F20C METALLIC FOOD PROCESSING PUMP TECHNICAL DATA SHEET



FDA COMPLIANT PUMPS

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

PERFORMANCE

SUCTION / DISCHARGE PORT SIZE

2" Sanitary Clamp

CAPACITY

0 to 179 gallons per minute (0 to 677 LPM)

AIR DISTRIBUTION VALVE

No-lube, no-stall design

SOLIDS-HANDLING

Up to .625 in. (15.9mm)

HEADS UP TO

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

MAXIMUM OPERATING PRESSURE

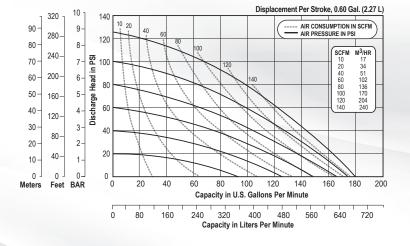
125 psi (8.6 bar)

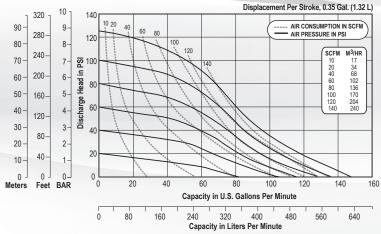
DISPLACEMENT/STROKE

.60 Gallon / 2.27 liter

WEIGHTS

Stainless Steel 125 lbs. (56.7kg)







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.









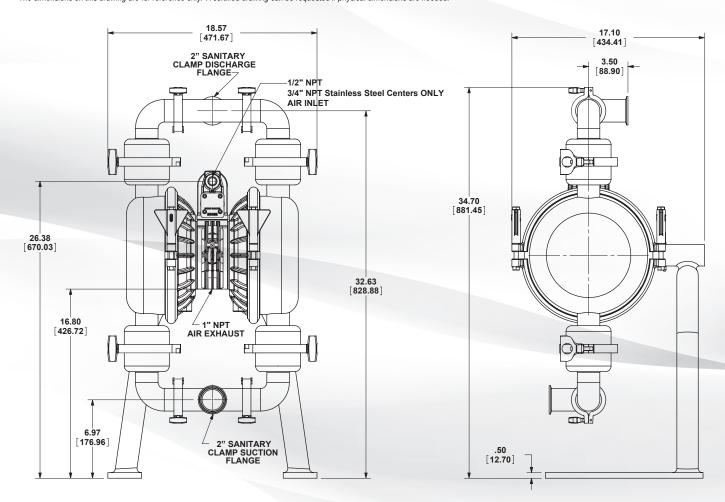


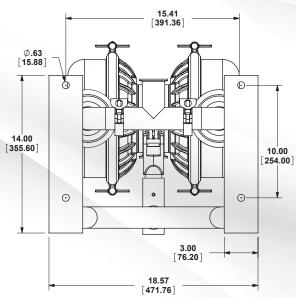


DIMENSIONS

Sanitary Processing Metallic Dimensions in inches (mm dimensions in brackets).

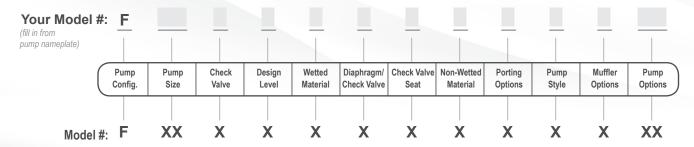
The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.







EXPLANATION OF PUMP NOMENCLATURE



PUMP BRAND F Food Processing

PUMP SIZE 20 2"

CHECK VALVE TYPE B Ball

DESIGN LEVEL Design Level

WETTED MATERIAL Stainless Steel

DIAPHRAGM/CHECK VALVE MATERIALS
D FDA Santoprene / PTFE
H Hytrel/Hytrel
K PTFE with FDA Hytrel Backer / PTFE

One-Piece Bonded / PTFE

CHECK VALVE SEAT

Stainless Steel

NON-WETTED MATERIAL OPTIONS
N Nickel Plated Aluminum
S Stainless Steel

PORTING OPTIONS T 2" Sanitary Clamp

PUMP STYLE Sanitary

MUFFLER OPTIONS Metal Muffler

PUMP OPTIONS

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 temperature range. Moderate to good resistance to fuels, oils and chemicals.	180°F 82°C	32°F 0°C

180°F	32°F
82°C	0°C
250°F	0°F
121°C	-18°C
275°F	-40°F
135°C	-40°C
180°F	-35°F
82°C	-37°C
150°F	32°F
66°C	0°C
220°F	-35°F
104°C	-37°C
	82°C 250°F 121°C 275°F 135°C 180°F 82°C 150°F 66°C 220°F

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.





