F10 METALLIC FOOD PROCESSING PUMP TECHNICAL DATA SHEET

SERIES

FDA COMPLIANT PUMPS

For a variety of food processing, pharmaceutical and cosmetic industry applications

PERFORMANCE

SUCTION / DISCHARGE PORT SIZE

1 1/2" Sanitary Clamp

CAPACITY

• 0 to 49 gallons per minute (0 to 185.5 LPM)

AIR DISTRIBUTION VALVE

No-lube, no-stall design

SOLIDS-HANDLING

Up to .125 in. (3.2mm)

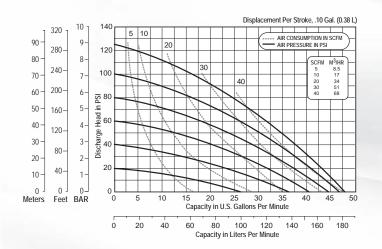
HEADS UP TO

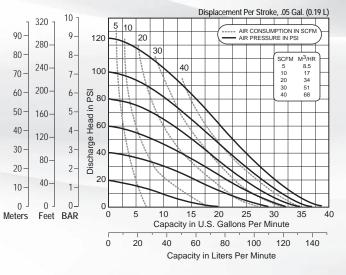
 125 psi or 289 ft. of water (8.6 Kg/cm2 or 86 meters)

- **DISPLACEMENT/STROKE**
- .1 Gallon / .38 liter

WEIGHTS

· Stainless Steel 36 lbs. (16.3kg)





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



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."



and exclusions.

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PIPER

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

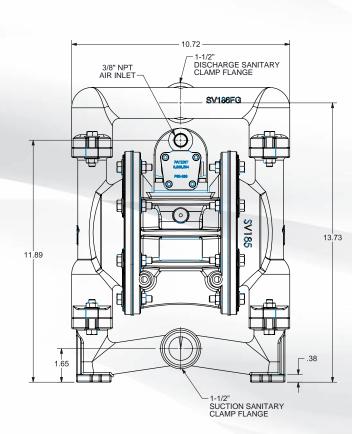


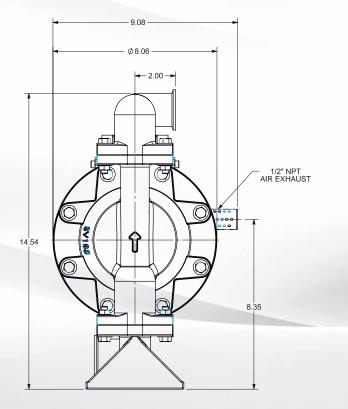
Tel: 866-777-6060 Fax: 866-777-6383 Springer Pumps, LLC

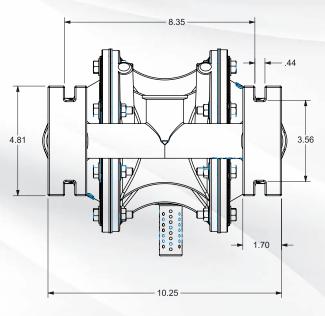
Website: www.springerpumps.com Int'l: +001 267 404 2910

DIMENSIONS

Food Processing Metallic Dimensions in inches (mm dimensions in brackets). The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.







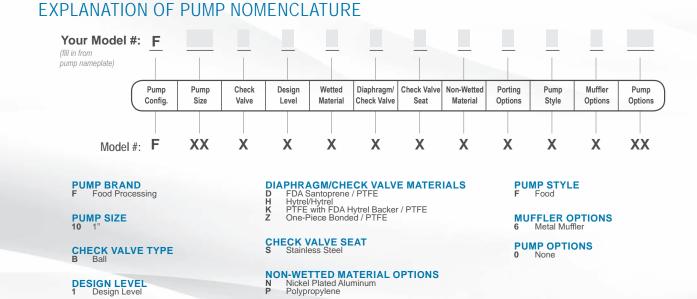


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PORTING OPTIONS T 1 1/2" Sanitary Clamp

MATERIALS

WETTED MATERIAL S Stainless Steel

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 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, 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 the operated. Temperatures coupled with pressure affect the longevity components. Maximum life should not be expected at the extreme temperature ranges.	of diaphrag	gm pump
Metals:		
ALLOY C: Equal to ASTM494 CW-12M-1 specification for nickel a	and nickel a	lloy.
STAINLESS STEEL: Equal to or exceeding ASTM specification A sion resistant iron chromium, iron chromium nickel and nickel base general applications. Commonly referred to as 316 Stainless Stee	ed alloy cas	tings for
For specific applications, always consult	the Chemical F	Resistance Char

NOTE: See service manual for ATEX details.



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