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

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)

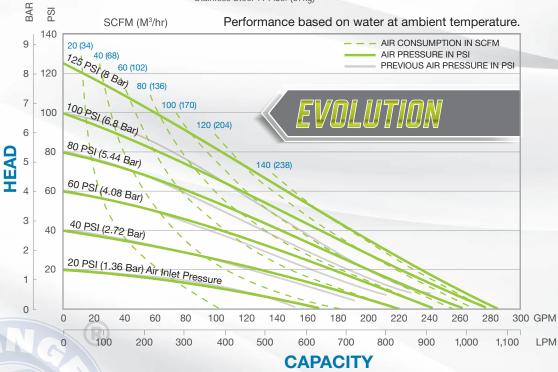
DISPLACEMENT/STROKE

1.00 Gallon / 3.79 liter

WEIGHTS

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







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.



Warren Rupp, Inc. • A Unit of IDEX Corporation 800 N. Main St., Mansfield, Ohio 44902 USA Telephone 419.524.8388 • Fax 419.522.7867



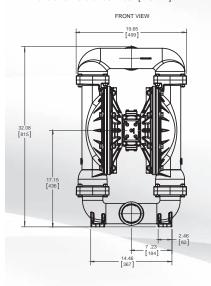


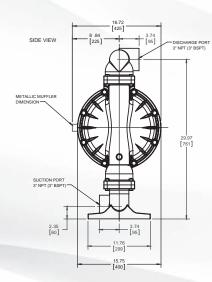


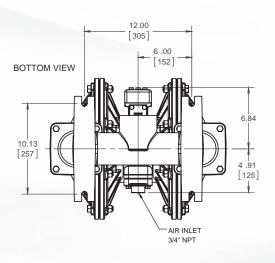


DIMENSIONS

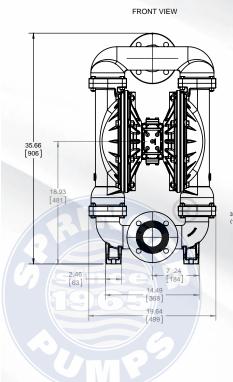
S30 Metallic, Threaded Ports Dimensional Tolerance:±1/8" [±3mm]

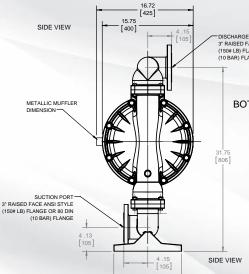




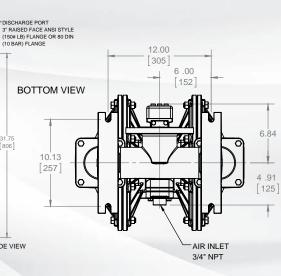


S30 Metallic, Flanged PortsDimensions in Inches. Dimensional Tolerance: ±1/8" [±3mm]





11.75

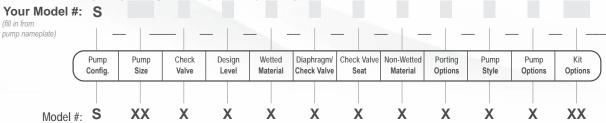




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EXPLANATION OF PUMP NOMENCLATURE



PUMP BRAND

S SANDPIPER®

PUMP SIZE

30 3

CHECK VALVE TYPE

B Ball

DESIGN LEVEL

1 Design Level

WETTED MATERIAL

- A Aluminum

 I Cast Iron
- S Stainless Steel
- H Alloy C
- X Unpainted Aluminum

DIAPHRAGM/CHECKVALVEMATERIALS

- 1 Santoprene/Santoprene
- 2 PTFE-Santoprene/PTFE
- B Nitrile/Nitrile
- C FKM/PTFE
- E EPDM/EPDM
- I EPDM/Santoprene
- G PTFE-Neoprene/PTFE

M Santoprene/PTFE

N Neoprene/Neoprene

CHECK VALVE SEAT

- A Aluminum
- B Nitrile
- C Carbon Steel
- E EPDM
- N Neoprene
- S Stainless Steel
- T PTFE V FKM
- W UHMW Polyethylene

NON-WETTEDMATERIAL OPTIONS

- A Painted Aluminum
- Cast Iron
- J Painted Aluminum w/PTFE
- Coated Hardware
- S Stainless Steel with Stainless Steel Hardware
- Y Painted Aluminum with
- Stainless Steel Hardware

 Z Cast Iron with

Stainless Steel Hardware

PORTING OPTIONS

- A 150# Raised Face 3" ANSI Flange (Integral Manifold)
- D 80 DIN Flange (Integral Manifold)
- N NPT Threads
- B BSP (Tapered) Threads

PUMP STYLE

S Standard

PUMP OPTIONS

- None
- 6 Metal Muffler

KIT OPTIONS

- 00. None
- P0. 10.30VDC Pulse Output Kit
- P1. Intrinsically-Safe 5.30VDC, 110/120VAC 220/240 VAC 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

KIT OPTIONS (CONTINUED)

- E5. Solenoid Kit with 110VAC Explosion-Proof Coil
- E6. Solenoid Kit with 220VAC Coil
- E7. Solenoid Kit with 220VAC 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
- 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
- A4. 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. Go abrasion resistance and low friction surface. Generally inert, with good chemical resistance except for strong acids and oxidizing agents.	ood 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 at halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F(21°C)) will att FKM.	nd 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.	93°C	-10°F -23°C	
NITRILE: General purpose, oil-resistant. Shows good solven oil, water and hydraulic fluid resistance. Should not be used whighly polar solvents like acetone and MEK, ozone, chlorinate hydrocarbons and nitro hydrocarbons.	with 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	

POLYPROPYLENE: A thermoplastic polymer. Moderate tensile and flex strength. Resists stong acids and alkali. Attacked by chlorine, furning nitric acid and other strong oxidizing agents.	180°F 82°C	32°F 0°C
PVDF: (Polyvinylidene Fluoride) A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and impact resistance.	250°F 121°C	0°F -18°C
SANTOPRENE *: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C
UHMW PE: A thermoplastic that is highly resistant to a broad range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	180°F 82°C	-35°F -37°C
URETHANE: Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	150°F 66°C	32°F 0°C
VIRGIN PTFE: (PFA/TFE) Chemically inert, virtually impervious. Very few chemicals are known to chemically react 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

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.

For specific applications, always consult the Chemical Resistance Chart.



NOTE: See service manual for ATEX details.

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