ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE



A WARREN RUPP, INC. BRAND | SANDPIPERPUMP.COM







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For nearly 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



Certified

CE

CE

Products are Declared Compliant to Directive 2006/42/EC - Machinery Safety



ATEX

Products are Either EC-Type or Type Examination Certified to Directive 94/9/ EC - Machinery for Use in Potentially Explosive Atmospheres



GOST-R

Certified to Sell Products into Russia



G-Series Natural Gas Operated Pumps are CSA Certified to ANSI LC6:2008 and Canadian Technical Letter No. R-14



ISO 9001 Quality

Quality System Certified to Ensure Every Product is Made with Care and Quality Control



ABS Marine & Offshore

American Bureau of Shipping Type Approval of Metal SANDPIPER Pumps and Tranquilizer Surge Suppressors



FDA

FDA

FDA Accepted Materials of Construction



EC1935

Food Processing T-Series Model Plastic and Elastomer **Food Contact Components** Meet the Requirements of EU Regulation 1935/2004/EC



Underwriters Laboratories

U1F Model Pumps are UL Listed to UL79 Standard for Use in Fuel Transfer and Pumping Flammable



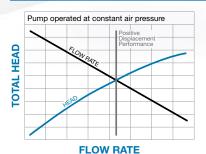
Why Choose AODD Pumps	4	Standard Duty Ball Valve Pumps	1
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WHY CHOOSE AODD PUMPS

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 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.

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

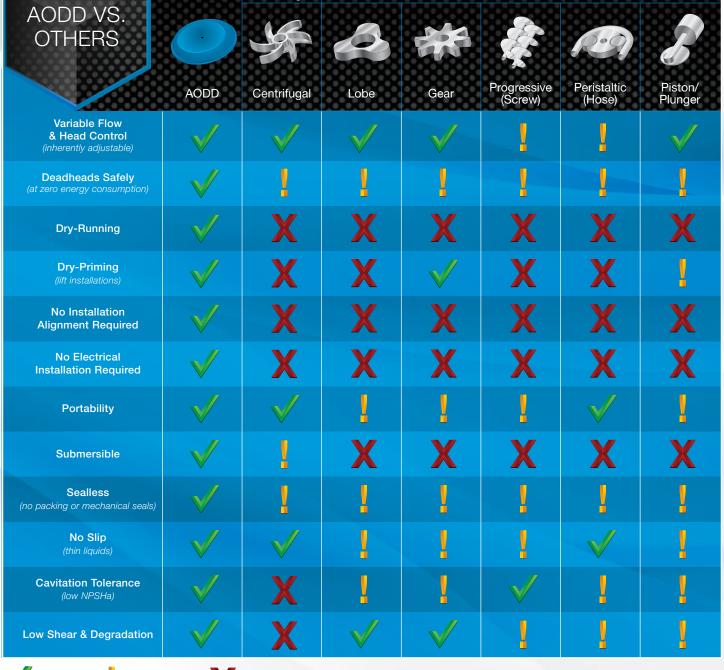


Variable flow and head pressures, without sophisticated controls



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

Optional bottom discharge porting depending on fluid characteristics



PUMPING PRINCIPLE

Positive Displacement







Kinetic Centrifugal







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.



Suction Lift

- Self-priming
- High vacuum capable
- Max lift of 32' (9.8m)



Flooded Suction

- Preferred for viscous fluids
- Most common application
- Screened inlet option





Submerged

- Capable of full submersion
- Screened inlet option

Suction Cycle

Compressed air fills left inner chamber, causing the opposing diaphragm to create suction, lifting the lower valve ball, pulling in fluid at inlet. Simultaneously, the left chamber is in "Discharge" cycle.



Discharge Cycle

Compressed air fills right inner chamber, causing upper valve ball to open and discharge fluid. Simultaneously, the left chamber is in "Suction" cycle.

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





THE SANDPIPER ADVANTAGE

WITH NEARLY 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 capabilites



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 **LEARN MORE ON PAGE 44**



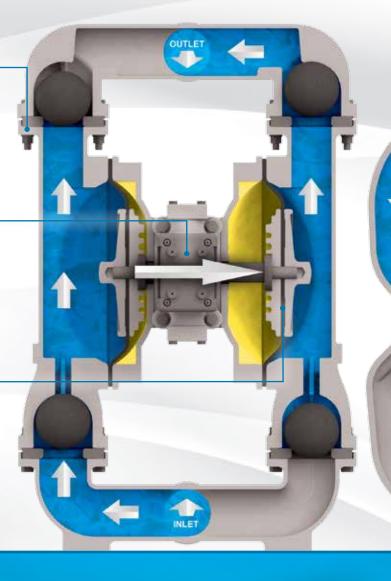
Tested Quality -

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

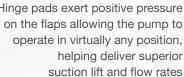


ESADS+Plus Air Valve

Externally Serviceable Air Distribution System









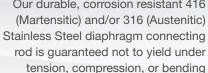
Flap check valves allow for maximum solids passage of up to 3" (75mm)



Guaranteed Connecting Rod

Our durable, corrosion resistant 416







ESADS+Plus Air Distribution System

Independent of the pilot valve position, the cross-drilled pressure ports in the main directional air valve spool provide a pneumatic bias of the spool at either end of travel. This is accomplished by directing (inner) chamber pressure to the end of the spool, boosting and sustaining pilot pressure until point-of-shift of the pilot valve.

Externally Serviceable Air Distribution System Includes:



Complete in-line serviceability

On-Off-On reliability guaranteed



Lube free, consistent restarts



PATENTED cross-drilled pressure ports



Bottom Discharge Porting

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.



Prevent broken diaphragm plates



Eliminate diaphragm



Ensure even diaphragm wear for longevity



See our connecting rod guarantee







Top Discharge



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

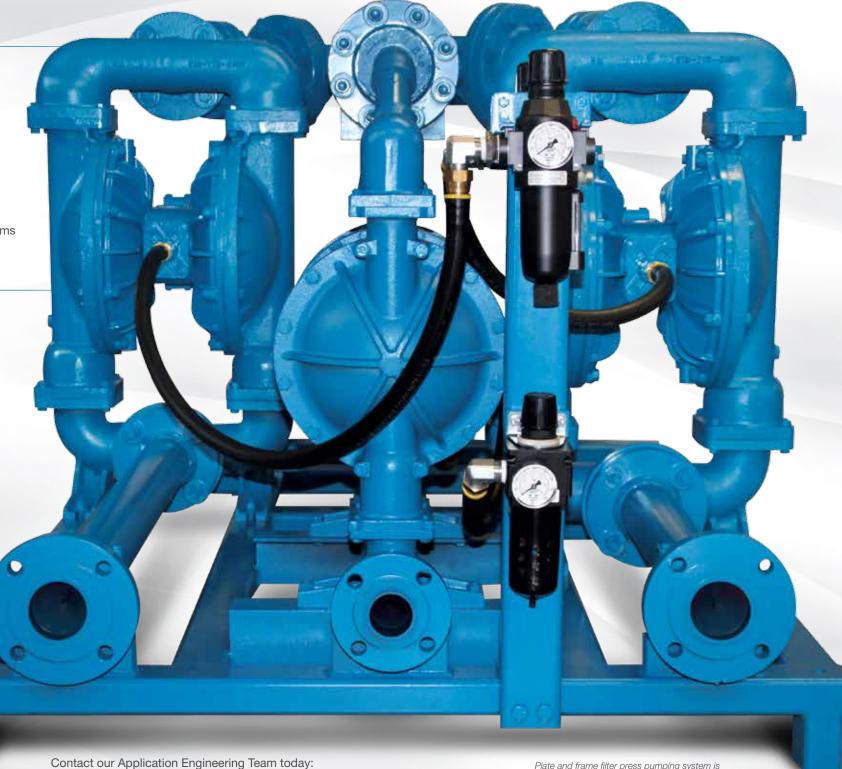
3. Vacuum Characteristics Test

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



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



an example of a custom engineered project.

Additional Pump Testing

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

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APPTECH.WARRENRUPP@IDEXCORP.COM

MARKETS & APPLICATIONS

SANDPIPER PUMPS ARE BUILT TO EXCEED THE DEMANDS OF YOUR SUMP WASTE TREATMENT AND OTHER APPLICATIONS LISTED BELOW



Automotive

Applications include oil transfer, fuel transfer, machine coolant, auto wash, auto lube and much more



Marine

Applications include oil transfer, fuel transfer, cargo cleanup, deck dewatering, cargo oil transfer, lubricants transfer and much more



Ceramics

Chemical

Coatings

Construction

Food Processing

Applications include batching, mixing, casting machines, day tank transfer, mold filling / cleaning, glaze spray, slip transfer / recirculation and much more

Applications include packaging, drum / tote,

processing, injection, mixing and much more

Applications include pigment milling,

Applications include portable utility, oil transfer,

fuel transfer, site dewatering, seal coating, road

striping, municipal utility and much more

Applications include food packaging, product

transfer, wine tank over, FDA compliance,

fermentation / pumpover and much more

low degradation requirements, wine

paint filtration, mixing tanks, filling

machines, tank transfer, low shear

requirements and much more



Applications include oil transfer, fuel transfer, water evacuation, mine face dewatering, drift dewatering and much more



Pharma / Personal Care

Applications include day tank transfer, batching, chemical feed, FDA compliant, personal hygienic / cosmetics and much more



Pulp & Paper

Applications include bulk transfer, day tank transfer, batching, bleaching, converter / packaging, adhesives / ink and much more



Applications include natural gas fields, service rigs, offshore platform requirements, settling pond transfer / disposal, flare knockout and much more



neutralize wastewater, waste activated sludge, return activated sludge, thickened sludge, belt press feed and much more



Oil & Gas

transfer, diesel fuel transfer, spill clean-up, salt water



Wastewater

Applications include municipal portable utility,







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 COI	NFIGURATIONS	Standard Duty Ball Valve · Metallic	Standard Duty Ball Valve · Non-Metallic	Containment Duty Ball Valve	Heavy Duty Flap Valve	Heavy Duty Ball Valve
Suction / Disc	charge Port Sizes	14" through 3"	1/4" through 3"	1" through 3"	1" through 4"	1" through 4"
Max Flow F	Rate Per Minute	238 Gal. (901 L)	238 Gal. (901 L)	260 Gal. (988 L)	260 Gal. (988 L)	260 Gal. (988
Max Disc	harge Heads	289' (88m) of water @125psi	231' (70m) of water @100psi	289' (88m) of water @125psi	289' (88m) of water @125psi	289' (88m) of water @125p
Max Displace	ement Per Stroke	0.94 Gal. (3.56 L)	0.9 Gal. (3.41 L)	1.25 Gal. (4.73 L)	1.62 Gal. (6.15 L)	1.8 Gal. (6.8 L
Max I	Ory Prime	20' (6m)	20' (6m)	18' (5.5m)	24' (7m)	20' (6m)
Max Sol	ids Handling	.38" (10mm)	.71" (18mm)	.44" (10mm)	3" (75mm)	.88" (22mm)
V	Vater	+	+	+	+	+
Susper	nded Solids	+	✓	V	+	+
Non-Susp	pended Solids		X	X	+	<u> </u>
Line S	Size Solids	X	X	X	+	X
Sludg	ge / Slurry	✓	<u>I</u>	1	+	+
High Viscosity	(Flowable Fluids)	✓	✓	V	✓	+
	High	✓	Ţ	!	+	+
Erosion / Abrasive Fluids	Moderate	✓	<u>,</u>	ļ	+	+
	Low	+	✓	✓	+	+
Со	rrosion	✓	+	+	✓	✓
Per	manent	✓	~	✓	+	+
Po	ortable	+	+	+	+	+
Containme	ent / Prevention	!	<u>I</u>	+	Į.	I.
Floode	ed Suction	✓	✓	V	V	+
Suc	tion Lift	✓	✓	✓	+	✓
Sub	merged	✓	!	!	✓	✓
Intermitten	t / On-Demand	+	+	+	+	+
Cor	ntinuous	V	✓	V	V	+

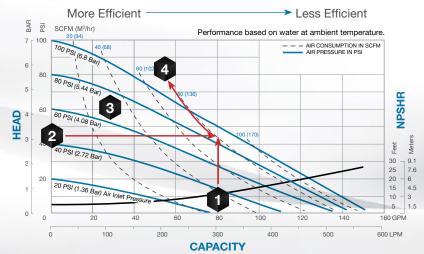
Pump Performance

- Select Flow Rate (GPM)
 Example: 80 GPM
- 2 Determine Discharge Head (PSI) Example: 45 PSI
- 3 See Inlet Air Pressure (PSI) Example: 60 PSI
- See Air Consumption (SCFM)
 Example: 80 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

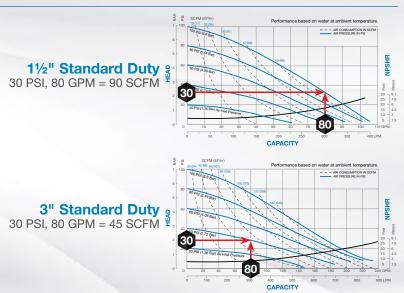




Sizing to Extend Mean Time Between Failures

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: APPTECH.WARRENRUPP@IDEXCORP.COM



Additional Resources



Technical Resources

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



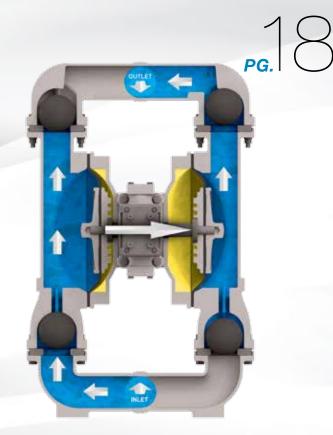
Chemical Guide

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. SANDPIPERPUMP.COM/CHEM



EXCLUSIVE PUMP CONFIGURATIONS

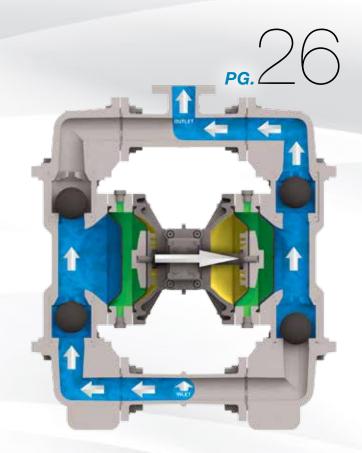
WITH THE BROADEST RANGE OF CONFIGURATIONS, SANDPIPER HAS A SOLUTION FOR YOUR PUMPING PROBLEM, WITH MORE WAYS THAN ONE



STANDARD DUTY BALL VALVE

Unique features for this configuration include:

- Solids Range +.13" (3mm) to .71" (18mm)
- Dry Primes Up to 20' of Water

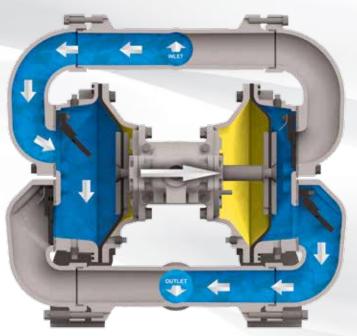


CONTAINMENT DUTY BALL VALVE

Unique features for this configuration include:

- Containment Chamber with Leak Detection
- Hydraulically Balanced / Coupled Pumping and **Driver Diaphragm Assemblies**
- Solids Range +.25" (6mm) to .44" (10mm)
- Dry Primes Up to 18' of Water
- Free Standing Support Base





HEAVY DUTY FLAP VALVE

Unique features for this configuration include:

- Hinged Flap Check Valves
- Solids Range +1" (25mm) to 3" (75mm)
- Dry Primes Up to 24' of Water
- Bottom Discharge Porting, Eliminates Settling Solids



HEAVY DUTY BALL VALVE

Unique features for this configuration include:

- Weighted Ball Check Valves
- Solids Range +.25" (6mm) to .88" (22mm)
- Dry Primes Up to 20' of Water
- Bottom Discharge Porting, Eliminates Setting Solids



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.



SANDPIPER'S MOST POPULAR PRODUCT LINE, OFFERING A LARGE VARIETY 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

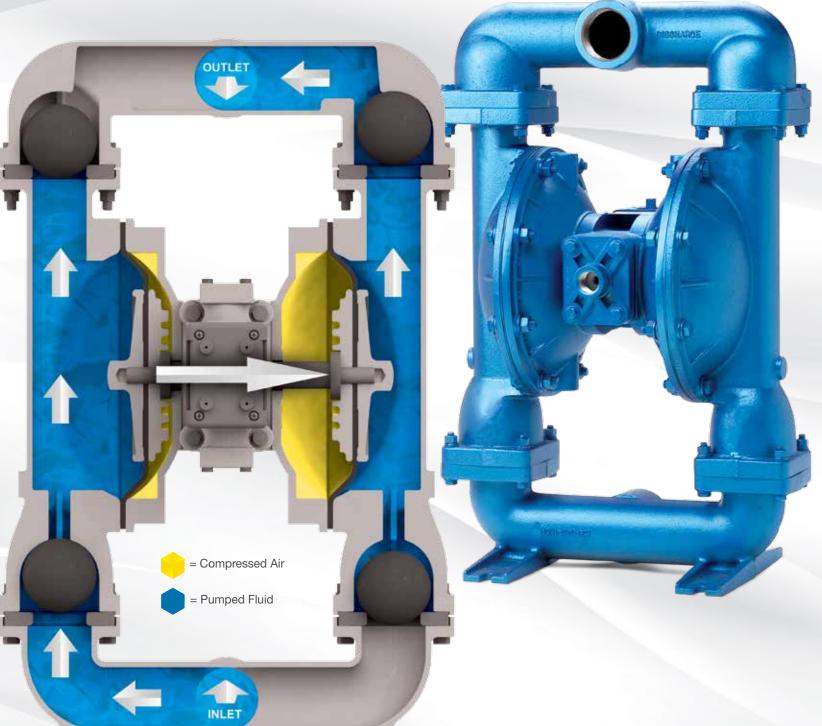


Certifications Available

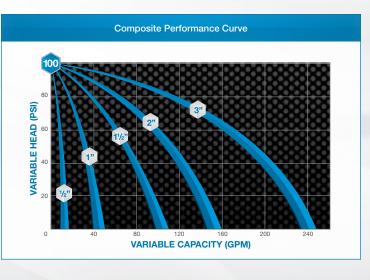




ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE







PERFORMANCE & SPECIFICATIONS





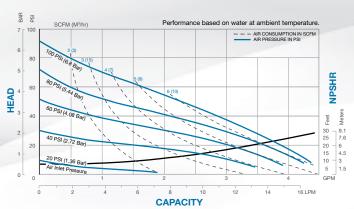


E02 / X02 Metallic Performance

€x (€

MAX FLOW **PORTING** AIR END • 4.75 GPM (18 LPM) • BSP Parallel Stainless Steel

WET END Stainless Steel





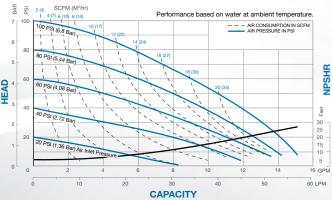
S05 Metallic Performance

€≥ (€

MAX FLOW • 15 GPM (57 LPM) • NPT / BSP ANSI Flange

AIR END Aluminum

WET END Aluminum Stainless Steel



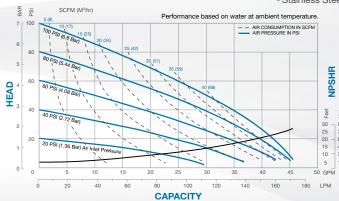


S1F Metallic Performance

€≥ (€

MAX FLOW • 45 GPM (170 LPM) ANSI Flange

AIR END **PORTING** • NPT / BSP Aluminum



WET END Cast Iron Aluminum · Stainless Steel



S15 Metallic Performance

MAX FLOW • 106 GPM (401 LPM)

PORTING NPT / BSP ANSI Flange

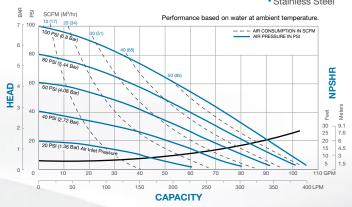
AIR END

Aluminum

Cast Iron

WET END





S20 Metallic Performance

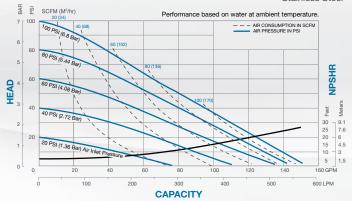
€x> C € **WET END**

• 150 GPM (567 LPM) NPT / BSP

· ANSI / DIN Flange

AIR END Cast Iron

 Aluminum Stainless Steel



MORE DETAILS ON PAGE 70

S30 Metallic Performance

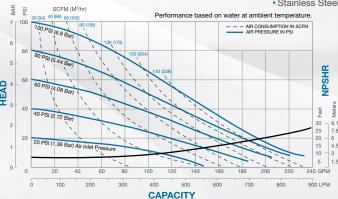
WET END

MAX FLOW • 235 GPM (889 LPM) • NPT / BSP

MAX FLOW

PORTING · ANSI / DIN Flange AIR END Aluminum

 Cast Iron Aluminum · Stainless Steel





PERFORMANCE & SPECIFICATIONS

NPT







MAX FLOW

• 4 GPM (15 LPM)

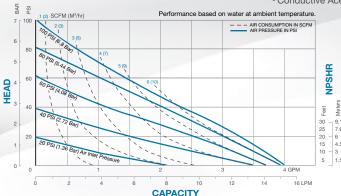
PB 1/4 Non-Metallic Performance **PORTING**

EX CE

AIR END Polypropylene Conductive Acetal • PVDF

WET END Polypropylene

Conductive Acetal





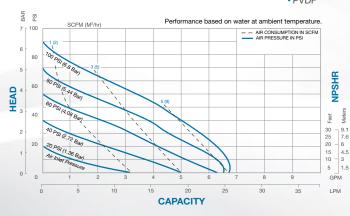
WR10 Non-Metallic Performance

 ϵ

MAX FLOW • 6.8 GPM (26 LPM) • NPT / BSP

AIR END PTFE

WET END • PTFF PVDF





S05 Non-Metallic Performance

EX CE

Conductive Acetal

MAX FLOW **PORTING** • 14 GPM (52 LPM) • NPT / BSP

AIR END Polypropylene

WET END

 Polypropylene / Conductive Polypropylene Conductive Polypropylene PVDF / Conductive PVDF

CAPACITY

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 other tools and resources.

LEARN MORE AT SANDPIPERPUMP.COM/MOBILEAPP





In-line ported options also available on S05 and S1F

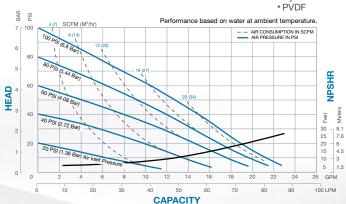
S07 Non-Metallic Performance

MAX FLOW PORTING • 23 GPM (87 LPM)

AIR END • NPT / BSP

WET END Polypropylene Polypropylene



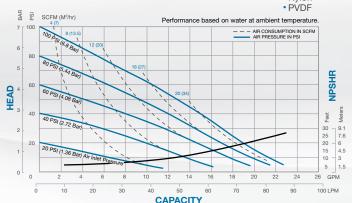




S10 Non-Metallic Performance

CE

MAX FLOW AIR END **WET END** • 23 GPM (87 LPM) ANSI Flange Polypropylene Polypropylene Nylon PVDF Performance based on water at ambient temperature





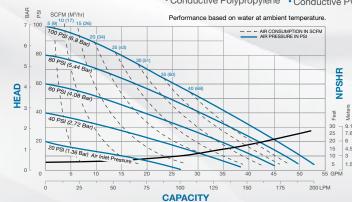
S1F Non-Metallic Performance

NPT

₩(€

WET END MAX FLOW PORTING AIR END •53 GPM (200 LPM) • ANSI Flange • Polypropylene Polypropylene • PVDF • DIN Flange • 40% Glass Filled

Polypropylene Conductive Polypropylene





PERFORMANCE & SPECIFICATIONS





S15 Non-Metallic Performance

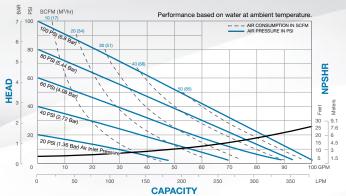
• DIN Flange

• 100 GPM (378 LPM) • ANSI Flange • Polyproylene

EX CE PORTING AIR END

WET END Polypropylene Conductive Polyproylene
 PVDF

Conductive Polyproylene





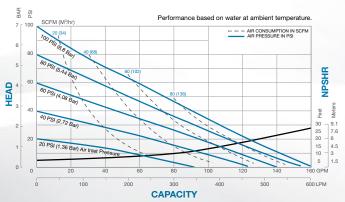
S20 Non-Metallic Performance

MAX FLOW PORTING • 160 GPM (605 LPM) • Universal Flange

WET END Polyproylene
 Conductive Polyproylene
 Polyproylene
 Polyproylene Polypropylene Conductive Polyproylene

CE

EX CE



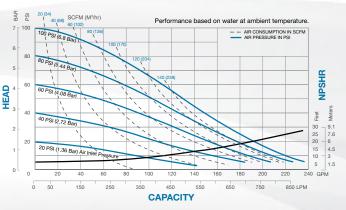


S30 Non-Metallic Performance

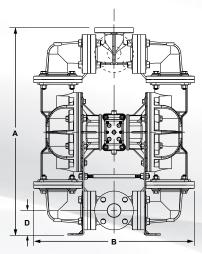
MAX FLOW PORTING • 238 GPM (901 LPM) ANSI Flange • DIN Flange

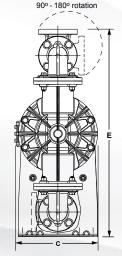
AIR END Epoxy Coated Aluminum

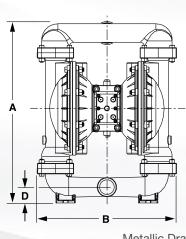
WET END Polypropylene

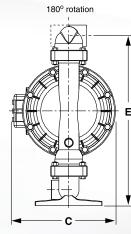












Non-Metallic Drawing

Metallic Drawing

METALLIC	SPECIFICAT	TONS									
	А	В	С	D	E	20101010	Dina	Diamlassament	Max	Max	Max
PUMP MODELS	Height	Width	Depth	Bottom of Base Suction	to Center Line of: Discharge	Connection Style	Pipe 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)
E02 / X02	5.81 (148)	7.44 (189)	4.38 (111)	.63(16)	5.41 (138)	1/4" NPT/BSP	.25 (6)	.003 (.01)	4.75 (18)	.08 (2)	125 (8.6)
S05 AL	11.5 (292)	10.25 (260)	7.44 (179)	1.94 (33)	11.5 (292)	½" NPT/BSP	.5 (12)	.026 (.098)	15 (56)	.13 (3)	125 (8.6)
S05 SS	10.38 (264)	10.25 (260)	7.44 (179)	1.31 (33)	9.72 (247)	½" NPT/BSP	.5 (12)	.026 (.098)	15 (56)	.13 (3)	125 (8.6)
S1F AL / CI	12.72 (323)	10.25 (260)	10.38 (264)	1.09 (28)	11.84 (301)	1" NPT/BSP	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)
S1F SS	12.84 (326)	10.25 (260)	10.38 (264)	1.22 (31)	11.97 (304)	1" NPT/BSP	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)
S15 AL / CI	21.58 (548)	16.66 (423)	12.36 (314)	1.91 (49)	20.31 (516)	11/2" NPT/BSP	1.5 (38)	.41 (1.55)	106 (401)	.25 (6)	125 (8.6)
S15 SS	21.66 (550)	16.66 (423)	12.36 (314)	1.97 (50)	20.38 (518)	11/2" NPT/BSP	1.5 (38)	.41 (1.55)	106 (401)	.25 (6)	125 (8.6)
S20 AL / CI	26.31 (669)	16.88 (428)	125.59 (320)	1.88 (48)	24.63 (625)	2" NPT/BSP	2 (50)	.42 (1.59)	150 (567)	.25 (6)	125 (8.6)
S20 SS	2.31 (669)	16.88 (428)	12.59 (320)	2 (50)	24.75 (629)	2" NPT/BSP	2 (50)	.42 (1.59)	150 (567)	.25 (6)	125 (8.6)
S30 AI/CI	32.06 (814)	19.66 (499)	15.75 (400)	2.34 (60)	29.97 (761)	3" NPT/BSP	3 (75)	.94 (3.56)	235 (889)	.38 (9.5)	125 (8.6)
S30 SS	32 .28 (820)	19.66 (499)	15.75 (400)	2.28 (65)	30.19 (767)	3" NPT /BSP	3 (75)	.94 (3.56)	235 (889)	.38 (9.5)	125 (8.6)

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

NON-ME	ION-METALLIC SPECIFICATIONS													
	А	В	С	D	E		Dina	Diamlacament	Max	Max	Max			
PUMP MODELS	Height	Width	Depth	Bottom of Bas of: Suction	e to Center Line Discharge	Connection Style	Pipe 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)			
PB¼	7.81 (198)	7 (178)	5.5 (140)	.75 (19)	7.81 (198)	1/4" NPT	.25 (6)	.01 (.04)	4 (15)	.03 (1)	100 (6.9)			
WR10	5.32 (135)	4.09 (104)	5.72 (145)	0.94 (24)	0.94 (24)	3/8" NPT	.375 (10)	.009 (.034)	6.8 (26)	0.1 (2.25)	100 (6.9)			
S05	11.31 (287)	10.13 (257)	7.06 (179)	1.38 (35)	11.31 (287)	1/2" NPT	.5 (13)	.026 (.098)	14 (52)	.125 (3)	100 (6.9)			
S07T*	13.34 (339)	11.81 (300)	7.06 (179)	1.81 (46)	13.34 (339)	3/4" NPT	.75 (19)	.026 (.059)	13 (48)	.38 (9)	100 (6.9)			
S07	13.34 (339)	11.81 (300)	7.06 (179)	1.81 (46)	13.34 (339)	34" NPT	.75 (19)	.026 (.098)	23 (87)	.15 (4)	100 (6.9)			
S10	13.81 (351)	11.81 (300)	7.56 (192)	2.5 (64)	11.69 (297)	1" ANSI	1 (25)	.026 (.098)	23 (87)	.15 (4)	100 (6.9)			
S1F	21 (533)	17 (433)	11.63 (295)	2.5 (64)	21 (533)	1" U	1 (25)	.19 (.72)	53 (200)	.25 (6)	100 (6.9)			
S15	28.75 (730)	23 (584)	13 (330)	3.5 (89)	25.19 (640)	11/2" ANSI or DIN	1.5 (38)	.36 (1.36)	100 (378)	.47 (12)	100 (6.9)			
S20	32.25 (819)	23.81(605)	13 (330)	3.81 (97)	28.19 (716)	2" U	2 (50)	.36 (1.36)	160 (605)	.66 (17)	100 (6.9)			
S30	40.63 (1032)	33.38 (848)	18.25 (464)	4.88 (124)	40.63 (1032)	3" ANSI or DIN	3 (75)	.9 (3.41)	238 (901)	.71 (18)	100 (6.9)			

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

U = Universal: Fits both ANSI or DIN.



CONTAINMENT DUTY PUMPS

DEPEND ON THE PROVEN LEAK PROOF DESIGN

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



Dynamic Manifold Connections

ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

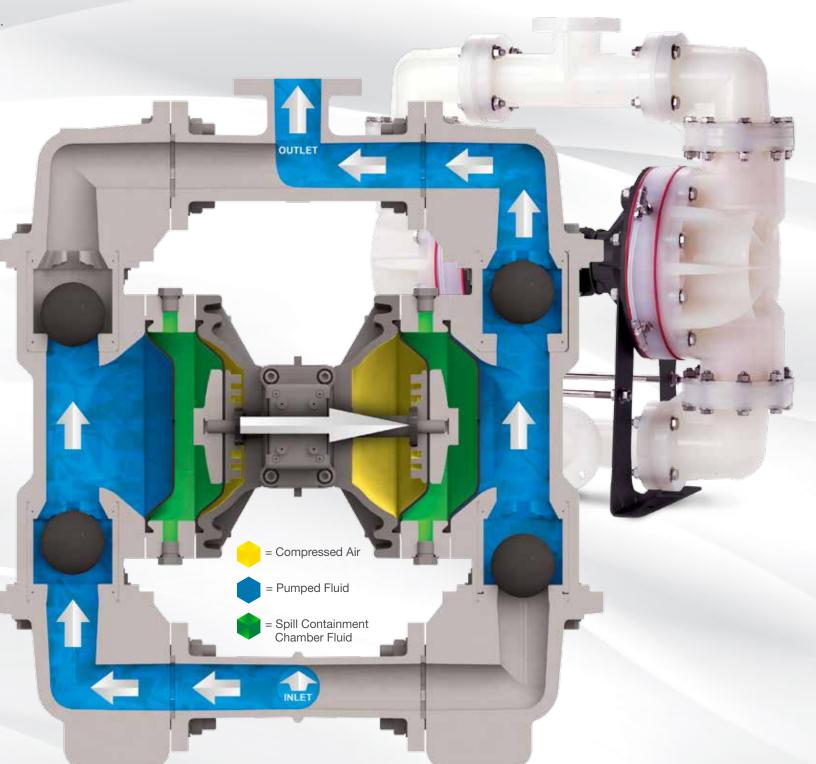
90° - 180° rotation options



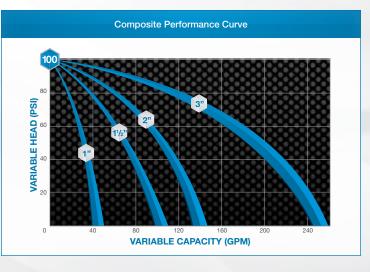
Certifications Available











CONTAINMENT DUTY PUMPS

PERFORMANCE & SPECIFICATIONS



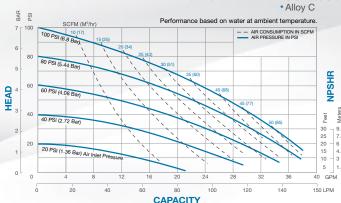




ST1 / ST25 Metallic Performance

€≥ (€

MAX FLOW AIR END WET END PORTING • 42 GPM (159 LPM) • NPT / BSP • HDPE* Aluminum • Aluminum · Stainless Steel



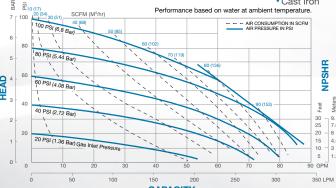


ST1½ / ST40 Metallic Performance

MAX FLOW WET END • 90 GPM (340 LPM) • NPT / BSP Cast Iron Aluminum Aluminum Stainless Steel

> Alloy C Cast Iron

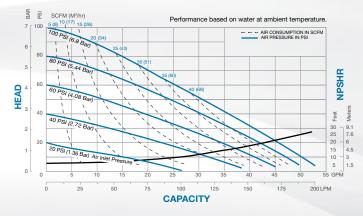
> > CE

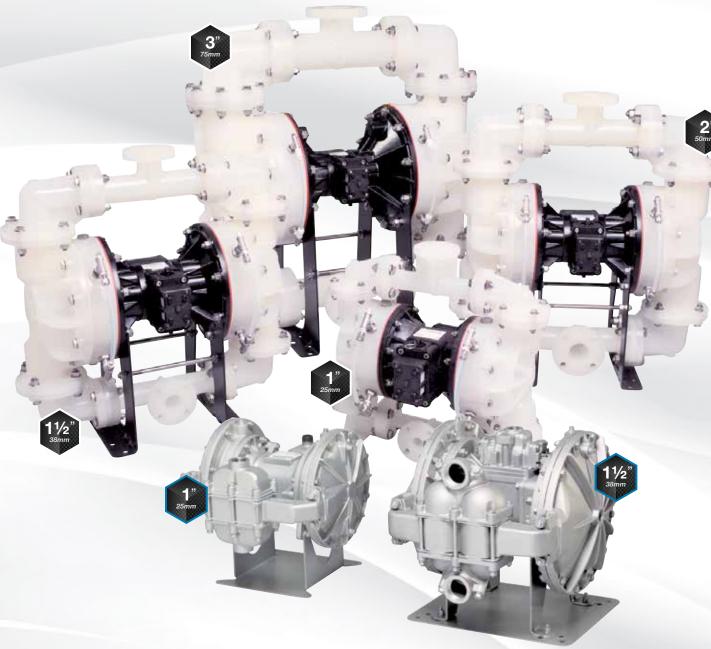




S1F Non-Metallic Performance

MAX FLOW WET END •53 GPM (200 LPM) ANSI Flange Polypropylene Polypropylene DIN Flange PVDF*





Genuine Parts Service Videos

We make it easy for you to repair your pump with detailed service videos that teach you how to maintain your SANDPIPER pump right, from the advice of our experienced and certified support team.

LEARN MORE AT SANDPIPERPUMP.COM/VIDEOS

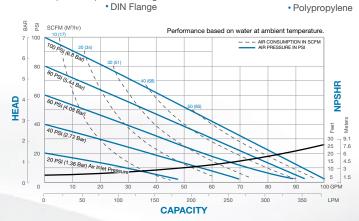
S15 Non-Metallic Performance

WET END

MAX FLOW PORTING • 100 GPM (378 LPM) • ANSI Flange

AIR END Polypropylene

PVDF



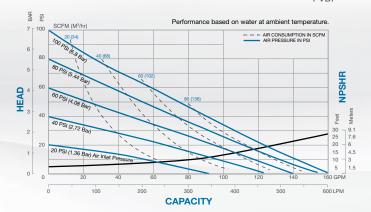


S20 Non-Metallic Performance

CE

MAX FLOW PORTING AIR END • 160 GPM (605 LPM) • Universal Flange Polypropylene

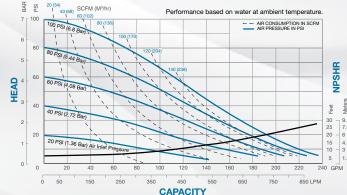
WET END Polypropylene





S30 Non-Metallic Performance





*Conductive versions of this material are available



HEAVY DUTY FLAP VALVE PUMPS

THE SOLIDS HANDLING WORKHORSES OF THE SANDPIPER PUMP LINE

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



Dynamic Manifold Connections

90° - 180° rotation options



Solids Range

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

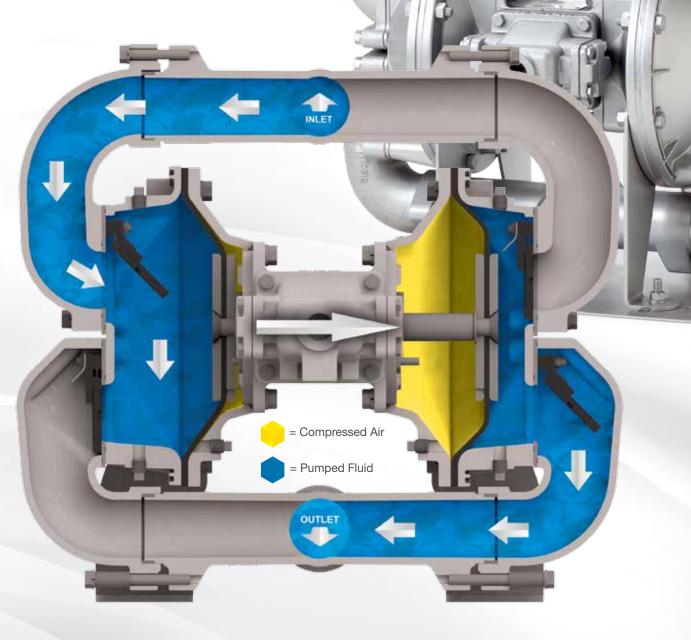


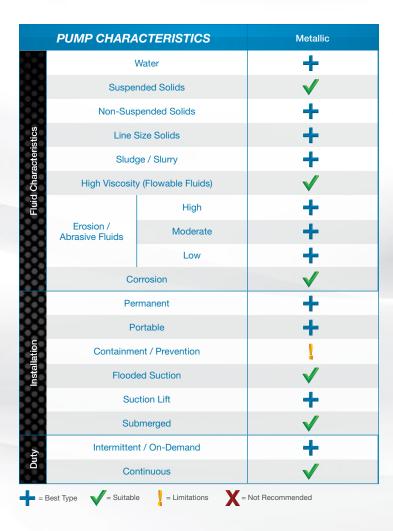
Superior Dry Prime

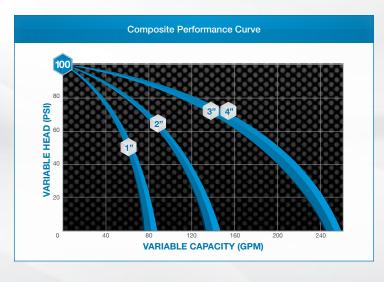
Up to 24' (7m) of water













HEAVY DUTY FLAP VALVE PUMPS

PERFORMANCE & SPECIFICATIONS



Cast Iron

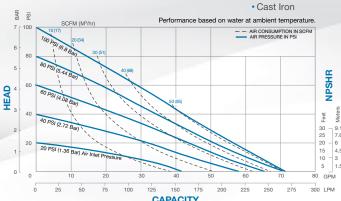
€≥ **(€**



HDF1 Metallic Performance

€≥ (€

MAX FLOW PORTING AIR END •70 GPM (265 LPM) •NPT / BSP •Aluminum Aluminum Cast Iron · Stainless Steel





HDF2 Metallic Performance

€≥ (€

WET END

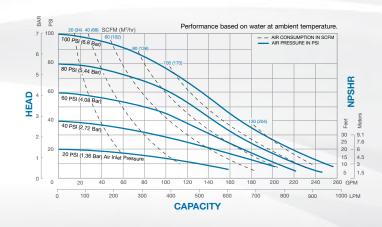
• 140 GPM (530 LPM) • NPT / BSP • Aluminum Aluminum Cast Iron Stainless Steel Cast Iron Performance based on water at ambient temperature

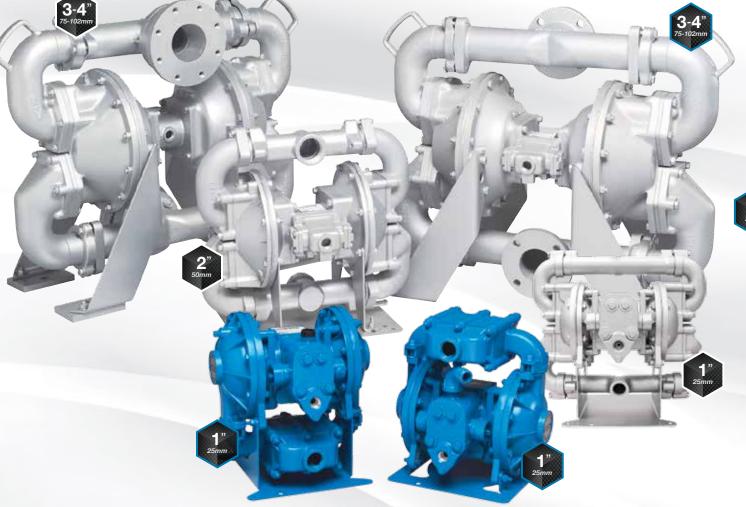
PORTING AIR END



HDF3-A / 4-A Metallic Performance & CE

WET END **MAX FLOW** PORTING AIR END • 260 GPM (988 LPM) • ANSI Flange • Aluminum







MAX FLOW • 260 GPM (988 LPM) • ANSI Flange

HDF3-M / 4-M Metallic Performance

PORTING AIR END WET END

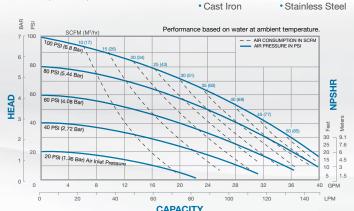
Cast Iron

	7 BAR		00 S	100 Pov. 60 (102) — — AIR CONSUMPTION IN SCFM	
	6	-	80	100 (170)	
	5	-	60	80 PSI (5.44 Bar) 120 (239) 160 (272) 160 (272)	
HEAD	4			60 PSI (4.08 Bar)	
	2	_	40	40 PSI (2.72 Bar) 200(340) 30 25	9.1 7.6
	1	-	20	20 PSI (1.36 Bar) Air Inlet Pressure	4.5 3



MAX FLOW

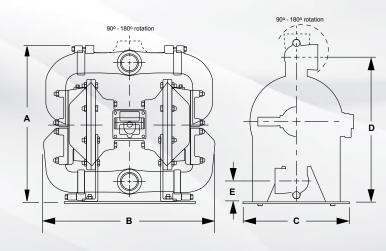
PORTING AIR END WET END • 42 GPM (159 LPM) • NPT / BSP Aluminum Aluminum



SPECIF	ICATIONS										
	Α	В	С	D	E		Pipe	Displacement	Max	Max	Max
PUMP MODELS	Height	Width	Depth	Bottom of Base to Suction	Center Line of: 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)
HDF1	15.69 (398)	16.75 (425)	10.81 (274)	14.06 (356)	2.56 (65)	1" NPT / BSP	1 (25)	.10 (.38)	70 (265)	1 (25)	125 (8.6)
HDF2	20.31 (516)	21.75 (552)	13.63 (346)	17.69 (449)	2.56 (65)	2" NPT only	2 (50)	.43 (1.60)	140 (530)	2 (50)	125 (8.6)
HDF3-A	29.5 (749)	36.56 (929)	16.25 (413)	25.75 (654)	4.25 (108)	3" 125# ANSI	3 (75)	1.62 (6.15)	260 (988)	3 (75)	125 (8.6)
HDF3-M	30.25 (768)	32.31 (821)	16.19 (411)	26.5 (673)	5 (127)	3" 125# ANSI	3 (75)	1.23 (4.66)	260 (988)	3 (75)	125 (8.6)
HDF4-A	31 (787)	36.56 (929)	21.25 (540)	26.5 (673)	5 (127)	4" 125# ANSI	4 (102)	1.62 (6.15)	260 (988)	3 (75)	125 (8.6)
HDF4-M	31 (787)	32.31 (821)	16.19 (411)	26.5 (673)	5 (127)	4" 125# ANSI	4 (102)	1.23 (4.66)	260 (988)	3 (75)	125 (8.6)

12.38 (314) 11.36 (288) 11.26 (286) 10.69 (271) 10.69 (271) 1" NPT / BSP 1 (25) .09 (.34) 42 (159) 1 (25) 125 (8.6)

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







2" NON-METALLIC FLAP VALVE PUMP

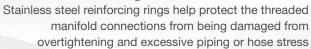
YOUR MINING, GENERAL INDUSTRIAL AND CHEMICAL SOLUTION

ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

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.









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



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



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

Stainless steel, corrosion resistant mounting feet allow for pump stability while reducing potential housing damage



the manifold allow for multiple mounting options









unnecessary downtime

Purpose Built Base



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

The non-metallic, lightweight design makes

Lightweight & Durable -

it easily portable at 53 lbs (24 kg)

Reliability Guarantee

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, helping 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

HEAVY DUTY NON-METALLIC FLAP VALVE PUMP

WET END

Polypropylene

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PERFORMANCE & SPECIFICATIONS

SCAN TO LEARN MORE
SANDPIPERPUMP.COM/2INCHNMFLAP

2" 50mm

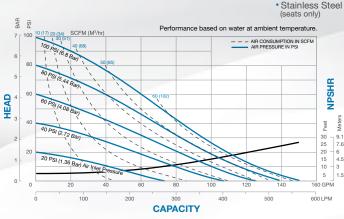
HD20F Non-Metallic Performance

MAX FLOW PORTING

• 150 GPM (567 LPM)

• NPT / BSPT

• Polypropylene



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

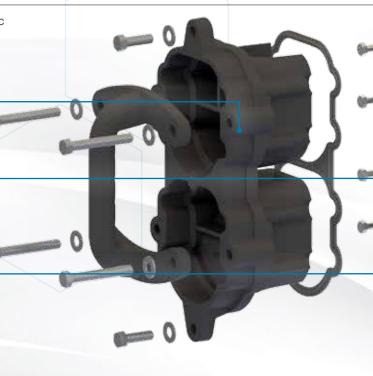
With the clean-out cap removed, the flap valves can be inspected and / or replaced as needed. Four bolts hold the modular flap valves in place for quick maintenance and repair.

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.





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



HEAVY DUTY BALL VALVE PUMPS

THE ULTIMATE IN POWERFUL AND DURABLE PERFORMANCE

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 Discharge For pumping out of tough areas



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



Diaphragm Connecting Rods Reliable and consistent diaphragm control



ESADS+Plus Air Valve

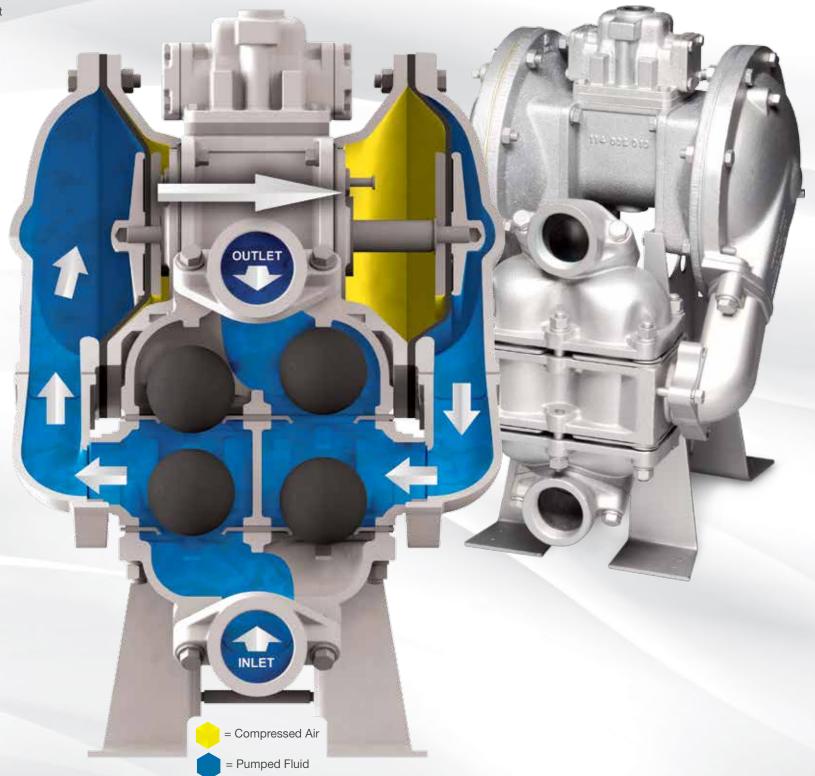
Externally Serviceable Air Distribution System



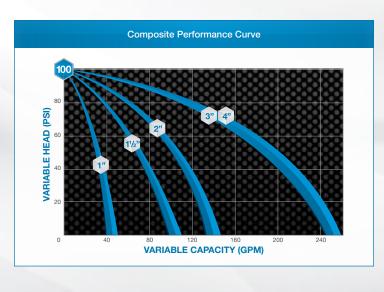
Dynamic Manifold Connections Can be vertically or horizontally mounted



Certifications Available



	PUMP CHARA	CTERISTICS	Metallic
	١	Vater	+
	Susper	nded Solids	+
	Non-Susp	pended Solids	+
stics	Line S	X	
acteri	Sludg	+	
Fluid Characteristics	High Viscosity	/ (Flowable Fluids)	+
Fluid		High	+
	Erosion / Abrasive Fluids	Moderate	+
		Low	+
	Co	rrosion	✓
	Per	manent	+
88	Po	ortable	✓
lation	Containme	ent / Prevention	Ţ
Instal	Floode	ed Suction	+
	Suc	etion Lift	✓
	Sub	✓	
ıty	Intermitten	+	
۵	Cor	ntinuous	+
= E	Best Type = Suitable	= Limitations X =	Not Recommended



HEAVY DUTY BALL VALVE PUMPS

PERFORMANCE & SPECIFICATIONS





HDB11/2 Metallic Performance

€≥ (€

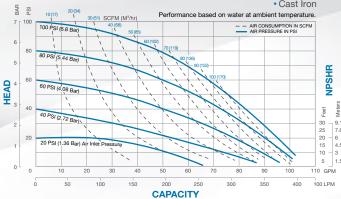
MAX FLOW • 105 GPM (397 LPM) • NPT / BSP

PORTING

AIR END Aluminum Cast Iron

WET END Aluminum · Stainless Steel

· Cast Iron





HDB2 Metallic Performance

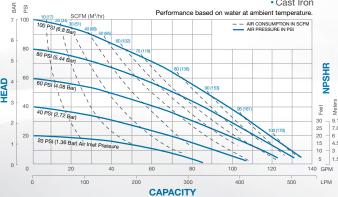
€≥ (€

MAX FLOW • 135 GPM (511 LPM) • NPT

AIR END Aluminum Cast Iron

WET END Aluminum Stainless Steel

 Alloy C Cast Iron





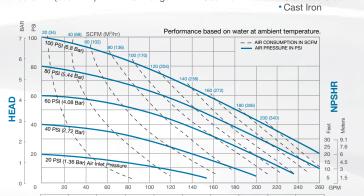
HDB3 / HDB4 Metallic Performance **ⓑ C €**

MAX FLOW • 260 GPM (988 LPM) • ANSI Flange

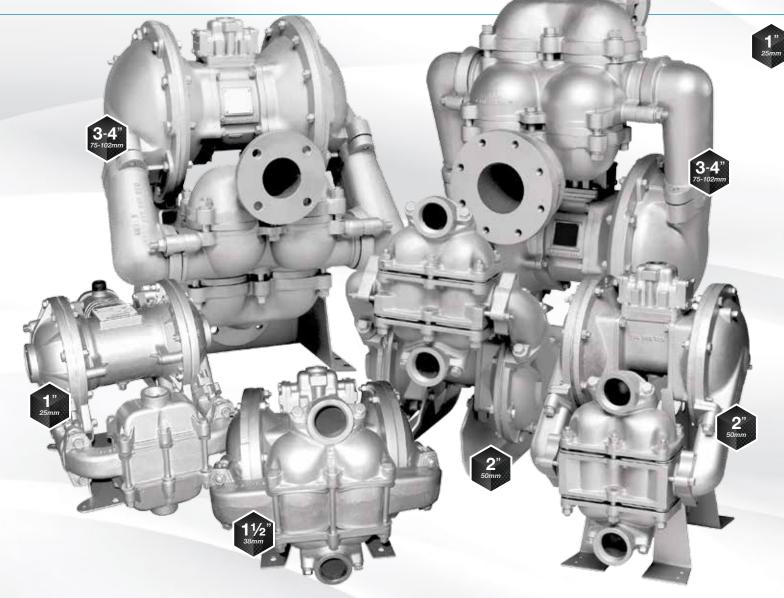
PORTING

AIR END Cast Iron

WET END Stainless Steel



CAPACITY



SPECIFICATIO	ONS										
	Α	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)	200000	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)	.34 (1.29)	105 (397)	.25 (6)	125 (8.6)
HDB1½ BOTTOM	18.56 (471)	15.5 (419)	17 (432)	6.14 (156)	16 (406)	11/2" NPT/BSP	1.5 (38)	.34 (1.29)	105 (397)	.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)	.43 (1.63)	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)	.43 (1.63)	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)	1.8 (6.81)	260 (988)	.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)	1.8 (6.81)	260 (988)	.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)	1.8 (6.81)	260 (988)	.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)	1.8 (6.81)	260 (988)	.87 (22)	125 (8.6)

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



• NPT / BSP

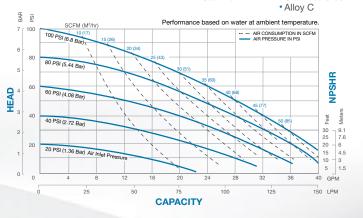
MAX FLOW

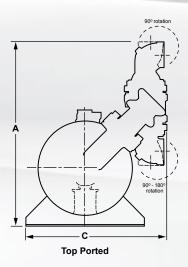
• 42 GPM (159 LPM)

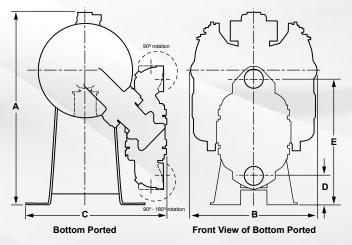
PORTING AIR END

WET END Aluminum Cast Iron

 Aluminum · Stainless Steel









SPECIAL DUTY PUMPS

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





HIGH EFFICIENCY PUMPS

Save substantial amounts of energy, with the same performance and reliability



UL LISTED PUMPS (UL)

Designed to meet UL79 standards for diaphragm pumps handling flammable liquids





MINE & CONSTRUCTION PUMPS

The most durable and reliable pump line we offer, for the best quality at your next site





Deliver discharge pressure twice the inlet pressure, up to 250 PSI (17 BAR)





SUBMERSIBLE PUMPS

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



FILTER PRESS SYSTEMS

Combine a high volume fill pump with a high pressure feed pump





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



Flap Valve for superior performance with slurry and solids-laden materials

Submersible - PortaPump



Natural Gas - G20

1

1

DUAL POWER NATURAL GAS OR AIR OPERATED PUMPS



ANSI Flange

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

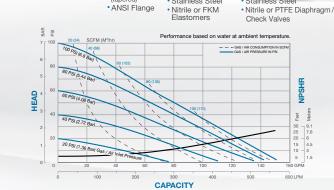
 Aluminum Nitrile or FKM

 Stainless Steel
 Nitrile or PTFE Diaphragm / Check Valves

CAPACITY

G20 Metallic Performance 🐵 🕲 🐼 🕻 € 🍱 **MAX FLOW** PORTING GAS / AIR END WET END

• 150 GPM (568 LPM) • NPT / BSP



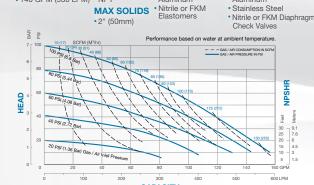


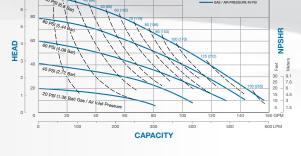
DESIGNED & TESTED TO BE SAFELY POWERED BY COMPRESSED AIR OR NATURAL GAS

All SANDPIPER G-Series pumps feature Dual Power capabilities and may be safely powered by compressed air or natural gas depending on the application, which offers simplified purchasing, maintenance and training while reducing inventory.

G10F Metallic Performance & & C C G20F Metallic Performance 🚇 🕲 🐼 🕻 🕻 🍱 MAX FLOW PORTING GAS / AIR END WET END PORTING GAS / AIR END WET END Aluminum
 Nitrile or FKM • 70 GPM (265 LPM) • NPT / BSP Aluminum
 Stainless Steel • 140 GPM (530 LPM) • NPT MAX SOLIDS * Nitrile or FKM Elastomers Nitrile or FKM Diaphragm / MAX SOLIDS Elastomers •2" (50mm) Check Valves Performance based on water at ambient temperature

Nitrile or FKM Diaphragm / Check Valves CAPACITY







Remote Site Serviceability

CAPACITY

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





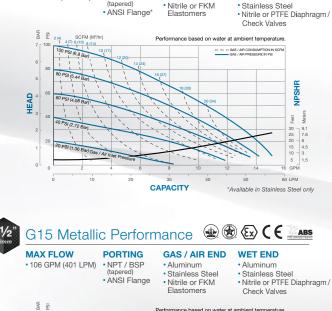
Hydrostatic Strength Test 500 PSI (34.5 BAR)



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

Nitrile or FKM Elastomers Air / Gas End options for varying temperatures and chemical compatibility





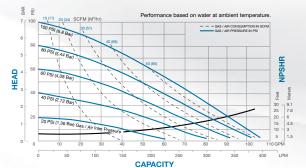
GAS / AIR END

• Aluminum

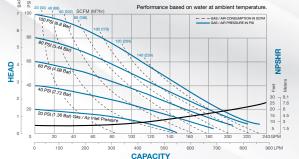
• Aluminum

MAX FLOW

• 15 GPM (57 LPM) • NPT / BSP







OIL & GAS INDUSTRY PUMPS

PERFORMANCE & SPECIFICATIONS





MAX FLOW

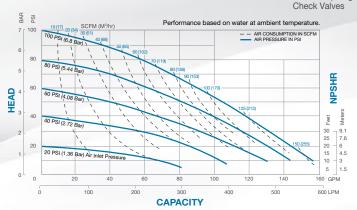
• 140 GPM (530 LPM) • NPT

DMF2 Metallic Performance

EX CE ABS

AIR END **PORTING** Aluminum

WET END Aluminum Nitrile Elastomers
 Nitrile Diaphragm /





DMF3 Metallic Performance

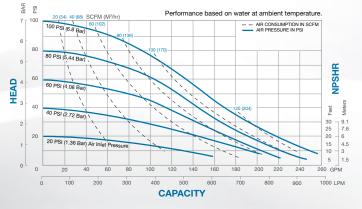
• 260 GPM (988 LPM) • ANSI Flange

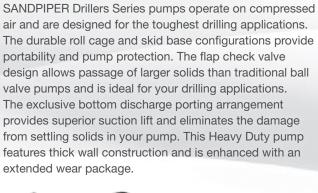
PORTING

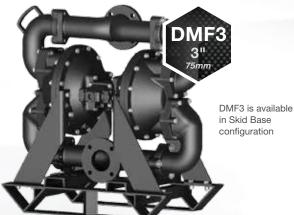
AIR END

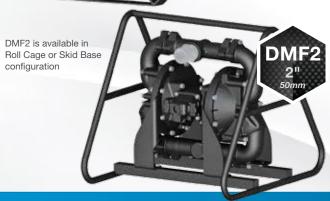
WET END Aluminum

- Nitrile Elastomers
- Aluminum · Nitrile Diaphragm / Check Valves









SPECIFICATIONS

2000	Α	В	С	C D E			Pipe	Displacement	Max	Max	Max Fluid	Max Air/	
PUMP MODELS	Height	Width	Depth	Bottom of Bas of: Suction	e to Center Line Discharge	Porting (Standard)	Size	Per Stroke	Flow Per Minute	Solids Handling	Discharge Pressure	Gas Inlet Pressure	
999	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)	psi (bar)	
G05	11.5 (292)	10.25 (260)	7.06 (179)	1.31 (33)	11.5 (292)	½" NPT / BSP	.5 (12)	.026 (.098)	15 (56)	.125 (3)	100 (7)	100 (7)	
G1F	12.72 (323)	10.25 (260)	10.38 (264)	1.09 (28)	11.84 (301)	1" NPT / BSP	1 (25)	.11 (.42)	45 (170)	.25 (6)	100 (7)	100 (7)	
G10F	15.69 (398)	16.75 (425)	10.81 (274)	14.06 (356)	2.56 (65)	1" NPT / BSP	1 (25)	.10 (.38)	70 (265)	1 (25)	100 (7)	100 (7)	
G15	21.58 (548)	16.66 (423)	12.36 (314)	1.91 (49)	20.31 (516)	11/2" NPT / BSP	1.5 (38)	.41 (4.55)	106 (401)	.25 (6)	100 (7)	100 (7)	
G20F	20.31 (516)	21.75 (552)	13.63 (346)	17.69 (449)	2.56 (65)	2" NPT	2 (50)	.43 (1.60)	140 (530)	2 (50)	100 (7)	100 (7)	
G20	26.31 (668)	16.88 (428)	12.59 (320)	1.88 (48)	24.63 (625)	2" NPT / BSP	2 (50)	.42 (1.59)	150 (567)	.25 (6)	100 (7)	100 (7)	
G30	32.06 (814)	19.66 (499)	15.75 (400)	2.34 (60)	29.97 (761)	3" NPT / BSP	3 (75)	.94 (3.56)	235 (889)	.38 (9)	100 (7)	100 (7)	
DMF2	26.04 (661)	32 (813)	18.5 (470)	8.73 (222)	23.85 (606)	2" NPT	2 (50)	.42 (1.59)	140 (530)	2 (50)	125 (8.6)	125 (8.6)	
DMF3	34.09 (866)	36.72 (933)	18.5 (470)	8.84 (224)	30.34 (771)	3" ANSI	3 (75)	1.62 (6.15)	260 (988)	3 (75)	125 (8.6)	125 (8.6)	

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

G05 (Stainless Steel only), G1E, G15, G20 also available in ANSI Baised Face or Weld Neck flange, G30 available in DIN & ANSI Baised Face.

GSER&ES 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:**













SAFETY COMPLIANCE WITH:







LARGEST SOLIDS PASSAGE





TOP & BOTTOM DISCHARGE

BOTTOM DISCHARGE For Solids-Laden Fluids



TOP DISCHARGE ONLY



EASE OF REPAIR AND LESS DOWNTIME



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



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



Stainless Steel Nitrile or FKM Elastomers



LIMITED Aluminum only



BEST GUARANTEE IN THE INDUSTRY



Diaphragm Connecting Rod Guarantee Non-Stalling Air / Gas Valve Performance Guarantee 5-Year Limited Warranty





Connecting Rod prone to bending 5-year Limited Warranty









SANDPIPERPUMP.COM/AIRVANTAGEPUMPS

AirVantage is an innovative technology for Air Operated Double Diaphragm pumps that significantly reduces air consumption over conventional AODD pumps.



Smart Learning System

Modulates pump performance to optimize energy usage and match changes in system demand



Adaptable Efficiency

Automatically adapts to changing process conditions by constantly managing the amount of air that is used to drive the pump



Completely Self Sustaining

Self-contained 12v power generation module, only requires compressed air. No need for batteries or hard-wiring



RHDB2 Metallic Performance

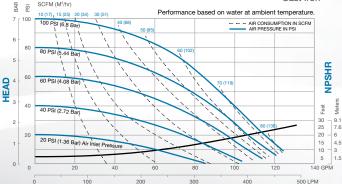
⊕ Ex C € **WET END**

MAX FLOW	PORTING
130 GPM (492 LPM)	• NPT / BSI

AIR END Aluminum

Aluminum

 Stainess Steel Cast Iron



CAPACITY



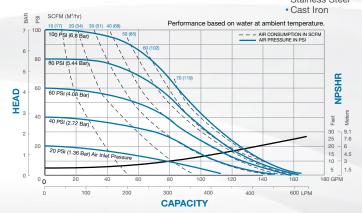
RHDF2 Metallic Performance

® EN CE

AX FLOW	PORTING	A
65 GPM (624 LPM)	• NPT / BSP	• /

IR END

WET END Aluminum Stainess Steel



SPECIF	CATIONS											
000	Α	В	С	D	Ε			Pipe	Displacement	Max	Max	Max
PUMP MODELS	Height	Width	Depth	Bottom of Bas of: Suction	se to Center Line Discharge			Size	Per Stroke	Flow Per Minute	Solids Handling	Discharge Pressure
2223	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)			inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
RHDB2t	22.45 (570)	15.5 (394)	26.4 (670)	9.05 (230)	20.89 (531)		2" NPT	2 (50)	.47 (1.77)	130 (492)	.325 (9)	125 (8.6)
RHDB2b	22.63 (575)	15.5 (394)	26.4 (670)	3.43 (87)	15.27 (388)		2" NPT	2 (50)	.47 (1.77)	130 (492)	.325 (9)	125 (8.6)
RHDF2	20.3 (516)	21.64 (550)	25.1 (637)	2.57 (65)	17.68 (449)		2" NPT	2 (50)	.47 (1.77)	165 (624)	2 (50)	125 (8.6)
RS20	26.38 (681)	16.94 (430)	26.31 (668)	2 (50)	24.88 (632)		2" NPT	2 (50)	.42 (1.59)	145 (548)	.25 (6)	125 (8.6)
RS30	32.19 (818)	19.65 (499)	26.31 (603)	2.34 (59)	30.08 (764)		3" NPT	3 (75)	1 (3.78)	245 (927)	.38 (9)	125 (8.6)
RS30nm	40.75 (1035)	33.125 (843)	24.95 (633)	4.75 (121)	35.75 (908)		3" Flange	3 (75)	.9 (3.41)	238 (901)	.71 (18)	100 (7)

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

ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

RS20 Metallic Performance



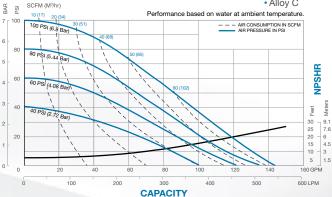
MAX FLOW • 145 GPM (548 LPM)

PORTING • NPT / BSP AIR END Aluminum WET END

Aluminum

· Stainess Steel · Cast Iron

· Alloy C





MAX FLOW



AIR END WET END • 245 GPM (927 LPM) NPT / BSP Aluminum

 Stainess Steel Cast Iron Alloy C ₩ SCFM (M³/hr)

CAPACITY



RS30 Non-Metallic Performance

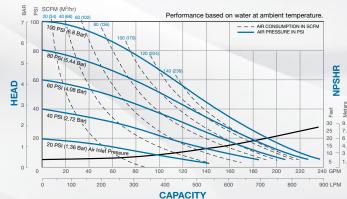
⊕ (€

MAX FLOW • 238 GPM (901 LPM)

PORTING ANSI Flange DIN Flange

AIR END Aluminum

WET END PVDF Polypropylene





UL LISTED PUMPS

PERFORMANCE & SPECIFICATIONS

SUBMERSIBLE CENTRIFUGAL 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.



UL: Underwriters Laboratories

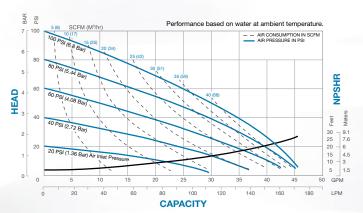


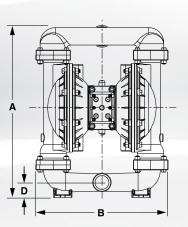
U1F Metallic Performance

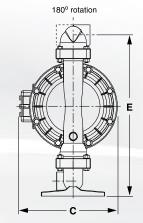
₹ (€

MAX FLOW • 45 GPM (170 LPM) • NPT / BSP

AIR END Aluminum **WET END** Aluminum











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.



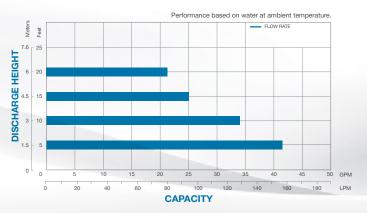
SPA1½-E Metallic Performance

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MAX FLOW • 43 GPM (163 LPM)

PORTING • NPT / BSP

WET END Aluminum

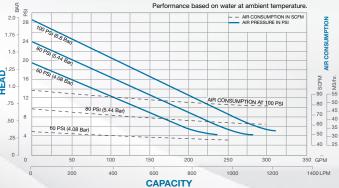


The SludgeMaster™ Submersible, Air-Powered Trash Pump handles mud, leaves, twigs, sand, sludge, trash-laden water and soft solids to 11/2" (3.8cm). High capacity, low head. The pump weighs only 59 pounds (26kg), and can fit through an opening as small as 14" (35cm). Sturdy construction for rough handling and long life. Optional rock screen available.

SMA3 Metallic Performance

CE

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

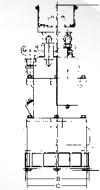


SCAN TO LEARN MORE

SPECIFICATIONS STATE OF THE PROPERTY OF THE PR												
PUMP MODELS	Α	В	С	D	Е		Pipe	Displacement	Max	Max	Max	
	Height	tht Width Depth Bottom of Base to Center L of: Suction Dischar		e 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)	
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)	

ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

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





SCAN TO LEARN MORE SANDPIPERPUMP.COM/SUBMERSIBLE

SPECIFICATIONS												
	Α	В	С	D	E	0.0000	Pipe	Max	Max	Max		
PUMP MODELS	Height	Width	Depth	Base to Center Discharge	Weight	Connection Style	Size	Flow Per Minute	Solids Handling	Discharge Height		
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	Pounds (kg)		inch (mm)	gal (liter)	inch (mm)	feet (m)		
SPA½-E	22 (560)	8.88 (225)	6.19 (157)	4.71 (119)	33 (15)	1½" 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 specifications





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

Nickel Plated



• 54 GPM (204 LPM)

Porting Options

Rotatable manifolds



SSB1 / DSB1 Metallic Performance

PORTING

Tri-Clamp

AIR END **WET END**

Stainless Stee

Aluminum Performance based on water at ambient temperature 40 PSI (2 72 D

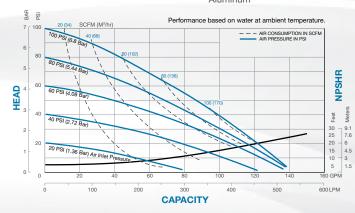


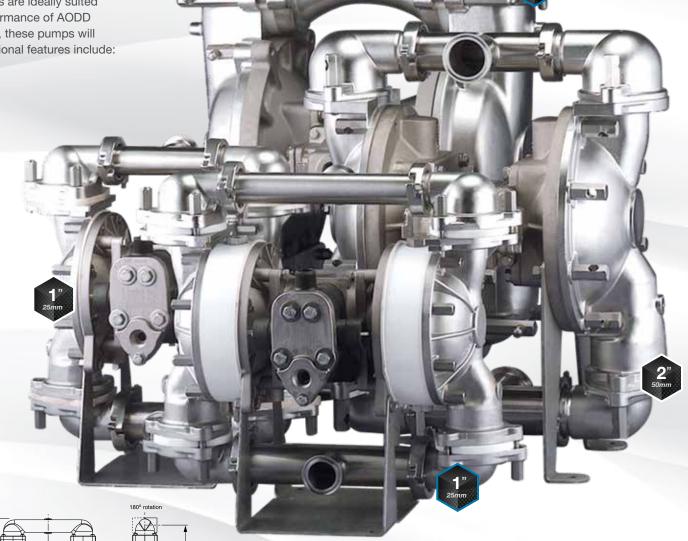
SSB2 Metallic Performance

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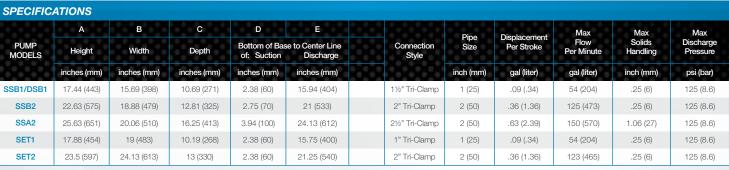
MAX FLOW	PORTING	AIR END	WET END
• 125 GPM (473 LPM)	 Tri-Clamp 	 Nickel Plated 	 Stainless Stee
		Δluminum	

CAPACITY





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



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

ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE





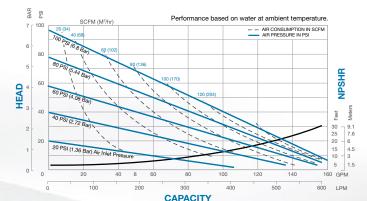
SSA2 Metallic Performance



MAX FLOW • 150 GPM (567 LPM)

PORTING Tri-Clamp AIR END Nickel Plated Aluminum

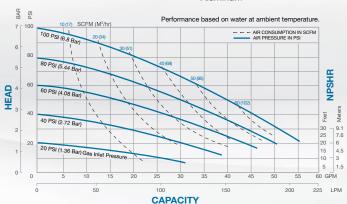
WET END · Stainless Steel



SET1 Metallic Performance

CE

MAX FLOW	PORTING	AIR END	WET END
• 54 GPM (204 LPM)	• Tri-Clamp	 Nickel Plated Aluminum 	Stainless Steel



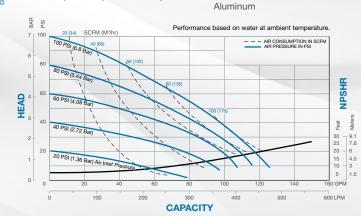


SET2 Metallic Performance

• 123 GPM (465 LPM) • Tri-Clamp

PORTING

AIR END WET END Nickel Plated Stainless Steel





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

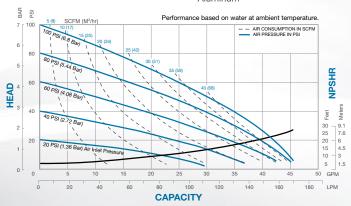
Rotatable manifolds and top or bottom discharge available



1F Metallic Performance

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MAX FLOW	PORTING	AIR END	WET END
45 GPM (170 LPM)	 Tri-Clamp 	 Epoxy Coated 	 Stainless Stee
		Δluminum	

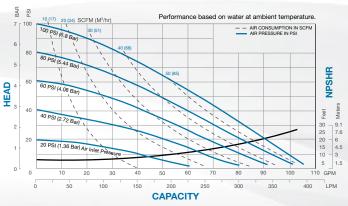


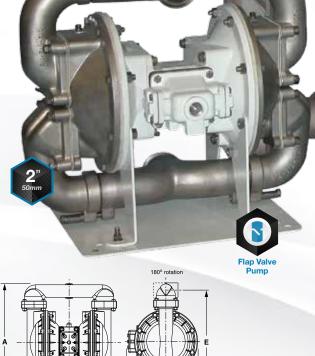


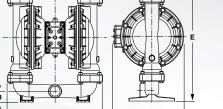
15 Metallic Performance

प्र" (€

MAX FLOW	PORTING	AIR END	WET END
• 106 GPM (401 LPM)	• Tri-Clamp	 Epoxy Coated Aluminum 	Stainless Steel







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

SPECIFICATIONS С **PUMP** Bottom of Base to Center Line inches (mm) inches (mm) inch (mm) gal (liter) inches (mm) T1F 12.97 (326) 10.25 (260) 10.38 (264) 1.22 (31) 11.97 (304) 45 (170) .25 (6) 125 (8.6) 21.81 (554) 16.66 (423) 1.97 (50) 1.5 (38) T15 12.36 (314) 20.38 (518) 2" Tri-Clamp .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) 21/2" Tri-Clamp 2 (50) .42 (1.59) 150 (567) .25 (6) 125 (8.6) 32.28 (820) 19.66 (499) 15.75 (400) 4.22 (107) 30.84 (808) 3 (75) .94 (3.56) 235 (889) .38 (9.5) 125 (8.6) TSA2 20.81 (529) 21.25 (539) 13 (330) 2.56 (55) 17.56 (447) 21/2" Tri-Clamp 2 (50) .43 (1.60) 140 (530) 2 (50) 125 (8.6)

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

Santoprene is a registered trademark of Exxon Mobil Corporation.

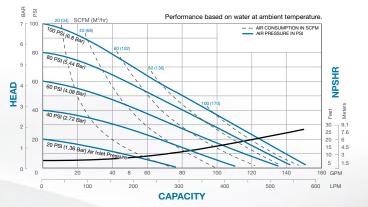
T20 Metallic Performance

प्र" (€

MAX FLOW • 150 GPM (567 LPM)

PORTING Tri-Clamp AIR END Epoxy Coated Aluminum

WET END · Stainless Steel



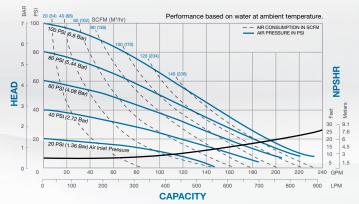
T30 Metallic Performance

प्रौ (€

MAX FLOW • 235 GPM (889 LPM)

PORTING AIR END ANSI Flange

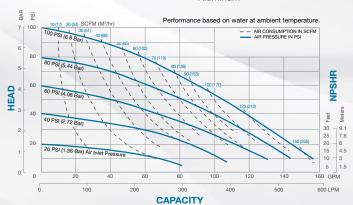
WET END Epoxy Coated



SA2 Metallic Performance

PORTING AIR END **MAX FLOW** • 140 GPM 530 LPM) Tri-Clamp

WET END Epoxy Coated Stainless Steel Aluminum





MINE & CONSTRUCTION PUMPS

PERFORMANCE & SPECIFICATIONS

SCAN TO LEARN MORE SANDPIPERPUMP.COM/MININGPUMPS



When durability and reliability are paramount in the rigorous environments of today's mines and construction sites, our mining and construction pumps are a great solution. With more ways than one, these pumps are designed to be tossed, dragged and crammed into position to get the fluids you need removed in a hurry. Some of the most attractive features of these pumps are:

Ease of Use

Superior on-off-on reliability and easy to move with built in handles



Base Mounting Options

Skid mount, roll cage, and strainer bases available



Performance

High flow and solids size options available

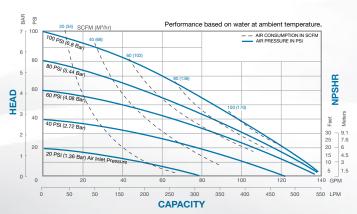


MSB2 Metallic Performance

MAX FLOW AIR END • 125 GPM (473 LPM) • NPT / BSP Aluminum **WET END** Aluminum

Aluminum

€≥ (€

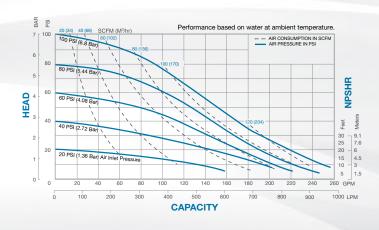




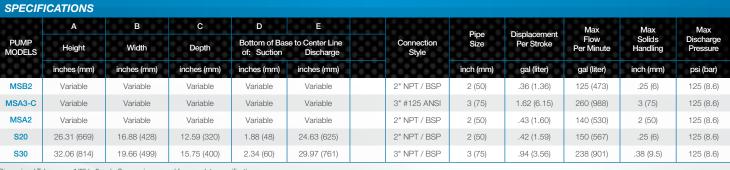
MSA3/MSA3-C Metallic Performance 🖾 🕻 €

WET END MAX FLOW PORTING AIR END

Aluminum







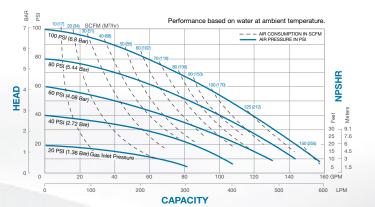
Dimensional Tolerance: $\pm 1/8$ " (\pm 3mm) • See service manual for complete specifications.

ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

MSA2 / MSA2-B / MSA2-C Metallic Performance

MAX FLOW • 140 GPM (530 LPM)

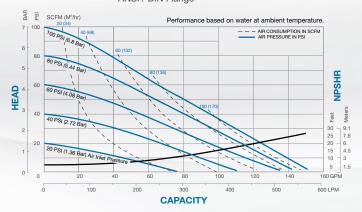
PORTING NPT / BSP AIR END Aluminum WET END Aluminum



S20 Metallic Performance

€x> C €

MAX FLOW AIR END **WET END** • 150 GPM (567 LPM) NPT / BSP Aluminum Aluminum · ANSI / DIN Flange



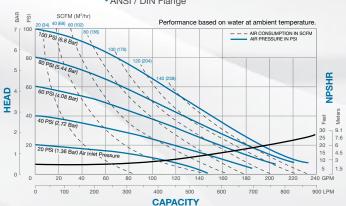


S30 Metallic Performance

MAX FLOW • 238 GPM (901 LPM)

PORTING • NPT / BSP · ANSI / DIN Flange

AIR END WET END Aluminum



• 260 GPM (988 LPM) • ANSI Flange

HIGH PRESSURE PUMPS

PERFORMANCE & SPECIFICATIONS

SCAN TO LEARN MORE SANDPIPERPUMP.COM/HIGHPRESSUREPUMPS



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 N25 and N50 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 30 GPM (114 LPM) for N25 and as high as 90 GPM (341 LPM) with N50.



Maximum Flow Control

High pressure capabilities allow for optimum control



Heavy Duty

Bolted construction and made with robust materials



Unique Orientation

SH2-M Metallic Performance

PORTING

Single end discharge and suction available



Reliability

Tested to ensure the long lasting performance



MAX FLOW

• 62 GPM (235 LPM)

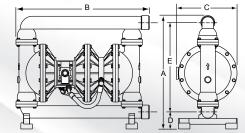
Non-Freezing, Non-Stalling

Patented air valve will never unexpectedly stop

AIR END





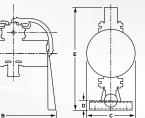


€≥ (€

WET END

Aluminum

· Cast Iron



PECIFICATIONS													
	Α	В	С	D	Е			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)	0000	0 0 0 0	inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)	psi (bar)
H2-M/GH2-M	25 (635)	25.81 (656)	11.75 (298)	2.18 (56)	25 (635)		2" NPT	2 (50)	.30 (1.1)	62 (235)	.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)	62 (235)	2 (50)	250 (17)	125 (8.6)
N25	15.94 (405)	18.27 (464)	11.02 (280)	1.97 (50)	14.95 (380)		1" BSP	1 (25)	.13 (.5)	30 (125)	.13 (3)	232 (16)	117 (8)
N50	24.41 (620)	28.70 (729)	13.07 (332)	3.66 (93)	22.95 (583)		2" BSP	2 (50)	.42 (1.9)	75 (341)	.25 (6)	232 (16)	117 (8)

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



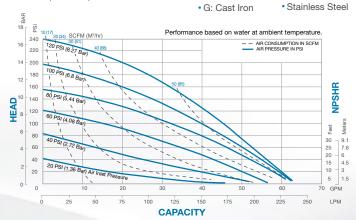
EH2-M / GH2-M Metallic Performance & CE



MAX FLOW • 62 GPM (235 LPM)

PORTING NPT

AIR END WET END • E: Aluminum Cast Iron



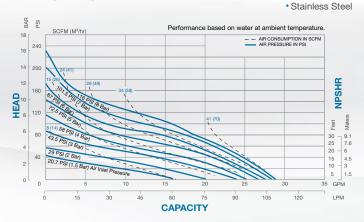
N25 Metallic Performance



MAX FLOW • 30 GPM (114 LPM)

• NPT / BSP

AIR END WET END Aluminum



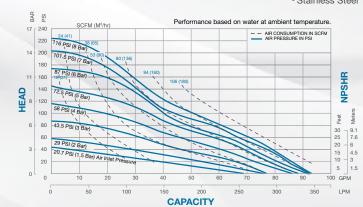


N50 Metallic Performance

MAX FLOW • 90 GPM (341 LPM)

PORTING • NPT / BSP **AIR END** • Aluminum

WET END Aluminum Stainless Steel







FILTER PRESS SYSTEMS

DESCRIPTION & SPECIFICATIONS

WASTEWATER PUMPS

PERFORMANCE & SPECIFICATIONS



Built-to-Order, Multi-Pump Systems

Combine a high volume fill pump with a high pressure feed pump. Frequently used for filter press feed applications, the systems produce operating pressures to 250 PSI (17 BAR). This results in shortened press cycles, drier cake and less costly disposal.



Base Systems

040.010.000 consists of:

- (1) S20W1INCANS100
- (1) EH2-M, TN-4-I
- Filter/Regulator (1) 020.052.000
- Filter/Regulator (1) 020.051.000
- Includes base & piping with 2" flange suction & discharge connections

040.011.000. consists of:

- (1) S30W1INCANS100
- (1) EH2-M, TN-4-I
- Filter/Regulator (1) 020.052.000
- Filter/Regulator (1) 020.051.000
- Includes base & piping with 3" flange suction & discharge connections

040.003.000. consists of:

- (1) SA2-A, DA-5-II
- (1) SH2-M, DN-7-I
- Filter/Regulator (1) 020.052.000
- Filter/Regulator (1) 020.051.000
- Includes base & piping with 2" flange suction & discharge connections

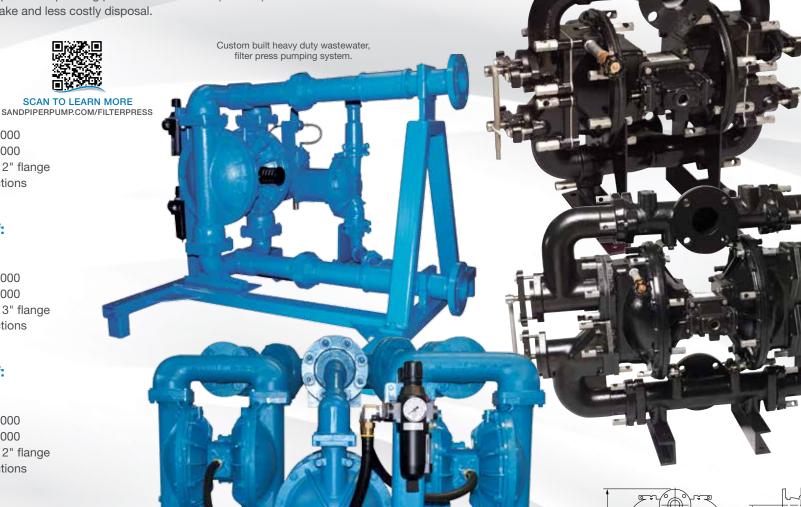
040.004.000. consists of:

- (1) SA3-M, DA-2-II
- (1) SH2-M, DN-7-I
- Filter/Regulator (1) 020.052.000
- Filter/Regulator (1) 020.051.000
- Includes base & piping with 3" flange suction & discharge connections



Consult Factory For:

- Lead time
- Pricing
- Combinations of pumps for other systems



Non-Clog Wastewater Pumps are fitted with swing check valves and easy access clean-outs. The pumps are designed specifically for slurry and solids-laden materials. Flap valves allow passage of suspended, pipe-size solids and stringy material. Constructed of cast iron and durable epoxy coating inside and out.

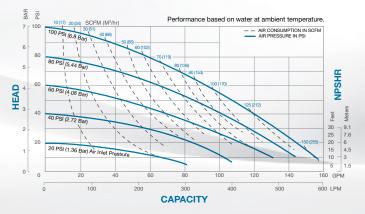


W09 Metallic Performance

 ϵ

MAX FLOW PORTING • 140 GPM (530 LPM) ANSI Flange AIR END Cast Iron

WET END · Cast Iron





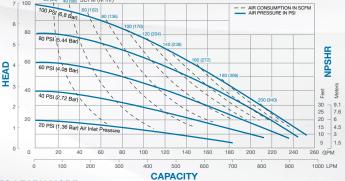
W15 Metallic Performance

CE

MAX FLOW • 260 GPM (988 LPM) • ANSI Flange

PORTING

AIR END **WET END** · Cast Iron · Cast Iron





SCAN TO LEARN MORE

SPECIF	A B C D E Pipe Displacement Thur Calida Displacement										
	Α	В	С	D	Е		Dina	Displacement	Max	Max	Max
PUMP MODELS	Height	Width	Depth	Bottom of Bas of: Suction	se 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)
W09-2	23.75 (608)	28.25 (724)	19.75 (506)	20.75 (531)	5.63 (144)	2" 125# ANSI	2 (50)	.43 (1.60)	140 (530)	2 (50)	125 (8.6)
W09-3	24.5 (627)	28.25 (724)	19.75 (506)	20.75 (531)	5.63 (144)	3" 125# ANSI	3 (75)	.43 (1.60)	140 (530)	2 (50)	125 (8.6)
W15-3	31.5 (800)	44.5 (1130)	21.5 (546)	27.75 (705)	6 (152)	3" 125# ANSI	3 (75)	1.23 (4.66)	260 (988)	3 (75)	125 (8.6)
W15-4	32.25 (819)	44.5 (1130)	21.5 (546)	27.75 (705)	6 (152)	4" 125# ANSI	4 (102)	1.23 (4.66)	260 (988)	3 (75)	125 (8.6)

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



Plate and frame filter press pumping system

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



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. **LEARN MORE ON PAGE 64**

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.



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

Pulsation

Suppressor

Dampener / Surge

Provides virtually pulse-

free discharge flow, for

steadier pressure with

series is self-charging

and self-venting.

less system vibration and noise. Our Tranquilizer®

LEARN MORE ON PAGE 65

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.

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.

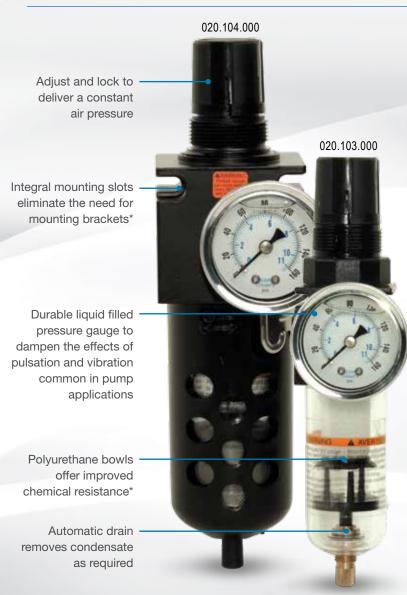
Mechanical leak detection opens an air valve, which activates a customer supplied solenoid to trigger a signal. For use with the Containment Duty Spill Containment SANDPIPER pumps only.





FILTER REGULATORS

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





Lower Operating Costs Reduced air consumption and less

compressor demand **Extended Pump Life** Reduced stress on wear components by

proportioning the air pressure

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

Filter / Regulators.

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

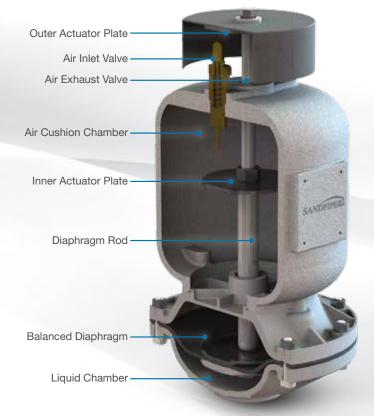
^{*} Up to ¾" units.

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 Numbe			
020.103.000	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	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			
020.105.000	34" 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			
020.107.000 for AirVantage	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 Recommende			

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

WITH SUPPRESSOR

TRANQUILIZER



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



Protects other system components



ALSO AVAILABLE THROUGH SANDPIPER:

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



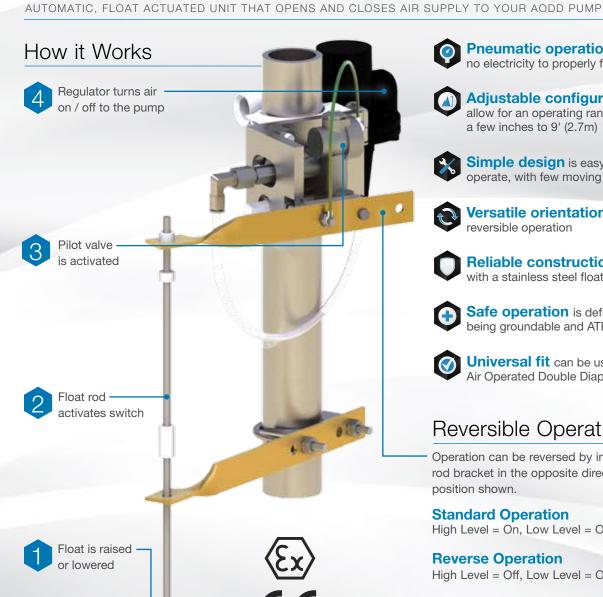
SANDPIPERPUMP.COM/SURGEDAMPENERS

TEC	ישואור	AL SPEC	IEIC ATI	ONS					Availa	ble We	tted M	laterial	S				
IEC	HIVICA	AL SPEC	IFICATI	UNS					Cha	mber				Diap	hragm		
	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®
ě	TA1	1" pumps	®(€	1/4" NPT (external thread)	1" NPT	13.625"-15.125" (346mm-384mm)	9" (229mm) NPT(F)	√	V	X	X	√	√	√	√	V	V
ve)	TA25	1" pumps	 © C €	1/4" NPT (external thread)	1" BSP (Tapered internal thread)	13.625"-15.125" (346mm-384mm)	9" (229mm) NPT(F)	√	V	X	X	√	√	√	√	V	V
Iranquilizers (Featured Above)	TA1½	1" & 1½" pumps	®(€	1/4" NPT (external thread)	1½" NPT (Internal thread)	19.875"-21.325" (505mm-543mm)	10.5" (267mm) NPT(F)	√	√	√	√	√	√	√	√	√	√
eature	TA40	1" & 1½" pumps	®C€	1/4" NPT (external thread)	1½" BSP (Tapered internal thread)	19.875"-21.325" (505mm-543mm)	10.5" (267mm) NPT(F)	√	V	√	√	√	√	√	√	V	V
zers (F	TA2	1½" & 2" pumps	®(€	1/4" NPT (external thread)	2" NPT (Internal thread)	20.25"-23.1875" (514mm-589mm)	12.5" (317mm) NPT(F)	√	√	√	√	√	√	√	√	√	√
illinbu	TA50	1½" & 2" pumps	®(€	1/4" NPT	2" BSP (Tapered internal thread)	20.25"-23.1875" (514mm-589mm)	12.5" (317mm) NPT(F)	√	V	√	√	√	√	√	√	V	V
<u>e</u>	ТАЗ	3" pumps	®(€	1/4" NPT	3" 150# ANSI or 3" NPT (Internal)	20.125"-23.125" (511mm-587mm)	16.1875" (411mm) NPT(F)	√	√	√	X	√	√	√	V	√	√
	TA80	3" pumps	®(€	1/4" NPT	3" BSP (Tapered int.) or 80mm DIN	20.125"-23.125" (511mm-587mm)	16.1875" (411mm) NPT(F)	√	V	√	X	√	√	√	√	V	V
Sie	DA05	½" pumps	C€	1/4" NPT	½" NPT	7.468" (190mm) WIDTH: 5.625" (143mm)	6.9375" (176mm)		,	Aluminu	um, Sta	ainless	Steel &	Polypr	opylene	9	
Dampeners	DA07	3/4" pumps	C€	1/4" NPT	34" NPT	7.718" (196mm) WIDTH: 5.625" (143mm)	6.9375" (176mm)				Po	olyprop	ylene o	nly			
Da I	DA10	1" pumps	C€	1/4" NPT	1" NPT	11.718" (298mm) WIDTH: 5.625" (143mm)	7.5" (191mm)				Po	olyprop	ylene o	nly			





All of the TA models are CE and ATEX • Dimensional Tolerance: ±1/8" (± 3mm). • See service manual for complete specification



- **Pneumatic operation requires** no electricity to properly function
- Adjustable configurations allow for an operating range from a few inches to 9' (2.7m)
- Simple design is easy to install and operate, with few moving parts
- Versatile orientation enables a quick, reversible operation
- Reliable construction accomplished with a stainless steel float and connecting rod
- **Safe operation** is defined by the unit being groundable and ATEX compliant
- Universal fit can be used with all Air Operated Double Diaphragm pumps

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







Fluid Transfer



Tank Filling

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

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.

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.

TECHNICAL SP	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							

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

Natural Gas Filters

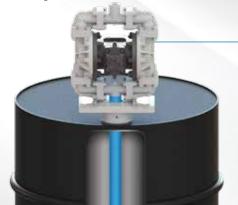
Diaphragm Material: Nitrile elastomer with polyester fabri All gauge ports & vent ports are tapped 1/4" NPT
Replacement pressure gauge part number: 020.061.000

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.

١	TECHNICA	ECHNICAL SPECIFICATIONS												
	Part Number	Port Size	Max Flow (SCFM)	Pump Models	p Models Replacement Max Inlet Filter Element 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			End Seals						



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



Drum & Pail Transfer Kits

The adaptor kits are constructed of chemically-resistant materials to handle the job. Plastic pipe assembly comes complete with all the hardware needed. Simply attach the threaded end to the suction manifold and lower it into the liquid source. The 55-gallon Drum Transfer Kit includes pump support legs to minimize the vibration occurring in a diaphragm pump. The 120# Barrel Transfer Kit includes a lid with adjustment screws for a snug fit every time.



DIAPHRAGM SELECTION

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

The Synthesis Diaphragm

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







Start-Up Pressure of less than 10 PSI on SANDPIPER Synthesis Diaphragm vs. 25 PSI or more on competitive diaphragms



50% of the diaphragm through the entire dynamic motion

One-Piece Composite Design with 100% PTFE on the wetted side bonded to a Nitrile Rubber Backer (NRB) with an integrated diaphragm plate

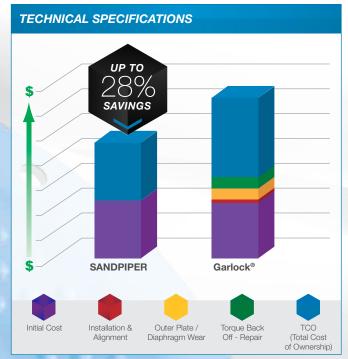


Two-piece Diaphragm

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.



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TECHNICAL SPECIFICATIONS								
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	2.219.150 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				

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

	MAIERIA	AL SELECT	ION GUIL	DE				
	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	ļ	X	Į.	+	+	350°F / 177°C	-40°F / -40°C
	Hytrel [®]	✓	+	+	✓	✓	220°F / 104°C	-20°F / -29°C
	Neoprene	+	+	✓	X	✓	200°F / 93°C	-10°F / -23°C
	Nitrile	+	+	✓	Į.	✓	190°F / 88°C	-10°F / -23°C
	Santoprene®	+	+	+	+	+	275°F/135°C	-40°F/-40°C
7	Urethane	+	√	1	X	!	150°F / 66°C	32°F / 0°C
	PTFE Synthesis	ļ	✓	1	+	!	176°F / 80°C	14°F / -10°C
	DTEE							



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

Delivering Superior Service



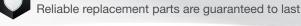
Everything in One Place

All of the parts you need to get running again



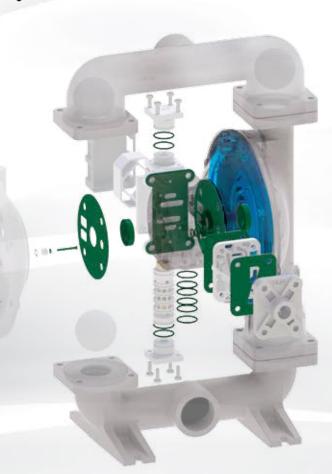


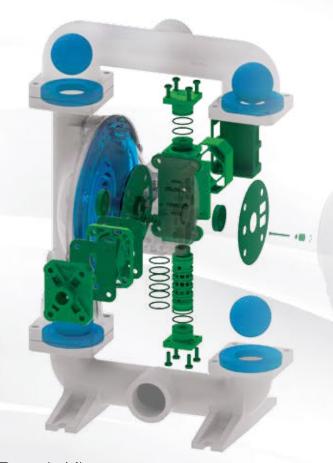
Reduce Frequency of Repairs





Save Time and Money
Ordering and repairs made easy





Wear Kits

Wet End Wear Kit:

Diaphragms

Air End Wear Kit:

- Gaskets
- O-rings
- Seals
- Lubricant

Repair Kits

Wet End Repair Kit:

- DiaphragmsBalls
- Seats

Air End Repair Kit:

- Seals
- O-rings
- Gaskets
- Retaining Rings
- Air Valve Sleeve and Spool
- Pilot Valve Assembly
- Lubricant



We make it easy for you to repair your pump with detailed service videos that teach you how to maintain your SANDPIPER pump right, from the advice of our experienced and certified support team.

SCAN TO WATCH SANDPIPER SERVICE VIDEOS
SANDPIPERPUMP.COM/VIDEOS





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**.





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Distributor Locator

Find your local SANDPIPER distributor quickly and easily



SANDPIPER Mobile App

The innovative SANDPIPER mobile app is designed to help you quickly and easily find the tools you need to support your pump. Instantly locate information related to your specific pump using My Pump Details, instantly review our Chemical Compatibility Guide, conveniently flip through our latest full line catalog, watch helpful service and training videos, and more.

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