S15 NON-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

· 11/2 ANSI Flange or

• 0 to 100 GPM (0 to 378 LPM)

AIR DISTRIBUTION VALVE

· No-lube, no-stall design

SOLIDS-HANDLING

Up to .47 in. (12mm)

HEADS UP TO

100 psi or 231 ft. of water (7 bar or 70 meters)

MAXIMUM OPERATING PRESSURE

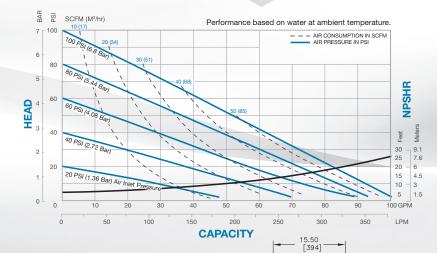
• 100 psi (7 bar)

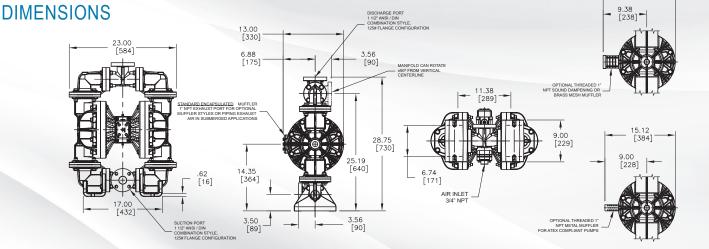
DISPLACEMENT/STROKE

.43 Gallon / 1.63 liter

- Polypropylene 82 lbs. (37kg)
- PVDF 112 lbs. (51kg)
- · Conductive Polypropylene 85 lbs. (38kg)
- Polypropylene Spill Containment 149 lbs. (68kg)
- PVDF Spill Containment 194 lbs. (88kg)









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."





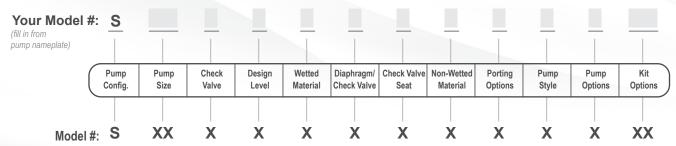








EXPLANATION OF PUMP NOMENCLATURE



PUMP BRAND

SANDPIPER®

PUMP SIZE

15 1 1/2'

CHECK VALVE TYPE Ball

DESIGN LEVEL

Design Level

WETTED MATERIAL

PVDF

Polypropylene

С Conductive Polypropylene

DIAPHRAGM/CHECK VALVE MATERIALS

Santoprene/Santoprene PTFE-Santoprene Backup/PTFE

PTFE Pumping, PTFE-Neoprene Backup Driver/PTFE

Nitrile/Nitrile FKM / PTFE

PTFE-Neoprene Backup/PTFE

Santoprene/PTFE

Neoprene/Neoprene

Urethane/Urethane One-Piece Bonded/PTFE

SANDPIPERPUMP.COM

MATERIALS

CHECK VALVE SEAT

PVDF Polypropylene

NON-WETTED MATERIAL OPTIONS

Carbon Filled Conductive

Polypropylene 40%Glass Filled Polypropylene

40%Glass Filled Polypropylene

w/PTFE Coated Hardware

PORTING OPTIONS

Universal Flange

(Fits ANSI & DĬN)

Dual Porting (ANSI)
Top Dual Porting (ANSI)
Bottom Dual Porting (ANSI)

PUMP STYLE

with Electronic Leak Detection (12-32 VDC) with Electronic Leak Detection (110-120VAC / 220-240 VAC)

with Mechanical Leak Detection

Standard

with Visual Leak Detection

PUMP OPTIONS

0 None

Metal Muffler 6

KIT OPTIONS

None

10.30VDC Pulse Output Kit

Intrinsically-Safe 5.30VDC 110/120VAC 220/240 VAC P1. 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 Solenoid Kit with 110VAC Coil E3.

E4.

Solenoid Kit with 110VAC

Explosion-Proof Coil E6.

Solenoid Kit with 220VAC Coil Solenoid Kit with 220VAC E7. Explosion-Proof Coil

Solenoid Kit with 110VAC, 50 Hz Explosion-Proof Coil Solenoid Kit with 230VAC, 50 Hz

Explosion-Proof Coil

SP. Stroke Indicator Pins

A1. Solenoid Kit with 12 VDC

ATEX Compliant Coil

Solenoid Kit with 24 VDC ATEX Compliant Coil

Solenoid Kit with 110/120 VAC 50/60 Hz ATEX Compliant Coil

Solenoid Kit with 220/240 VAC 50/60 Hz ATEX Compliant Coil

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

Kit			
	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 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.