F20 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

2 1/2" Sanitary Clamp

CAPACITY

0 to 185 gallons per minute (0 to 700 LPM)

AIR DISTRIBUTION VALVE

No-lube, no-stall design

SOLIDS-HANDLING

Up to .25 in. (7.6mm)

HEADS UP TO

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

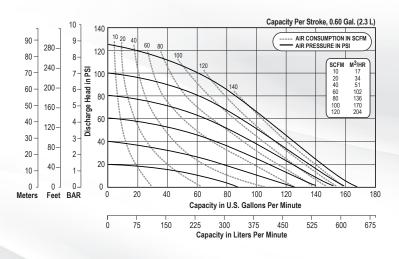
MAXIMUM OPERATING PRESSURE • 125 psi (8.6 bar)

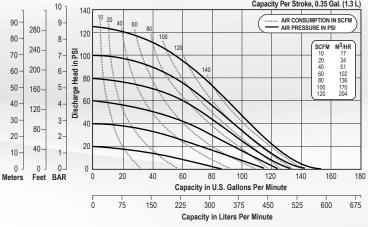
DISPLACEMENT/STROKE

· .53 Gallon / 2 liter

WEIGHTS

Stainless Steel 106 lbs. (48.1kg)





EXCLUSIVE SANDPIPER FEATURE

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

⟨Ex⟩ C ∈ 𝔅[™] EHI *[™]*Hydraulic

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."

SAI GLOBAL

ISO 9001 Certified ISO 14001 Certified

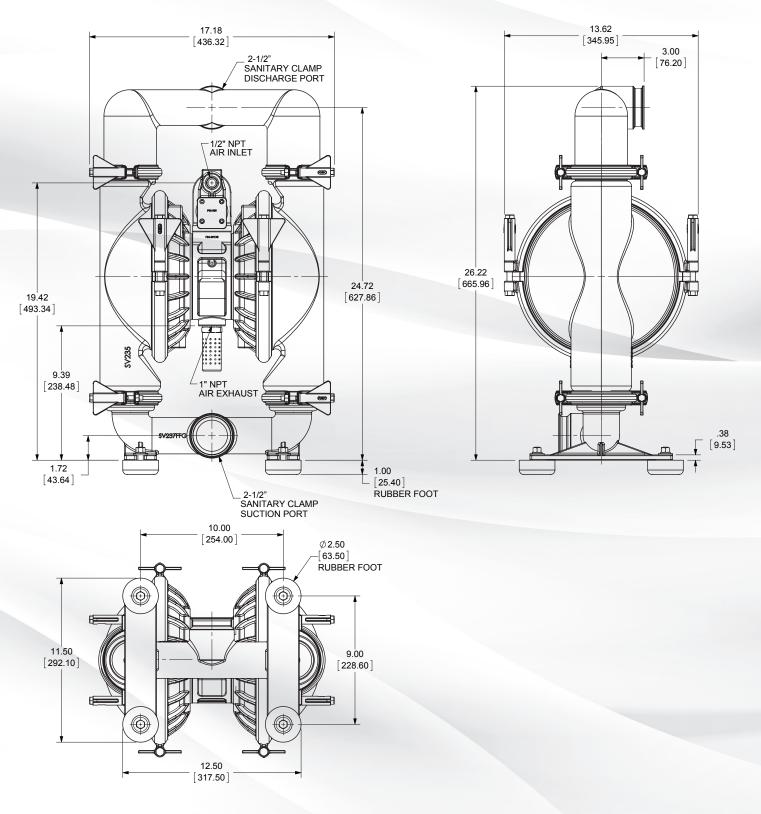


Warren Rupp, Inc. • A Unit of IDEX Corporation 800 N. Main St., Mansfield, Ohio 44902 USA Telephone 419.524.8388 • Fax 419.522.7867

DIMENSIONS

Food Processing Metallic

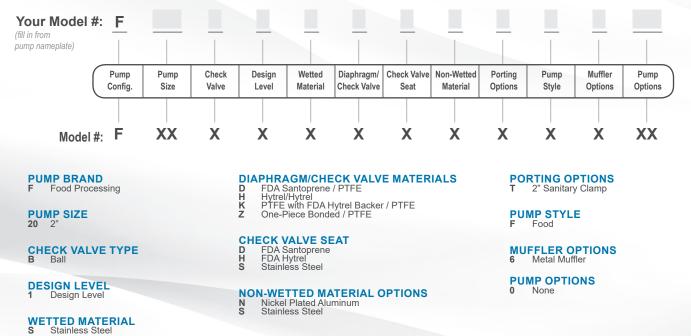
Dimensions in inches (mm dimensions in brackets). The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.





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EXPLANATION OF PUMP NOMENCLATURE



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. 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 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 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	loy.
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 Steel in the pump industry.

NOTE: See service manual for ATEX details.

For specific applications, always consult the Chemical Resistance Chart.



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