ST11/2 & ST40 METALLIC PUMP **TECHNICAL DATA SHEET**

SFRIFS

CONTAINMENT DUTY BALL VALVE PUMPS

The only complete line of AODD pumps featuring superior fluid containment; protecting your people, environment, and pump.

PERFORMANCE

SUCTION / DISCHARGE PORT SIZE

- ST1½: 1½ (37.5mm) NPT (F)
- ST40: 11/2 (37.5MM) BSP (F)(Tapered))

CAPACITY

- 0 to 106 GPM
- (0 to 400 LPM)

AIR DISTRIBUTION VALVE

No-lube, no-stall design

SOLIDS-HANDLING

- · Occational solids only. Up to 1/4 in. (6.3mm)
- **HEADS UP TO**
 - · 125 psi or 289 ft. of water (8.8 Kg/cm2 or 88 meters)

MAXIMUM OPERATING PRESSURE

• 125 psi (8.6 bar)

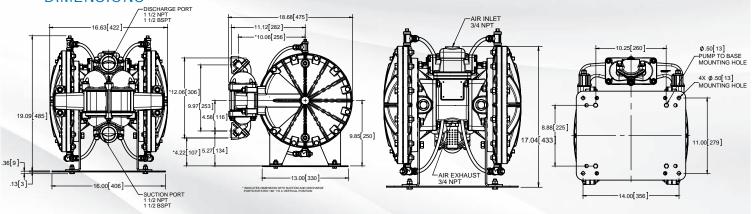
DISPLACEMENT/STROKE

• .37 Gallon / 1.29 liter

WEIGHTS

- Aluminum 99 lbs. (46kg)
- Cast Iron 146 lbs. (66kg)
- Stainless Steel 212 lbs. (95kg)

DIMENSIONS



BAR S

HEAD 80

140 r

120

100

60

40

20

0

125 PSI (8 Bar)

100 PSI (6.8 Bar)

80 PSI (5.44 Bar)

60 PSI (4.08 Bar)

40 PSI (2.72 Bar)

10 20 30 40 50 60 80 90

50

20 PSI (1.36 Bar) Air Inlet Press

100

SCFM (M3/hr)

90(159

200

CAPACITY

150

250

300

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

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AIR CONSUMPTION IN SCFM AIR PRESSURE IN PSI

100 110 GPM

350

400

LPM



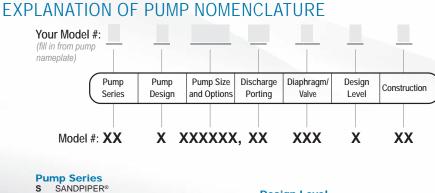
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Design Level

Construction

A Aluminum Wetted, Aluminum Air SI Stainless Steel Wetted, Cast Iron Air

SS Stainless Steel Wetted, Aluminum Air

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Pump Design Spill Containment

Pump Size & Options 11/2" NPT 40 11/2" BSP Tapered

Options

VL Visual Leak Detection Sight Tubes

Discharge Porting Position

S Side

Diaphragm Check Valve Materials GI EPDM Driver Diaphragms, PTFE Pumping

Diaphragms, and PTFE Check Balls

- GN Neoprene Driver Diaphragms, PTFE Pumping Diaphragms, and PTFE Check Balls
- GV FKM Driver Diaphragms, PTFE Pumping
- Diaphragms, and PTFE Check Balls

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. Gener- ally 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 tem- perature 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, fuming 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 corro- sion 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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