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)

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.”

Performance based on water at ambient temperature.

North America: 866 777 6060
Int’l: +1 267 404 2910
Springer Pumps
Springer Parts
www.springerpumps.com
www.springerparts.com
**DIMENSIONS**

**S30 Metallic, Threaded Ports**

Dimensional Tolerance: ±1/8” [±3mm]

**S30 Metallic, Flanged Ports**

Dimensions in Inches. Dimensional Tolerance: ±1/8” [±3mm]
**EXPLANATION OF PUMP NOMENCLATURE**

**Your Model #: S**

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**PUMP BRAND**
- S SANDPIPER®

**PUMP SIZE**
- 30 3" (60 in from pump nameplate)

**CHECK VALVE TYPE**
- A Ball

**DESIGN LEVEL**
- 1 Design Level

**WETTED MATERIAL**
- A Aluminum
- B Stainless Steel
- C Cast Iron
- D Unpainted Aluminum
- E Nitrile
- F Carbon Steel
- G EPDM
- H Neoprene
- I Stainless Steel
- J PTFE
- K FKM
- L UHWM Polyethylene

**DIAPHRAGM/CHECK VALVE MATERIALS**
- 1 Santoprene/Santoprene
- 2 PTFE/Santoprene/PTFE
- 3 Nitrile/Neoprene
- 4 EPDM/EPDM
- 5 EPDM/Santoprene
- 6 PTFE/Neoprene/PTFE

**MATERIALS**

**Material Profile:**

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

| 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 | -20°F |
| 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. | 68°C | -29°C |
| EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and alcohols. | 250°F | -40°F |
| EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and alcohols. | 138°C | -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 | -40°F |
| 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. | 177°C | -40°C |
| HYTREL®: Good on acids, bases, amines and glycols at room temperatures only. | 220°F | -20°F |
| HYTREL®: Good on acids, bases, amines and glycols at room temperatures only. | 104°C | -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 | -10°F |
| 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 | -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, oxygen, chlorinated hydrocarbons and nitro hydrocarbons. | 190°F | -10°F |
| 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, oxygen, chlorinated hydrocarbons and nitro hydrocarbons. | 88°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 | 32°F |
| NYLON: 6/6 High strength and toughness over a wide temperature range. Moderate to good resistance to fuels, oils and chemicals. | 82°C | 0°C |

**POLYPROPYLENE:** A thermoplastic polymer. Moderate tensile and flex strength. Resists strong acids and alkali. Attacked by chlorine, fuming nitric acid and other strong oxidizing agents.

**PVDV:** (Polyvinylidene Fluoride) A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and impact resistance.

**SANTOPRENE®:** Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.

**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.

**URETHANE:** Shows good resistance to abrasives. Has poor resistance to most solvents and oils.

**VIRGIN PTFE:** (FFA/TFE) Chemically inert, virtually impervious. Very few chemicals are known to chemically react with PTFE, molten alkali metals, turbulent liquid or gaseous fluoro and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluoro at elevated temperatures.

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 ASTM A494 CW-12M-1 specification for nickel and nickel alloy.

**STAINLESS STEEL:** Equal to or exceeding ASTM specification A43 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.

**SP_DS_TemplateDataSheet_0817**

**NOTE:** See service manual for ATEX details.

**www.springerpumps.com**

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