S30 METALLIC PUMP **TECHNICAL DATA SHEET**

SERIES

STANDARD DUTY BALL VALVE PUMPS

Offering the widest range of performance and application capabilities

PERFORMANCE

SUCTION / DISCHARGE PORT SIZE

- 3" NPT or 3" BSP Tapered
- 3" ANSI Flange or 3" DIN Flange

CAPACITY

0 to 285 gallons per minute (0 to 1,078 LPM)

AIR DISTRIBUTION VALVE

· No-lube, no-stall design

SOLIDS-HANDLING

· Up to .38 in. (9.65mm)

HEADS UP TO

125 psi or 289 ft. of water (8.6 Kg/cm2 or 86 meters)

MAXIMUM OPERATING PRESSURE

125 psi (8.6 bar)

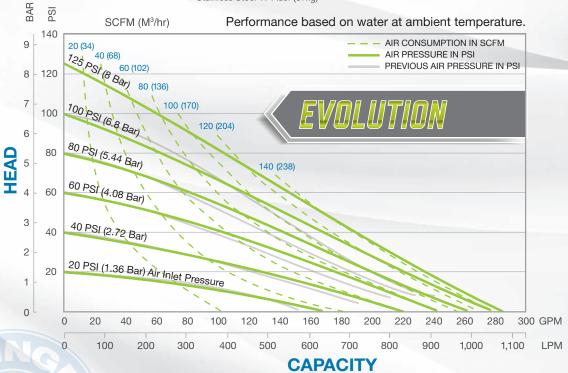
DISPLACEMENT/STROKE

· 1.00 Gallon / 3.79 liter

WEIGHTS

- Aluminum 116 lbs. (53kg)
- Cast Iron 215 lbs. (98kg)
- Stainless Steel 194 lbs. (87kg)







Tel: 866-777-6060

Fax: 866-777-6383

5 YEAR LIMITED PRODUCT WARRANTY

5 Year Guarantee for defects in material or workmanship. See sandpiperpump.com/content/warranty-certifications for complete warranty, including terms and conditions, limitations and exclusions.



USE ONLY GENUINE SANDPIPER PARTS

All certification, standards, guarantees & warranties originally supplied with this pump will be invalidated by the use of service parts not identified as "Genuine SANDPIPER Parts."



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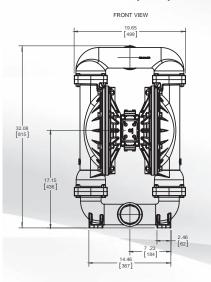


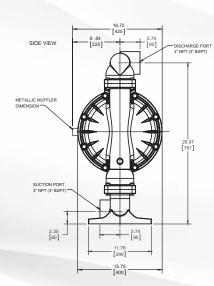


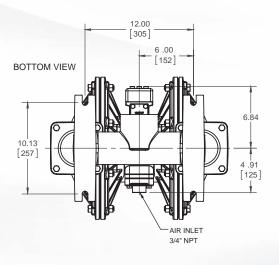
DIMENSIONS

S30 Metallic, Threaded Ports

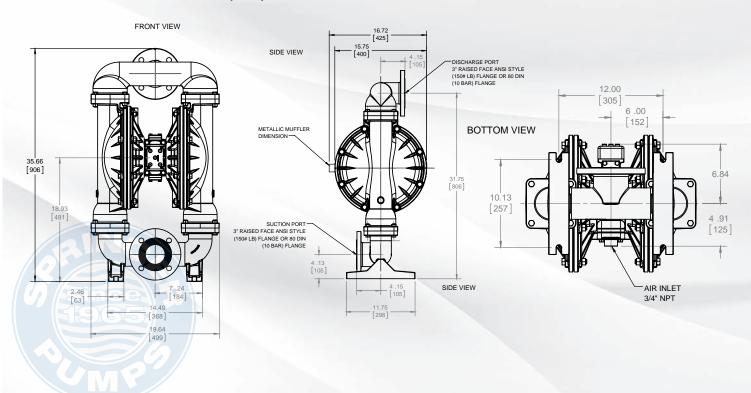
Dimensional Tolerance: ±1/8" [±3mm]







S30 Metallic, Flanged PortsDimensions in Inches. Dimensional Tolerance:±1/8" [±3mm]





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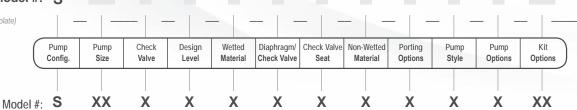
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Springer Pumps, LLC

Website: www.springerpumps.com Int'l: +001 267 404 2910

EXPLANATION OF PUMP NOMENCLATURE

Your Model #: S pump nameplate)



PUMP BRAND

SANDPIPER®

PUMP SIZE

30 3"

CHECK VALVE TYPE

DESIGN LEVEL

Design Level

WETTED MATERIAL

- Aluminum Cast Iron
- s
- Stainless Steel Allov C н
- Unpainted Aluminum Χ

DIAPHRAGM/CHECK VALVE MATERIALS

- Santoprene/Santoprene
- PTFE-Santoprene/PTFE 2
- В Nitrile/Nitrile
- C FKM/PTFE EPDM/EPDM
- EPDM/Santoprene
- PTFE-Neoprene/PTFE

M Santoprene/PTFE

Neoprene/Neoprene

CHECK VALVE SEAT

- Aluminum
- В Nitrile
- C Carbon Steel
- Е **EPDM**
- Neoprene Stainless Steel s
- **PTFE**
- FKM
- w **UHMW** Polyethylene

NON-WETTED MATERIAL OPTIONS

- Painted Aluminum
- Cast Iron
- Painted Aluminum w/PTFE
- Coated Hardware
- Stainless Steel with
- Stainless Steel Hardware Painted Aluminum with
- Stainless Steel Hardware
- Cast Iron with Stainless Steel Hardware

PORTING OPTIONS

- 150# Raised Face 3" ANSI Flange (Integral Manifold)
- 80 DIN Flange (Integral Manifold)
- NPT Threads
- BSP (Tapered) Threads В

PUMP STYLE

Standard

PUMP OPTIONS

- None
- Metal Muffler

KIT OPTIONS

- 00. None
- 10.30VDC Pulse Output Kit Intrinsically-Safe 5.30VDC,
- 110/120VAC 220/240 VAC Pulse Output Kit
- 110/120 or 220/240VAC Pulse Output Kit
- Solenoid Kit with 24VDC Coil
- Solenoid Kit with 24VDC Explosion-Proof Coil
- Solenoid Kit with 24VAC/12VDC Coil
- Solenoid Kit with 12VDC Explosion-Proof Coil

E4. Solenoid Kit with 110VAC Coil

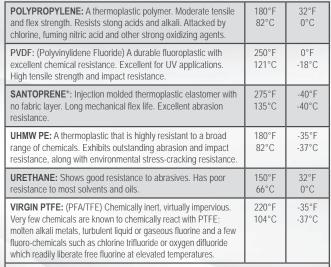
- KIT OPTIONS (CONTINUED) Solenoid Kit with 110VAC
- Explosion-Proof Coil
- Solenoid Kit with 220VAC Coil Solenoid Kit with 220VAC
- Explosion-Proof Coil
- E8. Solenoid Kit with 110VAC, 50 Hz Explosion-Proof Coil
- Solenoid Kit with 230VAC, 50 Hz Explosion-Proof Coil
- Stroke Indicator Pins
- A1. Solenoid Kit with 12 VDC ATEX Compliant Coil
- A2. Solenoid Kit with 24 VDC ATEX Compliant Coil
- A3. Solenoid Kit with 110/120 VAC 50/60 Hz ATEX Compliant Coil
- Solenoid Kit with 220/240 VAC 50/60 Hz ATEX Compliant Coil

MATERIALS

	Material Profile:	Operating Temperatures:	
	CAUTION! Operating temperature limitations are as follows:	Max.	Min.
	CONDUCTIVE ACETAL: Tough, impact resistant, ductile. Good abrasion resistance and low friction surface. Generally inert, with good chemical resistance except for strong acids and oxidizing agents.	190°F 88°C	-20°F -29°C
	EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and alcohols.	280°F 138°C	-40°F -40°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(21°C)) will attack FKM.	350°F 177°C	-40°F -40°C
	HYTREL*: Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C
	NEOPRENE: All purpose. Resistance 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
	NITRILE: 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
	NYLON: 6/6 High strength and toughness over a wide temperature range. Moderate to good resistance to fuels, oils and chemicals.	180°F 82°C	32°F 0°C

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Maximum and Minimum Temperatures are the limits for which these materials can be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges

Metals:

ALLOY C: Equal to ASTM494 CW-12M-1 specification for nickel and nickel alloy.

STAINLESS STEEL: Equal to or exceeding ASTM specification A743 CF-8M for corrosion resistant iron chromium, iron chromium nickel and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.



NOTE: See service manual for ATEX details.

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