



PRODUCT CATALOG



Heavy Duty Flap Valve

For fluids containing up to line size solids.

Containment Duty Ball Valve

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

What is

OPTIMIZED PERFORMANCE

Optimized performance

without sacrificing proven reliability. These pumps have undergone an engineering **EVOLUTION**, leveraging trusted and proven product designs to improve their performance by application of advanced engineering methods. Unlike the competition, these pumps are fully interchangeable with prior models.

OUR SIGNATURE ENSURES YOUR SUCCESS

Heavy Duty

Ball Valve

For fluids containing settling, suspended & floating solids.

SANDPIPER

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

LEARN MORE AT: SANDPIPERPUMP.COM/SIGNATURE-SERIES

WHEREVER YOU SEE THIS BADGE:

These pumps have gone through our Evolution performance improvement. Watch for more Engineering Evolutions to come in the near future!



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LEARN MORE AT: SANDPIPERPUMP.COM/EVOLUTION

SANDPIPERPUMP.COM



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

For over 50 years, SANDPIPER, a Warren Rupp, Inc. brand, has been a leading global Air Operated Double Diaphragm (AODD) pump company, featuring the broadest range of products to meet the needs of a wide variety of applications. Decades of innovation, combined with world class engineering expertise, allows the SANDPIPER team to create products that meet the demand of an ever-changing marketplace. LEARN MORE AT SANDPIPERPUMP.COM

Global Coverage Contacts in 75 Countries and Over 1 Million Pumps Sold

THE REAL PROPERTY OF

World Headquarters 800 N. Main Street Mansfield, Ohio 44902 USA

> **Pump Technology** Air Operated Double Diaphragm Pumps (AODD)

Certified Quality

> EHC **EurAsian** Conformity Certified to sell products into Eurasian Economic Union

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SANDPIPER

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WHY CHOOSE AODD PUMPS

Features & Benefits

Dry-run without damaging

pump or product damage

Pumps solid laden fluids without

Self-priming, works in suction

Deadheads safely, with no

pump or product damage

Shear sensitive, does not shear or separate product being pumped

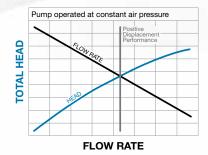
the pump or system

lift applications

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 displacement type, 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.









No electricity required, and can be fully grounded



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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

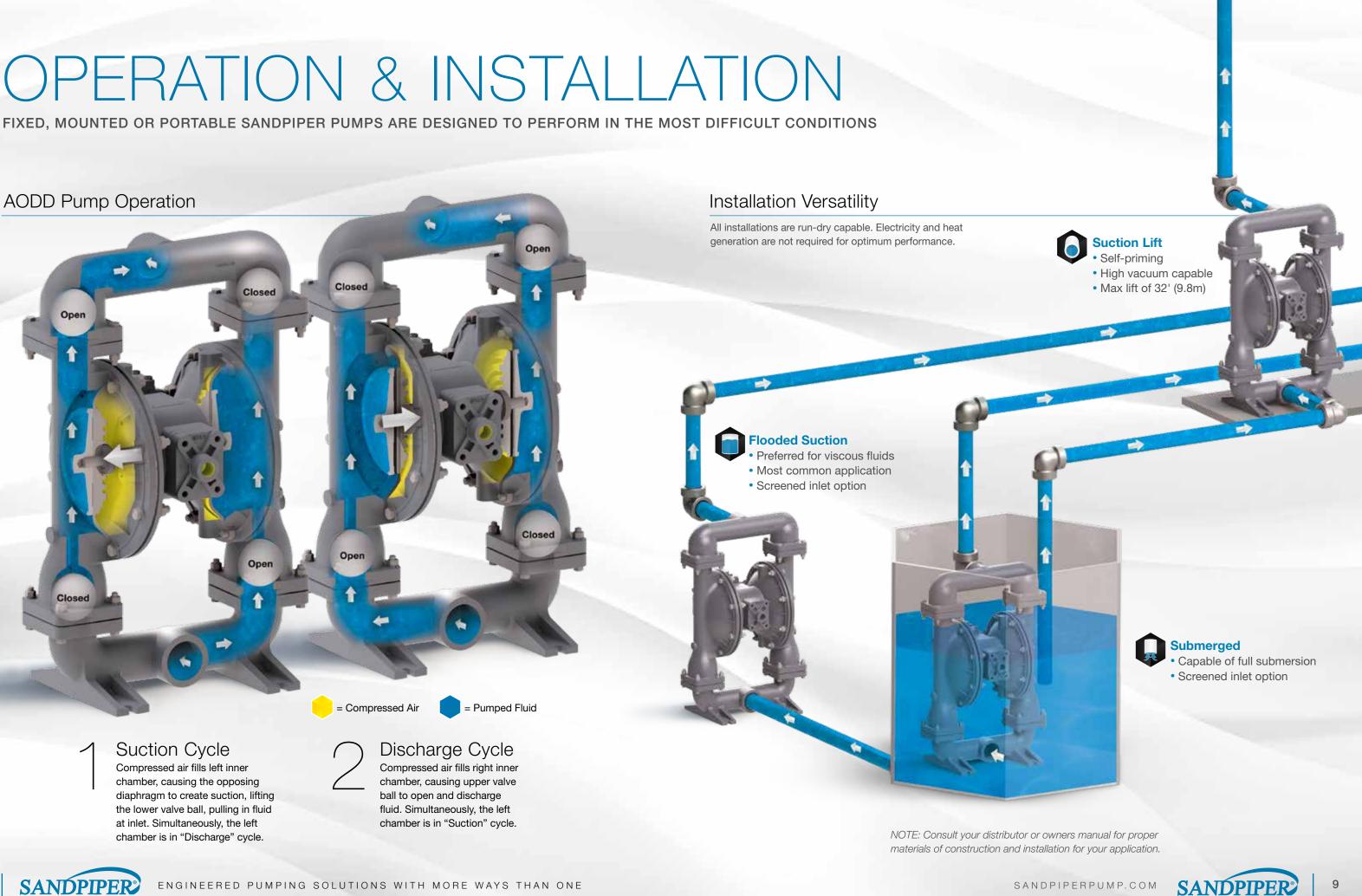
Variable flow and head pressures, without sophisticated controls

Optional bottom discharge porting depending on fluid characteristics



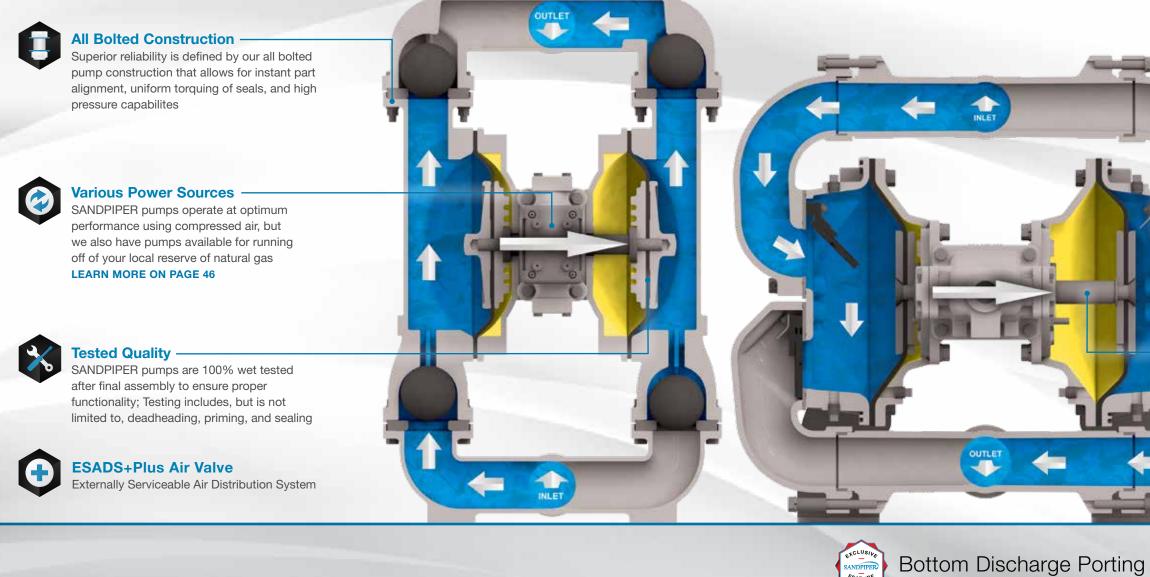


OPERATION & INSTALLATION



THE SANDPIPER ADVANTAGE

WITH NEARLY 50 YEARS OF PUMPING EXPERTISE, WE PROVIDE APPLICATION DRIVEN PUMPING SOLUTIONS





ROBUST DIAPHRAGM CONNECTING ROD Guaranteed not to yield under tension, compression, or bending.



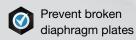
5 YEAR LIMITED PRODUCT WARRANTY 5 Year Guarantee for defects in material or workmanship.

ESADS+PLUS **AIR DISTRIBUTION SYSTEM**

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



Eliminate the damage from settling solids in your pump, with the exclusive bottom discharge capabilities of our Heavy Duty Ball Valve and Heavy Duty Flap Valve pump lines.



Eliminate diaphragm

Ensure even diaphragm • wear for longevity

See our connecting rod guarantee





Superior Performance

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



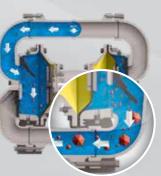
Flap Check Valve

Flap check valves allow for maximum solids passage of up to 3" (75mm)

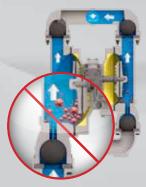
Guaranteed Connecting Rod

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





Bottom Discharge



Top Discharge

SANDPIPERPUMP.COM



ENGINEERING CAPABILITIES

NO MATTER THE CIRCUMSTANCES, WE PROVIDE CUSTOM ENGINEERED SOLUTIONS TO MAXIMIZE THE PRODUCTIVITY OF ALL PROCESSES

Custom Engineered Systems

Some examples of our custom systems include:

- Skid systems
- High pressure, filter press feed systems
- Mobile skid systems
- Custom environmental protection packaging
- Heat jacket systems
- · Nuclear industry waste handling and flushing systems

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

Contact our Application Engineering Team today: WRM.APPTECH.SP@IDEXCORP.COM

Plate and frame filter press pumping system is an example of a custom engineered project.



Product Services



Performance Testing

Assembly cycle with hold pressure vacuum readings (standard), one-point head capacity, and dry lift



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)



Custom Coating

Epoxy, water based, two part (exterior only), customer specific, PTFE, Halar®, nickel plated midsection



Custom Products

Custom and engineered products, product dimensional outlines and systems



Custom Nameplates

Custom stainless steel nameplates (4 lines, 24 letter maximum)



Material Testing

PMI (Positive Material Identification), hardness testing, liquid penetrant testing, radiographic testing, magnetic particle testing, and others upon request



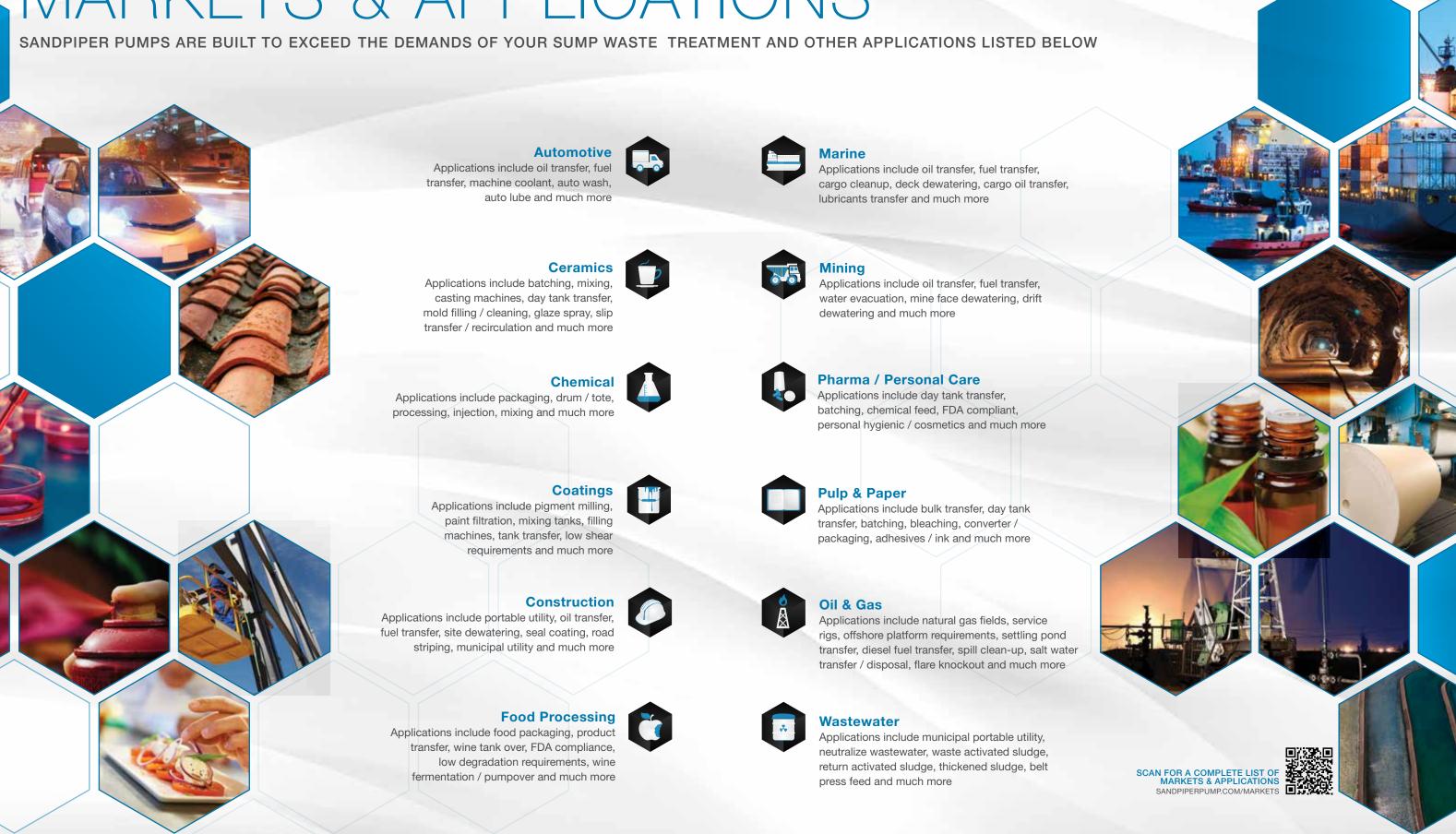
Additional Pump Testing

Impact test, seismic test, sound test, and others upon request

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MARKETS & APPLICATIONS



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

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PUMP SELECTION

A FUNDAMENTAL REVIEW OF FLUID CHARACTERISTICS, INTENDED INSTALLATION & DUTY REQUIREMENTS ARE RECOMMENDED FOR "BEST FIT" DESIGN SELECTIONS

Pump Characteristics

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



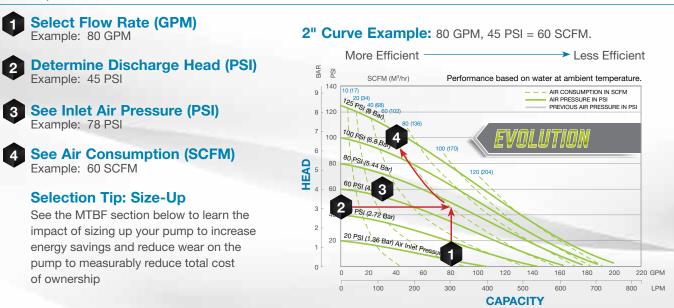




	SIGNATURE COM	NFIGURATIONS	Heavy Duty Flap Valve	Heavy Duty Ball Valve	Containment Duty Ball Valve	Standard Duty Ball Valve · Metallic	Standard Duty Ball Valve · Non-Metal
	Suction / Dis	charge Port Sizes	1" through 4"	1" through 4"	1" through 3"	1/4" through 3"	1/4" through 3"
Ø	Max Flow F	Rate Per Minute	310 Gal. (1173 L)	300 Gal. (1136 L)	260 Gal. (988 L)	285 Gal. (1079 L)	280 Gal. (1060 L)
Specifications	Max Disc	charge Heads	289' (88m) of water @125psi	231' (70m) of water @100psi			
pecifi	Max Displace	ement 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)
S	Max	Dry Prime	24' (7m)	20' (6m)	18' (5.5m)	20' (6m)	20' (6m)
	Max Sol	ids Handling	3" (75mm)	.88" (22mm)	.44" (10mm)	.38" (10mm)	.71" (18mm)
	٨	Vater	+	+	+	+	+
	Susper	nded Solids	+	+	✓	+	✓
	Non-Sus	pended Solids	+	1	X		X
stics	Line S	Size Solids	+	X	X	X	X
acteri	Sludg	ge / Slurry	+	+		✓	
Fluid Characteristics	High Viscosity	(Flowable Fluids)	 ✓ 	+	\checkmark	\checkmark	\checkmark
Fluid		High	+	+		\checkmark	
	Erosion / Abrasive Fluids	Moderate	+	+	1	\checkmark	1
		Low	+	+	\checkmark	+	\checkmark
	Co	rrosion	✓	✓	+	✓	+
	Per	manent	+	+	✓	✓	 ✓
	Po	ortable	+	+	+	+	+
lation	Containme	ent / Prevention	1	1	+		
Installation	Flood	ed Suction	✓	+	 ✓ 	✓	✓
	Suc	tion Lift	+	✓	✓	\checkmark	✓
	Sub	omerged	\checkmark	✓		\checkmark	1
Duty	Intermitten	t / On-Demand	+	+	+	+	+
DU	Cor	ntinuous	✓	+	✓	V	\checkmark

Pump Performance

2



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

Additional Resources

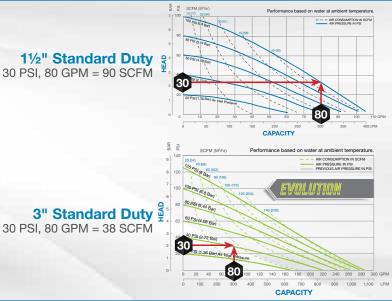


Technical Resources Find further information on sizing and selection of SANDPIPER products at SANDPIPERPUMP.COM/TECH_RESOURCES

= Best Type = Suitable = Limitations = Not Recommended



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Chemical Guide

Available as both a free mobile app or PDF, this chemical compatibility guide will help you zero in on the pump that fits your process best. CHEMGUIDE.SANDPIPERPUMP.COM

EXCLUSIVE PUMP CONFIGURATIONS WITH THE BROADEST RANGE OF CONFIGURATIONS, SANDPIPER HAS A SOLUTION FOR YOUR PUMPING PROBLEM, WITH MORE WAYS THAN ONE



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



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
- · Free standing support base



SANDPIPER

ALL SANDPIPER PUMPS feature the

exclusive ESADS+Plus performance guaranteed, in-line serviceable, air valve system.

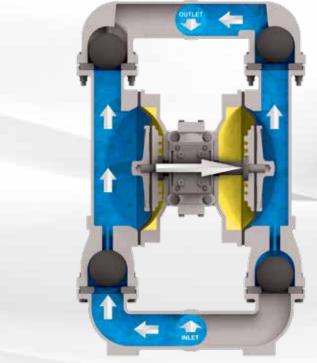




ALL SANDPIPER PUMPS come with a guaranteed diaphragm connecting rod.

ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

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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

HEAVY DUTY FLAP VALVE PUMPS

FOR FLUIDS CONTAINING UP TO LINE SIZE SOLIDS

HDF Pumps are recommended for abrasive slurries, suspended and 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) and PTFE options in diaphragms and check valves. HDF pumps are enhanced with an extended wear package.



Durable Diaphragm Connecting Rods Reliable and consistent diaphragm control



Lightweight & Portable Weights range from 48 lbs (21 kg)



ESADS+Plus Air Valve Externally Serviceable Air Distribution System



Bottom Discharge For pumping out of tough areas



Flap Check Valves Provide large solid abilities



All Bolted Construction Durable and high pressure capable





Solids Range +1" (25mm) to 3" (75mm)



Superior Dry Prime Up to 24' (7m) of water

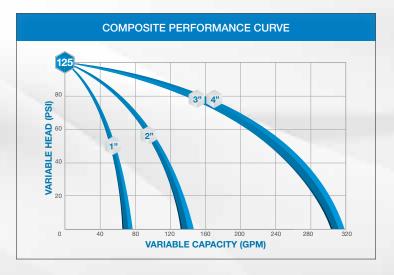


Certifications Available





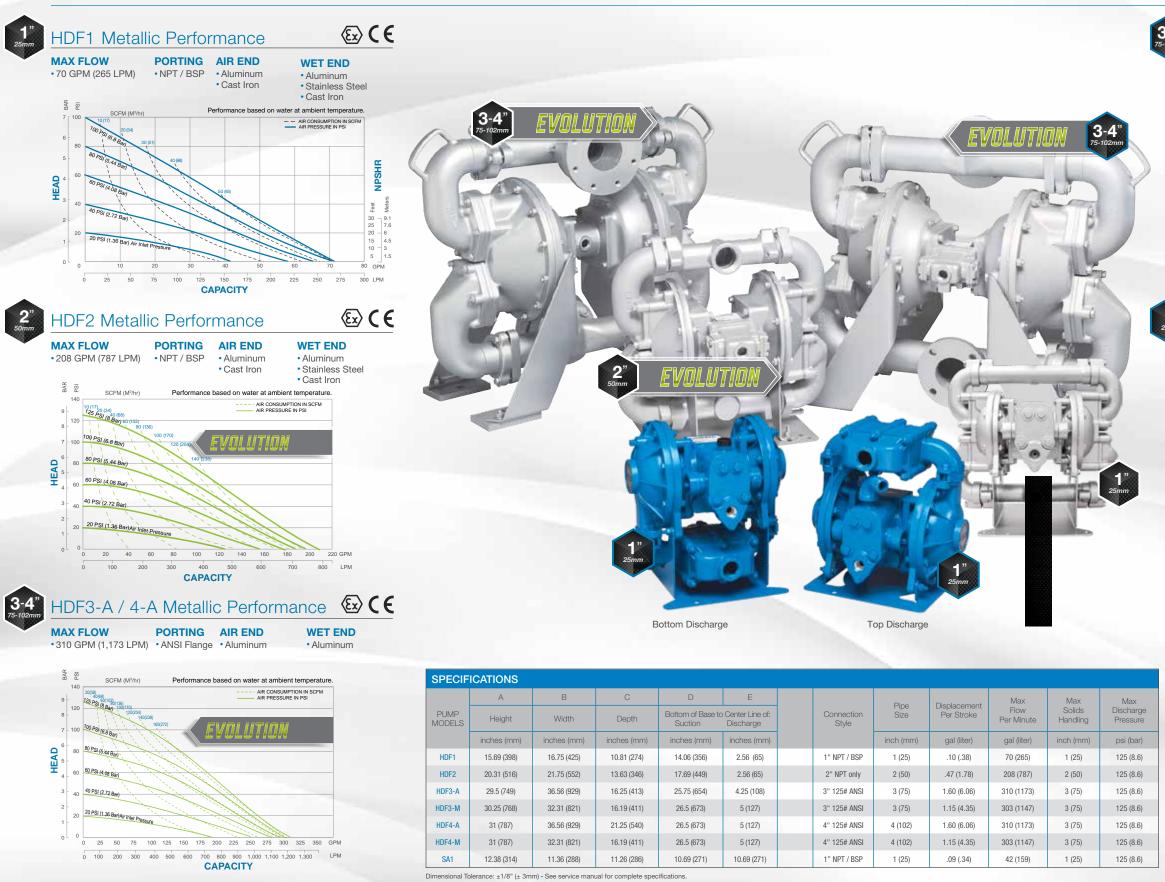
	PUMP CHARA	CTERISTICS	Metallic
	١	Vater	+
	Susper	nded Solids	\checkmark
	Non-Sus	pended Solids	+
tics	Line S	Size Solids	+
Fluid Characteristics	Sludg	ge / Slurry	+
id Char	High Viscosity	/ (Flowable Fluids)	\checkmark
Flu		High	+
	Erosion / Abrasive Fluids	Moderate	+
		Low	+
	Co	prosion	✓ +
	Per	manent	+
	Po	ortable	+
Installation	Containme	ent / Prevention	
Instal	Flood	ed Suction	\checkmark
	Suc	tion Lift	+
	Sub	omerged	\checkmark
Duty	Intermitten	t / On-Demand	+
D	Cor	ntinuous	\checkmark
-	Best Type V = Suitable	e = Limitations X =	Not Recommended



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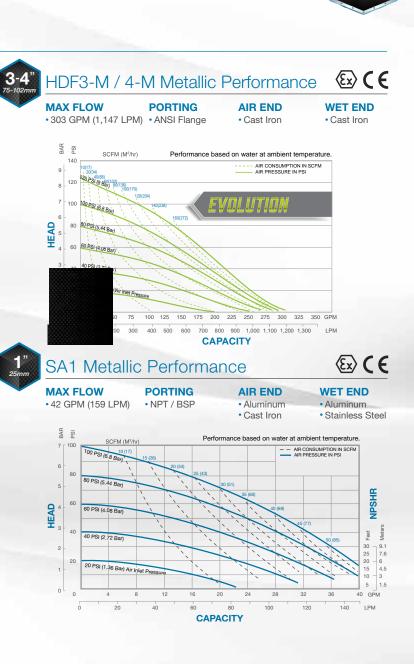
HEAVY DUTY FLAP VALVE PUMPS

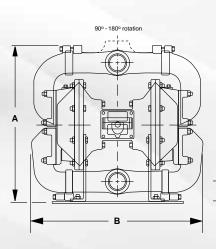
PERFORMANCE & SPECIFICATIONS

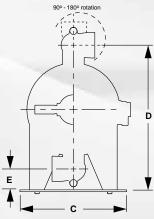




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SANDPIPER

2" NON-METALLIC FLAP VALVE PUMP

YOUR MINING, GENERAL INDUSTRIAL AND CHEMICAL SOLUTION

The robust, yet lightweight design allows for ease of maintenance and movement, and is ideal for handling solids and corrosive fluids. This unique pump has been engineered to fully function in any position, includes lifting handles and hanging points, and has durable mounting feet. This is an ideal solution for numerous applications.



Lightweight & Durable The non-metallic, lightweight design makes it easily portable at 53 lbs (24 kg)



Reliability Guarantee Strongest diaphragm connecting rod in the industry is guaranteed to not bend or yield in operation



Rugged Design -Stainless steel seats prevent abrasion when pumping solids laden fluids



Optimum Solids Handling-Hinge pads exert positive pressure on the flaps, allowing the pump to operate

in virtually any position; they help deliver superior suction lift and flow rates

Long Life -

A proven diaphragm design in conjunction with exclusive wear pads reduce plate abrasion, delivering extended life



Purpose Built Base -

The threaded version features stainless steel mounting feet and the flanged version features Polypropylene mounting feet







- Industrial Mounting Capabilities

Addition of stainless steel hanging points located on the manifold allow for multiple mounting options



Strong Manifold Connections

Optional flanged or threaded connection for additional flexibility: Stainless steel reinforcing rings help protect the threaded manifold connections from being damaged





Ergonomic Handle

Lifting handles come standard, allowing for easy pump transport; handles can be rotated 90 degrees for proper ergonomics, depending on desired use



- Unsurpassed Performance

Industry leading flow rates, suction lift, air efficiency and displacement per stroke



Versatile Design

This pump will function in any position, including uneven surfaces



- Simple Maintenance

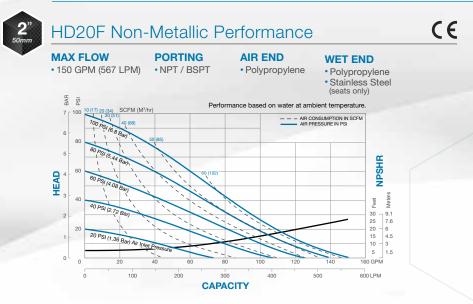
With our signature ESADS+Plus (Externally Serviceable Air Distribution System) air valve design and externally serviceable flap valve modules, in-field service is quick and easy, saving you from unnecessary downtime



Visit SANDPIPERPUMP.COM/ESADSVIDEO to see how easy the ESADS air valve makes maintaining the 2" Non-Metallic Flap Valve.

HEAVY DUTY NON-METALLIC FLAP VALVE PUMP

PERFORMANCE & SPECIFICATIONS



Ease of Valve Maintenance

To help increase productivity and reduce downtime, the 2" Non-Metallic Flap Valve Pump was engineered with ease of maintenance in mind.

QUICK ACCESS TO SERVICEABLE COMPONENTS

1. Remove Clean-Out Cap-

By simply removing six bolts securing the clean-out cap in place, it allows access to clear simple clogs without disassembling the entire pump.

2. Modular Check Valve Access

With the clean-out cap removed, the flap valves can be inspected and / or replaced as needed. Four bolts hold the modular flap valves in place for quick maintenance and repair.

3. ESADS+Plus-

Proven air distribution system allows for maintenance and / or repair of both pilot valve and air valve components without removing the pump from service.

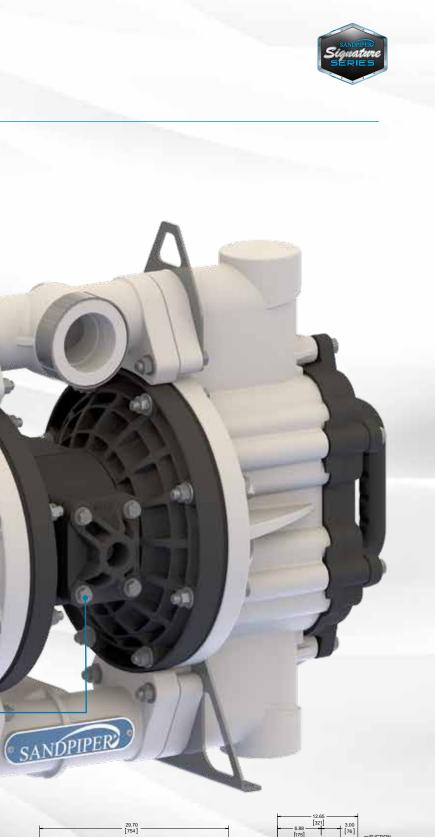


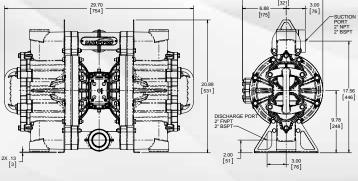
Visit **SANDPIPERPUMP.COM/ESADSVIDEO** to see how easy the ESADS air valve makes maintaining the 2" Non-Metallic Flap Valve.

CATIONS											
А	В	С	D	E		Connection Style	Pipe Size	Displacement	Max	Max Solids Handling	Max Discharge Pressure
Height	Width	Depth	Bottom of Base to of: Suction	to Center Line Discharge				Per Stroke	Flow Per Minute		
inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)			inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
20.89 (531)	29.7 (754)	12.65 (321)	17.56 (446)	2 (50)		2" NPT / BSPT	2 (50)	.50 (1.9)	150 (567)	1.8 (46)	100 (7)
	A Height inches (mm)	A B Height Width inches (mm) inches (mm)	A B C Height Width Depth inches (mm) inches (mm) inches (mm)	A B C D Height Width Depth Bottom of Base of: Suction inches (mm) inches (mm) inches (mm) inches (mm)	A B C D E Height Width Depth Bottom of Base to Center Line Discharge inches (mm) inches (mm) inches (mm) inches (mm)	A B C D E Height Width Depth Bottom of Base to Center Line Discharge inches (mm) inches (mm) inches (mm) inches (mm)	A B C D E Height Width Depth Bottom of Base to Center Line Discharge Connection Style inches (mm) inches (mm) inches (mm) inches (mm) inches (mm)	A B C D E Height Width Depth Bottom of Bass to Center Line of: Suction Discharge inches (mm) inches (mm) inches (mm) inches (mm) inches (mm)	A B C D E Height Width Depth Bottom of Base to Center Line of: Suction of Style Pipe Size Pipe Size Displacement Per Stroke inches (mm) inches (mm)	A B C D E Height Width Depth Bottom of Base to Center Line of: Suction of Size Pripe Size Pripe Size Displacement Per Stroke Max Flow Per Minute inches (mm) inches (mm)	A B C D E Height Width Depth Bottom of Base to Center Line of: Suction of Size Pipe Size Displacement Per Stroke Max Flow Per Minute Max Solids Handling inches (mm) inches (mm)

ensional Tolerance: ±1/8" (± 3mm) · See service manual for complete specifications.







SANDPIPER

SANDPIPERPUMP.COM

HEAVY DUTY BALL VALVE PUMPS

Top Porting Position

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. HDB pumps are enhanced with an extended wear package.

> Bottom or Top Porting Positions Greater process connection flexibility

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All Bolted Construction Durable and high pressure capable

Lightweight & Portable Weights as low as 31 lbs (14 kg)

> Ball Check Valves Provide powerful, high flow pumping

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Diaphragm Connecting Rods Reliable and consistent diaphragm control



ESADS+Plus Air Valve Externally Serviceable Air Distribution System

Dynamic Manifold Connections Can be vertically or horizontally mounted



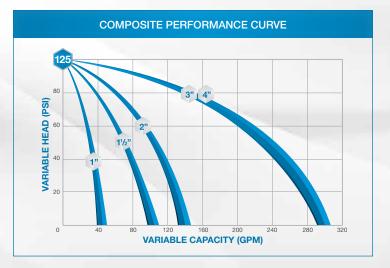
Certifications Available



SANDPIPER



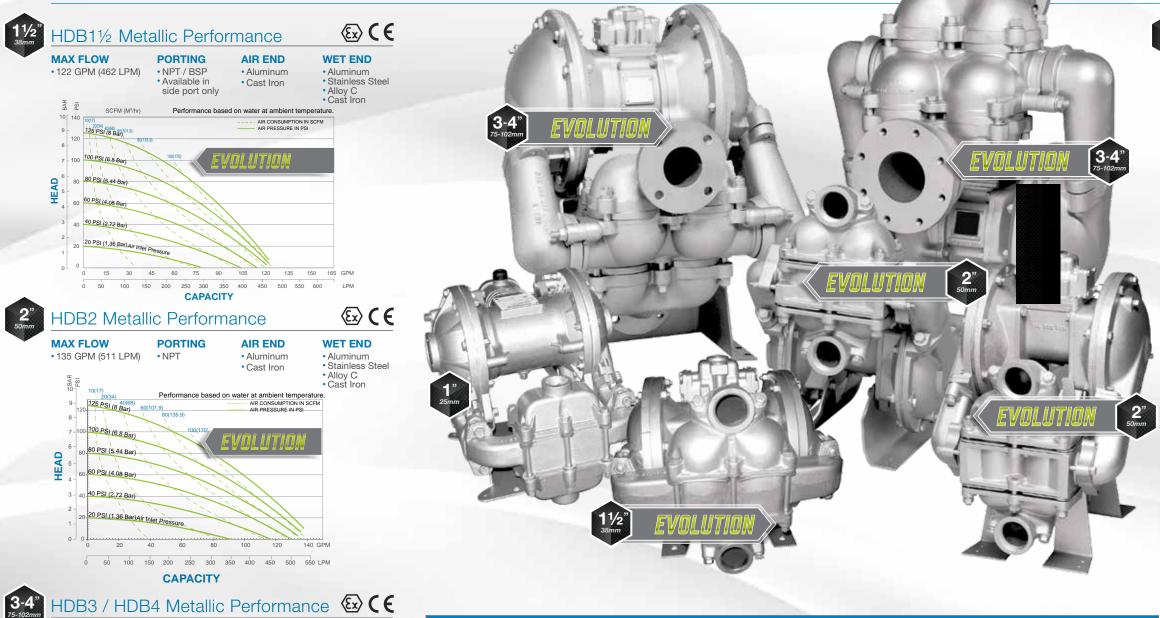
	PUMP CHARA	CTERISTICS	Metallic						
	١	Nater	+						
	Susper	nded Solids	+						
	Non-Sus	pended Solids	+						
tics	Line S	Size Solids	X						
Fluid Characteristics	Sludg	ge / Slurry	+						
id Char	High Viscosity	(Flowable Fluids)	+						
Flui		High	+						
	Erosion / Abrasive Fluids	Moderate	+						
		Low	+						
	Cc	prrosion	✓ +						
	Per	manent	+						
	Po	ortable	\checkmark						
Installation	Containme	ent / Prevention	<u> </u>						
Instal	Flood	ed Suction	+						
	Suc	ction Lift	\checkmark						
	Sub	omerged	\checkmark						
Duty	Intermitten	t / On-Demand	+						
DU	Cor	ntinuous	+						
-}- =	= Best Type = Suitable = Limitations X = Not Recommended								



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HEAVY DUTY BALL VALVE PUMPS

PERFORMANCE & SPECIFICATIONS



HDB3 / HDB4 Metallic Performance 🙆 🤆 E

AIR END

WET END

PORTING

• 3(00 GPI	M (1,136 LPM)	ANSI Flange	Cast Iron	 Stainless Steel Cast Iron
	r				
	PSI	SCFM (M ³ /hr)	Performance base	ed on water at ambient ter	nperature.
	140				
Ş		20(34)		AIR CONSUMPTION	
	120	5 PSI (8 Bar) 100(169.9)			
٤	3 - 120	31 (8 Bar) 80(135.9) 100(169.9)			
		120	203.9)		
	7 - 100 10	0 PSI (6.8 Bar)	140(237.9)	ini litini	
	100	6.8 Bar	160(271.8)	WLW HUN	
		- Jar)	180(305.8		
6	5 .		(bolooco)		
	80 80	0 PSI (5.44 Bar)			
₹ ₹	-	(FF Bar)	200(339.8)		
- mi 1					
HEAD	60	0 PSI (4.08 Bar)			
- 4	4 60	07 (4.08 Bar)	and the second second		
3		0.000			
	° 40 💾	0 PSI (2.72 Bar)			
		N	and the second second		
2	2 -	1 N T			
	21	0 PSI (1.36 Bar)Air Inlet F			
	20	(1.00 Bar)Air Inlet F	Tessin	1.11	
1			ocoure.		
	0	100 C	the second s		
(յլ ՝ 🗆			146.6	
	0	25 50 75 1	00 125 150 175 200	225 250 275 300 32	5 350 GPM
		1 1 1			
	0	100 200 300 4	00 500 600 700 800	900 1,000 1,100 1,200 1,	300 LPM
			CAD		
			CAP	ACITY	

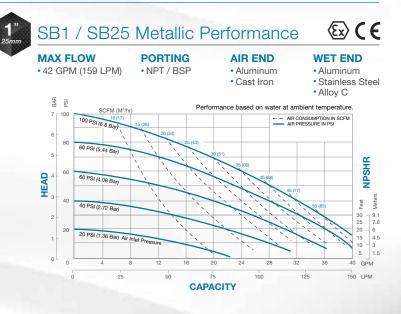
PECIFICATIO											
	A	В	С	D	E		Pipe	Displacement	Max	Max	Max
PUMP MODELS	Height	Width	Depth	Bottom of Base of: Suction	to Center Line Discharge	Connection Style	Size	Per Stroke	Flow Per Minute	Solids Handling	Discharge Pressure
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
SB1 / SB25	14.44 (367)	11.75 (298)	13.28 (337)	5.25 (133)	13 (330)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
SB1 TOP	13.5 (342)	11.75 (298)	14.88 (378)	5.62 (142)	13.5 (342)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
SB1 BOTTOM	13.69 (347)	11.75 (298)	14.88 (378)	2.22 (21)	8.44 (214)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
HDB1½ TOP	19.22 (488)	15.5 (419)	17 (432)	8.14 (207)	18.08 (459)	11/2" NPT/BSP	1.5 (38)	.37 (1.4)	122 (462)	.25 (6)	125 (8.6)
HDB2 TOP	22.19 (564)	15.5 (394)	16.81 (427)	9.12 (232)	20.88 (530)	2" NPT	2 (50)	.46 (1.7)	135 (511)	.38 (9)	125 (8.6)
HDB2 BOTTOM	23.25 (591)	15.5 (394)	16.81 (427)	3.44 (87)	15.19 (386)	2" NPT	2 (50)	.46 (1.7)	135 (511)	.38 (9)	125 (8.6)
HDB3 TOP	37.13 (943)	26 (661)	20.75 (527)	20 (509)	33.33 (848)	3" 125# ANSI	3 (75)	2.0 (7.6)	300 (1136)	.87 (22)	125 (8.6)
HDB3 BOTTOM	31.25 (794)	26 (661)	24.62 (625)	5.75 (146)	19.33 (492)	3" 125# ANSI	3 (75)	2.0 (7.6)	300 (1136)	.87 (22)	125 (8.6)
HDB4 TOP	37.88 (962)	26 (661)	23.75 (603)	20 (509)	33.33 (848)	4" 125# ANSI	4 (102)	2.0 (7.6)	300 (1136)	.87 (22)	125 (8.6)
HDB4 BOTTOM	31.25 (793)	26 (661)	27.5 (699)	5.75 (146)	19.33 (492)	4" 125# ANSI	4 (102)	2.0 (7.6)	300 (1136)	.87 (22)	125 (8.6

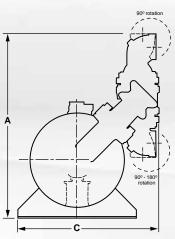
Dimensional Tolerance: ±1/8" (± 3mm) • See service manual for complete specifications.



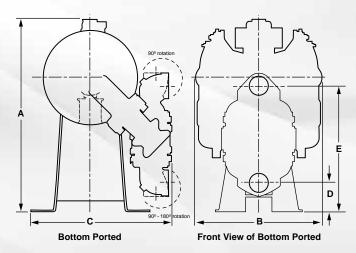
MAX FLOW











CONTAINMENT DUTY BALL VALVE PUMPS

THE ONLY COMPLETE LINE OF AODD PUMPS FEATURING SUPERIOR FLUID CONTAINMENT; PROTECTING YOUR PEOPLE, ENVIRONMENT, AND PUMP

Containment Duty Metallic and Non-Metallic Pumps are ideal for highly corrosive and hazardous chemical fluid requirements. All containment duty pumps are exclusively designed with containment chambers, hydraulically balanced/coupled pumping diaphragm and driver diaphragm assemblies. All containment chambers are designed to accommodate visual, mechanical and low voltage leak detection devices. CD pumps are constructed of Aluminum, Cast Iron, Stainless Steel, Alloy C, Polypropylene and PVDF with TPE (thermal plastic elastomers), PTFE options in diaphragms and check valves.



All Bolted Construction Durable and high pressure capable

Top Discharge For pumping out of tough areas



Diaphragm Connecting Rods Reliable and consistent diaphragm control



Ball Check Valves Provides powerful, high flow pumping



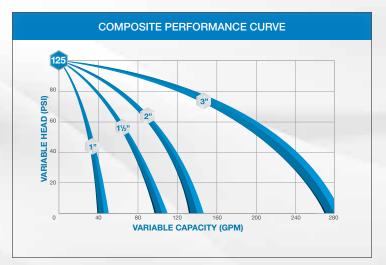
ESADS+Plus Air Valve Externally Serviceable Air Distribution System







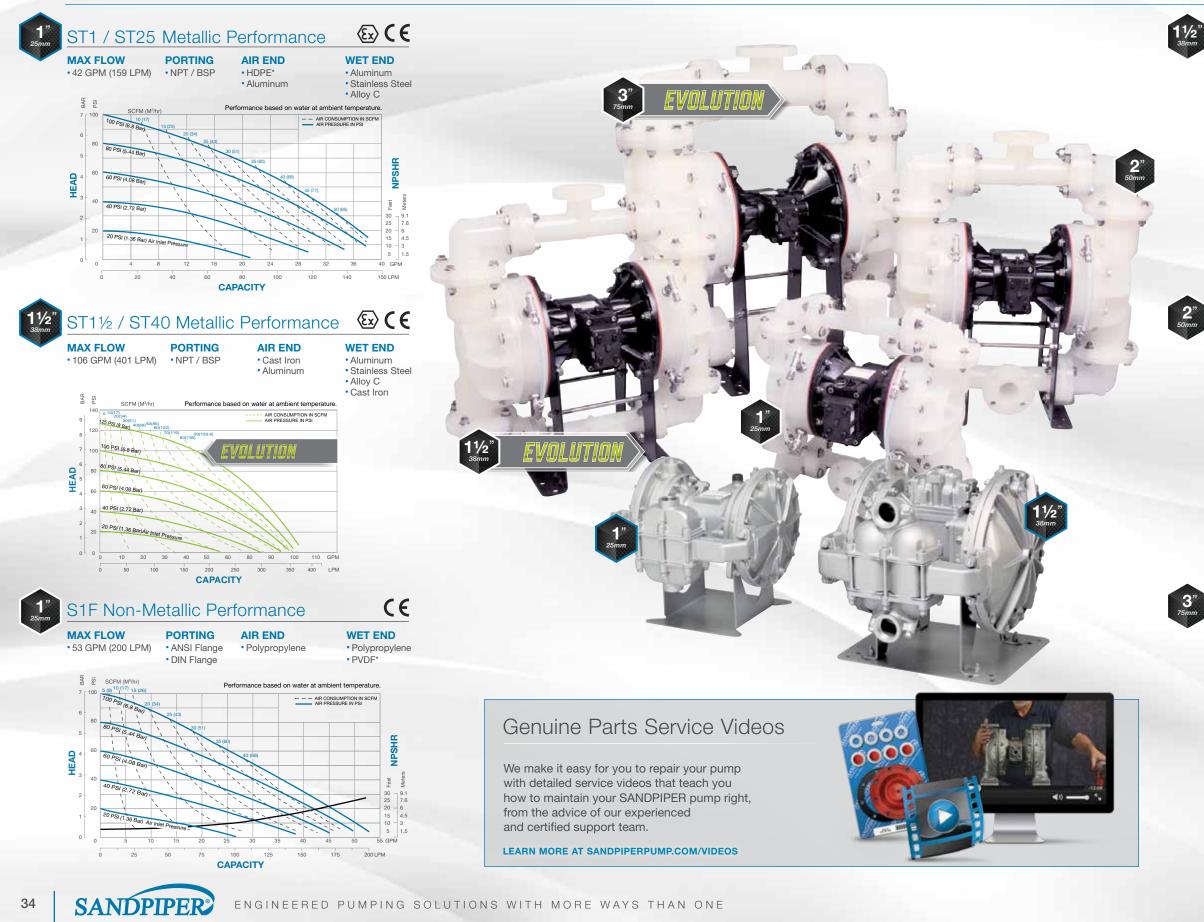




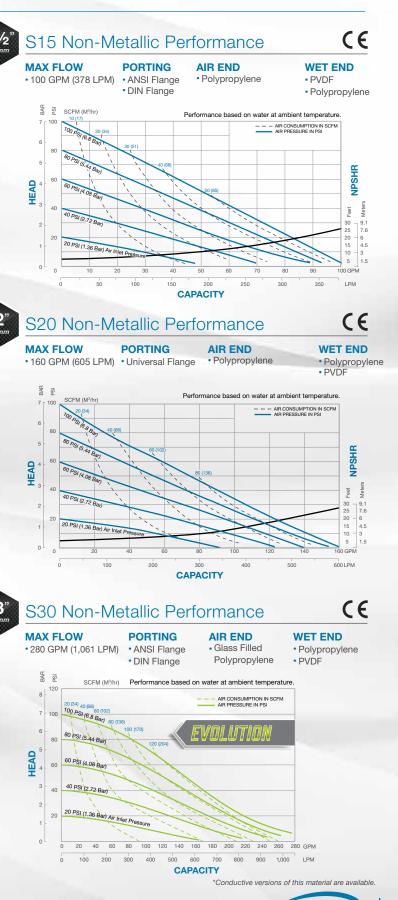


CONTAINMENT DUTY BALL VALVE PUMPS

PERFORMANCE & SPECIFICATIONS









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 and non-metallic materials such as PTFE, Polypropylene, and PVDF with elastomer TPE (thermal plastic elastomers) and PTFE options in diaphragms and check valves.



Lightweight & Portable Weights as low as 4 lbs (1.8 kg)



All Bolted Construction Durable and high pressure capable



Top Discharge For pumping out of tough areas



Ball Check Valves Provide powerful, high flow pumping



Diaphragm Connecting Rods Reliable and consistent diaphragm control



ESADS+Plus Air Valve Externally Serviceable Air Distribution System



Dynamic Manifold Connections 90° - 180° rotation options



2" & 3" STANDARD DUTY METALLIC AODD PUMPS

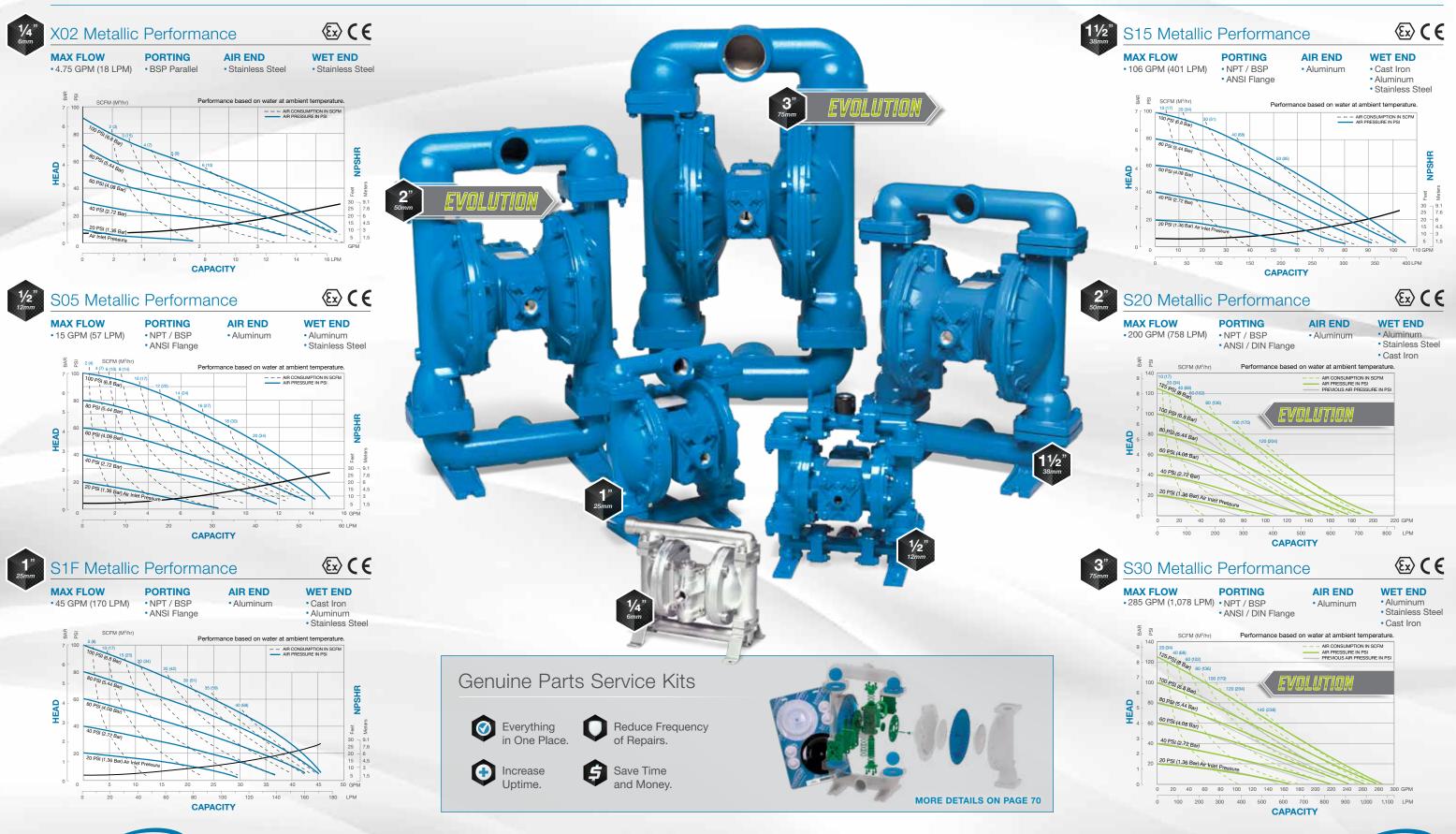
	CHARACT	Metallic	Non-Metallic	
	١	Vater	+	+
	Suspe	nded Solids	+	\checkmark
	Non-Sus	pended Solids	1	X
stics	Line S	Size Solids	X	X
Fluid Characteristics	Sludg	ge / Slurry	\checkmark	1
l Char	High Viscosity	y (Flowable Fluids)	\checkmark	V
Fluid		High	\checkmark	1
	Erosion / Abrasive Fluids	Moderate	\checkmark	1
		Low	+	\checkmark
	Co	prrosion	\checkmark	+
	Per	rmanent	-	\checkmark
	P	ortable	+	+
Installation	Containme	ent / Prevention	1	!
Instal	Flood	ed Suction	\checkmark	\checkmark
	Suc	ction Lift	\checkmark	\checkmark
	Sub	omerged	\checkmark	1
Duty	Intermitter	nt / On-Demand	+	+
D	Cor	ntinuous	\checkmark	\checkmark
	Best Type 🗸 = Suitabl	e = Limitations X =	Not Recommended	1



Optimized performance without sacrificing **proven reliability**. These pumps have undergone an engineering **EVOLUTION**, leveraging trusted and proven product designs to **improve their performance** by application of advanced engineering methods. Unlike the competition, these pumps are **fully interchangeable** with prior models.

Check out the S20 & S30 Metallic updates on page 39. Watch for more Engineering Evolutions to come in the near future!

PERFORMANCE & SPECIFICATIONS



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

SANDPIPER

PERFORMANCE & SPECIFICATIONS



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

SANDPIPER Mobile App

The SANDPIPER Mobile App can save you time and money by allowing you to track your

pump maintenance, submit quotes for kit purchasing and have instant access to many

LEARN MORE AT SANDPIPERPUMP.COM/MOBILEAPP

other tools and resources.

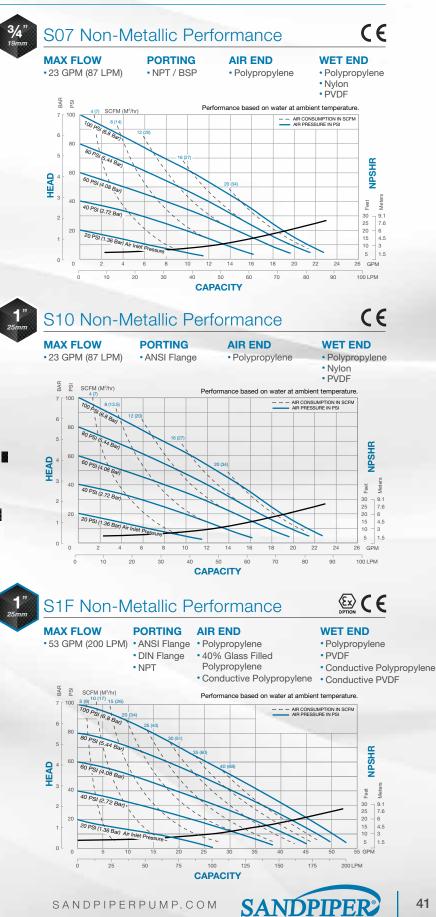
1 9 U W

1" 25mm

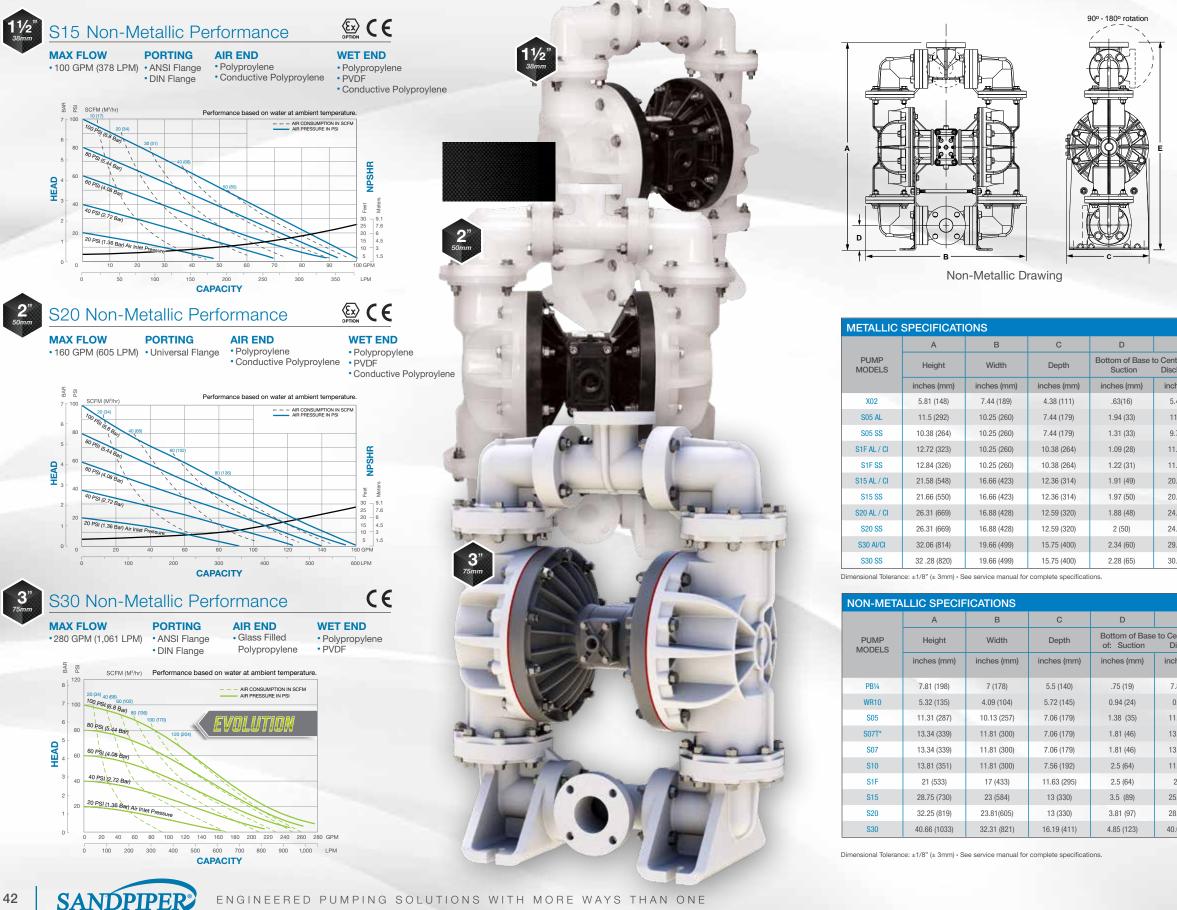
In-line ported options also available on S05 and S1F

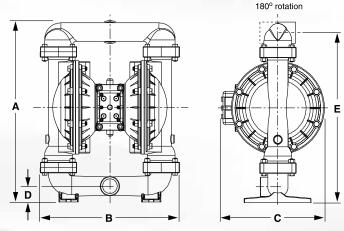


SANDPIPER



PERFORMANCE & SPECIFICATIONS





Metallic Drawing

E		Pipe	Displacement	Max	Max	Max	
ter Line of: charge	Connection Style	Size	Per Stroke	Flow Per Minute	Solids Handling	Discharge Pressure	
hes (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)	
.41 (138)	1/4" NPT/BSP	.25 (6)	.003 (.01)	4.75 (18)	.08 (2)	125 (8.6)	
1.5 (292)	1/2" NPT/BSP	.5 (12)	.026 (.098)	15 (57)	.13 (3)	125 (8.6)	
.72 (247)	1/2" NPT/BSP	.5 (12)	.026 (.098)	15 (57)	.13 (3)	125 (8.6)	
.84 (301)	1" NPT/BSP	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)	
.97 (304)	1" NPT/BSP	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)	
).31 (516)	11/2" NPT/BSP	1.5 (38)	.41 (1.55)	106 (401)	.25 (6)	125 (8.6)	
).38 (518)	11/2" NPT/BSP	1.5 (38)	.41 (1.55)	106 (401)	.25 (6)	125 (8.6)	
1.63 (625)	2" NPT/BSP	2 (50)	.42 (1.59)	200 (758)	.25 (6)	125 (8.6)	
1.75 (629)	2" NPT/BSP	2 (50)	.42 (1.59)	200 (758)	.25 (6)	125 (8.6)	
9.97 (761)	3" NPT/BSP	3 (75)	.94 (3.56)	285 (1,078)	.38 (9.5)	125 (8.6)	
).19 (767)	3" NPT /BSP	3 (75)	.94 (3.56)	285 (1,078)	.38 (9.5)	125 (8.6)	

E		Pipe	Displacement	Max	Max	Max	
enter Line Vischarge	Connection Style	Size	Per Stroke	Flow Per Minute	Solids Handling	Discharge Pressure	
hes (mm)	- 9	inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)	
.81 (198)	1/4" NPT	.25 (6)	.01 (.04)	4 (15)	.03 (1)	100 (6.9)	
).94 (24)	3/8 " NPT	.375 (10)	.009 (.034)	6.8 (26)	0.1 (2.25)	100 (6.9)	
1.31 (287)	1⁄2" NPT	.5 (13)	.026 (.098)	14 (52)	.125 (3)	100 (6.9)	
3.34 (339)	3/4" NPT	.75 (19)	.026 (.059)	13 (48)	.38 (9)	100 (6.9)	
3.34 (339)	3/4" NPT	.75 (19)	.026 (.098)	23 (87)	.15 (4)	100 (6.9)	
1.69 (297)	1" ANSI	1 (25)	.026 (.098)	23 (87)	.15 (4)	100 (6.9)	
21 (533)	1" U	1 (25)	.19 (.72)	53 (200)	.25 (6)	100 (6.9)	
5.19 (640)	11/2" ANSI or DIN	1.5 (38)	.36 (1.36)	100 (378)	.47 (12)	100 (6.9)	
3.19 (716)	2" U	2 (50)	.36 (1.36)	160 (605)	.66 (17)	100 (6.9)	
.66 (1033)	3" ANSI or DIN	3 (75)	1.0 (3.78)	280 (1061)	.75 (19)	100 (6.9)	

U = Universal: Fits both ANSI or DIN. *T – Tribedral

SPECIAL DUT

THE SAME QUALITY SANDPIPER PRODUCTS DESIGNED TO FIT SPECIFIC NEEDS



NATURAL GAS PUMPS

CSA certified to ANSI LC6 standard and Canadian Technical Letter No. R-14 for operation using sweet or sour natural gas



UL LISTED PUMPS (^UL) Designed to meet UL79 standards

for diaphragm pumps handling lammable liquids



SUBMERSIBLE CENTRIFUGAL PUMPS

Lightweight and powerful pumps great for high flow and close quarters pumping situations

PREMIUM FDA COMPLIANT PUMPS

Regulation 1935/2004/EC Compliant and the ultimate in leak protection and clean pumping with the paired performance of AODD technology



FDA COMPLIANT PUMPS Regulation 1935/2004/EC Compliant and

ideally suited for a variety of food processing, pharmaceutical and cosmetic industry applications



HIGH PRESSURE PUMPS Deliver discharge pressure twice the inlet

pressure, up to 250 PSI (17 BAR)





SANDPIPER PUMPS EXCEL IN EVERY ASPECT OF SAFETY AND RELIABILITY WITHIN THE OIL & GAS INDUSTRY

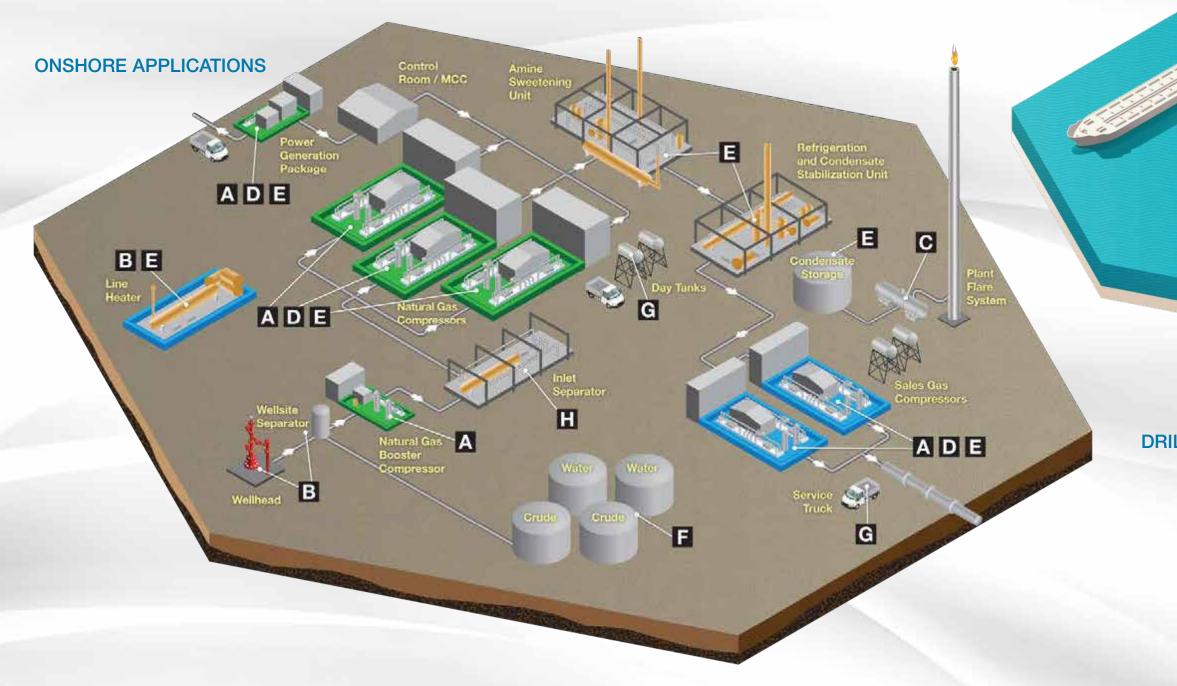
WIDEST AVAILABLE RANGE $3^{"}$ $2^{"}$ $2^{"}$ $2^{"}$ $2^{"}$ $1^{"$	SIZE & FLOW	8 8 1 ⁿ
285 GPM 200 GPM 208 GPM 106 GPM 70 GPM 45 GPM 15 GPM (170 IPM) (757 IPM) (787 IPM) (401 IPM) 285 IPM) (170 IPM) (57 IPM)		15 GPM 53 GPM (57 LPM) (201 LPM)
-10°F (-23°C) (82°C)	TEMP	32°F (0°C) 4 (52°C)
$\begin{array}{c} \textbf{BROADEST CERTIFICATIONS IN THE INDUSTRY}\\ \textbf{SAFETY COMPLIANCE WITH:}\\ \hline \\ With a state of the stat$	SAFETY	SAFETY COMPLIANCE WITH: With the second sec
LARGEST SOLIDS PASSAGE TOP & BOTTOM DISCHARGE Up to 2" BOTTOM DISCHARGE For Solids-Laden Fluids	SOLIDS HANDLING	TOP DISCHARGE ONLY Up to ¼"
EASE OF REPAIR & LESS DOWNTIME 5 minutes of on-site main or pilot valve repair with one wrench and removal of only 4 bolts	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
ENHANCED TEMPERATURE RESISTANCE AND CHEMICAL COMPATIBILITY Aluminum Stainless Steel Nitrile or FKM Elastomers	GAS / AIR END MATERIALS	LIMITED Aluminum only Nitrile Elastomers only
BEST GUARANTEE IN THE INDUSTRY Diaphragm Connecting Rod Guarantee Non-Stalling Air / Gas Valve Performance Guarantee 5-Year Limited Warranty	PERFORMANCE RELIABILITY	LIMITED Connecting Rod prone to bending 5-year Limited Warranty



OIL & GAS PROCESS MAP

LAND, OFFSHORE & DRILLING RIG APPLICATIONS

OFFSHORE APPLICATIONS



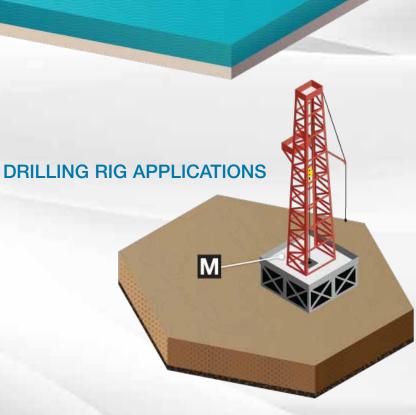
APPLICATIONS KEY:

A Lube Oil Transfer (G05, G1F)

46

- B Glycol Recirculation / Heat Trace (G05, G1F)
- **C** Flare Knockout (G1F, G15, G20, ST1, ST1½)
- D Glycol Transfer / Water Make-Up (G05, G1F)
- E Sump / General Transfer (G05, G1F, G15, G10F, G20F)
- F Tank Bottom Recirculation / Transfer (G10F, G20F, G20, G30, GH2-M)
- G Utility / General Transfer (G05, G1F, G15, G10F, G20F)

- H Separators & Knockout Drums (G20, GH2-M)
- I General Duty Spill Clean-Up (G20F, G20, G30)
- J Diesel Fuel Transfer (G15)
- K Sea Water Pump for Drilling Mud Make-Up (G30)



Κ

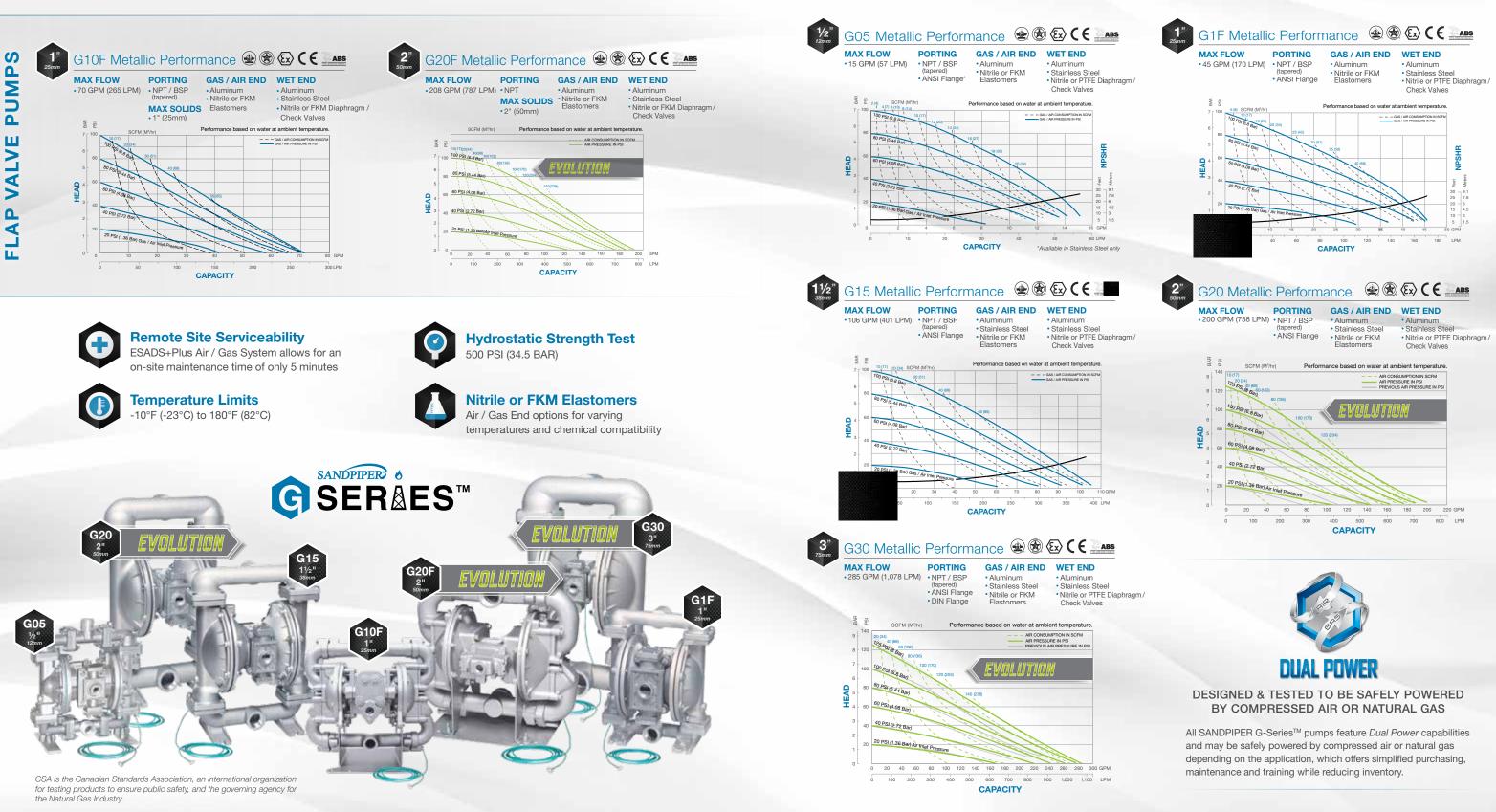
J

L Produced Water / Condensate Transfer (G1F) M Cellar Pump-Out & Mud Transfer (G20F, HDF2, HDF3, SMA3)

SANDPIPER

DUAL POWER NATURAL GAS OR AIR OPERATED PUMPS

CSA CERTIFIED



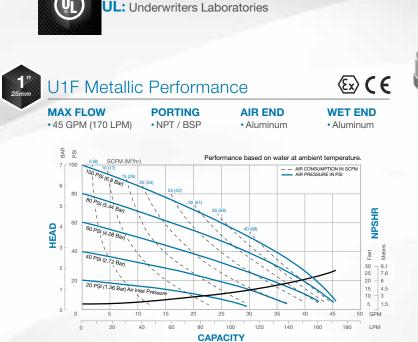
48

SANDPIPER

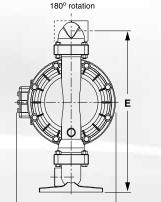
UL LISTED PUMPS

PERFORMANCE & SPECIFICATIONS

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.



V D





SCAN TO LEARN MORE SANDPIPERPUMP.COM/ULPUMPS

SPECIF	SPECIFICATIONS										
	А	В	С	D	E		Pipe Size	Displacement	Max	Max	Max Discharge Pressure
PUMP MODELS	Height	Width	Depth	Bottom of Bas of: Suction	se to Center Line Discharge	Connection Style		Per Stroke	Flow Per Minute	Solids Handling	
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
U1F	12.72 (323)	10.25 (260)	10.38 (264)	1.09 (28)	11.84 (301)	1" NPT	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)
Disconsistent				if a shi sure							

al Tolerance: ±1/8" (± 3mm) · See service manual for complete specification



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SCAN TO LEARN MORE SANDPIPERPUMP.COM/SUBMERSIBLE
SCAN TO LEARN MORE SANDPIPERPUMP.COM/SUBMERSIBL

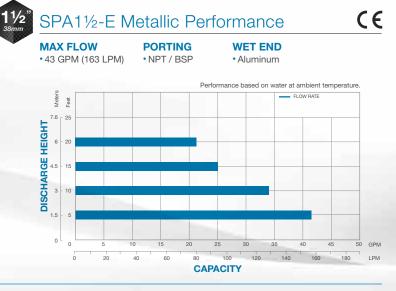
	SPECIF	ICATIONS									
		А	В	С	D	E		Pipe	Max	Max	Max
`	PUMP MODELS	Height	Width	Depth	Base to Center Discharge	Weight	Connection Style	Size	Flow Per Minute	Solids Handling	Discharge Height
Į.		inches (mm)	inches (mm)	inches (mm)	inches (mm)	Pounds (kg)		inch (mm)	gal (liter)	inch (mm)	feet (m)
	SPA1/2-E	22 (560)	8.88 (225)	6.19 (157)	4.71 (119)	33 (15)	11/2" NPT	1.5 (38)	43 (163)	.06 (1)	25 (7.6)
	SMA3	23.51 (597)	13 (330)	9 (229)	7.11 (180)	59 (26)	3" NPT	3 (75)	300 (1140)	1.5 (40)	65 (19.8)

Dimensional Tolerance: ±1/8" (± 3mm) • See service manual for complete specification

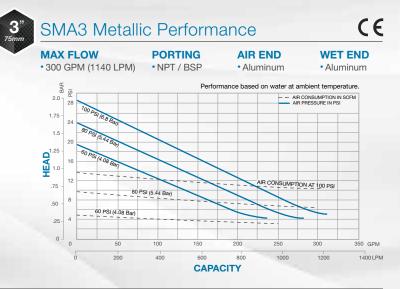
SUBMERSIBLE CENTRIFUGAL PUMPS

PERFORMANCE & SPECIFICATIONS

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.



The SludgeMaster™ Submersible, Air-Powered Trash Pump handles mud, leaves, twigs, sand, sludge, trash-laden water and soft solids to 11/2" (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.



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PREMIUM FDA COMPLIANT PUMPS

PERFORMANCE & SPECIFICATIONS

Our Premium FDA (Food & Drug Administration) Material Compliant Pumps are ideally suited for the ultimate in leak protection and clean pumping with the paired performance of AODD technology. Whether in a clean-in-place or clean-out-of-place application, these pumps will exceed the need for reliability and cleanability. Some of their most exceptional features include:



Leak Detection Pair with Electronic Leak Detection LEARN MORE ON PAGE 63



Materials Of Construction Electropolished 316 and 302/304 Stainless Steel Components



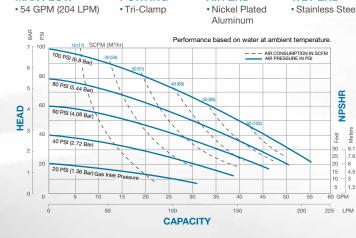
1" 25mm

2"

52

Porting Options Rotatable manifolds

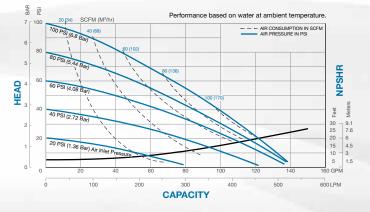
Ex (E SSB1 / DSB1 Metallic Performance MAX FLOW PORTING **AIR END** WET END





WET END Nickel Plated Stainless Steel Aluminum

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	А	В	С	D	Е		Pipe	Displacement	Max	Max	Max
PUMP MODELS	Height	Width	Depth	Bottom of Bas of: Suction	e to Center Line Discharge		Size	Displacement Per Stroke	Flow Per Minute	Solids Handling	Discharge Pressure
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
SSB1/DSB1	17.44 (443)	15.69 (398)	10.69 (271)	2.38 (60)	15.94 (404)	11/2" Tri-Clamp	1 (25)	.09 (.34)	54 (204)	.25 (6)	125 (8.6)
SSB2	22.63 (575)	18.88 (479)	12.81 (325)	2.75 (70)	21 (533)	2" Tri-Clamp	2 (50)	.36 (1.36)	125 (473)	.25 (6)	125 (8.6)
SSA2	25.63 (651)	20.06 (510)	16.25 (413)	3.94 (100)	24.13 (612)	2½" Tri-Clamp	2 (50)	.63 (2.39)	150 (570)	1.06 (27)	125 (8.6)
SET1	17.88 (454)	19 (483)	10.19 (268)	2.38 (60)	15.75 (400)	1" Tri-Clamp	1 (25)	.09 (.34)	54 (204)	.25 (6)	125 (8.6)
SET2	23.5 (597)	24.13 (613)	13 (330)	2.38 (60)	21.25 (540)	2" Tri-Clamp	2 (50)	.36 (1.36)	123 (465)	.25 (6)	125 (8.6)

Dimensional Tolerance: ±1/8" (± 3mm) • See service manual for complete specifications.

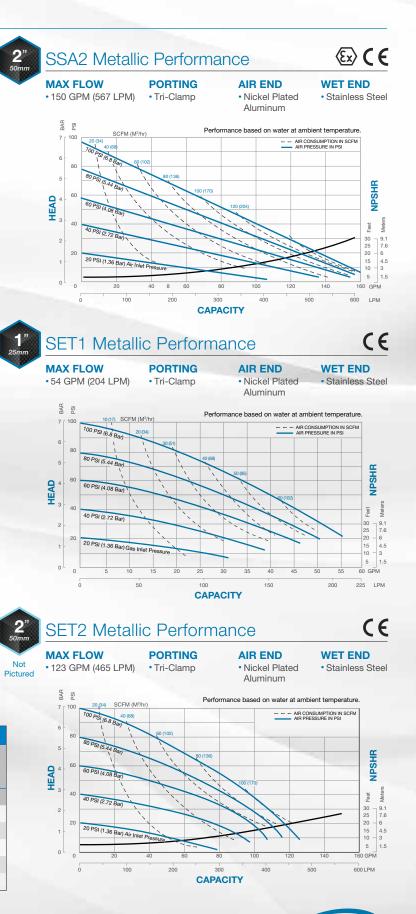


SANDPIPER



Food Processing plastic and elastomer food contact components meet the requirements of EU Regulation 1935/2004/EC. Refer to declaration of conformity for compliant models.

100 L 10



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STANDARD FDA COMPLIANT PUMPS

PERFORMANCE & SPECIFICATIONS

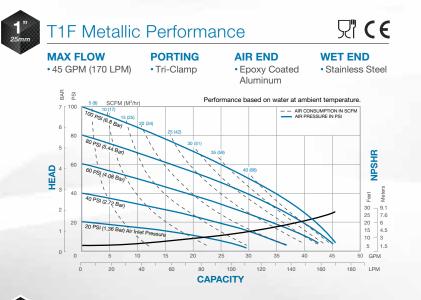
FDA (Food & Drug Administration) Material Compliant Pumps are ideally suited for a variety of food processing, pharmaceutical and cosmetic industry applications. The pumps are available in 1" through 3" ball check valve designs and a 2" (line size solids handling) flap check valve design. Variable flow capacities across the range are 0-235 gallons per minute. These special duty pumps are constructed of FDA compliant material components of Stainless Steel (wetted castings) and a selection of FDA Santoprene®, FDA Nitrile and PTFE diaphragms, check valves and valve seats. Standard non-wetted components are white Epoxy Coated Aluminum with Stainless Steel hardware. 1", 11/2", 2", 3" pumps are offered with sanitary clamp fittings and 3" pumps are offered with an ANSI flange.



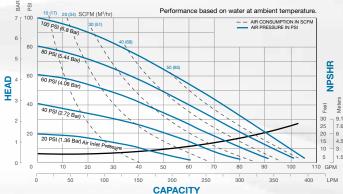
Materials Of Construction 316 Stainless Steel components



Porting Options Rotatable manifolds and top or bottom discharge available







SPECIF	SPECIFICATIONS												
	А	В	С	D	E			Pipe	Displacement	Max	Max	Max	
PUMP MODELS	Height	Width	Depth	Bottom of Bas of: Suction	e to Center Line Discharge		Connection Style	Size	Displacement Per Stroke	Flow Per Minute	Solids Handling	Discharge Pressure	
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)			inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)	
T1F	12.97 (326)	10.25 (260)	10.38 (264)	1.22 (31)	11.97 (304)		1½" Tri-Clamp	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)	
T15	21.81 (554)	16.66 (423)	12.36 (314)	1.97 (50)	20.38 (518)		2" Tri-Clamp	1.5 (38)	.41 (1.55)	106 (401)	.25 (6)	125 (8.6)	
T20	26.56 (674)	16.88 (428)	12.59 (320)	2 (50)	24.75 (629)		2½" Tri-Clamp	2 (50)	.42 (1.59)	200 (758)	.25 (6)	125 (8.6)	
T30	32.28 (820)	19.66 (499)	15.75 (400)	4.22 (107)	30.84 (808)		4" Tri-Clamp	3 (75)	.94 (3.56)	285 (1,078)	.38 (9.5)	125 (8.6)	
TSA2	20.81 (529)	21.25 (539)	13 (330)	2.56 (55)	17.56 (447)		2½" Tri-Clamp	2 (50)	.43 (1.60)	140 (530)	2 (50)	125 (8.6)	

3" 75mm

3

Flap Valv

EVOLUTIO

EC1935

Food Processing plastic and elastomer food

conformity for compliant models.

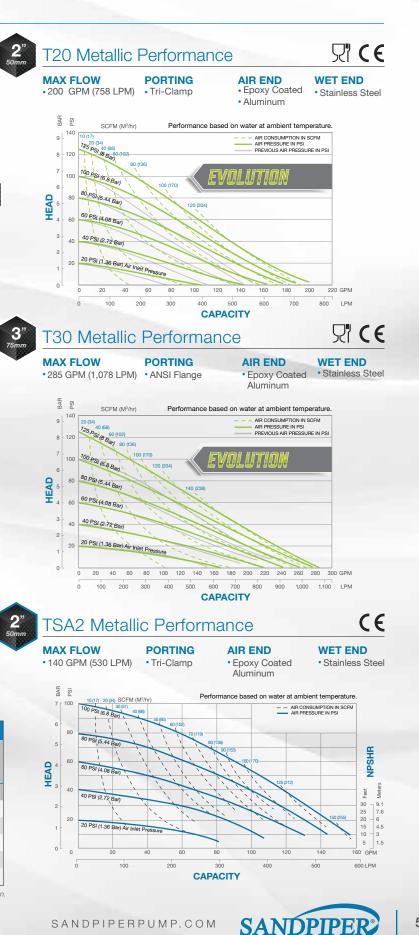
contact components meet the requirements of EU Regulation 1935/2004/EC. Refer to declaration of

Dimensional Tolerance: ±1/8" (± 3mm) • See service manual for complete specifications





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HIGH PRESSURE PUMPS

PERFORMANCE & SPECIFICATIONS

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.

The Blagdon B25 and B50 High Pressure Pumps provide enhanced power in applications where pressure is paramount and flow rate is an issue. Using two air chambers to double the air per stroke, these pumps achieve discharge pressure up to 238 PSI (16 Bar) with flow rates as high as 28 GPM (106 LPM) for B25 and as high as 92 GPM (350 LPM) with B50.



Maximum Flow Control High pressure capabilities allow for optimum control



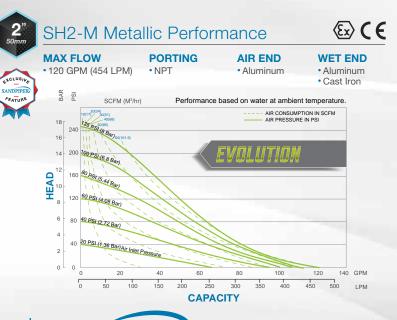
Heavy Duty Bolted construction and made with robust materials



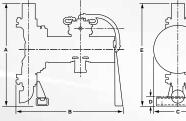
Single end discharge and suction available

Reliability Fested to ensure the long lasting performance

Non-Freezing, Non-Stalling Patented air valve will never unexpectedly stop



ONLY High Pressure Flap Valve Pump in the WORLD



								_	_	_			
SPECIFICAT													
	A	В	С	D	E			Pipe	Displacement	Max	Max	Max Fluid	Max Air/
PUMP MODELS	Height	Width	Depth	Bottom of Base of: Suction	e to Center Line Discharge		Connection Style	Size	Per Stroke	Flow Per Minute	Solids Handling	Discharge Pressure	Gas Inlet Pressure
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)			inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)	psi (bar)
EH2-M/GH2-M	25 (635)	25.81 (656)	11.75 (298)	2.18 (56)	25 (635)		2" NPT	2 (50)	.36 (1.4)	74 (280)	.25 (6)	250 (17)	125 (8.6)
SH2-M	18.56 (471)	26.87 (683)	11.37 (289)	11.47 (291)	5.34 (136)		2" NPT	2 (50)	.30 (1.1)	120 (454)	2 (50)	250 (17)	125 (8.6)
B25	15.94 (405)	18.27 (464)	11.02 (280)	1.97 (50)	14.95 (380)		1" BSP	1 (25)	.13 (.5)	28 (106)	.13 (3)	232 (16)	117 (8)
B50	24.41 (620)	28.70 (729)	13.07 (332)	3.66 (93)	22.95 (583)		2" BSP	2 (50)	.42 (1.9)	92 (350)	.25 (6)	232 (16)	117 (8)

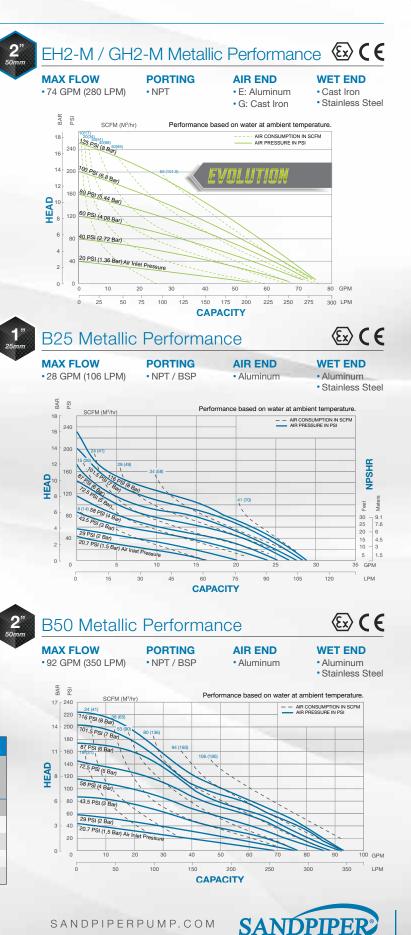
Dimensional Tolerance: ±1/8" (± 3mm) • See service manual for complete specifications.



Unique Orientation

SANDPIPER

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ACCESSORIES

ALL OF THE ITEMS YOU NEED TO COMPLETE YOUR SYSTEM



Enhanced Pump Performance and Productivity



Extended MTBF (Mean Time Between Failure)



Protection of Ancillary Equipment in Fluid Flow Path



Enhanced Safety and Environmental Responsibility



Precision Pump Control and Air Efficiency

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 66

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.

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 pulsefree discharge flow, for steadier pressure with less system vibration and noise. Our Tranquilizer® series is self-charging and self-venting. LEARN MORE ON PAGE 61

Inlet Stabilizer

Blacoh® Sentry® Inlet Stabilizers reduce pressure fluctuations and assist pump head filling during each inlet stroke. In high suction applications, stabilizer will momentarily maintain the flow of the accelerated fluid.

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 customersupplied controls only.

Muffler

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



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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.

SANDPIPER

FILTER REGULATORS

RELIABLE FILTER / REGULATORS SPECIFICALLY DEVELOPED FOR AIR OPERATED DOUBLE DIAPHRAGM PUMPS

Adjust and lock to deliver a constant air pressure

Integral mounting slots eliminate the need for mounting brackets*

Durable liquid filled pressure gauge to dampen the effects of pulsation and vibration common in pump applications

Polyurethane bowls offer improved chemical resistance*

Automatic drain removes condensate as required

* Up to 3/4" units.

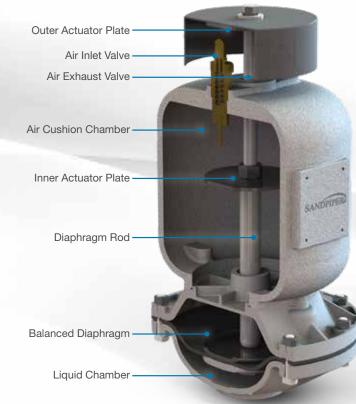
ort Size	Max Flow (SCFM)	Description	Max Inlet Pressure	Regulating Pressure Range	Replacement Filter Element Part Number	Lockout Valve Part Number	Mounting Bracket Kit Part Number	Replacement Pressure Gauge Part Number	Lubricator Part Number
⁄4" NPT	35	Filter/Regulator w/ gauge (20 micron)	150 psi (10.2 bar)	0 -125 psi (0 - 8.6 bar)	020.049.004	020.049.002	020.049.007	020.101.000	020.113.000
½" 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
%" 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
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
1" NPT	250	Filter/Regulator w/ gauge & mounting bracket kit (20 micron)	175 psi (12.1 bar)	0 -125 psi (0 - 8.6 bar)	020.070.004	020.052.002	020.052.007	020.102.000	Not Recommended
1/4 1/2 11'	" NPT " NPT " NPT	rt Size (SCFM) " NPT 35 " NPT 80 " NPT 150 " NPT 250	Image: NPT SCFM) Description "NPT 35 Filter/Regulator W/ gauge (20 micron) "NPT 80 Filter/Regulator W/ gauge (40 micron) "NPT 150 Filter/Regulator W/ gauge (40 micron) "NPT 250 Filter/Regulator W/ gauge & mounting bracket kit (40 micron) "NPT 250 Filter/Regulator W/ gauge & mounting bracket kit	Image: NPT SSCFM) Description Pressure "NPT 35 Filter/Regulator W (gauge (20 micron) 150 psi (10.2 bar) "NPT 80 Filter/Regulator W (gauge (40 micron) 150 psi (10.2 bar) "NPT 150 Filter/Regulator W (gauge (40 micron) 150 psi (10.2 bar) "NPT 250 Filter/Regulator W (gauge & mounting bracket kit (40 micron) 175 psi (12.1 bar) "NPT 250 Filter/Regulator W (gauge & mounting bracket kit (12.1 bar) 175 psi (12.1 bar)	It Size(SCFM)DescriptionPressurePressure Range"NPT35Filter/Regulator W gauge (20 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)"NPT80Filter/Regulator W gauge (40 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)"NPT150Filter/Regulator W gauge (40 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)"NPT150Filter/Regulator W gauge & (40 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)"NPT250Filter/Regulator W gauge & mounting bracket kit (40 micron)175 psi (12.1 bar)0 -125 psi (0 - 8.6 bar)"NPT250Filter/Regulator W gauge & mounting bracket kit (12.1 bar)0 -125 psi (0 - 8.6 bar)	Max Flow (SCFM)DescriptionMax Infer PressureHegulating PressureFilter Element Part Number" NPT35Filter/Regulator w/ gauge (20 micron)150 psi (10.2 bar)0-125 psi (0 - 8.6 bar)020.049.004" NPT80Filter/Regulator w/ gauge (40 micron)150 psi (10.2 bar)0-125 psi (0 - 8.6 bar)020.050.004" NPT150Filter/Regulator w/ gauge (40 micron)150 psi (10.2 bar)0-125 psi (0 - 8.6 bar)020.050.004" NPT150Filter/Regulator w/ gauge (40 micron)150 psi (10.2 bar)0-125 psi (0 - 8.6 bar)020.051.004" NPT250Filter/Regulator w/ gauge & mounting bracket kit w/ gauge & (12.1 bar)0-125 psi (0 - 8.6 bar)020.052.004' NPT250Filter/Regulator w/ gauge & mounting bracket kit mounting bracket kit (12.1 bar)0-125 psi (0 - 8.6 bar)020.052.004	Max Flow (SCFM)DescriptionMax Inter PressureHegulating PressureFilter Element Part NumberLockout Valve Part Number"NPT35Filter/Regulator w/ gauge (20 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)020.049.004020.049.002"NPT80Filter/Regulator w/ gauge (40 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)020.050.004020.050.002"NPT150Filter/Regulator w/ gauge (40 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)020.051.004020.051.002"NPT250Filter/Regulator w/ gauge & (40 micron)175 psi (12.1 bar)0 -125 psi (0 - 8.6 bar)020.052.004020.052.002'NPT250Filter/Regulator w/ gauge & (40 micron)175 psi (12.1 bar)0 -125 psi (0 - 8.6 bar)020.052.004020.052.002'NPT250Filter/Regulator w/ gauge & mounting bracket kit (12.1 bar)175 psi (0 - 8.6 bar)020.070.004020.052.002	Mix Flow (SCFM) Description Mix fluer Pressure (20 micron) Hegulating Pressure (10.2 bar) Fliter/Regulating (0 - 8.6 bar) Fliter Element Part Number Lockout Valve Part Number Kit Part Number "NPT 35 Fliter/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 "NPT 80 Fliter/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 "NPT 150 Fliter/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 "NPT 250 Fliter/Regulator w/ gauge & mounting bracket kit (20 micron) 175 psi (12.1 bar) 0 -125 psi (0 - 8.6 bar) 020.052.004 020.052.002 020.052.007 "NPT 250 Fliter/Regulator w/ gauge & mounting bracket kit (20 micron) 175 psi (12.1 bar) 0 -125 psi (0 - 8.6 bar) 020.070.004 020.052.002 020.052.007	Max Flow (SCFM)DescriptionMax Inter PressureHegulating PressureFilter Element Part NumberLockout Valve Part NumberKit Part NumberPressure Gauge Part Number"NPT35Filter/Regulator w/ gauge (20 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)020.049.004020.049.002020.049.007020.101.000"NPT80Filter/Regulator w/ gauge (40 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)020.050.004020.050.002020.050.007020.101.000"NPT150Filter/Regulator w/ gauge (40 micron)150 psi (10.2 bar)0 -125 psi (0 - 8.6 bar)020.051.004020.051.002020.051.007020.102.000"NPT250Filter/Regulator w/ gauge & (40 micron)175 psi (12.1 bar)0 -125 psi (0 - 8.6 bar)020.052.004020.052.002020.052.007020.102.000'NPT250Filter/Regulator w/ gauge & mounting bracket kit (40 micron)175 psi (12.1 bar)0 -125 psi (0 - 8.6 bar)020.052.004020.052.002020.052.007020.102.000'NPT250Filter/Regulator mounting bracket kit mounting bracket kit175 psi (12.1 bar)0 -125 psi (0 - 8.6 bar)020.070.004020.052.002020.052.007020.102.000



Clean, regulated air 5 **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 P Safe Operation Operate at the lowest required air pressure Compact & Convenient Filter and regulate your air supply in a single, easy to install unit C/ **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.

Reduced Maintenance





ΤE	CHNICAL	SPECIFI	CATIONS	· _					Che	mber				Diam	hragm		
	Model	Desc.	Cert.	Air Inlet Size	Liquid Inlet Size	Height (mm)	Diameter (mm)	Aluminum	Stainless Steel	Cast Iron	Alloy C	Neoprene	Nitrile	W XH	WO de	Neoprene PTFE Overlay	
	TA1	1" pumps	હ્ર€€	1/4" NPT (external thread)	1" NPT	13.625"-15.125" (346mm-384mm)	9" (229mm) NPT(F)	\checkmark	\checkmark	Χ	Χ	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
100	TA25	1" pumps	હ્રિલ્	1/4" NPT (external thread)	1" BSP (Tapered internal thread)	13.625"-15.125" (346mm-384mm)	9" (229mm) NPT(F)	\checkmark	\checkmark	Χ	Χ	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
מאחמע ח	TA1½	1" & 1½" pumps	હ્ર ૯૯	1/4" NPT (external thread)	11/2" NPT (Internal thread)	19.875"-21.325" (505mm-543mm)	10.5" (267mm) NPT(F)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
ו במוחובח	TA40	1" & 1½" pumps	હ્ર€€	1/4" NPT (external thread)	11/2" BSP (Tapered internal thread)	19.875"-21.325" (505mm-543mm)	10.5" (267mm) NPT(F)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
	TA2	1½" & 2" pumps	€⋧€€	1/4" NPT (external thread)	2" NPT (Internal thread)	20.25"-23.1875" (514mm-589mm)	12.5" (317mm) NPT(F)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
	TA50	1½" & 2" pumps	હ્ર€€	1⁄4" NPT	2" BSP (Tapered internal thread)	20.25"-23.1875" (514mm-589mm)	12.5" (317mm) NPT(F)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
	TA3	3" pumps	€≥€€	1⁄4" NPT	3" 150# ANSI or 3" NPT (Internal)	20.125"-23.125" (511mm-587mm)	16.1875" (411mm) NPT(F)	\checkmark	\checkmark	\checkmark	Χ	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
	TA80	3" pumps	િં€	1⁄4" NPT	3" BSP (Tapered int.) OF 80mm DIN	20.125"-23.125" (511mm-587mm)	16.1875" (411mm) NPT(F)	\checkmark	\checkmark	\checkmark	Χ	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
0	DA05	½" pumps	CE	1⁄4" NPT	1⁄2" NPT	7.468" (190mm) WIDTH: 5.625" (143mm)	6.9375" (176mm)			Alum	inum, St	ainless S	Steel & F	Polyprop	ylene		
nallipeliels	DA07 ¾" pumps Č € ¼" NPT 7.718" (196mm) WDTH: 5.825" (143mm) 6.9375" (176mm) Polypropylene only																
د	DA10	1" pumps	CE	1⁄4" NPT	1" NPT	11.718" (298mm) WIDTH: 5.625" (143mm)	7.5" (191mm)	Polypropylene only									



TRANQUILIZERS®







Dampeners & Inlet Stabilizers , Designed for 1", 2" & 3" Pumps

E1256.54

SCAN TO LEARN MORE SANDPIPERPUMP.COM/SURGEDAMPENERS

LIQUID LEVEL CONTROL

How it Works

Pilot valve

Float rod

or lowered

is activated

4

3

2

1

AUTOMATIC, FLOAT ACTUATED UNIT THAT OPENS AND CLOSES AIR SUPPLY TO YOUR AODD PUMP

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 polvester fabrie All gauge ports & vent ports are tapped 1/4" NPT Replacement pressure gauge part number: 020.061.000

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	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,						
020.063.000	1/2" NPT	42	G1F	020.065.000	500 PSI (34 BAR)	175°F (80°C)	Nitrile Seals, Molded Urethane						
020.064.000	3/4" NPT	133	G10F, G15, G20, G20F, G30	020.066.000		(20 0)	End Seals						

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



Versatile Quick reversible operation Can be used with all AODD pumps

Pneumatic

No electrical power required

0

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



Fluid Transfer



Tank Filling

SANDPIPER

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ADDITIONAL ACCESSORIES

OTHER ACCESSORIES THAT SANDPIPER OFFERS TO HELP COMPLETE YOUR PROCESS

The **ONLY** CSA Certified point-of-use natural gas regulators available on the market today!

SANDPIPER Natural Gas Pressure Regulators are safe, reliable and environmentally friendly. These exclusive CSA Certified and UL Listed point-of-use regulators 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.

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



SANDPIP

DIAPHRAGM SELECTION

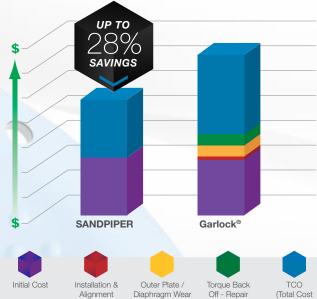
GET THE MAXIMUM LONGEVITY OUT OF YOUR SANDPIPER PUMP BY SELECTING THE APPROPRIATE DIAPHRAGM FOR YOUR APPLICATION

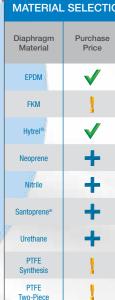
The Synthesis Diaphragm TECHNICAL SPECIFICATIONS A premium one-piece diaphragm that creates optimum conditions for high performance pumping and reliability. Expect longer service life and reduced maintenance costs with this premium diaphragm. Temperature Range 14°F to 176°F (-10°C to 80°C) **Torque-Free Installation** Simply hand turned into position No Center Hole for superior leak ree operation and installation Garlock[®] is a registered tradename of EnPro Industries, Inc. No Outer Diaphragm Plate Abrasion due to trapped fluids **Oversized Integrated Plate** supports nearly 50% of the diaphragm through the entire dynamic motion Start-Up Pressure of less than 10 PSI on SANDPIPER Synthesis Diaphragm vs. 25 PSI or more on competitive diaphragms One-Piece Composite Design with 100% PTFE on the wetted side bonded to a Nitrile Rubber Backer (NRB) with an integrated diaphragm plate Two-piece Diaphragm The standard PTFE diaphragm offered with SANDPIPER pumps is the two-piece

diaphragm-a cost effective solution for a large variety of pumping applications. Some of the main features of this diaphragm include:

- · Wide range of pressure capabilities
- Variety of materials available
- Proven performance over years of testing

Please consult your distributor or factory experts for additional details.





of Ownership

For reference only, consult distrib

SANDPIPER

ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

64

Part Number (Conversion Kit)*	Inner Diaphragm Plate**	Where Used	Wet End Kit	Where Use
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-Meta
286.114.000 (475.256.000)	612.227.150	S20 Non-Metallic	476.257.659	S20 Non-Meta
286.115.000 (475.258.000)	612.220.150	S1F Non-Metallic	476.197.659	S1F Non-Meta
286.116.000 (475.251.000)	612.221.330	S05, S07, S10 Non-Metallic	476.202.659	S05 Non-Meta
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

*Conversion Kits include (2) Diaphragms w/Studs and (2) Inner Plates **Order this Inner Diaphragm Plate when ordering the One-Piece Diaphragm.

SANDPIP

01						
	Flex Life	Abrasion Resistance	Chemical Resistance	Temp. Limitations	Temp. Max. Operating	Temp. Min. Operating
	\checkmark	-	\checkmark	+	280°F / 138°C	-40°F / -40°C
	X	!	+	+	350°F / 177°C	-40°F / -40°C
	+	+	\checkmark	\checkmark	220°F / 104°C	-20°F / -29°C
	+	\checkmark	Χ	\checkmark	200°F / 93°C	-10°F/-23°C
	+	\checkmark	1	\checkmark	190°F / 88°C	-10°F / -23°C
	+	+	+	+	275°F/135°C	-40°F/-40°C
	\checkmark	1	X	!	150°F / 66°C	32°F / 0°C
	\checkmark	ļ	+	!	176°F / 80°C	14°F/-10°C
	!	X	+	\checkmark	220°F / 104°C	-35°F / -37°C
outc	or.	= Best Type	V= Suitable	e = Limitat	ions X = N	ot Recommended

Santoprene® is a registered tradename of Exxon Mobil Corp. Hytrel® is a registered tradename of E.I. DuPont.



GENUINE PARTS SERVICE KITS

SANDPIPER HAS A SOLUTION WHETHER YOUR AODD PUMP NEEDS QUICK, URGENT CARE OR A FULL SERVICE REPAIR

Repair it Once, Repair it Right



Everything in One Place All of the parts you need to get running again



Increase Uptime Aaximize your productivity with fewer repairs



Save Time and Money Ordering and repairs made easy

SANDPIPER'S EXTERNALLY SERVICEABLE AIR DISTRIBUTION SYSTEM (ESADS+PLUS)

SANDPIPER's Externally Serviceable Air Distribution System (ESADS) allows for quick and easy access to the pilot and spool valves without removing the pump from service, maximizing up time!

SANDPIPER







5 MINUTES FOR MAINTENANCE / CLEANING Accomplished in minutes without removing pump from service by removing only 4 bolts



Saves you money by minimizing downtime



Repair Kits

Wet End Repair Kit:

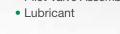
 Diaphragms Balls

Seats

- Air Valve Sleeve & Spool Seals O-rings

Air End Repair Kit:

- Gaskets
- Retaining Rings
- Pilot Valve Assembly





Wear Kits

SANDPIPER is pleased to offer you the trusted Genuine Parts you need, sold in convenient kits or individual parts. Whatever you need to make pump repairs, we have you covered.

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."



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VS **COMPETITORS**

The Air Motor's Pilot Valve is the Most Often Serviced Part on an AODD Pump



55 MINUTES OR LONGER FOR MAINTENANCE / CLEANING The air valve components can only be accessed by removing the pump from service and taking it entirely apart



Costs you money due to extended downtime

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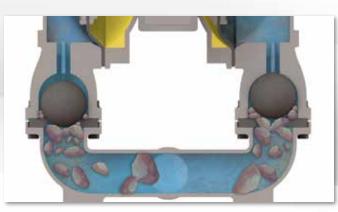


SANDPIPER VS COMPETITION

HEAVY DUTY FLAP VALVE PUMP



Large solids easily pass through pump



Large solids cannot pass through pump, affecting operation

HEAVY DUTY BALL VALVE PUMP

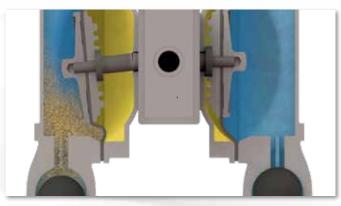


Settling solids easily pass through pump

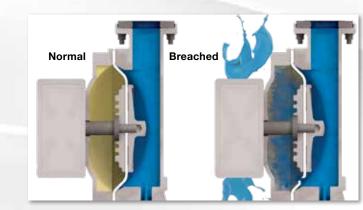
Contains fluid when diaphragm becomes breached

Breached

CONTAINMENT DUTY PUMP



Settling solids collect inside pump, causing damage & affecting operation



Fluid escapes to environment when diaphragm becomes breached.

Contact Your Local Distributor to Place Your Order:



Normal

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



