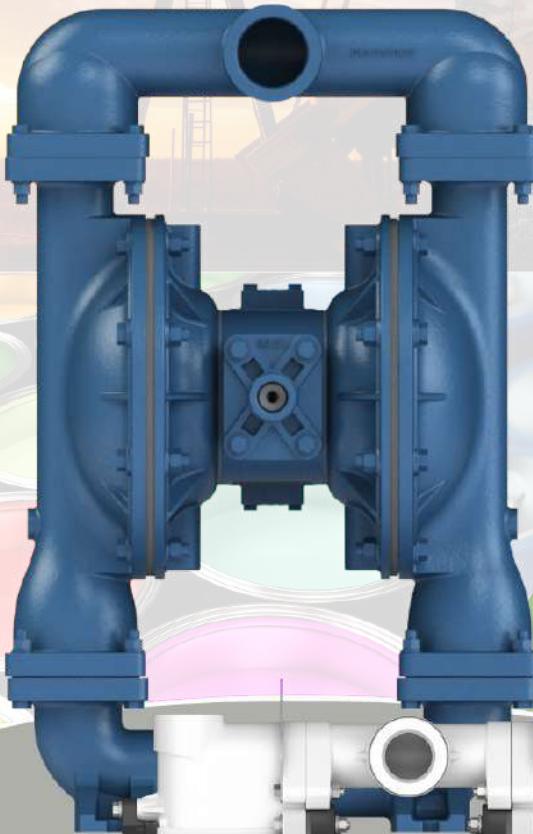


SANDPIPER®

A WARREN RUPP, INC. BRAND | SANDPIPERPUMP.COM



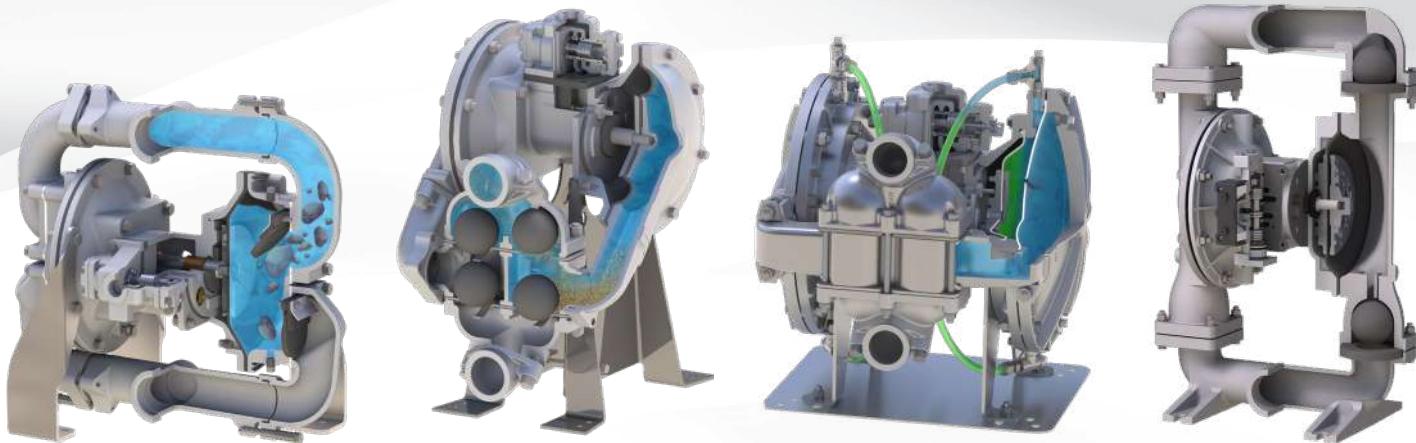
When only the best will do, select **SANDPIPER**.

PRODUCT CATALOG

GOOD. BETTER. **SANDPIPER**®

With a rich history of over 55 years in delivering exceptional Air Operated Double Diaphragm pumping solutions and unparalleled expertise, SANDPIPER has established itself as the best-in-class leader in tackling your toughest and most demanding pumping challenges.

When only the best will do, select SANDPIPER.



Heavy Duty Flap Valve

For fluids containing up to line size solids.

Heavy Duty Ball Valve

For fluids containing settling, suspended & floating solids.

Containment Duty Ball Valve

The only complete line of AODD pumps featuring superior fluid containment; protecting your people, environment and pump.

Standard Duty Ball Valve

These versatile and mobile pumps have the best-in-class flow rates and the lowest air consumption available.

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**VISIT OUR
WEBSITE**



To accommodate the digital landscape, we have refined the catalog information to a more concise format. All pertinent details removed from this catalog are available on our website. Click the QR code to visit www.sandpiperpump.com.

OUR SIGNATURE ENSURES YOUR SUCCESS

SANDPIPER Signature Series AODD pumps are engineered to deliver industry leading durability and performance, even for your most severe applications and environments

SANDPIPER

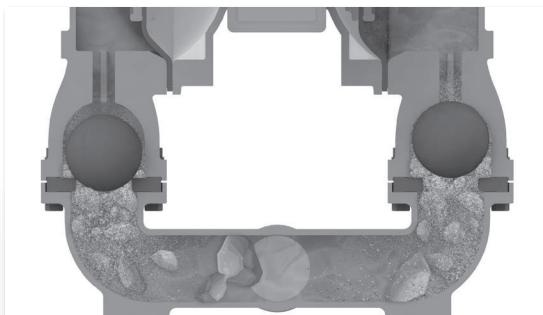
VS

COMPETITION

HEAVY DUTY FLAP VALVE PUMP



Large solids easily pass through pump

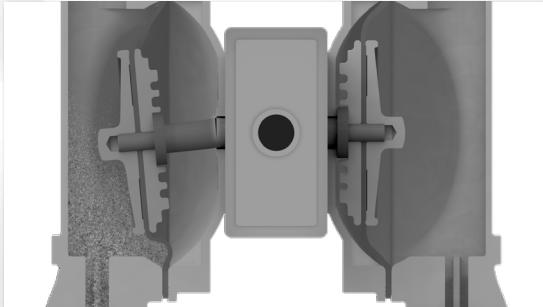


Large solids cannot pass through pump, affecting operation

HEAVY DUTY BALL VALVE PUMP

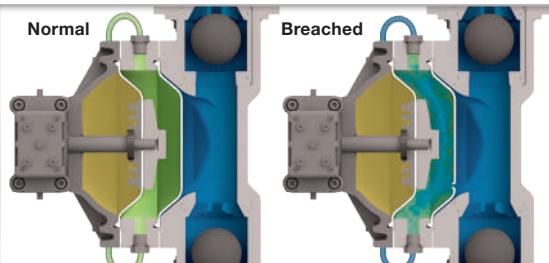


Settling solids easily pass through pump

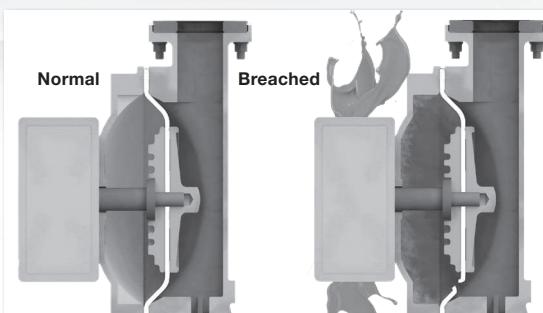


Settling solids collect inside pump, causing damage & affecting operation

CONTAINMENT DUTY PUMP



Contains fluid when diaphragm becomes breached



Fluid escapes to environment when diaphragm becomes breached.

STANDARD DUTY



Overall Highest Performance, Efficiency & Serviceability Available



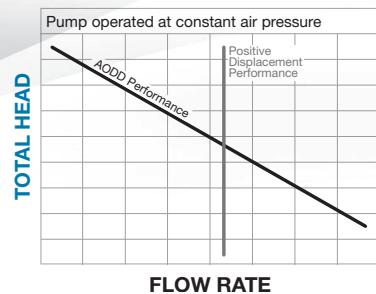
Lower Performance, Efficiency, Reliability & Serviceability

WHY CHOOSE AODD PUMPS

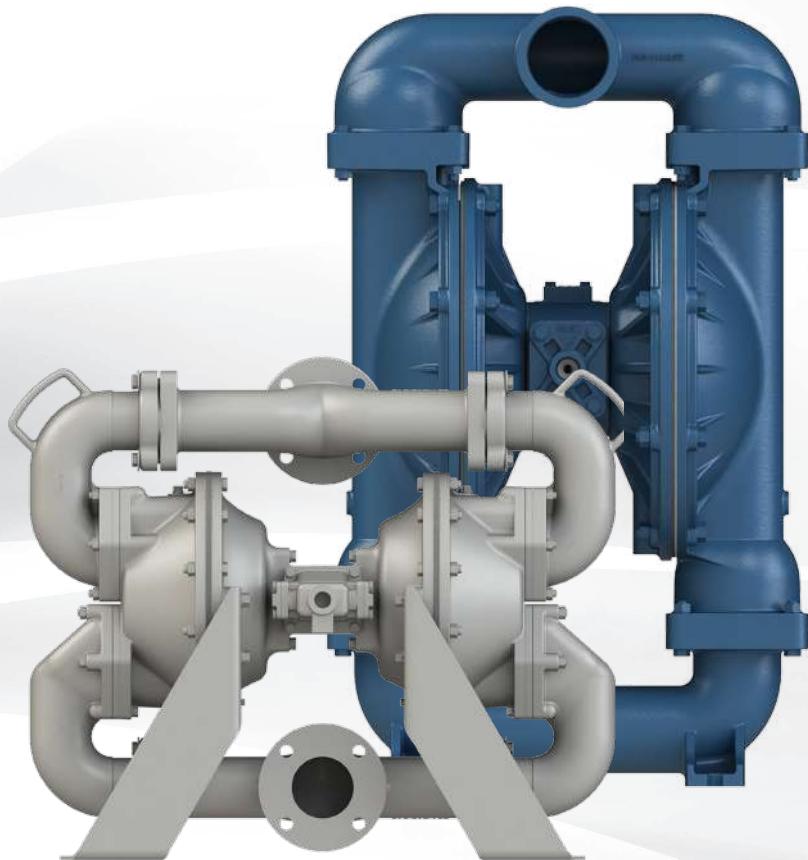
Performing in the most challenging applications, AODD pumps deliver unique benefits that are unrivaled by other pump technologies

AODD pumps are air (or natural gas) operated displacement type pumps which uniquely differ from all other positive displacement pumps. As a result of air pressure acting on the entire surface of the diaphragm, the diaphragm is in a balanced condition while pumping. This measurably extends diaphragm life over that of mechanically operated diaphragm pumps. Because compressed air is limited, the maximum pressure developed by the pump is also safely limited. Thus, AODD pumps are appropriately selected for on-demand intermittent requirements.

Unique Performance



Although the AODD pump is a positive displacement type of pump, it is actually a hybrid and defies strict classification. While its pressure versus capacity characteristics resemble those of a centrifugal pump, it is best defined as a sealless, non (or semi) positive displacement pump.



Features & Benefits

- Dry-run without damaging the pump or system
- Pumps solid laden fluids without pump or product damage
- Self-priming, works in suction lift applications
- Deadheads safely, with no pump or product damage
- Shear sensitive, does not shear or separate product being pumped
- No electricity required, and can be fully grounded
- Low initial purchase price compared to other technologies
- Submersible, can be submerged completely without safety or performance issues
- Sealless design, no expensive mechanical seals or packing are required
- Variable flow and head pressures, without sophisticated controls
- Optional bottom discharge porting depending on fluid characteristics

AODD VS. OTHERS

	AODD	Kinetic Centrifugal	Positive Displacement					EODD
		Centrifugal	Lobe	Gear	Progressive (Screw)	Peristaltic (Hose)	Piston/Plunger	
Variable Flow & Head Control (Inherently adjustable)	✓	✓	!	!	!	!	!	!
Deadheads Safely (at zero energy consumption)	✓	!	!	!	!	!	!	!
Dry-Running	✓	✗	✗	✗	✗	✗	✗	✓
Dry-Priming (lift installations)	✓	✗	✗	✓	✗	✗	!	!
No Installation Alignment Required	✓	✗	✗	✗	✗	✗	✗	✗
No Electrical Installation Required	✓	✗	✗	✗	✗	✗	✗	✗
Portability	✓	✓	!	!	!	✓	!	!
Submersible	✓	!	✗	✗	✗	✗	✗	✗
Sealless (no packing or mechanical seals)	✓	!	!	!	!	✓	!	✓
No Slip (thin liquids)	✓	✓	!	!	!	✓	!	✓
Cavitation Tolerance (low NPSHa)	✓	✗	!	!	✓	!	!	✓
Low Shear & Degradation	✓	✗	✓	✓	!	!	!	✓

✓ = Suitable

! = Limitations

✗ = Not Recommended

AODD PUMP RESOURCES TO KEEP YOUR SYSTEMS OPERATING AT PEAK PERFORMANCE



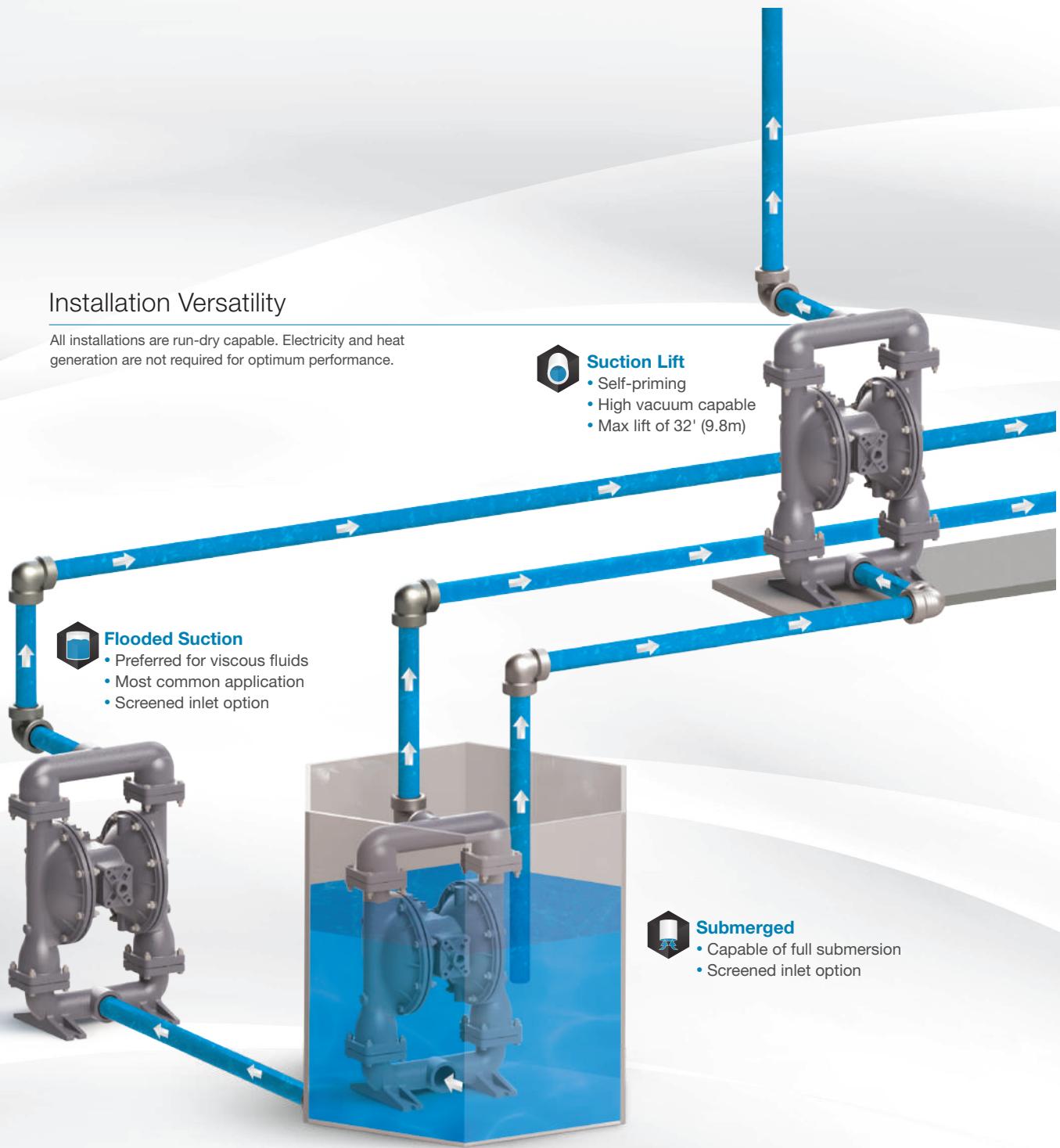
Visit the Resources Page

OPERATION & INSTALLATION

Fixed, mounted or portable SANDPIPER pumps are designed to perform in the most difficult conditions

Installation Versatility

All installations are run-dry capable. Electricity and heat generation are not required for optimum performance.



NOTE: Consult your distributor or service manual for proper materials of construction and installation for your application.

THE SANDPIPER ADVANTAGE

With over 50 years of pumping expertise, we provide application driven pumping solutions



All Bolted Construction

Superior reliability is defined by our all bolted pump construction that allows for instant part alignment, uniform torquing of seals, and high pressure capabilities



Various Power Sources

SANDPIPER pumps operate at optimum performance using compressed air, but we also have pumps available for running off of your local reserve of natural gas



Tested Quality

SANDPIPER pumps are 100% wet tested after final assembly to ensure proper functionality; Testing includes, but is not limited to, deadheading, priming, and sealing



Superior Performance

For Flap Valve pumps the hinge pads exert positive pressure on the flaps allowing the pump to operate in virtually any position, helping deliver superior suction lift and flow rates



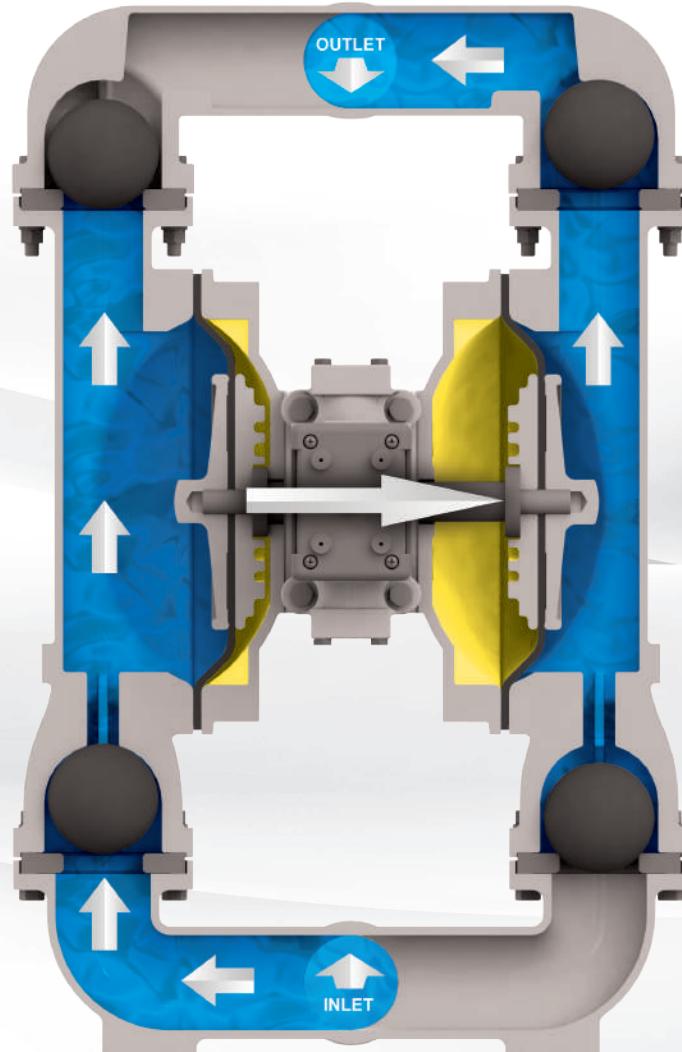
Guaranteed Connecting Rod

Our durable, corrosion resistant 416 (Martensitic) and/or 316 (Austenitic) Stainless Steel diaphragm connecting rod is guaranteed not to yield under tension, compression, or bending



ESADS+Plus Air Valve

Externally Serviceable Air Distribution System



ROBUST DIAPHRAGM CONNECTING ROD

Guaranteed not to yield under tension, compression, or bending.



5 YEAR LIMITED PRODUCT WARRANTY

5 Year Guarantee for defects in material or workmanship.

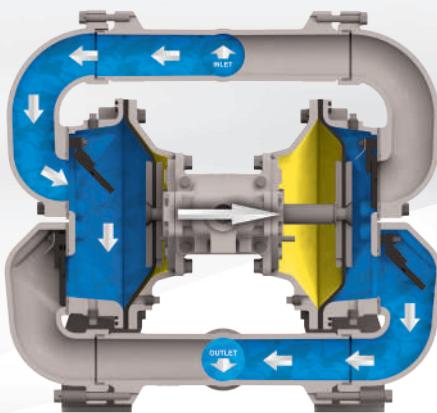


ESADS+PLUS AIR DISTRIBUTION SYSTEM

Allows for quick and easy access to the pilot and spool valves.

EXCLUSIVE PUMP CONFIGURATIONS

With the broadest range of configurations, SANDPIPER has the best solutions for your pumping needs.



HEAVY DUTY FLAP VALVE

Unique features for this configuration include:

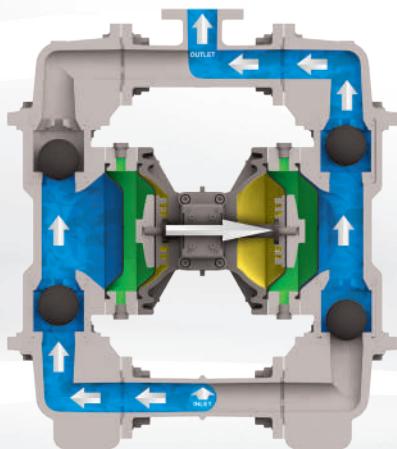
- Pumps up to line size solids
- Bottom discharge porting, discharges settling solids
- Superior suction lift of up to 24 ft.
- Easy access to serviceable components
- Thick manifold and chamber walls
- Diaphragm wear pads extend service life



HEAVY DUTY BALL VALVE

Unique features for this configuration include:

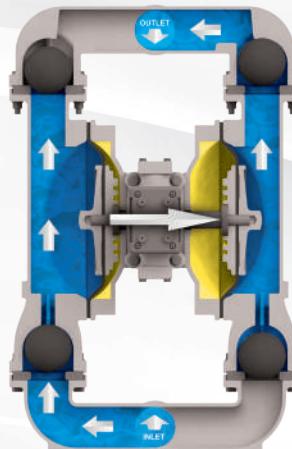
- Down ported option, discharges settling solids
- Weighted check balls for handling viscous fluids
- Top ported option, discharges floating solids, suspended solids or entrained gases
- Side ported option for use in confined spaces
- Thick manifold and chamber walls
- Diaphragm wear pads extend service life



CONTAINMENT DUTY BALL VALVE

Unique features for this configuration include:

- Containment chamber with leak detection
- Hydraulically balanced / coupled pumping and driver diaphragm assemblies
- Solids range +.25" (6mm) to .71" (18mm)
- Dry primes up to 18' of water
- prevent compressed air from entering pumped fluid in the event of a diaphragm failure



STANDARD DUTY BALL VALVE

Unique features for this configuration include:

- Solids range +.03" (1mm) to .71" (18mm)
- Dry primes up to 20' of water
- ESADS+ Air Distribution System

ENGINEERING CAPABILITIES

No matter the circumstances, we provide custom engineered solutions to maximize the productivity of all processes

Quality Assurance

To complete the pump assembly process, the following tests are run to ensure a quality built product:

1. Dry Cycled Test

- Checked for rhythmic cycling
- Checked for abnormal vibrations
- Checked for motion abnormalities

2. Wet Cycled Test

- Checked for dry priming
- Checked for cycling characteristics
- Checked for abnormal noise levels

3. Vacuum Characteristics Test

4. Dead Head Characteristics Test

- Checked for maximum fluid pressure
- Checked for leakage
- Checked for valving bypass

5. Visual Inspection

- Hardware checked
- Mating surfaces checked
- Paint quality checked
- Packaging checked

Product Services

Performance Testing

100% of all pumps are wet tested at the end of the manufacturing process including pressure testing and deadheading to ensure leak free performance.



Pressure Testing

Hydro/pneumatic testing 90 psi (standard), hydro/pneumatic 1.5 times maximum operating pressure



Repair Services

Pump repair services for labor only



Material & Pump Certificates

Certificate of origin, conformance (pump) and compliance (material), material tests reports, non-certified or certified dimensional outlines
(contact SANDPIPER Application Engineering to order)



Material Testing

PMI (Positive Material Identification), hardness testing, and others upon request

MARKETS & APPLICATIONS

SANDPIPER pumps are built to exceed the demands of your sump, waste treatment, and other applications listed below



CERAMICS



CHEMICAL



COATINGS



PHARMA



MINING



OIL & GAS



FOOD & BEVERAGE



PULP & PAPER



WASTEWATER



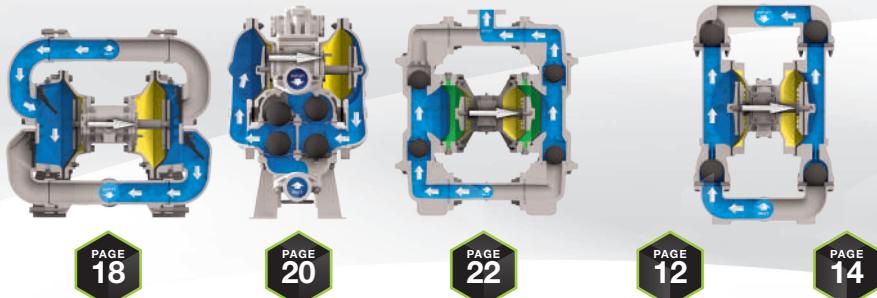
ALL MARKETS

PUMP SELECTION

A fundamental review of fluid characteristics, intended installation & duty requirements are recommended.

Pump Characteristics

Whether measuring mean time between failures, repairs, changes or maintenance, this design selection best practice will ensure the longest pump life.



SIGNATURE CONFIGURATIONS		Heavy Duty Flap Valve	Heavy Duty Ball Valve	Containment Duty Ball Valve	Standard Duty Ball Valve · Metallic	Standard Duty Ball Valve · Non-Metallic
Specifications	Suction / Discharge Port Sizes	1" through 4"	1" through 4"	1" through 3"	1/4" through 3"	1/4" through 3"
	Max Flow Rate Per Minute	310 Gal. (1173 L)	300 Gal. (1136 L)	260 Gal. (988 L)	285 Gal. (1079 L)	280 Gal. (1060 L)
	Max Discharge Heads	289' (88m) of water @125psi	231' (70m) of water @100psi			
	Max Displacement Per Stroke	1.62 Gal. (6.15 L)	1.8 Gal. (6.8 L)	1.25 Gal. (4.73 L)	0.94 Gal. (3.56 L)	0.9 Gal. (3.41 L)
	Max Dry Prime	24' (7m)	20' (6m)	18' (5.5m)	20' (6m)	20' (6m)
	Max Solids Handling	3" (75mm)	.88" (22mm)	.44" (10mm)	.38" (10mm)	.71" (18mm)
Fluid Characteristics	Water	+	+	+	+	+
	Suspended Solids	+	+	✓	+	✓
	Non-Suspended Solids	+	!	✗	!	✗
	Line Size Solids	+	✗	✗	✗	✗
	Sludge / Slurry	+	+	!	✓	!
	High Viscosity (Flowable Fluids)	✓	+	✓	✓	✓
	Erosion / Abrasive Fluids	High	+	!	✓	!
		Moderate	+	!	✓	!
		Low	+	✓	+	✓
	Corrosion	✓	✓	+	✓	+
Installation	Permanent	+	+	✓	✓	✓
	Portable	+	+	+	+	+
	Containment / Prevention	!	!	+	!	!
	Flooded Suction	✓	+	✓	✓	✓
	Suction Lift	+	✓	✓	✓	✓
	Submerged	✓	✓	!	✓	!
Duty	Intermittent / On-Demand	+	+	+	+	+
	Continuous	✓	+	✓	✓	✓

⊕ = Best Type ✓ = Suitable ! = Limitations

✗ = Not Recommended

recommended for “best fit” design selections

Pump Performance

1 Select Flow Rate (GPM)

Example: 80 GPM

2 Determine Discharge Head (PSI)

Example: 45 PSI

3 See Inlet Air Pressure (PSI)

Example: 78 PSI

4 See Air Consumption (SCFM)

Example: 60 SCFM

Selection Tip: Size-Up

See the MTBF section below to learn the impact of sizing up your pump to increase energy savings and reduce wear on the pump to measurably reduce total cost of ownership

2" Curve Example: 80 GPM, 45 PSI = 60 SCFM.



Sizing to Extend Mean Time Between Failures

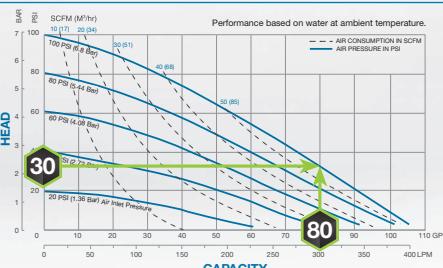
Pumping requirements (flow & head) for most applications can be met by multiple sizes of pumps. Talk to SANDPIPER's application engineers to assist you with a size selection which best fits your total cost of ownership budget. An appropriately sized-up pump will lower the consolidated initial investment, repair, labor and energy costs. This **BEST PRACTICE** ensures desirable returns on the initial investment frequently measurable in weeks.

Experienced application engineers are available to help you determine the best fit pump size for your application. Call our factory or email:

WRM.APPTECH.SP@IDEXCORP.COM

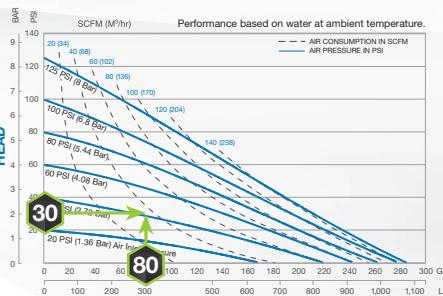
1½" Standard Duty

30 PSI, 80 GPM = 90 SCFM



3" Standard Duty

30 PSI, 80 GPM = 38 SCFM



Additional Resources



Chemical Guide

This chemical compatibility guide will help you zero in on the pump that fits your process best.

CHEMGUIDE.SANDPIPERPUMP.COM



Technical Resources

Find further information on sizing and selection of SANDPIPER products at

SANDPIPERPUMP.COM/RESOURCES/TECHNICAL



STANDARD DUTY BALL VALVE

Offering the widest range of performance and application capabilities

Standard Duty Metallic Pumps are ideally suited for intermittent / on-demand, portable, moderately abrasive fluids, and suspended solids. Standard duty pumps are constructed in Aluminum, Cast Iron, Stainless Steel with elastomer TPE (thermal plastic elastomers) and PTFE options in diaphragms and check valves.



Certifications Available



ESADS+Plus Air Valve

Externally Serviceable Air Distribution System



Learn more
about these pumps



S05 Metallic

MAX FLOW

• 15 GPM (57 LPM)

PORTING

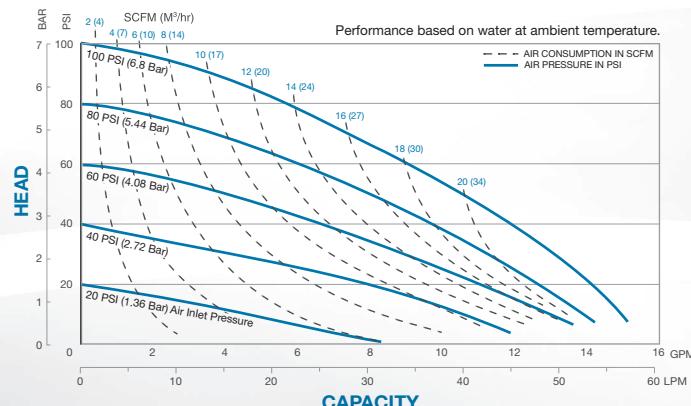
• NPT / BSP
• ANSI Flange

AIR END

• Aluminum
• Stainless Steel

WET END

• Aluminum
• Stainless Steel



S1F Metallic

MAX FLOW

• 45 GPM (170 LPM)

PORTING

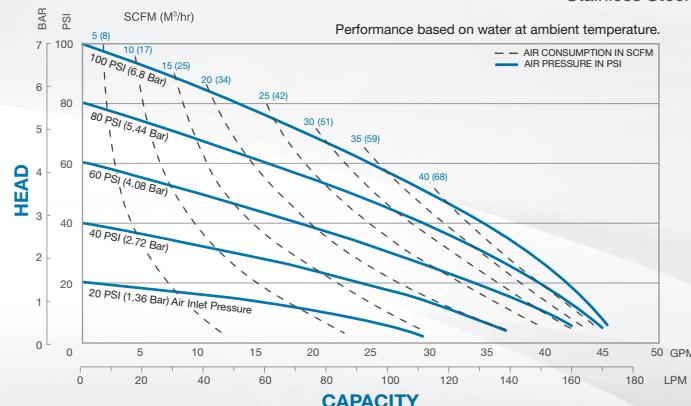
• NPT / BSP
• ANSI / DIN Flange

AIR END

• Cast Iron
• Aluminum
• Stainless Steel

WET END

• Cast Iron
• Aluminum
• Stainless Steel



PUMPS - METALLIC



S15 Metallic

MAX FLOW

• 106 GPM (401 LPM)

PORTING

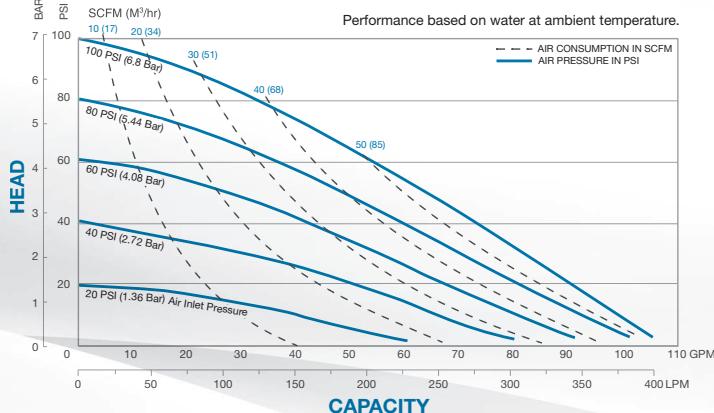
- NPT / BSP
- ANSI Flange

AIR END

- Aluminum
- Cast Iron
- Aluminum
- Stainless Steel

WET END

- Cast Iron
- Aluminum
- Stainless Steel



S20 Metallic

MAX FLOW

• 200 GPM (758 LPM)

PORTING

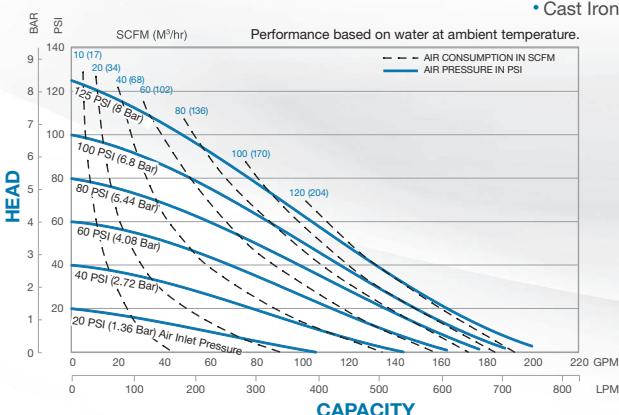
- NPT / BSP
- ANSI / DIN Flange

AIR END

- Aluminum
- Stainless Steel
- Cast Iron

WET END

- Aluminum
- Stainless Steel
- Cast Iron



S30 Metallic

MAX FLOW

• 285 GPM (1,078 LPM)

PORTING

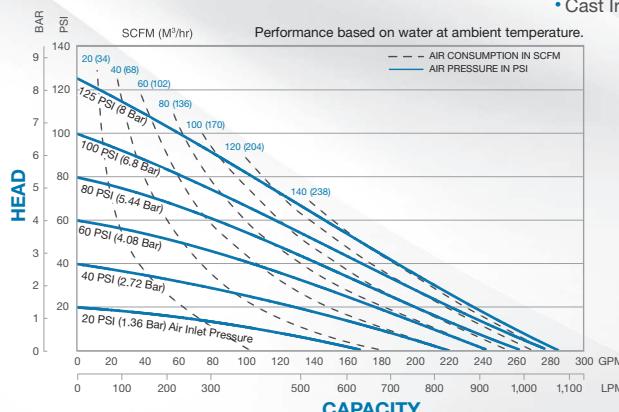
- NPT / BSP
- ANSI / DIN Flange

AIR END

- Aluminum
- Stainless Steel
- Cast Iron

WET END

- Aluminum
- Stainless Steel
- Cast Iron



STANDARD DUTY BALL VALVE

Offering the widest range of performance and application capabilities

Standard Duty Non-Metallic Pumps are suited for intermittent / on-demand, portable, moderately abrasive fluids, and suspended solids. These pumps are constructed in non-metallic materials such as PTFE, Polypropylene, PVDF, Conductive Polypropylene, Conductive PVDF and Nylon with elastomer TPE (thermal plastic elastomers) and PTFE options in diaphragms and check valves.



Certifications Available



Learn more
about these pumps



ESADS+Plus Air Valve

Externally Serviceable Air Distribution System



PB 1/4 Non-Metallic

MAX FLOW

• 4 GPM (15 LPM)

PORTING

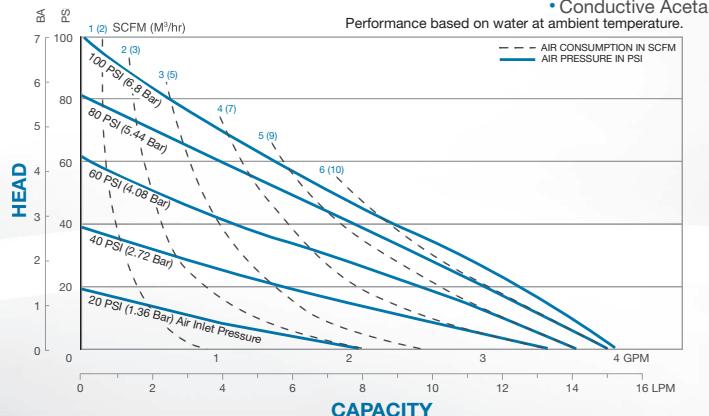
• NPT

AIR END

- Polypropylene
- Conductive Acetal

WET END

- Polypropylene
- PVDF
- Conductive Acetal



WR10 Non-Metallic

MAX FLOW

• 6.8 GPM (26 LPM)

PORTING

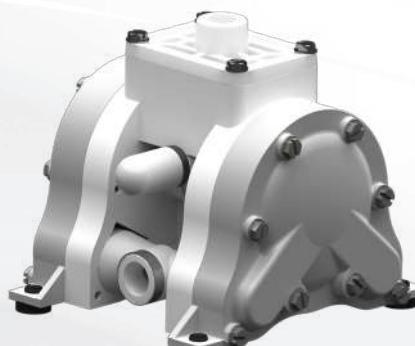
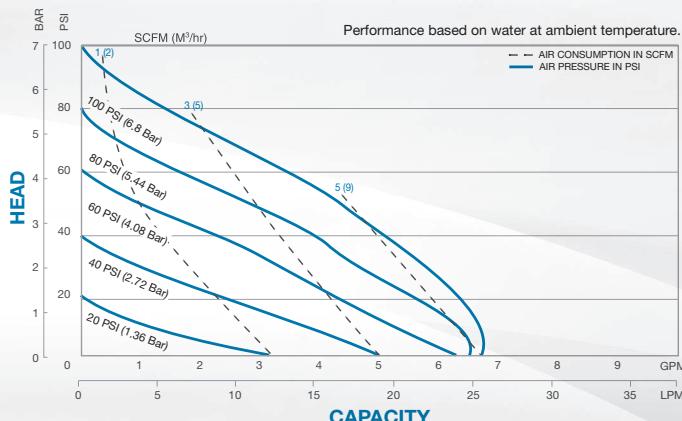
• NPT / BSP

AIR END

- PTFE
- PVDF

WET END

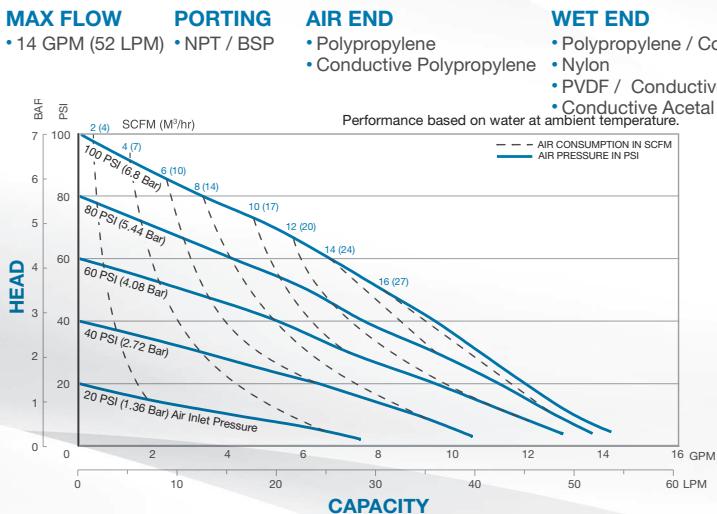
- PTFE
- PVDF



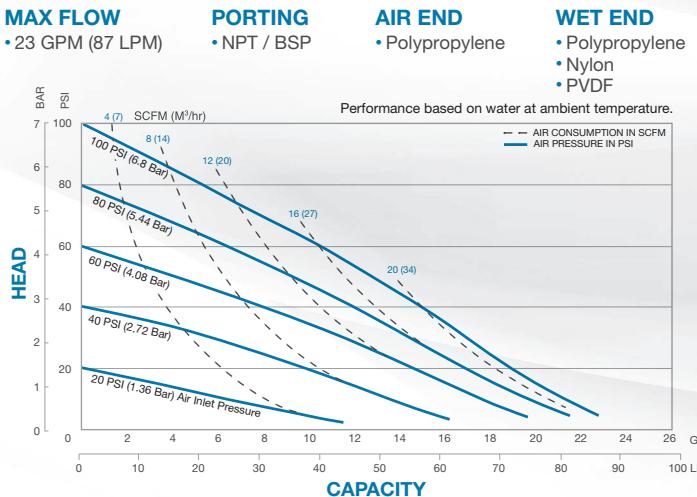
PUMPS - NON-METALLIC



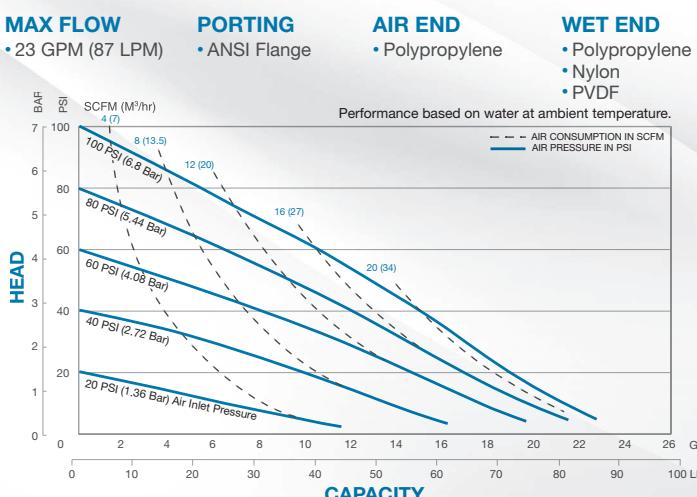
S05 Non-Metallic



S07 Non-Metallic



S10 Non-Metallic



STANDARD DUTY BALL VALVE



S1F Non-Metallic

MAX FLOW

• 53 GPM (200 LPM)

PORTING

- ANSI Flange
- DIN Flange
- NPT

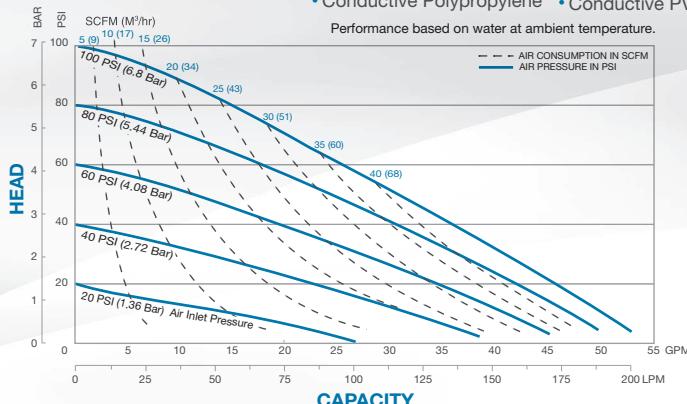
AIR END

- Polypropylene
- 40% Glass Filled Polypropylene
- Conductive Polypropylene
- Conductive PVDF

WET END

- Polypropylene
- PVDF
- Conductive Polypropylene
- Conductive PVDF

Performance based on water at ambient temperature.



SPE10



MAX FLOW

• 63 GPM (238 LPM)

PORTING

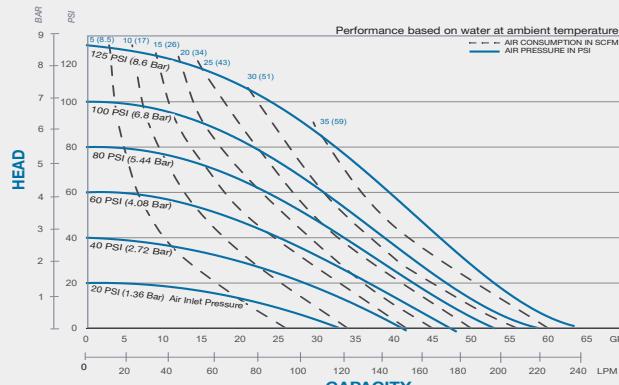
- ANSI/DIN Flange

AIR END

- Polypropylene

WET END

- Polypropylene
- PVDF
- Conductive Polypropylene



SANDPIPER pumps are evolving to perform better than ever. Introducing the new, patent pending SANDPIPER EvolutionX 1" pump, the first to launch in a series of pump sizes. This innovative air operated double diaphragm pump design is the culmination of over 55 years of industry leading research, development and engineering in pump & fluid dynamics. The EvolutionX represents the pinnacle of performance, efficiency and serviceability.

Features:

- Lower energy use – Achieves an incredible 20% average increase in air efficiency throughout the entire curve over our prior model.
- High flow – The EvolutionX has the highest flow rate of any other 1" AODD pump.
- Enhanced Convenience – Exponentially reduce AODD pump assembly and service time

Increased Installation & Porting Flexibility:

Durable, non-metallic construction rated for operation up to 125 psi with ATEX versions available. The standard EvolutionX configuration features a versatile 3-piece manifold with a universal ANSI & ISO flanged connection. Users can quickly adjust the discharge outlet for porting in multiple directions. Other porting options include a single-piece end-ported manifold or a dual-ported option. The mounting feet are extremely versatile and fit existing SANDPIPER pumps and multiple other manufacturers' dimensions.



Watch the video here



Learn More

PUMPS - NON-METALLIC



S15 Non-Metallic

MAX FLOW

- 100 GPM (378 LPM)
- ANSI Flange
- DIN Flange

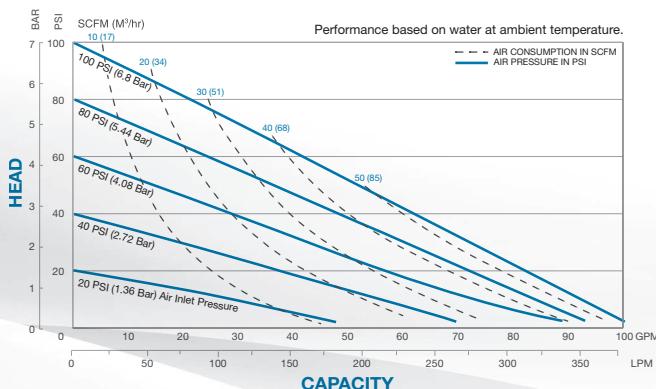
PORTING

AIR END

- Polypropylene
- Conductive Polypropylene

WET END

- Polypropylene
- PVDF
- Conductive Polypropylene



S20 Non-Metallic

MAX FLOW

- 160 GPM (605 LPM)
- Universal Flange

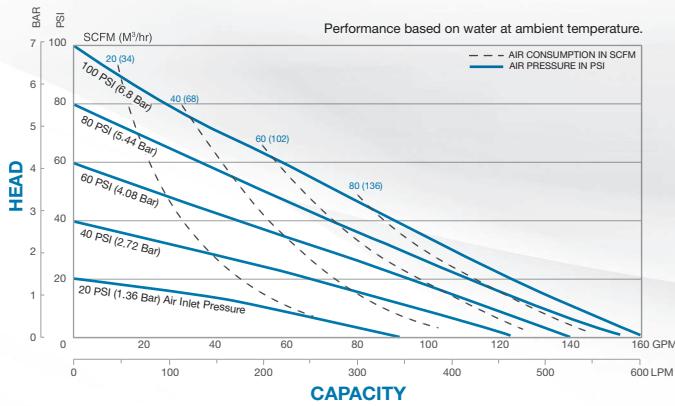
PORTING

AIR END

- Polypropylene
- Conductive Polypropylene

WET END

- Polypropylene
- PVDF
- Conductive Polypropylene



S30 Non-Metallic

MAX FLOW

- 280 GPM (1,061 LPM)
- ANSI Flange
- DIN Flange

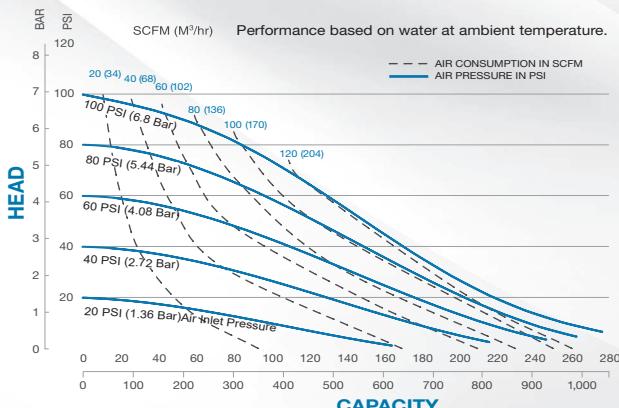
PORTING

AIR END

- Glass Filled Polypropylene
- PVDF

WET END

- Polypropylene
- PVDF



HEAVY DUTY FLAP VALVE PUMPS

For Fluids Containing up to Line Size Solids

HDF Pumps are recommended for abrasive slurries, non-suspended solids and line-size solids requirements. All SANDPIPER Heavy Duty Flap Valve Pumps are configured in bottom discharge porting arrangements and provide superior suction lift. HDF pumps are thick wall constructed of Sand Casted Aluminum, Cast Iron and Stainless Steel with elastomer, TPE (thermal plastic elastomers) in diaphragms and check valves. HDF pumps are enhanced with an extended wear package.

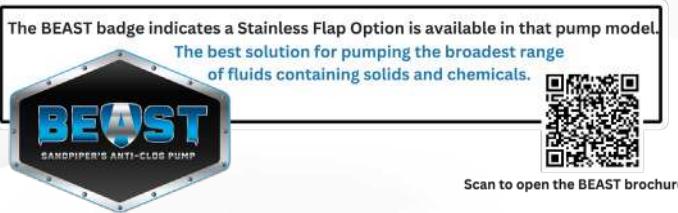


Certifications Available



ESADS+Plus Air Valve

Externally Serviceable Air Distribution System



Learn more about these pumps



HDF1 / HDF25 Metallic

MAX FLOW

• 70 GPM (265 LPM)

PORTING

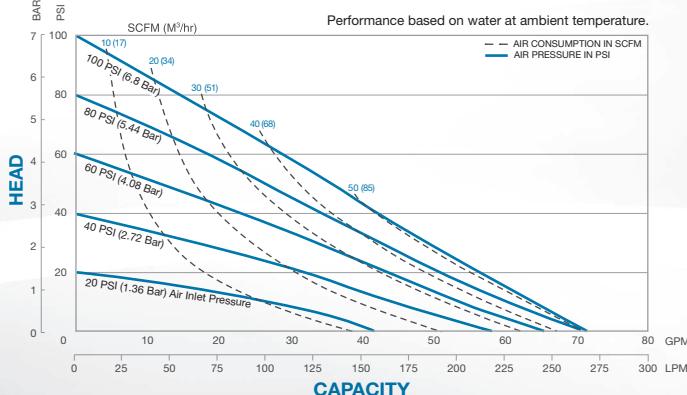
• NPT / BSP

AIR END

- Aluminum
- Cast Iron

WET END

- Aluminum
- Stainless Steel
- Cast Iron



HDF2 / HDF50 Metallic

MAX FLOW

• 208 GPM (787 LPM)

PORTING

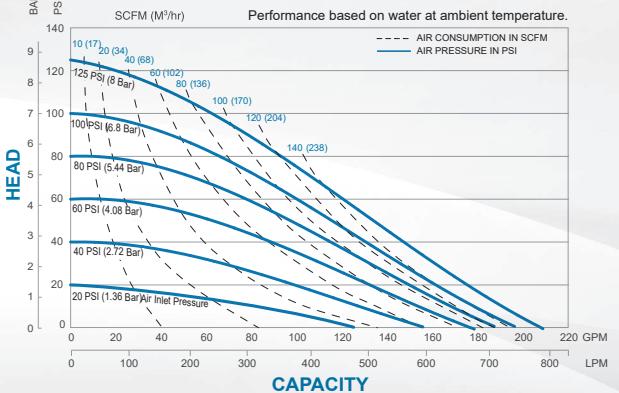
• NPT / BSP

AIR END

- Aluminum
- Cast Iron

WET END

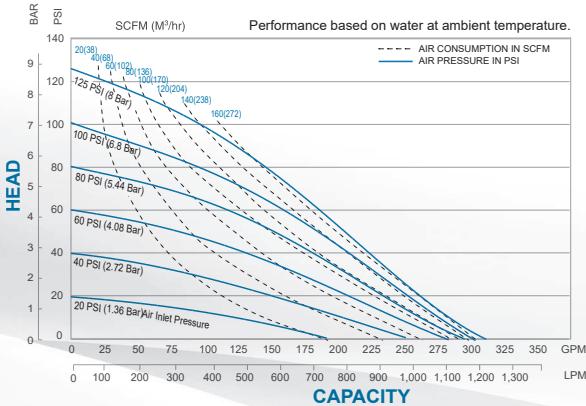
- Aluminum
- Stainless Steel
- Cast Iron





HDF3-A / 4-A Metallic

MAX FLOW • 310 GPM (1,173 LPM) **PORTING** • ANSI Flange **AIR END** • Aluminum **WET END** • Aluminum

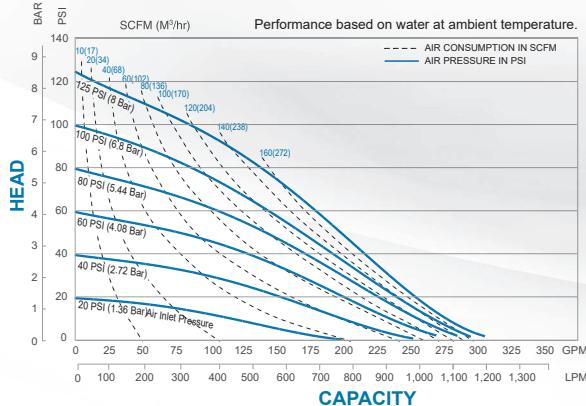


*Comming in late 2024



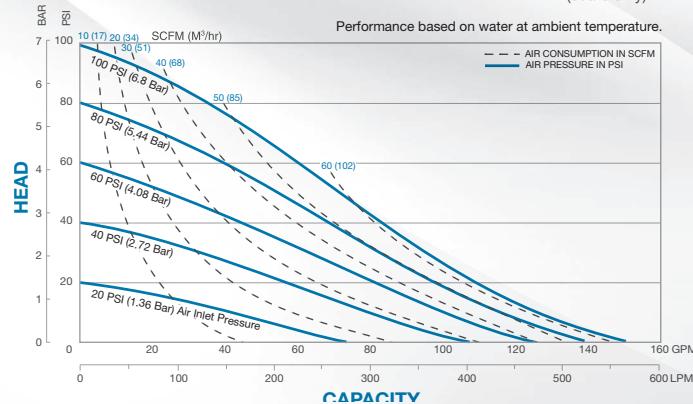
HDF3-M / 4-M Metallic

MAX FLOW • 303 GPM (1,147 LPM) **PORTING** • ANSI Flange **AIR END** • Cast Iron **WET END** • Cast Iron



HD20F Non-Metallic

MAX FLOW • 150 GPM (567 LPM) **PORTING** • NPT / BSPT **AIR END** • Polypropylene **WET END** • Polypropylene • Stainless Steel (seats only)



HEAVY DUTY BALL VALVE PUMPS

For Fluids Containing Settling, Suspended & Floating Solids

HDB Metallic Pumps are ideal for thin to highly viscous and small solids-laden fluids, while providing excellent suction lift capability and exclusive variable porting options (side, top, bottom and dual). HDB pumps are thick wall constructed of Sand Casted Aluminum, Cast Iron, Stainless Steel or Alloy C with elastomer, TPE (thermal plastic elastomers) and PTFE options in diaphragms and check valves.



Certifications Available



Learn more
about these pumps



ESADS+Plus Air Valve

Externally Serviceable Air Distribution System



SB1 / SB25 Metallic

MAX FLOW

• 42 GPM (159 LPM)

PORTING

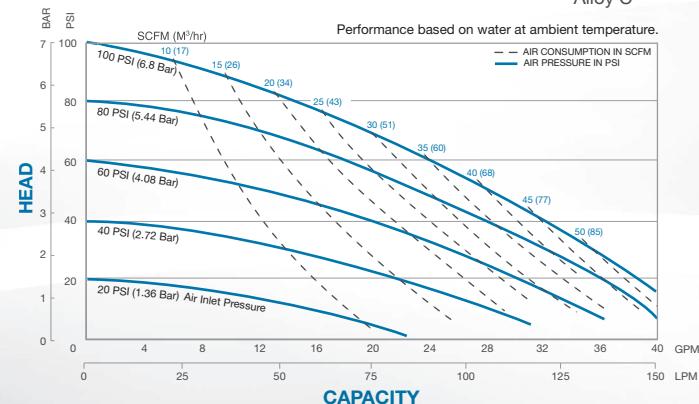
• NPT / BSP

AIR END

- Aluminum
- Cast Iron

WET END

- Aluminum
- Stainless Steel
- Alloy C



HDB1 1/2 / HDB40 Metallic

MAX FLOW

• 122 GPM (462 LPM)

PORTING

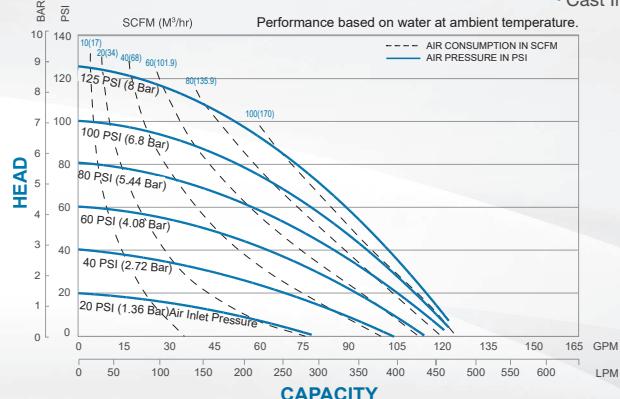
- NPT / BSP
- Available in side port only

AIR END

- Aluminum
- Cast Iron
- Alloy C
- Cast Iron

WET END

- Aluminum
- Stainless Steel
- Alloy C
- Cast Iron



JMPS - METALLIC



HDB2 / HDB50 Metallic

MAX FLOW

- 135 GPM (511 LPM)

PORTING

- NPT

AIR END

- Aluminum
- Cast Iron

WET END

- Aluminum
- Stainless Steel
- Alloy C
- Cast Iron

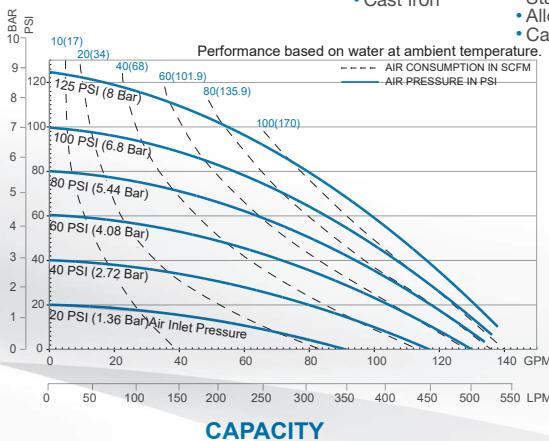
HEAD

CAPACITY

Performance based on water at ambient temperature.

— AIR CONSUMPTION IN SCFM

— AIR PRESSURE IN PSI



HDB3 / HDB4 Metallic

MAX FLOW

- 300 GPM (1,136 LPM)

PORTING

- ANSI Flange

AIR END

- Cast Iron

WET END

- Stainless Steel
- Cast Iron

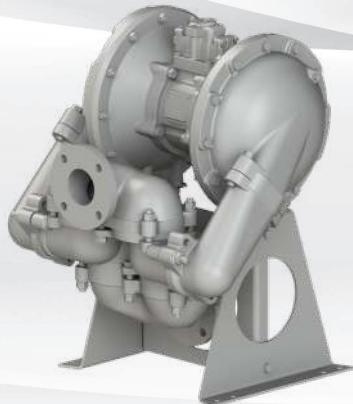
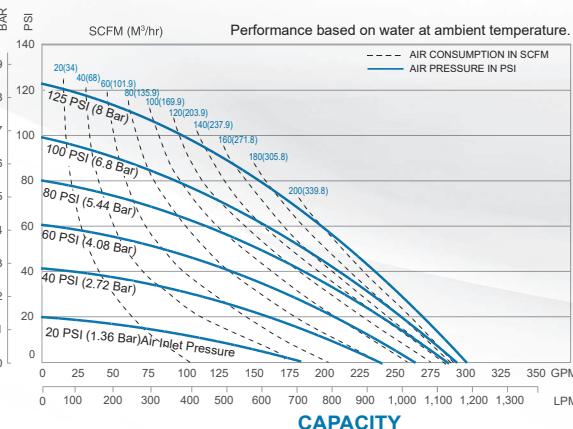
HEAD

CAPACITY

Performance based on water at ambient temperature.

— AIR CONSUMPTION IN SCFM

— AIR PRESSURE IN PSI



SANDPIPER

KIT LOOKUP TOOL



When your pump needs repair, use only
SANDPIPER Genuine Parts

Scan this QR code to quickly find the kits you
need using serial number, model number or kit
number.



S1F Non-Metallic

MAX FLOW

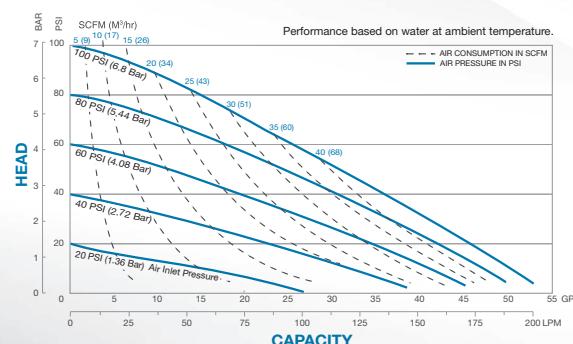
• 53 GPM (200 LPM)

PORTING

• ANSI Flange
• DIN Flange

AIR END

• Polypropylene



S15 Non-Metallic

MAX FLOW

• 100 GPM (378 LPM)

PORTING

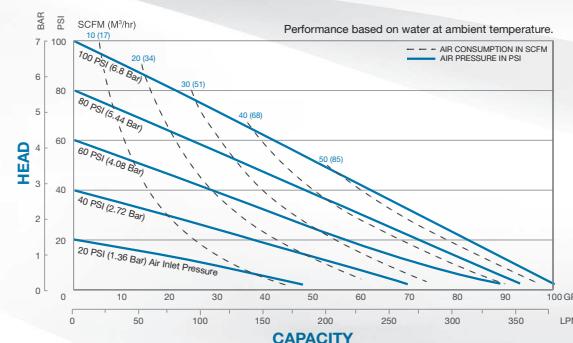
• ANSI Flange
• DIN Flange

AIR END

• Polypropylene

WET END

• PVDF
• Polypropylene



S20 Non-Metallic

MAX FLOW

• 160 GPM (605 LPM)

PORTING

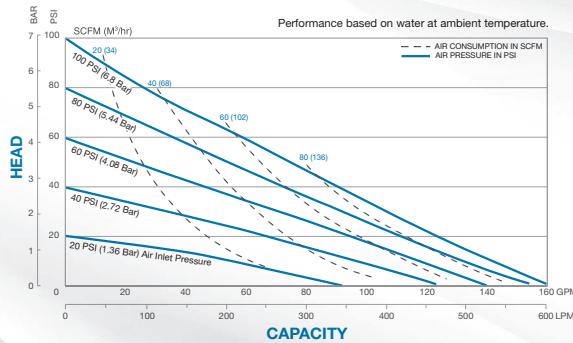
• Universal Flange

AIR END

• Polypropylene

WET END

• Polypropylene
• PVDF



S30 Non-Metallic

MAX FLOW

• 280 GPM (1,061 LPM)

PORTING

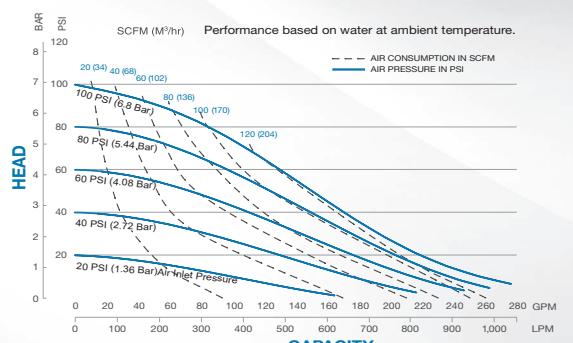
• ANSI Flange

AIR END

• Glass Filled
Polypropylene

WET END

• Polypropylene
• PVDF





VS COMPETITOR

SANDPIPER pumps excel in every aspect of safety and reliability within the oil & gas industry

WIDEST AVAILABLE RANGE



WIDEST TEMPERATURE RANGE



BROADEST CERTIFICATIONS IN THE INDUSTRY

SAFETY COMPLIANCE WITH:



LARGEST SOLIDS PASSAGE



TOP & BOTTOM DISCHARGE
Up to 2"
BOTTOM DISCHARGE
For Solids-Laden Fluids

EASE OF REPAIR & LESS DOWNTIME



5 minutes of on-site main or pilot valve repair with one wrench and removal of only 4 bolts

SIZE & FLOW



TEMP



SAFETY

SAFETY COMPLIANCE WITH:



Only 1/2" and 1" sizes

SOLIDS HANDLING



TOP DISCHARGE ONLY
Up to 1/4"

GAS / AIR VALVE REPAIR



55 minutes of off-site main and pilot valve repair with a variety of tools needed to remove pump from line and transport for repair

GAS / AIR END MATERIALS



LIMITED
Aluminum only
Nitrile Elastomers only

PERFORMANCE RELIABILITY



LIMITED
Connecting Rod prone to bending
5-year Limited Warranty



Scan to see the Oil & Gas Process Map

DUAL POWER NATURAL GAS

Industry-leading performance and market-specific technology

Traditional AODD pumps are designed for use with air only. Over the years, oil and gas operators have opted to power their diaphragm pumps with easily accessible natural gas. The application of AODD pumps driven by natural gas created a unique set of safety requirements that previously did not exist. In 2003, SANDPIPER partnered with the Canadian Standards Association (CSA®) to lead the development of the first-ever safety certification for gas-operated double-diaphragm (GODD) pumps.



Certifications Available



Learn more
about these pumps



Remote Site Serviceability

ESADS+Plus Air / Gas System allows for an on-site maintenance time of only 5 minutes



G10F Metallic

MAX FLOW

• 70 GPM (265 LPM)

PORTING

• NPT / BSP (tapered)

GAS / AIR END

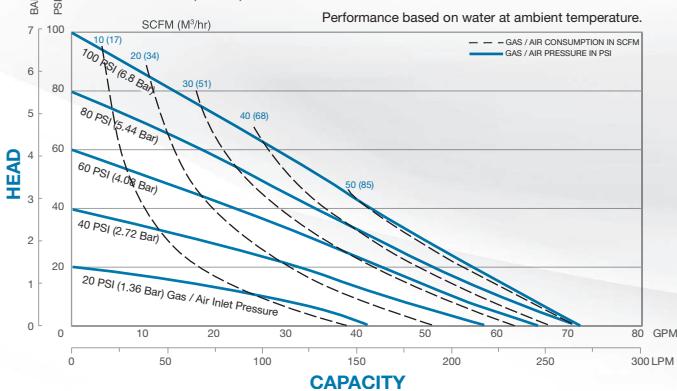
- Aluminum
- Nitrile or FKM Elastomers

WET END

- Aluminum
- Stainless Steel
- Nitrile or FKM Diaphragm / Check Valves

MAX SOLIDS

• 1" (25mm)



G20F Metallic

MAX FLOW

• 208 GPM (787 LPM)

PORTING

• NPT

GAS / AIR END

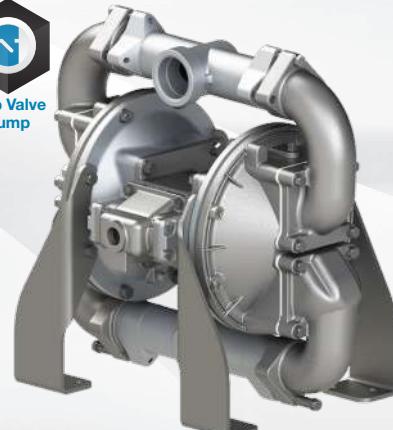
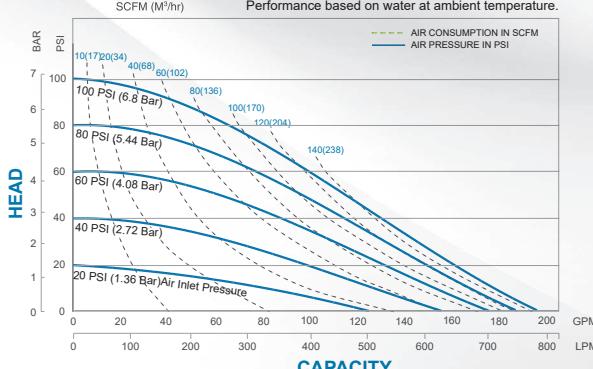
- Aluminum
- Nitrile or FKM Elastomers

WET END

- Aluminum
- Stainless Steel
- Nitrile or FKM Diaphragm / Check Valves

MAX SOLIDS

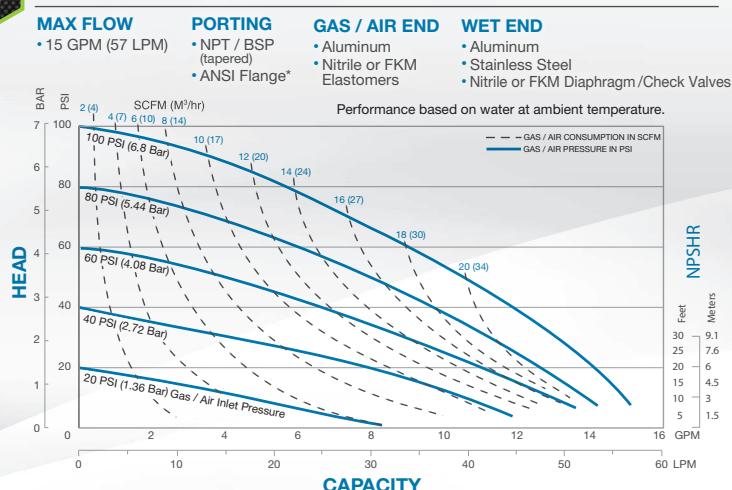
• 2" (50mm)



DUAL POWER NATURAL GAS



G05 Metallic





G20 Metallic

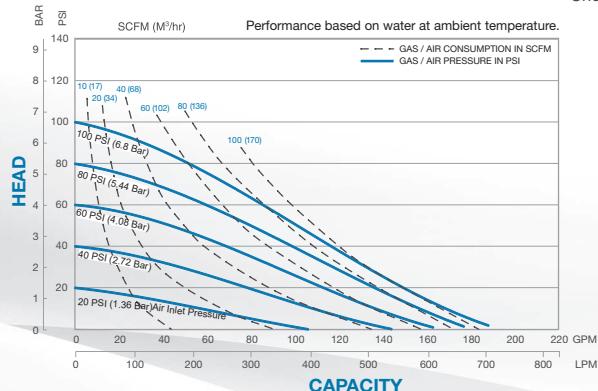
MAX FLOW	PORTING
• 200 GPM (758 LPM)	• NPT / BSP (tapered) • ANSI Flange

GAS / AIR END

- Aluminum
- Stainless Steel
- Nitrile or FKM Elastomers

WET END

- Aluminum
- Stainless Steel
- Nitrile or PTFE Diaphragm/Check Valves



G30 Metallic

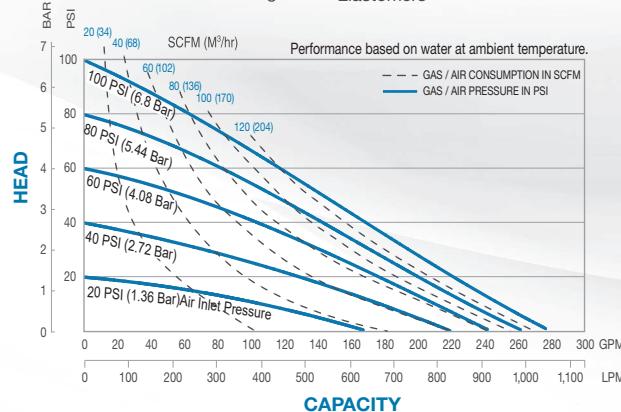
MAX FLOW
• 285 GPM (1,078 LPM)

PORTING

- NPT / BSP (tapered)
- ANSI Flange
- DIN Flange

GAS / AIR END WET END

• Aluminum	• Aluminum
• Stainless Steel	• Stainless Steel
• Nitrile or FKM Elastomers	• Nitrile or PTFE Diaphragm/Check Valves



GH2-M Metallic 2:1 High Pressure

MAX FLOW
• 74 GPM (280 LPM)

PORTING

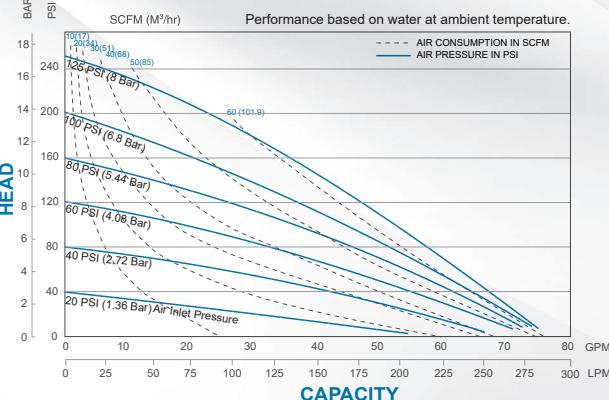
- NPT

AIR END

• Aluminum	• Cast Iron
• Cast Iron	• Stainless Steel

WET END

• Cast Iron	• Stainless Steel
-------------	-------------------



STANDARD FDA COMPLIANT

FDA-Compliant food processing aodd pumps

FDA (Food & Drug Administration) Material Compliant Pumps are ideally suited for a variety of food processing, pharmaceutical and cosmetic industry applications. The pumps are available in 1" through 3" ball check valve designs and a 2" (line size solids handling) flap check valve design. Variable flow capacities across the range are 0-285 gallons per minute.



Porting Options

Rotatable manifolds and top or bottom discharge available



Materials Of Construction

316 Stainless Steel components



Certifications Available



Learn more
about these pumps



T1F Metallic

MAX FLOW

• 45 GPM (170 LPM)

PORTING

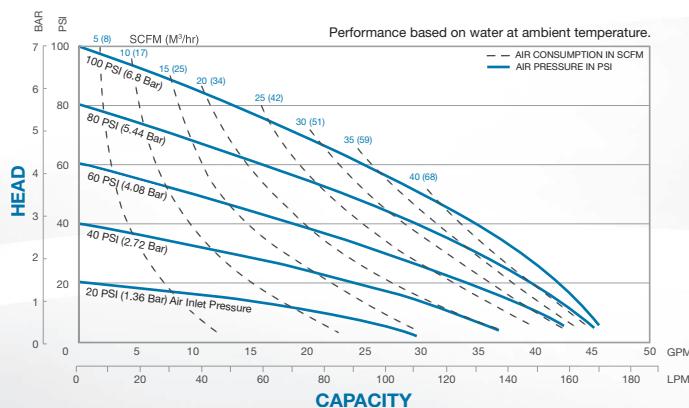
• Tri-Clamp

AIR END

• Epoxy Coated
Aluminum

WET END

• Stainless Steel



T15 Metallic

MAX FLOW

• 106 GPM (401 LPM)

PORTING

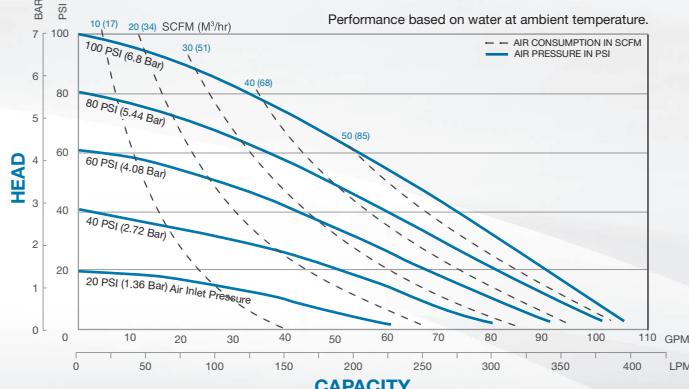
• Tri-Clamp

AIR END

• Epoxy Coated
Aluminum

WET END

• Stainless Steel



PUMPS - T-SERIES



T20 Metallic

MAX FLOW

• 200 GPM (758 LPM)

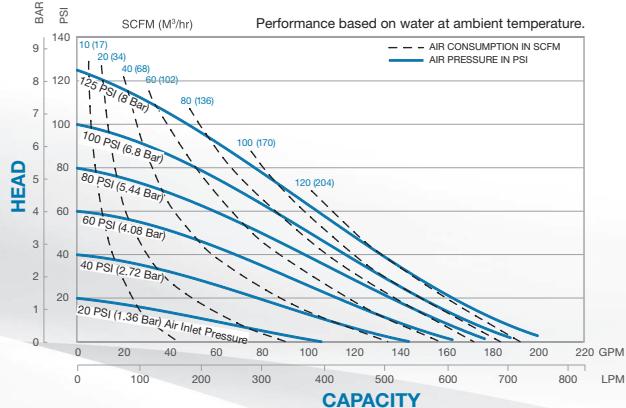
PORTING

AIR END

- Tri-Clamp
- Epoxy Coated Aluminum
- Stainless Steel
- Stainless Steel

WET END

- Stainless Steel



T30 Metallic

MAX FLOW

• 285 GPM (1,078 LPM)

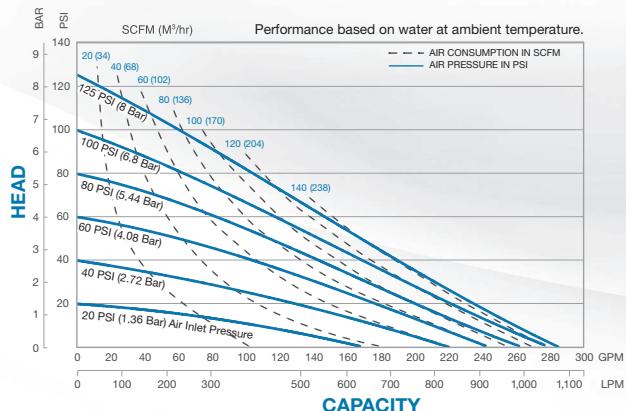
PORTING

AIR END

- Tri-Clamp
- Epoxy Coated Aluminum
- Stainless Steel
- Stainless Steel

WET END

- Stainless Steel



TSA2 Metallic

MAX FLOW

• 140 GPM (530 LPM)

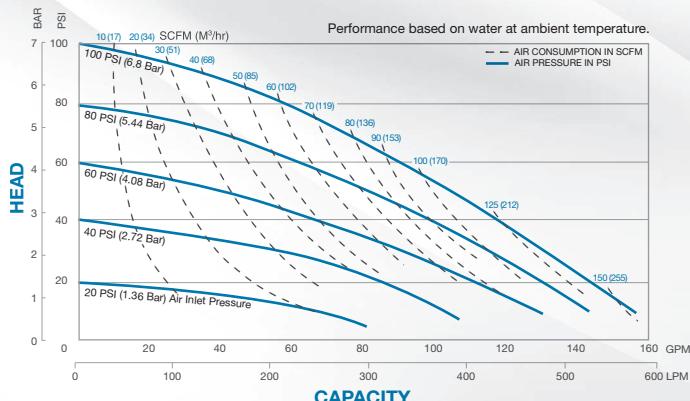
PORTING

AIR END

- Tri-Clamp
- Epoxy Coated Aluminum
- Stainless Steel
- Stainless Steel

WET END

- Stainless Steel



Flap Valve Pump



STANDARD FDA COMPLIANT

FDA-Compliant food processing aodd pumps

FDA (Food & Drug Administration) Material Compliant Pumps are ideally suited for a variety of food processing, pharmaceutical and cosmetic industry applications. The pumps are available in 1/2" through 3" ball check valve designs. Variable flow capacities across the range are 0–234 gallons per minute.



Porting Options

Rotatable manifolds and top or bottom discharge available



Materials Of Construction

316 Stainless Steel components



Certifications Available



NOTE: Performance based on the following: TPE fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.



Learn more
about these pumps



FB05 Metallic

MAX FLOW

• 12 GPM (45.5 LPM)

PORTING

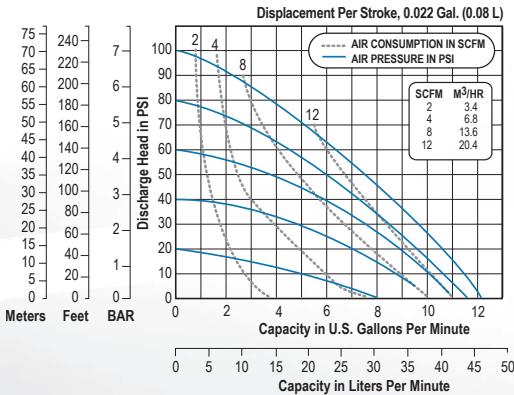
• Tri-Clamp

AIR END

• Nickle Plated Aluminum
• Polypropylene

WET END

• Stainless Steel



FB10 Metallic

MAX FLOW

• 49 GPM (185.5 LPM)

PORTING

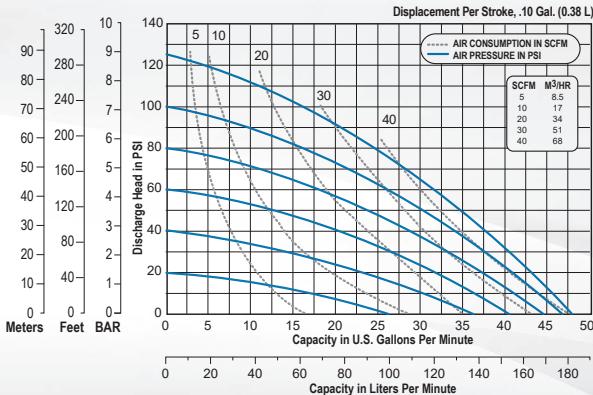
• Tri-Clamp

AIR END

• Nickle Plated Aluminum
• Polypropylene

WET END

• Stainless Steel

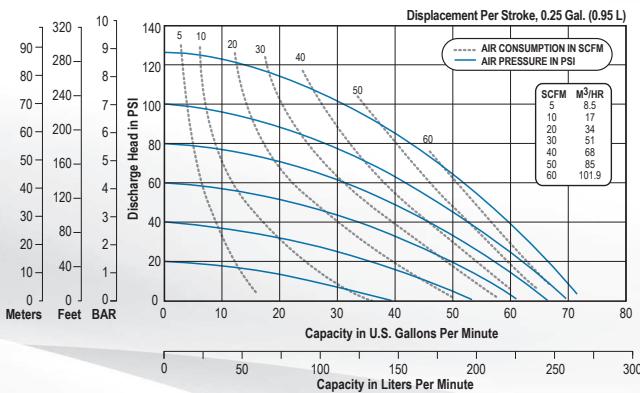


PUMPS - FB SERIES



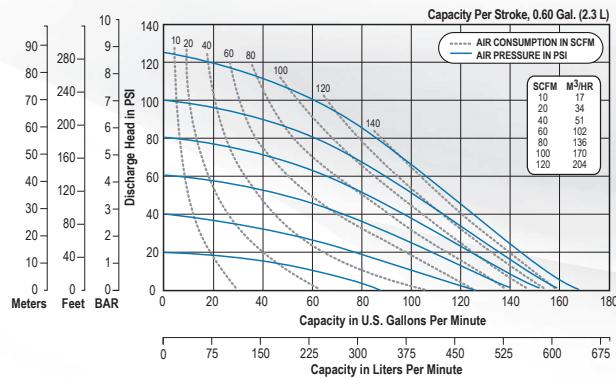
FB15 Metallic

MAX FLOW	PORTING	AIR END	WET END
• 71 GPM (268 LPM)	• Tri-Clamp	• Nickle Plated Aluminum	• Stainless Steel



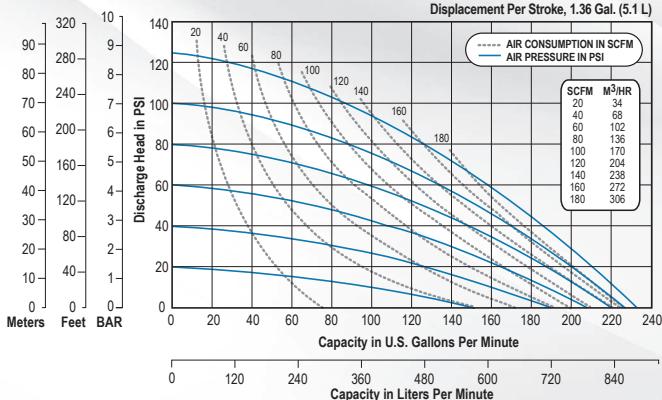
FB20 Metallic

MAX FLOW	PORTING	AIR END	WET END
• 167 GPM (632 LPM)	• Tri-Clamp	• Nickle Plated Aluminum	• Stainless Steel



FB30 Metallic

MAX FLOW	PORTING	AIR END	WET END
• 234 GPM (886 LPM)	• Tri-Clamp	• Nickle Plated Aluminum	• Stainless Steel



HIGH POLISHED SANITARY PUMPS

For applications where highly polished wetted surface finish is Ra 32

The sanitary and hygienic pumps offer exceptional cleanability, ease of maintenance and superior reliability. FDA-compliant pumps, the F15C and F20C models are built for food processing and personal care applications



Porting Options

Rotatable manifolds and top or bottom discharge available



Materials Of Construction

316 Stainless Steel components



Certifications Available



NOTE: Performance based on the following: TPE fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.



Learn more
about these pumps



FB15 Metallic - Sanitary

MAX FLOW

• 86 GPM (325.5 LPM)

PORTING

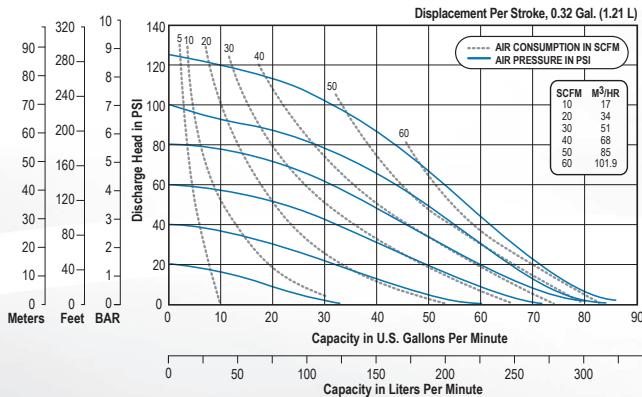
• Sanitary Clamp

AIR END

• Nickle Plated Aluminum
• Stainless Steel
• Stainless Steel

WET END

• Stainless Steel



FB20 Metallic - Sanitary

MAX FLOW

• 179 GPM (677 LPM)

PORTING

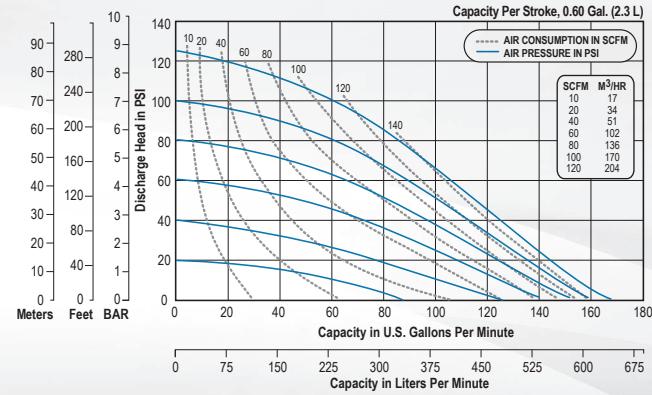
• Sanitary Clamp

AIR END

• Nickle Plated Aluminum
• Stainless Steel
• Stainless Steel

WET END

• Stainless Steel

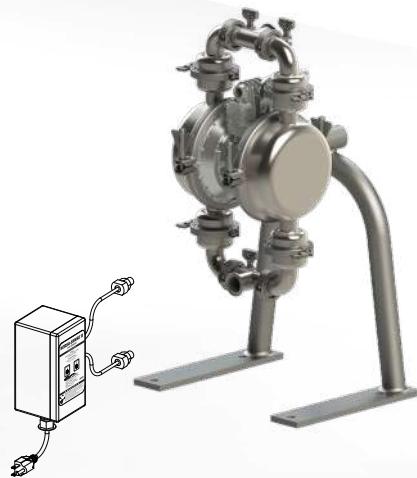
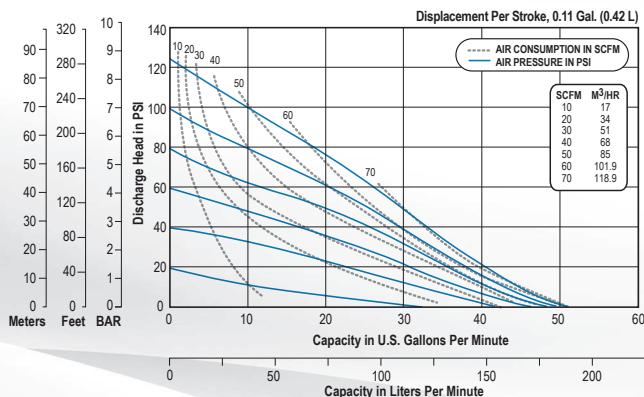


JMPS - FB SERIES



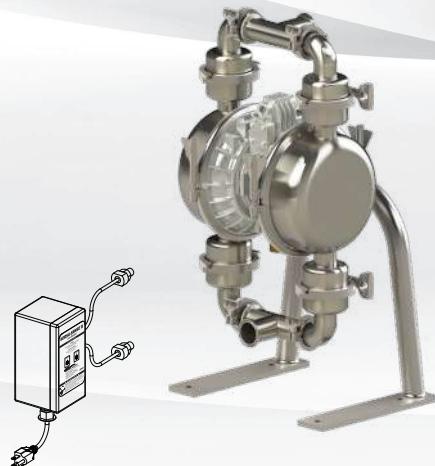
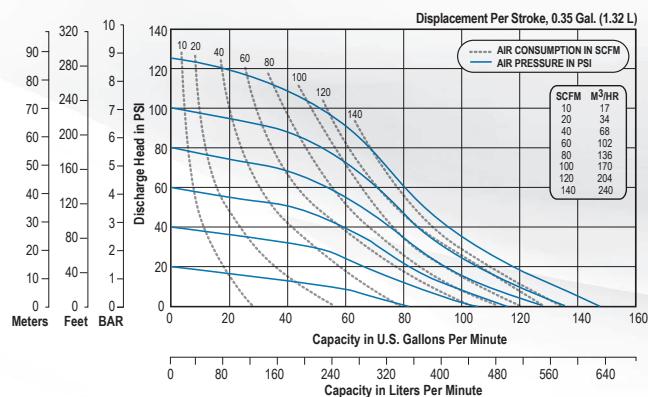
FB15 Metallic - 3A

MAX FLOW	PORTING	AIR END	WET END
• 51 GPM (193 LPM)	• Sanitary Clamp	• Nickle Plated Aluminum • Stainless Steel	• Stainless Steel



FB20 Metallic - 3A

MAX FLOW	PORTING	AIR END	WET END
• 147 GPM 556 LPM	• Sanitary Clamp	• Nickle Plated Aluminum • Stainless Steel	• Stainless Steel



When your pump needs repair, use only
SANDPIPER Genuine Parts

Scan this QR code to quickly find the kits you
need using serial number, model number or kit
number.

PREMIUM FDA COMPLIANT PUMPS

For pharmaceutical, nutraceutical and personal care pumping applications

The SANDPIPER SSB1 & SSB2 hygienic pump has been the ideal choice for pharmaceutical, nutraceutical and personal care pumping applications for more than 30 years. This robust AODD pump is constructed from polished 316 stainless steel and features FDA-compliant nitrile diaphragms and check balls. The tri-clamp construction makes this pump easily compatible with your sanitary system design



Porting Options

Rotatable manifolds



Leak Detection

Pair with Electronic Leak Detection



Certifications Available



Learn more
about these pumps



SSB1 / DSB1 Metallic

MAX FLOW

• 54 GPM (204 LPM)

PORTING

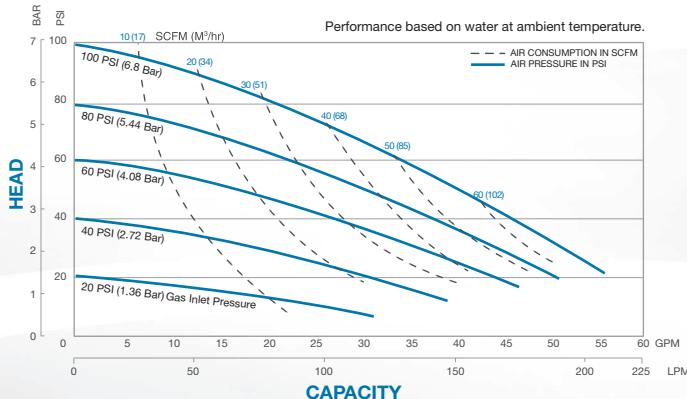
• Tri-Clamp

AIR END

• Nickel Plated Aluminum

WET END

• Stainless Steel



SSB2 Metallic

MAX FLOW

• 125 GPM (473 LPM)

PORTING

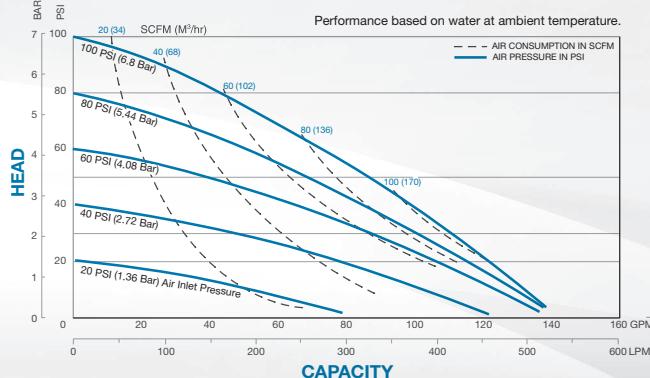
• Tri-Clamp

AIR END

• Nickel Plated Aluminum

WET END

• Stainless Steel



SUBMERSIBLE CENTRIFUGAL PUMPS

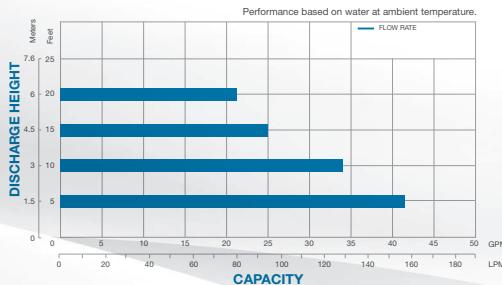
Submersible pumps for dewatering even with trash & debris

The PortaPump® Submersible, Battery-Powered Pump operates using any 12-volt car or truck battery. It comes equipped with cables and battery clips. Extremely portable, the pump weighs only 33 pounds (15 kg) and can fit through openings as small as 10" (25cm). Electrically safe and whisper quiet.



SPA1½-E Metallic

MAX FLOW • 43 GPM (163 LPM) **PORTING** • NPT / BSP **WET END** • Aluminum



Learn More



Certifications Available



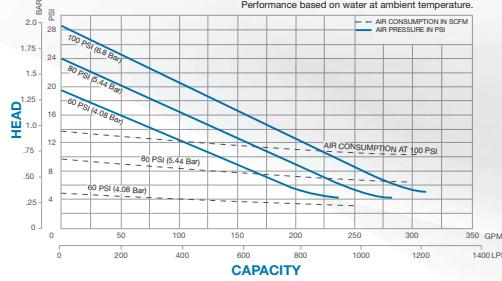
Learn More

The SludgeMaster™ Submersible, Air-Powered Trash Pump handles mud, leaves, twigs, sand, sludge, trash-laden water and soft solids to 1½" (3.8cm). High capacity, low head. The pump weighs only 59 pounds (26kg), and can fit through an opening as small as 14" (35cm). Sturdy construction for rough handling and long life. Optional rock screen available.



SMA3 Metallic

MAX FLOW • 300 GPM (1140 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum



UL LISTED PUMPS

UL-Listed AODD pump for flammable liquids transfer

UL (Underwriters Laboratories) Listed Pumps are designed to meet UL79 standards for diaphragm pumps handling flammable liquids. All Aluminum construction with approved Nitrile or Virgin PTFE UL elastomers. Fully groundable to prevent static discharge.



UL: Underwriters Laboratories



Certifications Available

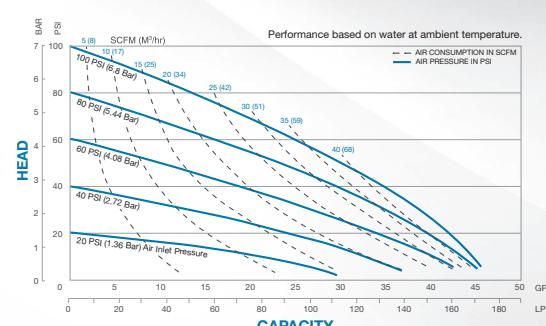


Learn More



U1F Metallic

MAX FLOW • 45 GPM (170 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum



HIGH PRESSURE PUMPS

For fluids containing up to line size solids

Air-Powered Single Diaphragm High Pressure Metallic Pumps deliver discharge pressure twice the inlet pressure, up to 250 PSI (17.2 BAR). Designed for filter press feed and applications requiring higher discharge pressures. Available in Aluminum, Cast Iron and Stainless Steel with various elastomer options. Equipped with elastomeric seals and components that are compatible with the various chemicals normally expected to be found in natural gas.



Certifications Available



Learn more
about these pumps



Materials Of Construction

316 Stainless Steel components



SH2-M Metallic



2"

50mm

MAX FLOW

• 120 GPM (454 LPM)

PORTING

• NPT

AIR END

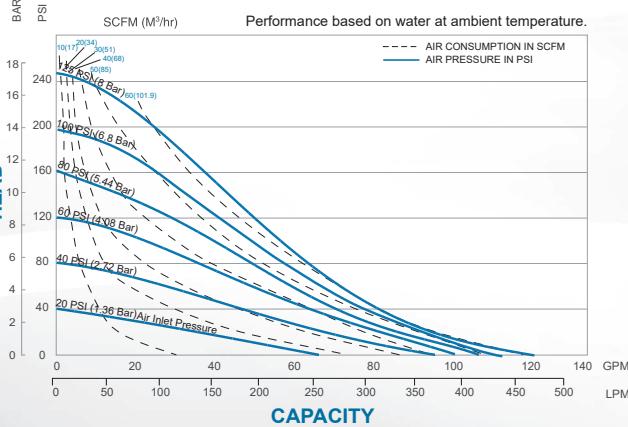
• Aluminum

WET END

- Aluminum
- Cast Iron

HEAD

0
20
40
60
80
100
120
140
160
180
200
220
240



Flap Valve
Pump



EH2-M Metallic

MAX FLOW

• 74 GPM (280 LPM)

PORTING

• NPT

AIR END

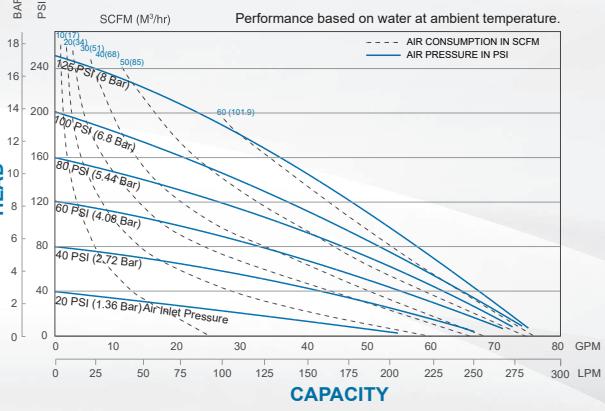
- Aluminum
- Cast Iron

WET END

- Cast Iron
- Stainless Steel

HEAD

0
20
40
60
80
100
120
140
160
180
200
220
240





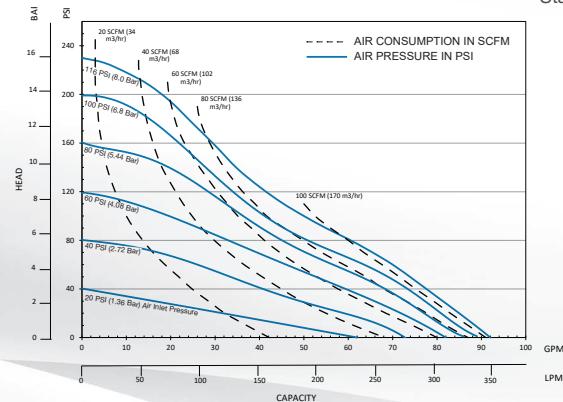
HP10 Metallic

MAX FLOW
• 33 GPM (125 LPM)

PORTING
• NPT / BSP

AIR END
• Aluminum

WET END
• Aluminum
• Stainless Steel



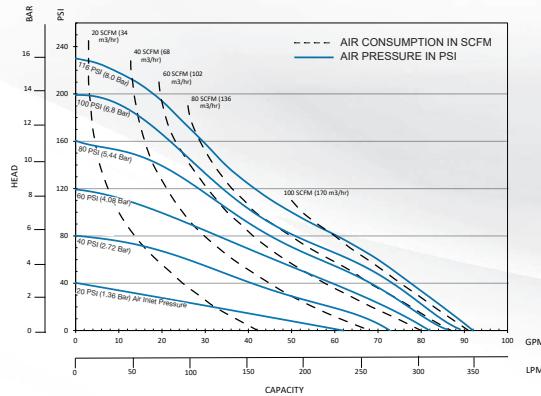
HP20 Metallic

MAX FLOW
• 92 GPM (348 LPM)

PORTING
• NPT / BSP

AIR END
• Aluminum

WET END
• Aluminum
• Stainless Steel



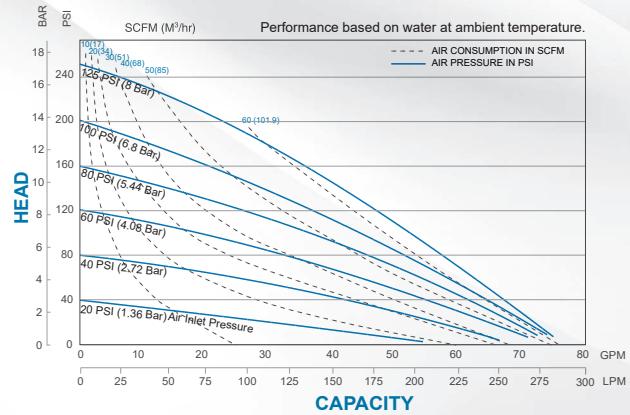
GH2-M Metallic 2:1 High Pressure

MAX FLOW
• 74 GPM (280 LPM)

PORTING
• NPT

AIR END
• Aluminum
• Cast Iron

WET END
• Cast Iron
• Stainless Steel



Natural Gas Driven

ACCESSORIES

When it comes to optimizing pump and system performance to increase efficiency and provide additional protection to your critical equipment, SANDPIPER has you covered. Our air-operated double-diaphragm (AODD) pump accessories are tested and approved control components, which when used with your SANDPIPER pump, can improve your system performance and extend the life of your pump. Partner with us to learn how to apply SANDPIPER genuine accessories to your system to keep it running smoothly and to achieve optimal performance

Liquid Level Control

Automatic, float actuated control unit that opens and closes the air supply to your AODD pump, especially useful in sump and liquid transfer situations.

[LEARN MORE ON PAGE 42](#)

Water Separator

This point-of-use water separator is designed to remove 99% of the water, rust and other contaminants commonly present in compressed air lines. Clean, dry air enhances the life and performance of pneumatically-driven equipment.

Electronic Speed Control

Provides accurate control of variable flow rates, from zero flow to maximum. Operates on 110 or 220VAC with on-board, single turn potentiometer or automatic mode for remote control using the optional 4-20 mA input terminal.

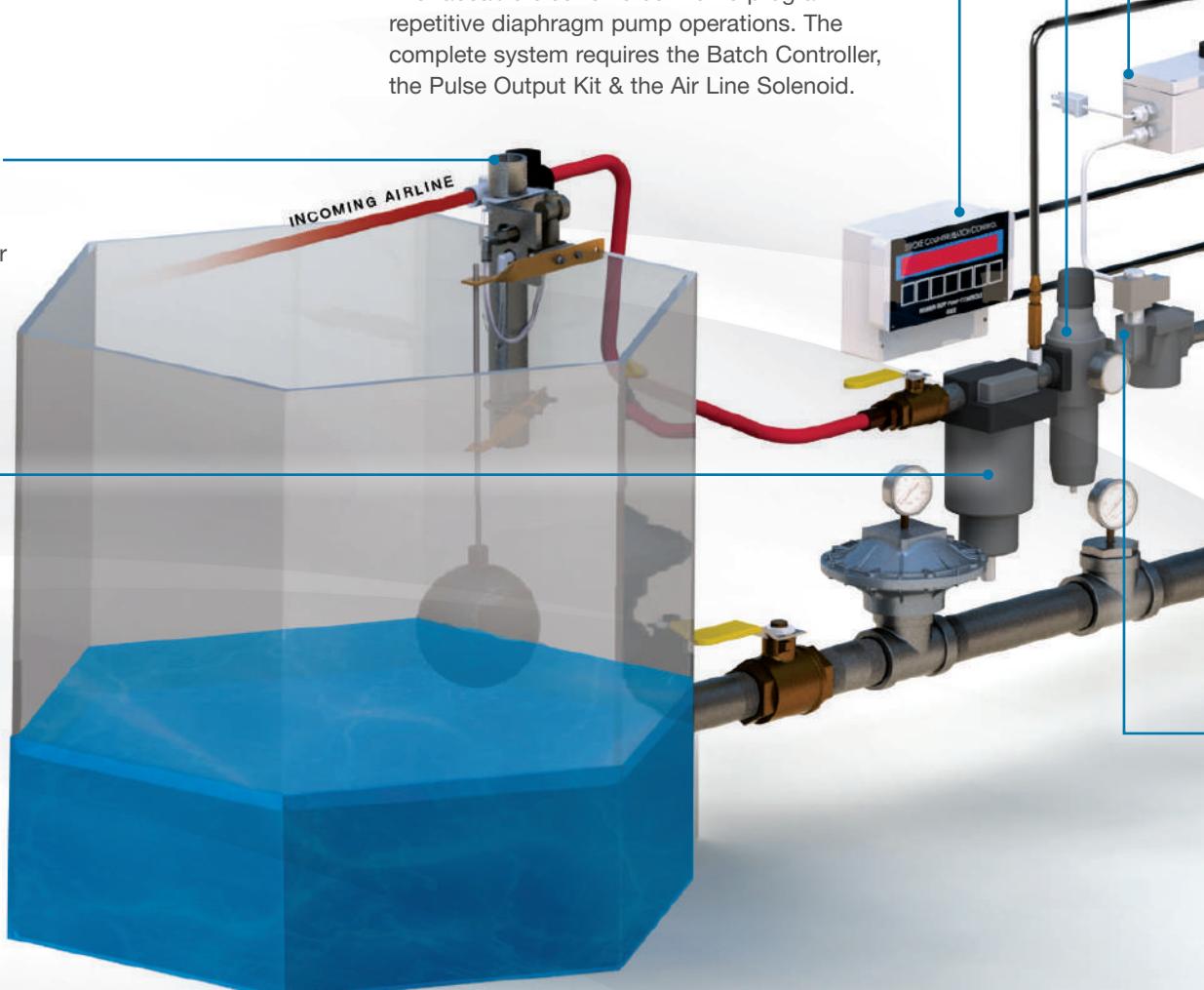
Air Filter / Regulator

Provides clean, dry air to your AODD pump. The SANDPIPER Filter / Regulator line offers modular convenience for easy installation and service.

[LEARN MORE ON PAGE 40](#)

Stroke Counter / Batch Control

Offers performance and repeatability with an interfaceable electronic control to program repetitive diaphragm pump operations. The complete system requires the Batch Controller, the Pulse Output Kit & the Air Line Solenoid.





Pulsation Dampener / Surge Suppressor

Provides virtually pulse-free discharge flow, for steadier pressure with less system vibration and noise. Our Tranquilizer® series is self-charging and self-venting.

[LEARN MORE ON PAGE 41](#)

Air Line Solenoid

Provides automatic on/off operation of air-driven equipment. 110/120VAC and 220/240VAC (50/60 hertz) kits operate with the SANDPIPER or customer's control units. 12VDC and 24VDC kits operate with customer-supplied controls only.

Muffler

Rugged polymer or metallic housing that work as effective sound dampening for SANDPIPER pumps, meeting OSHA dBA requirements.

Pulse Output Kit

Offered in a wide variety of sizes and voltages. These controls interface with the SANDPIPER Batch Controller, or your own process controls (PLCs). Available in kits for field installation, or factory built into a new pump.

Leak Detection

Electronic versions provide a signal via warning lights, an audible alarm, and the pump can be shut down.

Visual versions simply have a sight tube that fills with fluid if a diaphragm breaks.

Mechanical leak detection opens an air valve, which activates a customer supplied solenoid to trigger a signal. For use with the Containment Duty Spill Containment SANDPIPER pumps only.

FILTER REGULATORS

Specifically Developed for Air operated double diaphragm pumps



* Up to $\frac{3}{4}$ " units.

- Reduced Maintenance**
Clean, regulated air
- Lower Operating Costs**
Reduced air consumption and less compressor demand
- Extended Pump Life**
Reduced stress on wear components by proportioning the air pressure
- Reliable**
Engineered to optimize pump performance
- Protect**
Efficiently removing air line solids and liquid contaminants to protect air valve
- Safe Operation**
Operate at the lowest required air pressure
- Compact & Convenient**
Filter and regulate your air supply in a single, easy to install unit
- Precise Pump Control**
Easy air pressure adjustment to vary the pump's flow rate and operation speed

Lubricators



In applications with very dry air supplies or where nitrogen is being utilized to operate the pump, lubrication of the compressed air supply is required. For these situations, we offer a complete line of Lubricators that easily connect to our Filter / Regulators.

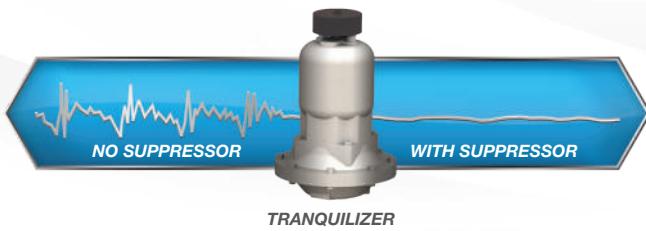
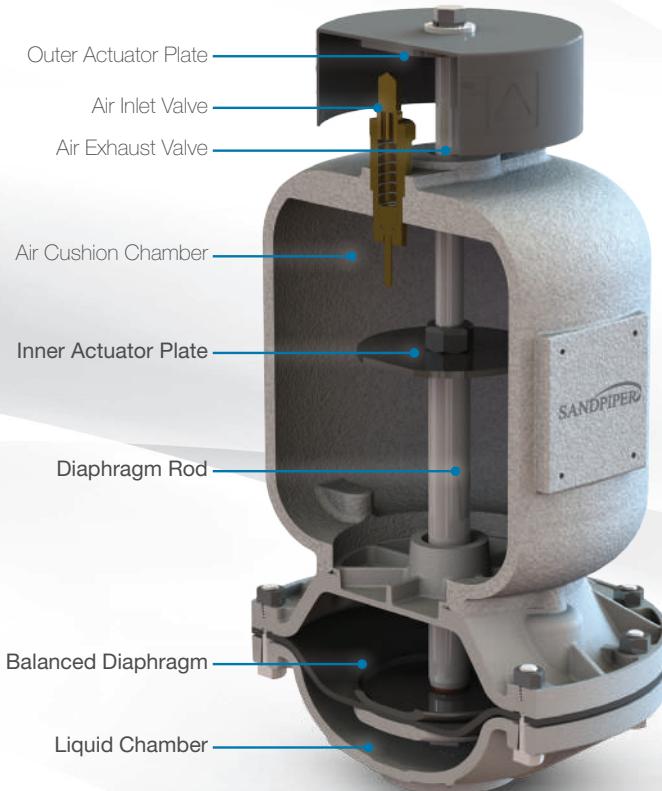
TECHNICAL SPECIFICATIONS

Part Number	Port Size	Max Flow (SCFM)	Description	Max Inlet Pressure	Regulating Pressure Range	Replacement Filter Element Part Number	Lockout Valve Part Number	Mounting Bracket Kit Part Number	Replacement Pressure Gauge Part Number	Lubricator Part Number
020.103.000	$\frac{1}{4}$ " NPT	35	Filter/Regulator w/ gauge (20 micron)	150 psi (10.2 bar)	0 - 125 psi (0 - 8.6 bar)	020.049.004	020.049.002	020.049.007	020.101.000	020.113.000
020.104.000	$\frac{1}{2}$ " NPT	80	Filter/Regulator w/ gauge (40 micron)	150 psi (10.2 bar)	0 - 125 psi (0 - 8.6 bar)	020.050.004	020.050.002	020.050.007	020.101.000	020.114.000
020.105.000	$\frac{3}{4}$ " NPT	150	Filter/Regulator w/ gauge (40 micron)	150 psi (10.2 bar)	0 - 125 psi (0 - 8.6 bar)	020.051.004	020.051.002	020.051.007	020.102.000	020.115.000
020.106.000	1" NPT	250	Filter/Regulator w/ gauge & mounting bracket kit (40 micron)	175 psi (12.1 bar)	0 - 125 psi (0 - 8.6 bar)	020.052.004	020.052.002	020.052.007	020.102.000	020.116.000

Temperature Ratings: 40°F to 125°F (4.4°C to 52°C)

TRANQUILIZERS®

Pulsation Dampeners / Surge Suppressors



- Virtually surge-free flows
- Steadier pressures
- Less vibration and noise
- Simple installation
- Automatically self-charging and self-venting
- Longest life balanced diaphragm
- Capable of pressures to 125 PSI (8.6 BAR)
- Protects other system components



Learn More

TECHNICAL SPECIFICATIONS							Available Wetted Materials									
							Chamber			Diaphragm						
Model	Desc.	Cert.	Air Inlet Size	Liquid Inlet Size	Height (mm)	Diameter (mm)	Aluminum	Stainless Steel	Cast Iron	Alloy C	Neoprene	Nitrile	FKM	EPDM	Neoprene PTFE Overlay	Santoprene®
Tranquilizers (Featured Above)	TA1	1" pumps		1/4" NPT (external thread)	1" NPT	13,625"-15,125" (346mm-384mm)	9" (229mm) NPT(F)	✓	✓	✗	✗	✓	✓	✓	✓	✓
	TA25	1" pumps		1/4" NPT (external thread)	1" BSP (Tapered internal thread)	13,625"-15,125" (346mm-384mm)	9" (229mm) NPT(F)	✓	✓	✗	✗	✓	✓	✓	✓	✓
	TA1 1/2	1" & 1 1/2" pumps		1/4" NPT (external thread)	1 1/2" NPT (internal thread)	19,875"-21,325" (505mm-543mm)	10.5" (267mm) NPT(F)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TA40	1" & 1 1/2" pumps		1/4" NPT (external thread)	1 1/2" BSP (Tapered internal thread)	19,875"-21,325" (505mm-543mm)	10.5" (267mm) NPT(F)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TA2	1 1/2" & 2" pumps		1/4" NPT (external thread)	2" NPT (internal thread)	20,25"-23,1875" (514mm-589mm)	12.5" (317mm) NPT(F)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TA50	1 1/2" & 2" pumps		1/4" NPT	2" BSP (Tapered internal thread)	20,25"-23,1875" (514mm-589mm)	12.5" (317mm) NPT(F)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TA3	3" pumps		1/4" NPT	3" 150# ANSI or 3" NPT (internal)	20,125"-23,125" (511mm-587mm)	16,1875" (411mm) NPT(F)	✓	✓	✓	✓	✗	✓	✓	✓	✓
	TA80	3" pumps		1/4" NPT	3" BSP (tapered int. or 80mm DIN)	20,125"-23,125" (511mm-587mm)	16,1875" (411mm) NPT(F)	✓	✓	✓	✓	✗	✓	✓	✓	✓
Dampeners	DA05	1/2" pumps		1/4" NPT	1/2" NPT	7,468" (190mm) WIDTH: 5.625" (143mm)	6,9375" (176mm)	Aluminum, Stainless Steel & Polypropylene								
	DA07	3/4" pumps		1/4" NPT	3/4" NPT	7,718" (196mm) WIDTH: 5.625" (143mm)	6,9375" (176mm)	Polypropylene only								
	DA10	1" pumps		1/4" NPT	1" NPT	11,718" (298mm) WIDTH: 5.625" (143mm)	7.5" (191mm)	Polypropylene only								

✓ = Available ✗ = Not available

All of the TA models are CE and ATEX • Dimensional Tolerance: $\pm 1/8"$ ($\pm 3\text{mm}$). • See service manual for complete specifications.

LIQUID LEVEL CONTROL

Automatic, float actuated unit that opens and closes air supply to your AODD pump

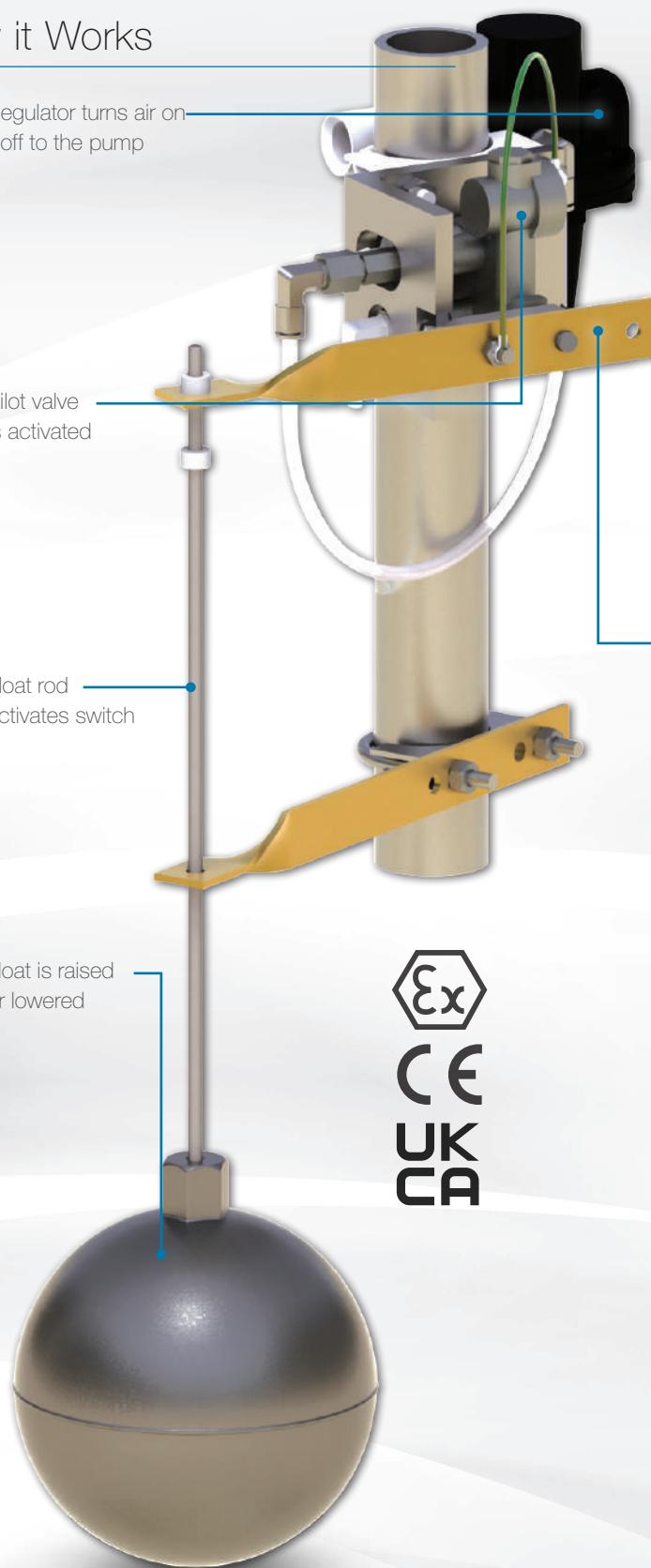
How it Works

- 4 Regulator turns air on / off to the pump

- 3 Pilot valve is activated

- 2 Float rod activates switch

- 1 Float is raised or lowered



Pneumatic

No electrical power required

Adjustable

Operating range from a few inches to 9 ft (2.7 m)

Simple

Easy to install & operate

Versatile

Quick reversible operation

Universal

Can be used with all AODD pumps

Reliable

Stainless steel float & connecting rod

Reversible Operation

Operation can be reversed by installing the top float rod bracket in the opposite direction from position shown.

Standard Operation

High Level = On, Low Level = Off

Reverse Operation

High Level = Off, Low Level = On

Common Applications



Sumps



Dewatering



Fluid Transfer



Tank Filling

ADDITIONAL ACCESSORIES

Other Accessories that SANDPIPER offers to help complete your process



CSA Compliant Natural Gas Pressure Regulators

SANDPIPER Natural Gas Pressure Regulators are safe, reliable and environmentally friendly. These point-of-use regulators are designed and tested to meet CSA regulations and provide superior regulation and excellent stability. All regulators include a durable glycerin filled pressure gauge to dampen the effects of pulsation and vibration common in pump applications. A safety port has been added to help prevent escaping gas in the case of a regulator diaphragm rupture. Simply add a pipe or hose fitting to the unit to divert or reclaim any natural gas.

TECHNICAL SPECIFICATIONS

Part Number	Port Size	Max Flow (SCFM)	Pump Models	Max Inlet Pressure	Regulating Pressure Range	Temperature Rating	Materials of Construction
020.057.000	1/4" NPT	25	G05	250 PSI (17.2 BAR)	0 - 120 PSI (0 - 8.3 BAR)	0°F - 160°F (-17.8°C - 71.1°C)	Aluminum, Brass, Plated Steel, Nitrile
020.058.000	1/2" NPT	110	G1F, G10F	400 PSI (27.6 BAR)	0 - 125 PSI (0 - 8.6 BAR)	-40°F - 200°F (-40.0°C - 93.3°C)	Zinc, Aluminum, Plated Steel, Nitrile, Brass
020.059.000	3/4" NPT	110	G15, G20	400 PSI (27.6 BAR)	0 - 125 PSI (0 - 8.6 BAR)	-40°F - 200°F (-40.0°C - 93.3°C)	Zinc, Aluminum, Plated Steel, Nitrile, Brass
020.060.000	3/4" NPT	260	G20F, G30	400 PSI (27.6 BAR)	0 - 125 PSI (0 - 8.6 BAR)	-40°F - 200°F (-40.0°C - 93.3°C)	Zinc, Aluminum, Plated Steel, Nitrile, Brass

Diaphragm Material: Nitrile elastomer with polyester fabric
All gauge ports & vent ports are tapped 1/4" NPT
Replacement pressure gauge part number: 020.061.000

Note: The use of a relief valve is recommended for these products in accordance with NFPA 58.

Natural Gas Filters

SANDPIPER Natural Gas Filters provide superior particulate protection from systems with high concentrations of solid contaminants. These point-of-use filters are built from durable and lightweight aluminum, feature very high dirt-holding capacity and offer lower pressure drop than other comparable products.



TECHNICAL SPECIFICATIONS

Part Number	Port Size	Max Flow (SCFM)	Pump Models	Replacement Filter Element	Max Inlet Pressure	Max Temperature	Materials of Construction
020.062.000	1/4" NPT	25	G05	020.065.000			Aluminum Housing, Nitrile Seals, Molded Urethane End Seals
020.063.000	1/2" NPT	42	G1F	020.065.000	500 PSI (34 BAR)	175°F (80°C)	
020.064.000	3/4" NPT	133	G10F, G15, G20, G20F, G30	020.066.000			

Stainless Steel manual drain 1/8" NPT
Micron Rating: 3

DIAPHRAGM & ELASTOMER SELECTION

get the maximum longevity out of your sandpiper pump by selecting the appropriate diaphragm and elastomer for your application

MATERIAL SELECTION GUIDE							
Diaphragm Material	Purchase Price	Flex Life	Abrasion Resistance	Chemical Resistance	Temp. Limitations	Temp. Max. Operating	Temp. Min. Operating
EPDM	✓	✓	✓	✓	+	280°F / 138°C	-40°F / -40°C
FKM	!	X	!	+	+	350°F / 177°C	-40°F / -40°C
Hytrell®	✓	+	+	✓	✓	220°F / 104°C	-20°F / -29°C
Neoprene	+	+	✓	X	✓	200°F / 93°C	-10°F / -23°C
Nitrile	+	+	✓	!	✓	190°F / 88°C	-10°F / -23°C
Santoprene®	+	+	+	+	+	275°F/135°C	-40°F/-40°C
Urethane	+	✓	!	X	!	150°F / 66°C	32°F / 0°C
PTFE Synthesis	!	✓	!	+	!	176°F / 80°C	14°F / -10°C
PTFE Two-Piece	!	!	X	+	✓	220°F / 104°C	-35°F / -37°C

For reference only, consult distributor.

⊕ = Best Type

✓ = Suitable

! = Limitations

X = Not Recommended

Santoprene® is a registered trademark of Exxon Mobil Corp. Hytrell® is a registered trademark of E.I. DuPont.

Synthesis One-Piece Diaphragms

The Synthesis™ diaphragm is an exclusive SANDPIPER technology. Uniquely designed as a premium one-piece diaphragm, it creates optimum conditions for high-performance pumping and reliability.

Features include:

- Temperature range: 14°F to 176°F (-10°C to 80°C)
- Torque-free installation: simply hand-turn into position
- One-piece composite design with 100% PTFE on the wetted side bonded to a nitrile rubber backer (NRB) with an integrated diaphragm plate
- No center hole: for superior leak-free operation and installation
- No outer diaphragm plate abrasion due to trapped fluids
- Oversized integrated plate supports nearly 50% of the diaphragm
- Start-up pressure of less than 10 psi versus 25 psi or more on competitive diaphragms



SYNTHESIS DIAPHRAGM SELECTION GUIDE				
Part Number (Conversion Kit)*	Inner Diaphragm Plate**	Where Used	Wet End Kit	Where Used
286.112.000 (475.250.000)	612.218.330	SB1	476.034.659	SB1-A
286.112.000 (475.250.000)	612.218.330	S1F Metallic	476.194.659	S1F Metallic
286.113.000 (475.254.000)	612.217.150	S15 Metallic	476.182.659	S15 Metallic
286.114.000 (475.255.000)	612.219.150	HDB1½	476.036.659	HDB1½
286.114.000 (475.256.000)	612.227.150	S15 Non-Metallic	476.255.659	S15 Non-Metallic
286.114.000 (475.256.000)	612.227.150	S20 Non-Metallic	476.257.659	S20 Non-Metallic
286.115.000 (475.258.000)	612.220.150	S1F Non-Metallic	476.197.659	S1F Non-Metallic
286.116.000 (475.251.000)	612.221.330	S05, S07, S10 Non-Metallic	476.202.659	S05 Non-Metallic
286.116.000 (475.251.000)	612.221.330	S05 Metallic	476.199.659	S05 Metallic
286.118.000 (475.252.000)	612.215.330	HDB2	476.043.659	HDB2
286.118.000 (475.253.000)	612.214.150	S20 Metallic	476.042.659	S20 Metallic

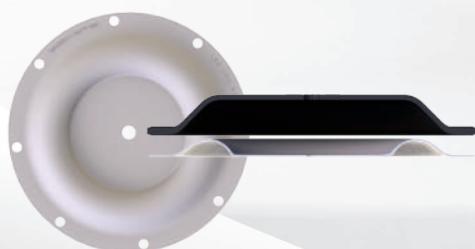
Extend diaphragm life by reducing the frictional stresses associated with the outer diaphragm plate.

Standard Two-Piece PTFE Diaphragm

Additionally, SANDPIPER pumps are offered with a standard PTFE diaphragm (a two-piece diaphragm)—a cost-effective solution for a large variety of pumping applications.

Features include:

- Wide range of pressure capabilities
- Variety of materials available
- Proven performance over years of testing
- Diaphragm wear pads



CHEMICAL COMPATIBILITY

Check Balls, Flaps, and Seats

- Check balls are available in standard and weighted options.
- Weighted check balls are used in applications containing thick, viscous fluids.
- Flaps are ideal for solids-laden fluids.
- Check valve seats are available in a variety of materials based on your application and chemical compatibility.



EXTEND THE LIFE OF CRITICAL PUMPING EQUIPMENT WITH

SANDPIPER® AIR WEAR KITS

DID YOU KNOW?

SANDPIPER offers Complete Air Kits, as well as smaller kits called Air Wear Kits, for most pump models?

What's the difference?

Complete Air Kits include everything you need to do a complete replacement of the main air valve and pilot valve assemblies as well as the elastomeric wear items (gaskets, seals, o-rings, bushings) included in the Air Wear Kits.



Air Wear Kits include just the elastomeric wear items (gaskets, seals, o-rings, bushings) to service the air side of the pump. They do not include a new main air valve or pilot valve assemblies found in the Complete Air Kits.



Protect your SANDPIPER pump's performance, longevity and safety by using only genuine SANDPIPER parts.

Complete Air Kits & Air Wear Kits

Pump Model	Complete Air Kit	Air Wear Kit
S05 Metallic	476.239.000	476.318.000
S1F Metallic	476.228.000	476.319.000
S15 Metallic	476.227.000	476.320.000
S20 Metallic	476.227.000	476.320.000
S30 Metallic	476.227.000	476.320.000
G05 Metallic	476.239.000	476.318.000
G05 Metallic Air Kits W/ FKM Air Side	476.237.363	476.318.363
G1F Metallic	476.228.000	476.319.000
G1F Metallic Air Kits W/ FKM Air Side	476.228.363	476.319.363
G15 Metallic	476.227.000	476.320.000
G15 Metallic Air Kits W/ FKM Air Side	476.227.363	476.320.363
G20 Metallic	476.227.000	476.320.000
G20 Metallic Air Kits W/ FKM Air Side	476.227.363	476.320.363
G30 Metallic	476.227.000	476.320.000
G30 Metallic Air Kits W/ FKM Air Side	476.227.363	476.320.363
G10F Metallic	476.361.000	476.341.000
G10F Metallic Air Kits W/ FKM Air Side	476.361.363	476.341.363
G20F Metallic	476.359.360	476.360.360
G20F Metallic Air Kits W/ FKM Air Side	476.359.363	476.360.363
SB1 Metallic	476.311.000	476.341.000
HDB1 1/2 Metallic	476.362.000	476.314.000
HDB2 Metallic	476.362.000	476.314.000
HDB3 & HDB4 Metallic	476.252.000	476.315.000
HDF1 Metallic	476.311.000	476.341.000
HDF2 Metallic	476.247.000	476.316.000
HDF3 & HDF4 Metallic	476.247.000	476.316.000
ST1 Metallic	476.130.000	476.317.000
PB1/4 Non-Metallic	476.129.000	476.321.000
S05 Non-Metallic	476.219.000	476.322.000
S07 Non-Metallic	476.219.000	476.322.000
S10 Non-Metallic	476.219.000	476.322.000
S1F Non-Metallic	476.217.000	476.323.000
S15 Non-Metallic	476.253.000	476.324.000
S20 Non-Metallic	476.253.000	476.324.000
S30 Non-Metallic	476.365.000	476.390.000

Protect your SANDPIPER pump's performance, longevity and safety by using only genuine SANDPIPER parts.

Visit www.sandpiperpump.com or scan the QR code to learn more.



We Continue To Innovate With Our Customers' Needs In Mind

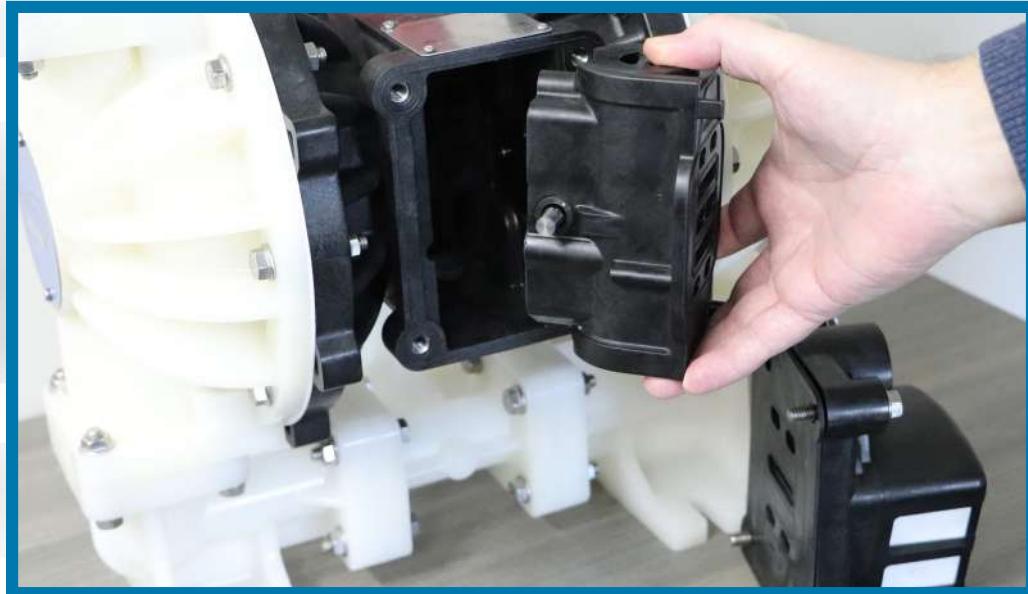
ESADS+

SANDPIPER'S Externally Serviceable Air Distribution System

ESADS+ has been an industry leading maintenance feature for AODD pumps for decades. With ESADS+ you can access the critical pilot valve components and get your pump back up and running in as little as 5 minutes. This feature remains a standard on our AODD pump products, and now has been improved in our patent pending EvolutionX air valve system.



Learn More



With the EvolutionX we have put all the main and pilot air valve components into one easy to access cartridge assembly. By removing just 4 bolts you can service the entire air valve body, without disassembling the whole pump. See page 16.



Warren Rupp, Inc. | A Unit of IDEX Corporation
800 North Main Street, Mansfield, OH 44902 USA
Phone: 419.524.8388 | Fax: 419.522.7867
SANDPIPERPUMP.COM

Contact Your Local Distributor to Place Your Order: