

# Explanation of Pump Nomenclature, S1F Metallic · **Design Level 1. Ball Valve**

MODEL	Pump Brand	Pump Size	Check Valve Type	Design Level	Wetted Material	Diaphragm/ Check Valve Materials	Check Valve Seat	Non-Wetted Material Options	Porting Options	Pump Style	Pump Options	Kit Options	Shipping Weight Ibs. (kg)
S1FB1ABWANS000.	S	1F	В	1	A	В	W	A	N	S	0	00.	28 (13)
S1FB1AIWANS000.	S	1F	В	1	A	I	W	A	Ν	S	0	00.	28 (13)
S1FB1AGTANS000.	S	1F	В	1	A	G	Т	A	N	S	0	00.	28 (13)
S1FB1ANWANS000.	S	1F	В	1	A	N	W	A	N	S	0	00.	28 (13)
S1FB1A1WANS000.	S	1F	В	1	Α	1	W	A	N	S	0	00.	28 (13)
S1FB1ACTANS000.	S	1F	В	1	A	С	Т	A	N	S	0	00.	28 (13)
S1FB1IBWANS000.	S	1F	В	1	I	В	W	A	N	S	0	00.	46 (21)
S1FB1IIWANS000.	S	1F	В	1	1	I	W	A	N	S	0	00.	46 (21)
S1FB1IGTANS000.	S	1F	В	1	I	G	Т	A	N	S	0	00.	46 (21)
S1FB1INWANS000.	S	1F	В	1	I	N	W	A	N	S	0	00.	46 (21)
S1FB1I1WANS000.	S	1F	В	1	I	1	W	A	N	S	0	00.	46 (21)
S1FB1ICTANS000.	S	1F	В	1	I	С	Т	A	N	S	0	00.	46 (21)
S1FB1IIWANS000.	S	1F	В	1	1	I	W	A	N	S	0	00.	46 (21)
S1FB1SBWANS000.	S	1F	В	1	S	В	W	A	N	S	0	00.	43 (20)
S1FB1SGTANS000.	S	1F	В	1	S	G	Т	A	N	S	0	00.	43 (20)
S1FB1SNWANS000.	S	1F	В	1	S	N	W	A	N	S	0	00.	43 (20)
S1FB1S1WANS000.	S	1F	В	1	S	1	W	A	N	S	0	00.	43 (20)
S1FB1SCTANS000.	S	1F	В	1	S	С	Т	A	Ν	S	0	00.	43 (20)

#### **Pump Brand** S= SANDPIPER®

Pump Size 1F=1" **Check Valve Type** B= Ball

**Design Level** 1= Design Level

## Wetted Material

- A= Aluminum I = Cast Iron
- S= Stainless Steel H= Alloy C

#### **Diaphragm Check Valve** Materials

- 1= Santoprene®/Santoprene®
- B= Nitrile/Nitrile
- C= FKM/PTFE
- I = EPDM/Santoprene®
- G= PTFE-Neoprene/PTFE N= Neoprene/Neoprene
- Z= One-Piece Bonded/PTFE

### **Check Valve Seat**

- A= Aluminum
- C= Carbon Steel
- S= Stainless Steel
- T= PTFF
- W=UHMW

#### **Non-Wetted Material Options**

- A= Painted Aluminum
- I = Cast Iron
- Y= Painted Aluminum with
- Stainless Steel Hardware Z= Cast Iron with
- Stainless Steel Hardware

### **Porting Options**

N= NPT Threads B= BSP (Tapered) Threads R= Raised Face 150#

Threaded ANSI Flange

#### **Pump Style** S= Standard

# **Pump Options**

- 0= None
- 1= Sound Dampening Muffler
- 2= Mesh Muffler
- 3= 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
- A 7= Metal Muffler with Grounding Cable

Note: Pumps are only ATEX compliant when ordered with pump options 6 or 7, and kit options 00, P1, E1, E3, E5, E7, E8 or E9.



- **A** 00.= None
- P0.= 10-30VDC Pulse Output Kit A P1.= Intrinsically-Safe 5-30VDC,110/120VAC,
  - 220/240VAC 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
- E3.= Solenoid Kit with 12VDC Explosion-Proof Coil E4.= Solenoid Kit with 110VAC Coil
- E5.= Solenoid Kit with 110VAC, 60 Hz Explosion-Proof Coil
  - E6.= Solenoid Kit with 220VAC Coil
- ▲ E7.= Solenoid Kit with 220VAC, 60 Hz 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





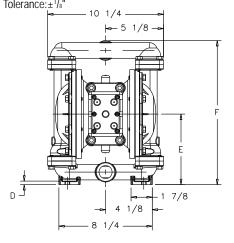
# **CAUTION!** Operating temperature limitations are as follows:

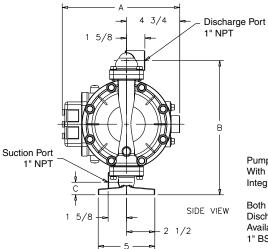
	<b>Operating Temperatures</b>			
Materials	Maximum	Minimum		
<b>Nitrile:</b> General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C		
<b>EPDM:</b> Shows very good water and chemical resistance. Has poor resistance to oil and solvents, but is fair in ketones and alcohols.	280°F 138°C	-40°F -40°C		
<b>Neoprene:</b> All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters, nitro hydrocarbons and chlorinated aromatic hydrocarbons.	200°F 93°C	-10°F -23°C		
Santoprene <sup>®</sup> : Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C		
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℃		
<b>FKM (Fluorocarbon):</b> 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 solutions (over 70°F) will attack FKM.	350°F 177°C	-40°F -40°C		
Polypropylene:	180°F 82°C	32°F 0°C		
UHMW:	180°F 82°C	-35°F -37°C		

For specific applications, always consult The Warren Rupp Chemical Resistance Chart

# **Dimensions: S1F Metallic**

Dimensions in Inches Dimensional Tolerance:  $\pm^{1/_{8}"}$ 





Pump Shown With 530-028-550 Integral Muffler

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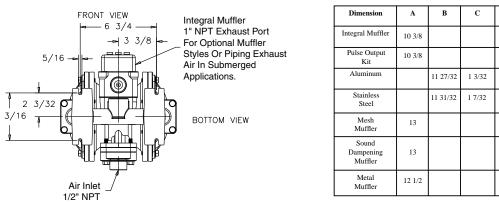
6 11/32

Both Suction And Discharge Ports Are Available With 1" BSP Tapered Connection

F

12 23/32

12 27/32



# Metric Dimensions: S1F Metallic

Dimensions in Millimeters

4

