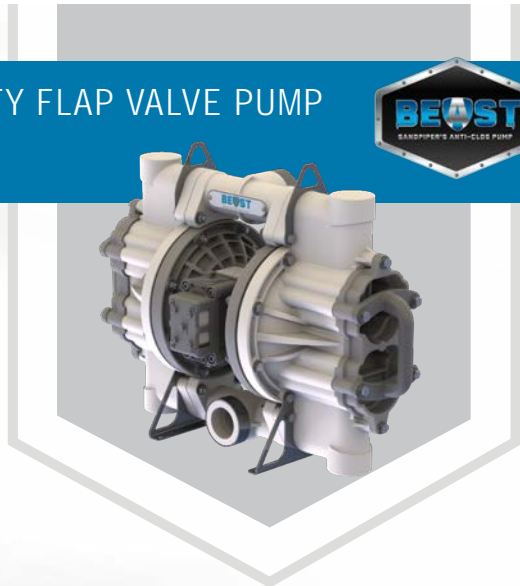


# SANDPIPER BEAST 2" CLOG RESISTANT HEAVY DUTY FLAP VALVE PUMP TECHNICAL DATA SHEET



## SERIES

### BEAST NON-METALLIC HEAVY DUTY FLAP VALVE PUMP

Patent pending, clog resistant flap valve design

## PERFORMANCE

### SUCTION / DISCHARGE PORT SIZE

- 2" NPT (F)
- 2" BSPT (F)
- 2" ANSI / DIN Flange

### CAPACITY

- 0 to 170 GPM (0 to 644 LPM)

### AIR DISTRIBUTION VALVE

- No-lube, no-stall design

### SOLIDS-HANDLING

- Up to 1.8 in. (45.7mm)

### HEADS UP TO

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

### MAXIMUM OPERATING PRESSURE

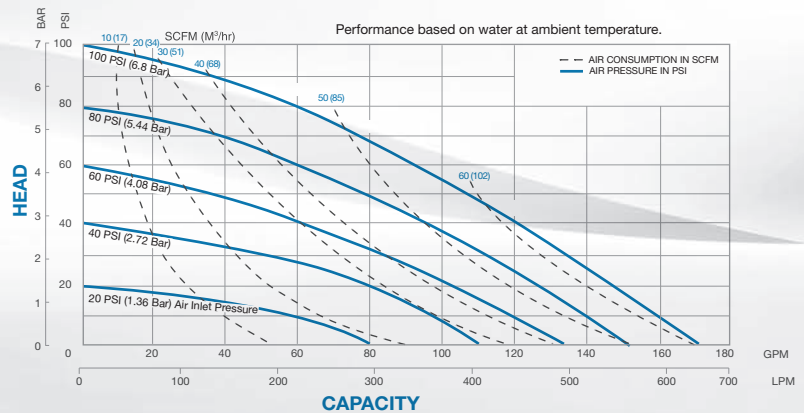
- 100 psi (7 bar)

### DISPLACEMENT/STROKE

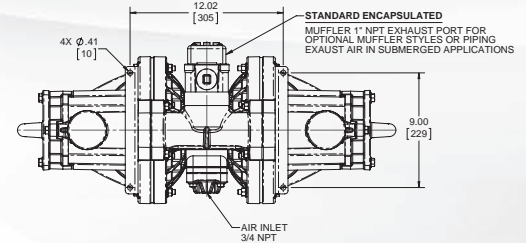
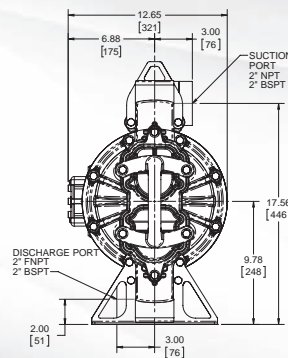
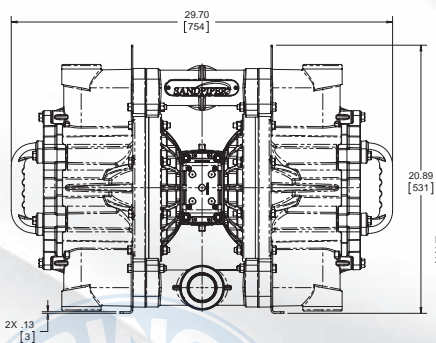
- .50 Gallon / 1.9 liter

### WEIGHTS

- Pump: 58 lbs. (27kg)
- Shipping: 70 lbs. (31.7kg)



## DIMENSIONS



### 5 YEAR LIMITED PRODUCT WARRANTY

5 Year Guarantee for defects in material or workmanship. See [sandpiperpump.com/content/warranty-certifications](http://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."



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](http://www.springerpumps.com)  
Int'l: +001 267 404 2910

# EXPLANATION OF PUMP NOMENCLATURE

**Your Model #:** **SP B 20 F** **0 S S 0** **R 1**  
(fill in from pump nameplate)

Pump Brand	Product Line	Pump Size	Check Valve Type	Wetted Material	Non-Wetted Material	Diaphragm Material	Backup Diaphragm	Check Valve Material	Seat Material	Air Valve	Air Valve Option	Exhaust Option	Port Type	Port Option	Design Level
------------	--------------	-----------	------------------	-----------------	---------------------	--------------------	------------------	----------------------	---------------	-----------	------------------	----------------	-----------	-------------	--------------

### PUMP BRAND

SP SANDPIPER

### PRODUCT LINE

B The Beast Flap

### PUMP SIZE

20 2"

### CHECK VALVE TYPE

F Flap Valve

### WET END MATERIALS

A Aluminum

I Cast Iron

P Polypropylene

S Stainless Steel

### NON-WETTED MATERIAL

A Aluminum

I Cast Iron

P Polypropylene

W White Epoxy Coated Aluminum

### DIAPHRAGM MATERIAL

B Nitrile (Buna)

E EPDM

F FDA Nitrile

N Neoprene

R Santoprene

H Hytrel

V FKM (Viton)

### BACKUP DIAPHRAGM

0 None

### CHECK VALVE MATERIAL

S Stainless Steel

### SEAT MATERIAL

S Stainless Steel

### AIR VALVE

0 SANDPIPER Standard ESADS

### AIR VALVE OPTION

0 None

B Stainless Steel Sleeve & Brass Spool

### EXHAUST OPTION

0 Encapsulated Polypropylene

6 Threaded Metal

### PORT TYPE

B BSPT

N NPT

U Universal ANSI/DIN Flange

### PORT OPTION

R Center Ported

### DESIGN LEVEL

1 Design Level

## MATERIALS

Material Profile:	Operating Temperatures:	
	Max.	Min.
<b>CAUTION!</b> Operating temperature limitations are as follows: <b>CONDUCTIVE ACETAL:</b> 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
<b>EPDM:</b> 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
<b>FKM (FLUOROCARBON):</b> 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
<b>HYTREL®:</b> Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C
<b>NEOPRENE:</b> 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
<b>NITRILE:</b> 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
<b>NYLON:</b> 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

<b>POLYPROPYLENE:</b> A thermoplastic polymer. Moderate tensile and flex strength. Resists strong acids and alkali. Attacked by chlorine, fuming nitric acid and other strong oxidizing agents.	180°F 82°C	32°F 0°C
<b>PVDF:</b> (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
<b>SANTOPRENE®:</b> Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C
<b>UHMW PE:</b> 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
<b>URETHANE:</b> Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	150°F 66°C	32°F 0°C
<b>VIRGIN PTFE:</b> (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.		
<b>Metals:</b>		
<b>ALLOY C:</b> Equal to ASTM494 CW-12M-1 specification for nickel and nickel alloy.		
<b>STAINLESS STEEL:</b> 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.



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

SP\_DS\_BeastNM\_0122

Tel: 866-777-6060  
 Fax: 866-777-6383

Springer Pumps, LLC

Website: [www.springerpumps.com](http://www.springerpumps.com)  
 Int'l: +001 267 404 2910