WARREN RUPP®

SANDPIPER®
A WARREN RUPP PUMP BRAND

Quality System
ISO9001 Certified

Environmental
Management System
ISO14001 Certified

IDEX CORPORATION

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

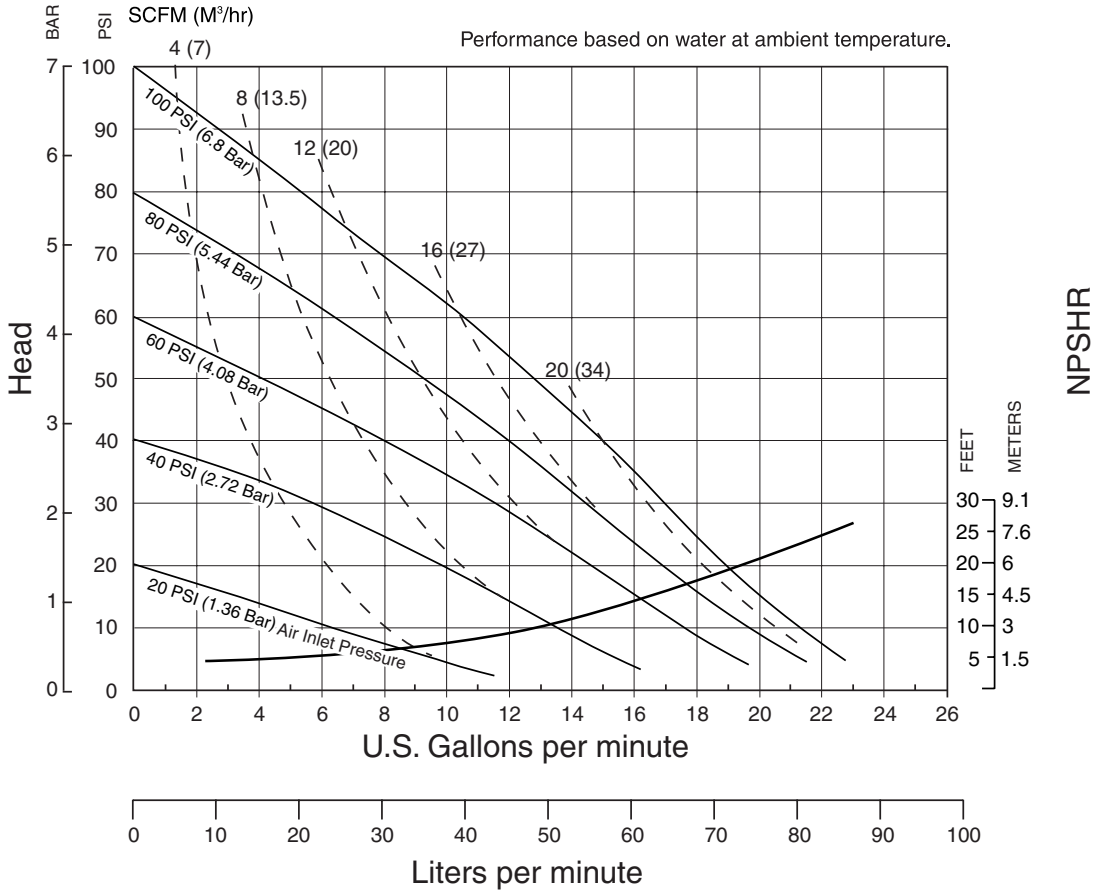
CE

S07 Non-Metallic Design Level 1 Ball Valve

Air-Powered Double-Diaphragm Pump

ENGINEERING, PERFORMANCE
& CONSTRUCTION DATA

INTAKE/DISCHARGE PIPE SIZE		CAPACITY	AIR VALVE	SOLIDS-HANDLING	HEADS UP TO	DISPLACEMENT/STROKE
Intake	Discharge	0 to 23 gallons per minute	No-lube, no-stall	Up to .15 in. (4mm)	100 psi or 231 ft. of water	.026 Gallon / .098 liter
¾" NPTF(BSP)	1½" NPTM (BSP)	(0 to 87 liters per minute)	design		(7 bar or 70 meters)	



CAPACITY

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

Explanation of Pump Nomenclature

S07 Non-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	Shipping Kit Options	Weight lbs. (kg)
S07B1P1PPNS000.	S	07	B	1	P	1	P	P	N	S	0	00.	17 (8)
S07B1P2PPNS000.	S	07	B	1	P	2	P	P	N	S	0	00.	17 (8)
S07B1K1KPNS000.	S	07	B	1	K	1	K	P	N	S	0	00.	21 (9.5)
S07B1K2KPNS000.	S	07	B	1	K	2	K	P	N	S	0	00.	21 (9.5)
S07B1N1NPNS000.	S	07	B	1	N	1	N	P	N	S	0	00.	18 (9)
S07B1N2NPNS000.	S	07	B	1	N	2	N	P	N	S	0	00.	18 (9)
S07T1P7PPBS000.	S	07	T	1	P	7	P	P	B	S	0	00.	21 (9.5)
S07T1P8PPBS000.	S	07	T	1	P	8	P	P	B	S	0	00.	21 (9.5)
S07T1P7PPNS000.	S	07	B	1	P	7	P	P	N	S	0	00.	17 (8)
S07T1P8PPNS000.	S	07	B	1	P	8	P	P	N	S	0	00.	17 (8)
S07B1P1PPBS000.	S	07	B	1	P	1	P	P	B	S	0	00.	17 (8)
S07B1P2PPBS000.	S	07	B	1	P	2	P	P	B	S	0	00.	17 (8)
S07B1K1KPBS000.	S	07	B	1	K	1	K	P	B	S	0	00.	21 (9.5)
S07B1K2KPNS000.	S	07	B	1	K	2	K	P	B	S	0	00.	21 (9.5)
S07B1N1NPBS000.	S	07	B	1	N	1	N	P	B	S	0	00.	18 (9)
S07B1N2NPBS000.	S	07	B	1	N	2	N	P	B	S	0	00.	18 (9)

Pump Brand
S= SANDPIPER®

07= 3/4"

B= Ball
T=Trihedral

1= Design Level

K= PVDF
N= Nylon
P= Polypropylene

1= Santoprene/Santoprene
2= Virgin PTFE-Santoprene Backup/Virgin PTFE
7= Santoprene/Buna
8= Virgin PTFE-Santoprene Backup.Viton

K= PVDF
N= Nylon
P= Polypropylene

P= Polypropylene
I= Polypropylene with PTFE Hardware

A= ANSI Flange
N= NPT Threads
1= Dual Porting (NPT)
2= Top Dual Porting (NPT)
3= Bottom Dual Porting (NPT)
4= Dual Porting (BSP)
5= Top Dual Porting (BSP)
6= Bottom Dual Porting (BSP)
B= BSP Threads

S= Standard

0= None
2= Mesh Muffler

00.= None
P0.= 10-30VDC Pulse Otput Kit
P1.= Intrinsically-Safe 10-30VDC Pulse Output Kit
P2.= 110/120 or 220/240VAC Pulse Output Kit
P3.= Intrinsically-Safe 110/120VAC Pulse Output Kit
P4.= Intrinsically-Safe 220/240VAC Pulse Output Kit
E0.= Solenoid Kit with 24VDC Coil
E1.= Solenoid Kit 24VDC Explosion-Proof Coil
E2.= Solenoid Kit with 24VAC/12VDC Coil
E3.= Solenoid Kit with 24VAC/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
SP= Stroke Indicator Pins

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

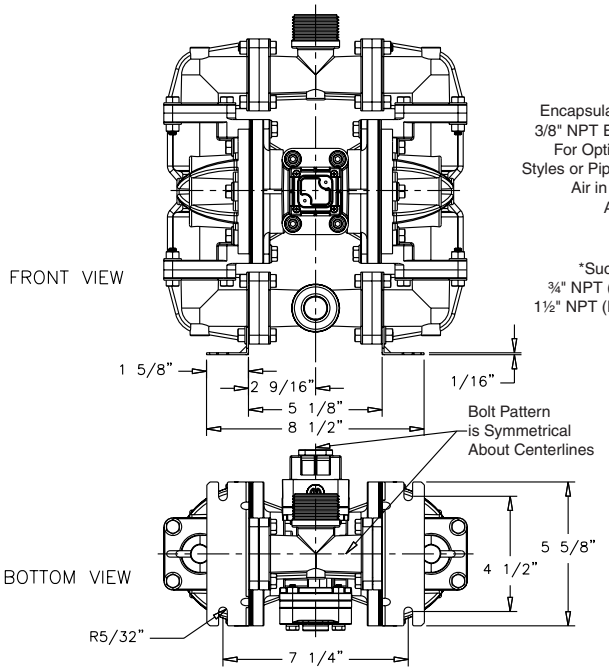
Materials	Operating Temperatures Maximum*	Minimum*	Optimum**
Santoprene® Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	212°F 100°C	-10°F -23°C	50°F to 212°F 10°C to 100°C
Virgin PTFE Chemically inert, virtually impervious. Very 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.	212°F 100°C	-35°F -37°C	50°F to 212°F 10°C to 100°C
PVDF	200°F -93°C	-10°F -13°C	
Polypropylene	150°F 65°C	-40°F 5°C	
Polyutethane	210°F 99°C	-40°F -40°C	-40°F to 210°F -40°C to 99°C
Nylon	120°F 48°C	32°F 0°C	

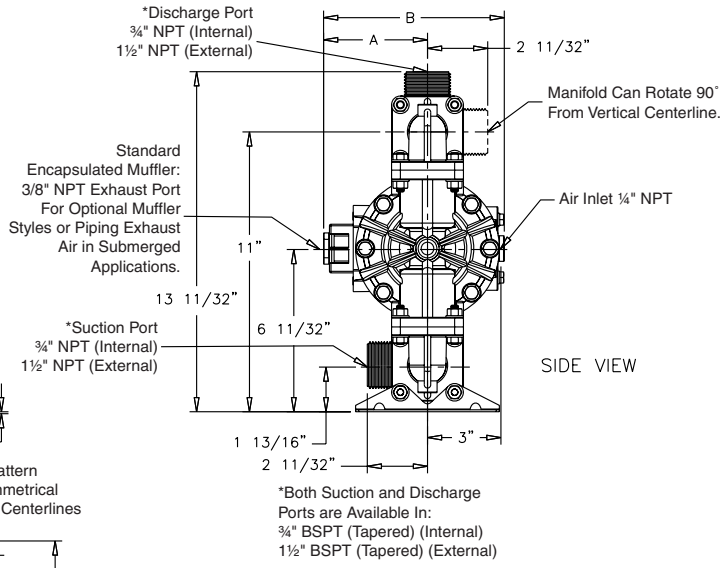
For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin

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

Dimensions: S07 Non-Metallic

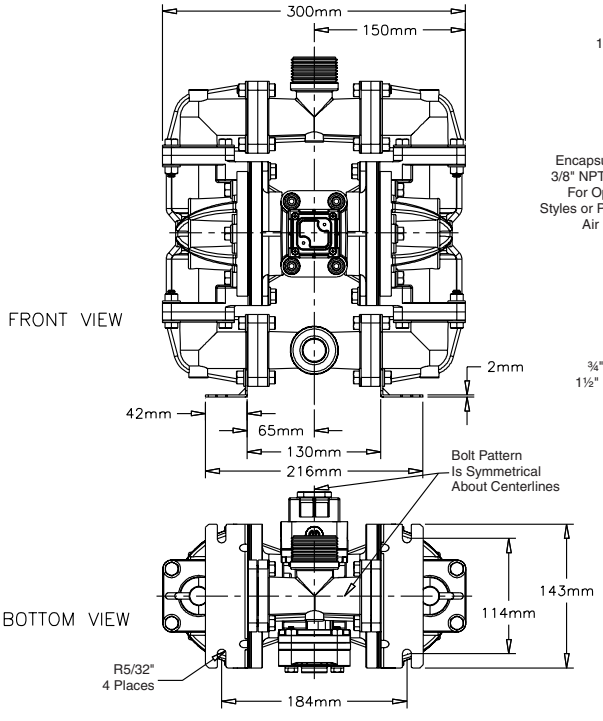
Dimensions in Inches
Dimensional Tolerance:±1/8"

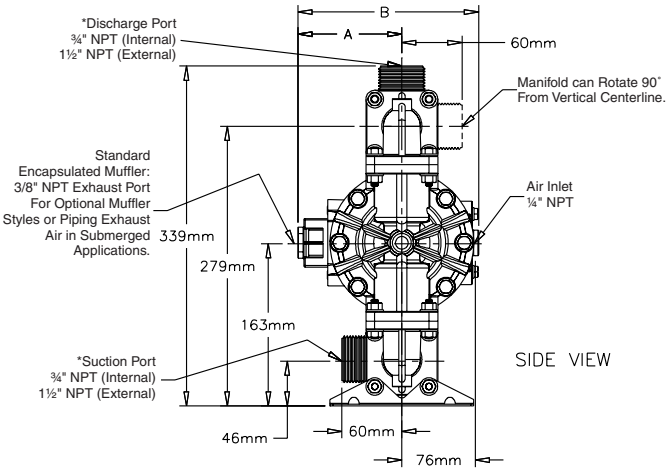




DIMENSION	A	B
Standard Pump	4 1/16"	7 1/16"
Pulse Output Kit	5 13/16"	8 13/16"
Mesh Muffler	5 3/4"	8 3/4"

Dimensions in Millimeters
Dimensional Tolerance:± 3mm





DIMENSION	A	B
Standard Pump	103mm	179mm
Pulse Output Kit	148mm	224mm
Mesh Muffler	146mm	222mm