTFE Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE: molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	220°F 104°C	-35°F -37°C			
Santoprene[®]: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C			
PVDF:	250°F 121°C	0°F -18°C			
Polypropylene:	180°F 82℃	32°F 0°C			
FKM (Fluorocarbon): Shows good resistance to a wide range of oils and solvents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solution (over 70°F) will attack FKM.	350°F 177℃	-40°F -40°C			
Nitrile: General purpose, oil-resistant. Shows good solvbent, oil, water, and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons, and nitro hydrocarbon.	190°F 88°C	-10°F -23°C			
Neoprene: All purpose. Resistant to vegetable oils. Generally not affected by moderate chemicals, fats, greases, and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters, and nitro hydrocarbons and chlorinated aromatic hydrocarbons.	200°F 93°C	-10°F -23°C			

For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin

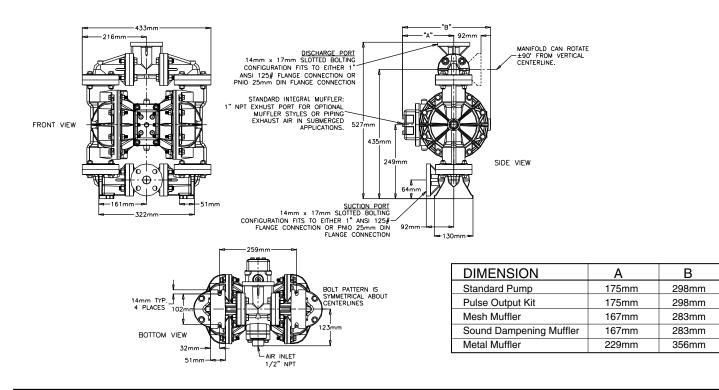
*Definite reduction in service life. **Minimal reduction in service life at ends of range.

Dimensions: S1F Non-Metallic

Dimensions in Inches Dimensional tolerance: ±¹/^a"



Dimensions in Millimeters Dimensional tolerance: ±3mm



Dimensions: S1F Non-Metallic with Spill Containment

