

**WARREN
RUPP®**

Quality System
ISO9001 Certified

Environmental
Management System
ISO14001 Certified

IDEX
FLUID & METERING



U.S. Patent #5,851,109; 5,996,627;
400,210; 6,241,487
Other U.S. Patents Applied for

SANDPIPER®
A WARREN RUPP PUMP BRAND

**S10 Non-Metallic
Design Level 1
Ball Valve**

**Air-Operated
Double Diaphragm Pump**

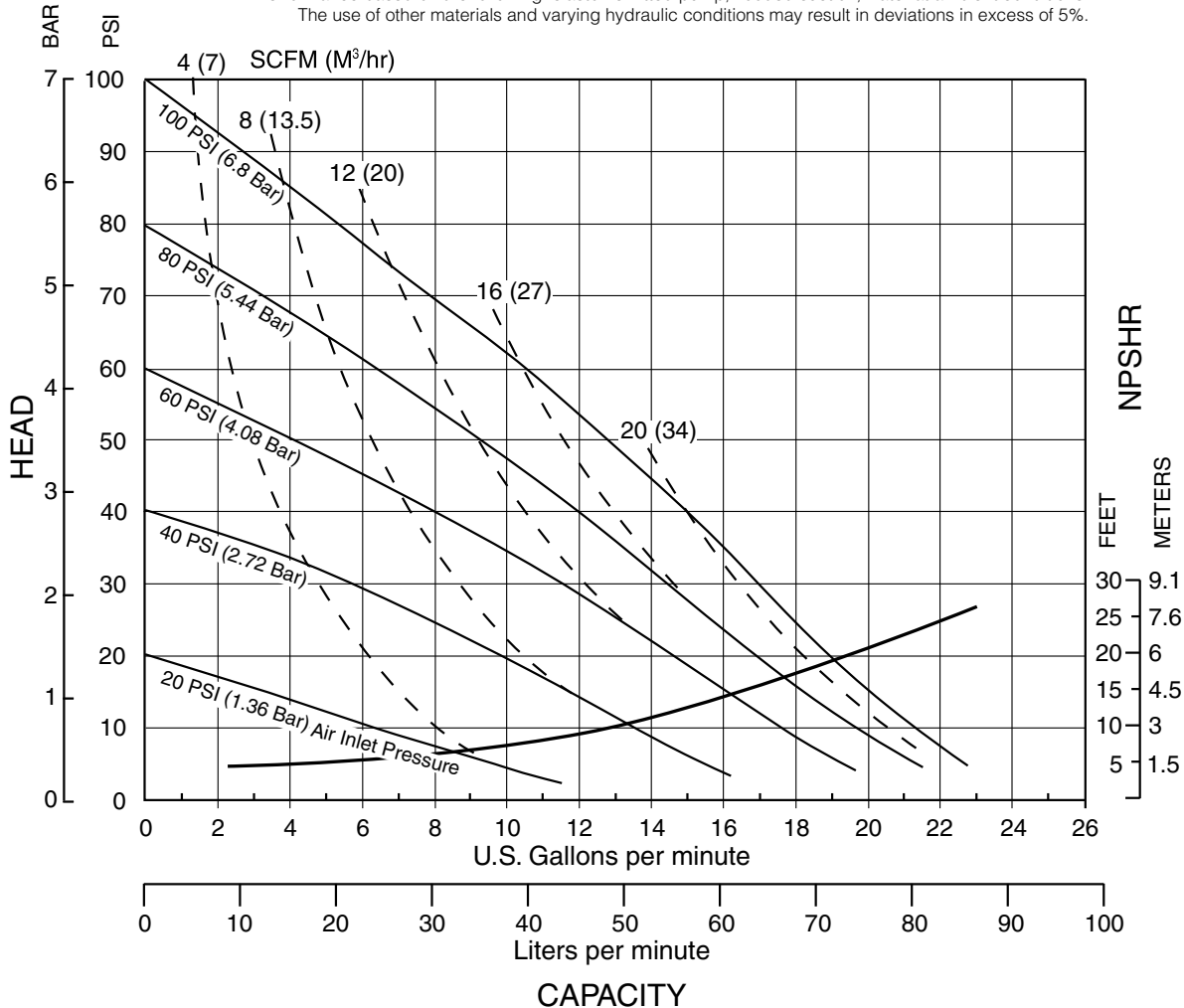
ENGINEERING, PERFORMANCE
& CONSTRUCTION DATA



INTAKE/DISCHARGE PIPE SIZE	CAPACITY	AIR VALVE	SOLIDS-HANDLING	HEADS UP TO	DISPLACEMENT/STROKE
Intake 1" ANSI Flange	Discharge 1" ANSI Flange	No-lube, no-stall design	Up to .15 in. (4mm)	100 psi or 231 ft. of water (7 bar or 70 meters)	.026 Gallon / .098 liter

MODEL S10 Non-Metallic Performance Curve

Performance based on the following: elastomer fitted pump, flooded suction, water at ambient conditions.
The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.



SANDPIPER® pumps are designed to be powered only by compressed air.

Explanation of Pump Nomenclature

S10 Non-Metallic · Design Level 1· Ball Valve

Type	Pump Brand	Pump Size	Check Valve Type	Design Level	Wetted Material	Diaphragm/Check Valve Options	Check Valve Seat	Non-Wetted Material Options	Porting Options	Pump Style	Pump Options	Kit Options	Shipping Weight lbs (kg)
S10B1P1PPAS000.	S	10	B	1	P	1	P	P	A	S	0	00.	19 (9)
S10B1P2PPAS000.	S	10	B	1	P	2	P	P	A	S	0	00.	19 (9)
S10B1K1KPAS000.	S	10	B	1	K	1	K	P	A	S	0	00.	23 (10)
S10B1K2KPAS000.	S	10	B	1	K	2	K	P	A	S	0	00.	23 (10)
S10B1N1NPAS000.	S	10	B	1	N	1	N	P	A	S	0	00.	20 (9)
S10B1N2NPAS000.	S	10	B	1	N	2	N	P	A	S	0	00.	20 (9)

Pump Brand

S= SandPIPER®

Pump Size

10= 1"

Check Valve Type

B= Ball

Design Level

1= Design Level 1

Wetted Material

K= PVDF

N= Nylon

P= Polypropylene

Diaphragm/Check Valve Materials

1= Santoprene/Santoprene

2= Virgin PTFE-Santoprene Backup/Virgin PTFE

7= Santoprene/Nitrile

8= Virgin PTFE-Santoprene Backup/FKM

Z= One-Piece Bonded/PTFE

Check Valve Seat

K= PVDF

N= Nylon

P= Polypropylene

Non-Wetted Material Options

P= Polypropylene

I= Polypropylene with PTFE Hardware

Porting Options

A= ANSI Flange

Pump Style

S= Standard

Pump Options

0= None

1= Sound Dampening Muffler

2= Mesh Muffler

6= Metal Muffler

Kit Options

00.= None

P0.= 10-30VDC Pulse Output Kit

P1.= Intrinsically-Safe 5-30VDC, 110/120VAC, 220/240VAC Pulse Output Kit

P2.= 110/120 or 220/240VAC Pulse Output Kit

E0.= Solenoid Kit w/24VDC Coil

E1.= Solenoid Kit 24VDC Explosion-Proof Coil

E2.= Solenoid Kit w/24VAC/12VDC Coil

E3.= Solenoid Kit w/12VDC Explosion-Proof Coil

E4.= Solenoid Kit w/110VAC Coil

E5.= Solenoid Kit w/110VAC 60 Hz Explosion-Proof Coil

E6.= Solenoid Kit w/220VAC Coil

E7.= Solenoid Kit w/220VAC 60 Hz Explosion-Proof Coil

E8.= Solenoid Kit w/110VAC 50 Hz Explosion-Proof Coil

E9.= Solenoid Kit w/230VAC 50 Hz Explosion-Proof Coil

SP= Stroke Indicator Pins



CAUTION! Operating temperature limitations are as follows:

Materials	Operating Temperatures		
	Maximum*	Minimum*	Optimum**
Santoprene®: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C	50°F to 212°F 10°C to 100°C
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	50°F to 212°F 10°C to 100°C
PVDF:	250°F 121°C	0°F -18°C	
Polypropylene:	180°F 82°C	32°F 0°C	
Polyutethane:	210°F 99°C	-40°F -40°C	-40°F to 210°F -40°C to 99°C
Nylon:	180°F 82°C	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 solutions (over 70°F) will attack FKM.	350°F 177°C	-40°F -40°C	

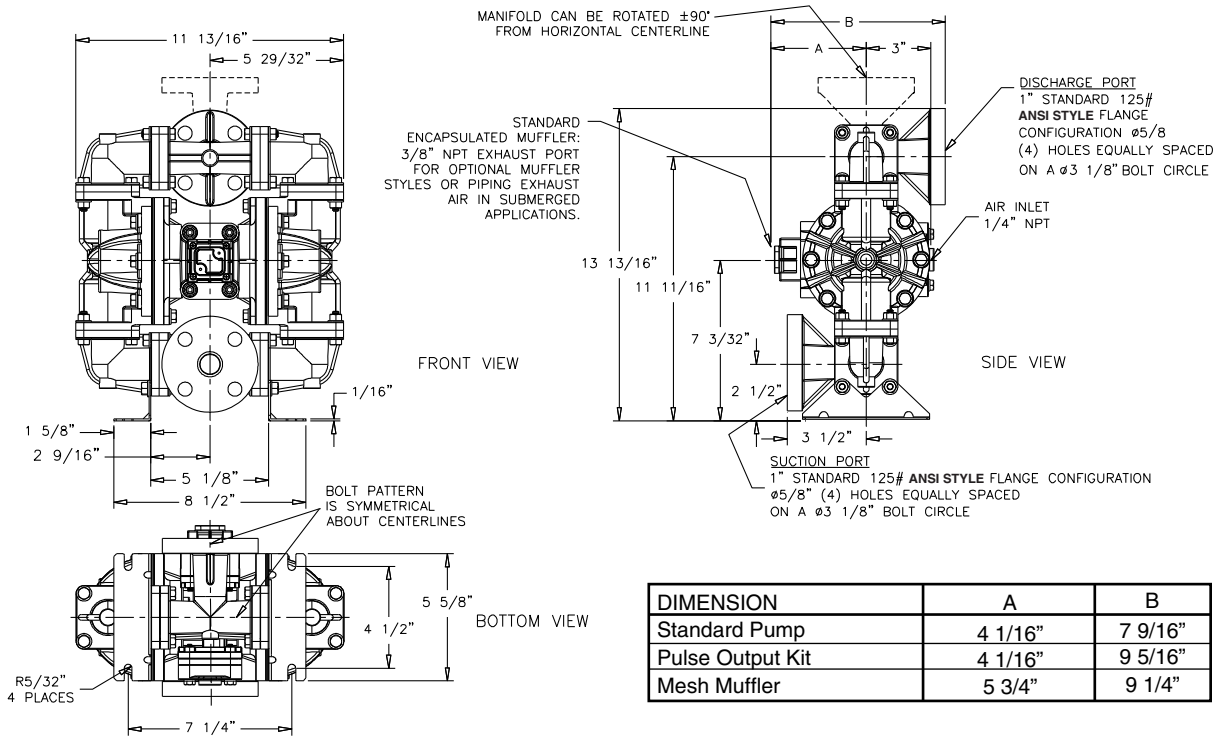
For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin

*Definite reduction in service life.

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

Dimensions: S10 Non-Metallic

Dimensions in Inches
Dimensional Tolerance: $\pm 1/8"$



Dimensions in Millimeters
Dimensional Tolerance: ± 3 mm

