

Quality System ISO9001 Certified

Environmental Management System ISO14001 Certified



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



S07 Non-Metallic Design Level 1 Ball Valve

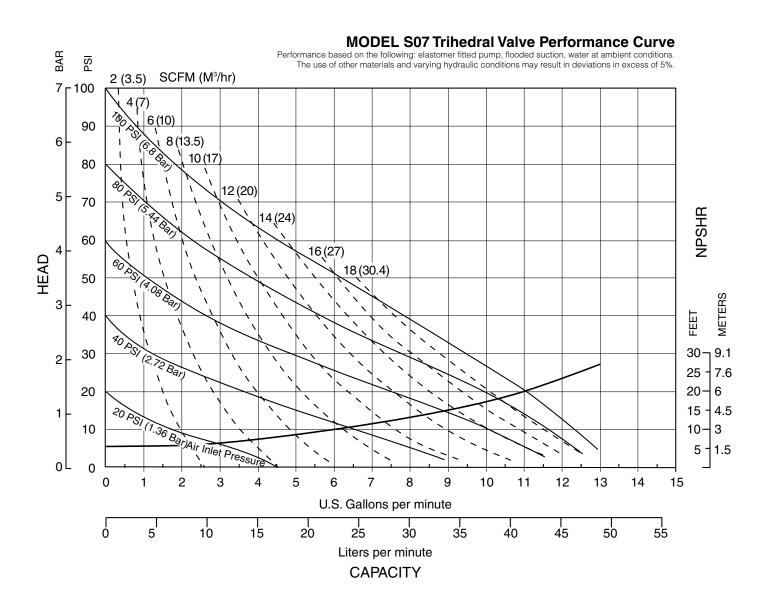
Air-Operated Double Diaphragm Pump

ENGINEERING, PERFORMANCE & CONSTRUCTION DATA

INTAKE/DISCHARGE PIPE SIZE Internal Threads 3/4" NPT or 3/4" BSP Tapered NET Threads 11/2" NPT or 11/2" BSP Tapered	CAPACITY 0 to 23 gallons per minute (0 to 87 liters per minute)	AIR VALVE No-lube, no-stall design	SOLIDS-HANDLING Ball Valve S07B - Up to .15 in.(4mm, Trihedral Valve S07T - Up tp .36in (9.1n Diameter or .16in² area (10.3cm²)		DISPLACEMENT/STROK .026 Gallon / .098 liter		
7 - 100 70 90 6 80 80 80 80 80 80 80	Performance based of	on the following: elast materials and varying and varying the following: elast materials and elast mate	re Non-Metallic Perfetomer fitted pump, flooded suction, ng hydraulic conditions may result in 20 (34)	water at ambient conditions in deviations in excess of 5%			
_	1 1	Т	ons per minute		7		
0	10 20		50 60 70 per minute	80 90	100		

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

S07 Non-Metallic Performance Curve, Trihedral Model



Explanation of Pump Nomenclature

S07 Non-Metallic · Design Level 1 · Ball Valve

Туре	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 Ibs (kg)
S07B1P1PPNS000.	S	07	В	1	Р	1	Р	Р	Ν	S	0	00.	17 (8)
S07B1P2PPNS000.	S	07	В	1	Р	2	Р	Р	N	S	0	00.	17 (8)
S07B1K1KPNS000.	S	07	В	1	K	1	K	Р	N	S	0	00.	21 (9.5)
S07B1K2KPNS000.	S	07	В	1	K	2	K	Р	N	S	0	00.	21 (9.5)
S07B1N1NPNS000.	S	07	В	1	N	1	N	Р	N	S	0	00.	18 (9)
S07B1N2NPNS000.	S	07	В	1	N	2	N	Р	N	S	0	00.	18 (9)
S07T1P7PPNS000.	S	07	Т	1	Р	7	Р	Р	N	S	0	00.	17 (8)
S07T1P8PPNS000.	S	07	Т	1	Р	8	Р	Р	N	S	0	00.	17 (8)
S07T1PBPPNS000.	S	07	Т	1	Р	В	Р	Р	N	S	0	00.	17 (8)
S07B1P1PPBS000.	S	07	В	1	Р	1	Р	Р	В	S	0	00.	17 (8)
S07B1P2PPBS000.	S	07	В	1	Р	2	Р	Р	В	S	0	00.	17 (8)
S07B1K1KPBS000.	S	07	В	1	K	1	K	Р	В	S	0	00.	21 (9.5)
S07B1K2KPNS000.	S	07	В	1	K	2	K	Р	В	S	0	00.	21 (9.5)
S07B1N1NPBS000.	S	07	В	1	N	1	N	Р	В	S	0	00.	18 (9)
S07B1N2NPBS000.	S	07	В	1	N	2	N	Р	В	S	0	00.	18 (9)
S07T1P7PPBS000.	S	07	T	1	Р	7	Р	Р	В	S	0	00.	21 (9.5)
S07T1P8PPBS000.	S	07	Т	1	Р	8	Р	Р	В	S	0	00.	21 (9.5)
S07T1PBPPBS000.	S	07	Т	1	Р	В	Р	Р	В	S	0	00.	21 (9.5)

Pump Brand

S= SANDPIPER®

Pump Size

07= 3/4"

Check Valve Type

B= Ball

T= Tihedral

Design Level

1= Design Level 1

Wetted Material

K= PVDF

N= Nylon

P= Polypropylene

Daiphragm/Check Valve Materials

1= Santoprene/Santoprene

Virgin PTFE-Santoprene Backup/Virgin PTFE

7= Santoprene/Nitrile

8= Virgin PTFE-Santoprene Backup/FKM

B= Nitrile/Nitrile

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 N= NPT Threads

1= Dual Porting (NPT)

2= Top Dual Porting (NPT)

3= Bottom Dual Porting (NPT)

B= BSP Threads (tapered)

4= Dual Porting (BSP) (tapered)

5= Top Dual Porting (BSP) (tapered)

6= Bottom Dual Porting (BSP) (tapered)

Pump Style

S= Standard

Pump Options

0= None

1= Sound Dampening

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



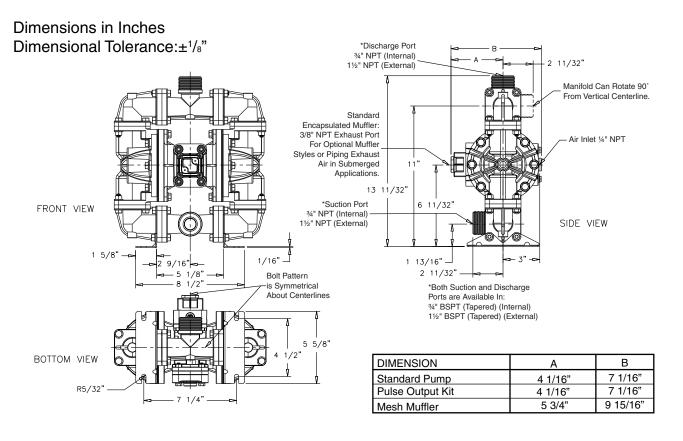
A CAUTION! Operating temperature limitations are as follows:

Materials	Operating Temperatures				
IVIALCIIAIS	Maximum*	Minimum*			
Santoprene®: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-10°F -23°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.	-35°F 104°C	-37°C			
PVDF:	250°F 121°C	0°F -18°C			
Polypropylene:	180°F 82°C	32°F 0°C			
Nylon:	180°F 82°C	32°F 0°C			
Nitrile: General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be usedwith highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°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: S07 Non-Metallic



Dimensions in Millimeters Dimensional Tolerance:± 3mm

