

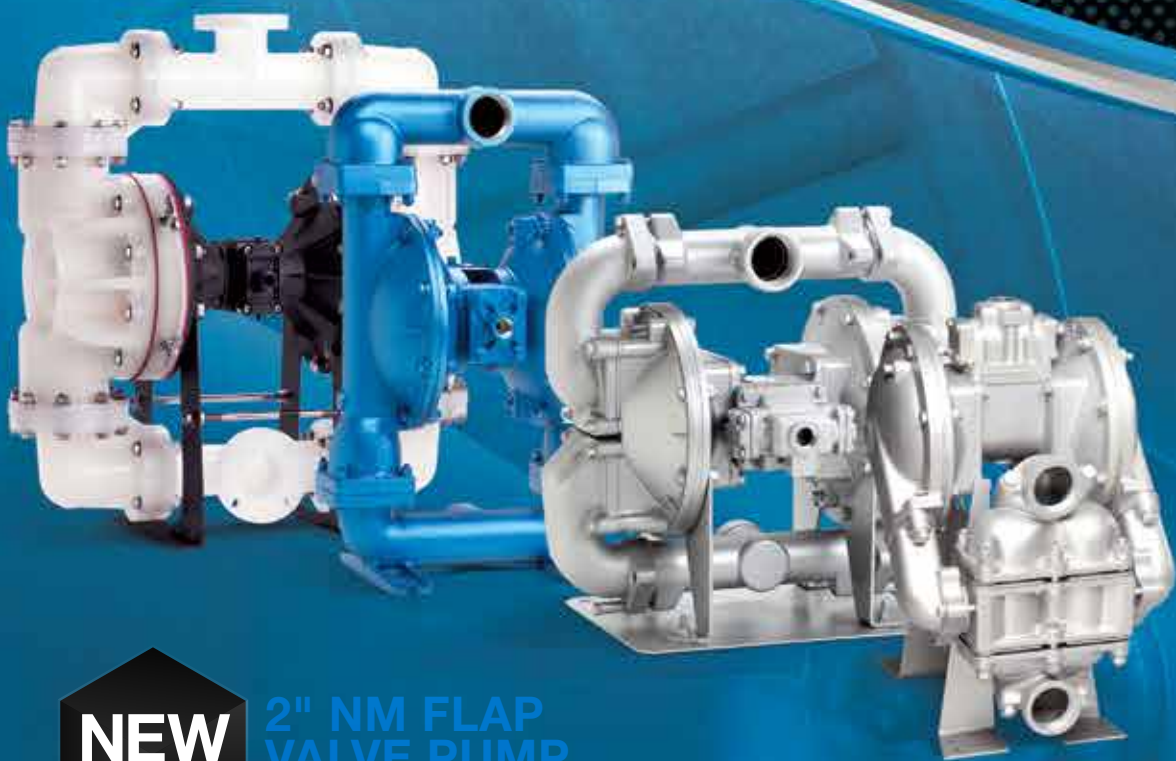
200 East Big Beaver Road, Troy, MI 48083
P: (248) 752-2620 | E: Sales@oemsalesinc.com



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE



A WARREN RUPP, INC. BRAND | SANDPIPERPUMP.COM



**2" NM FLAP
VALVE PUMP**
SEE PAGE 34



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

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



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

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

Pump Technology
Air Operated Double
Diaphragm Pumps
(AODD)

**Certified
Quality**



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



CSA
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 Tranquillizer Surge
Suppressors



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
Fluids

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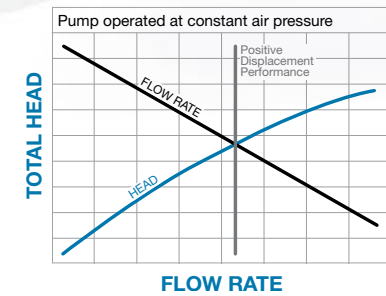
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WHY CHOOSE AODD PUMPS

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

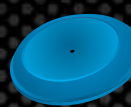








Although the AODD pump is a displacement type, it is actually a hybrid and defies strict classification. While its pressure versus capacity characteristics resemble those of a centrifugal pump, it is best defined as a sealless, non (or semi) positive displacement pump.



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
-  Optional bottom discharge porting depending on fluid characteristics

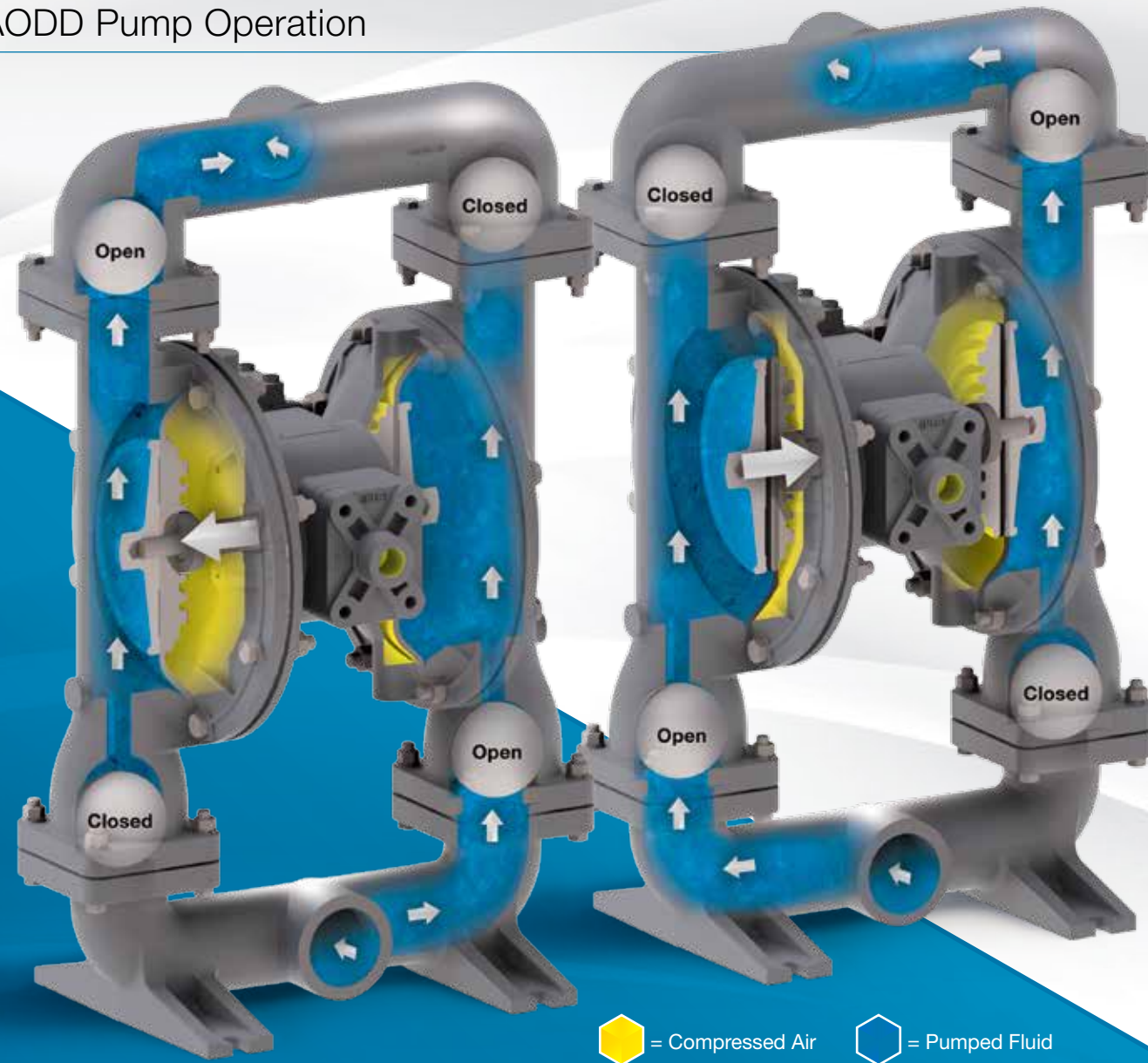
AODD VS. OTHERS	PUMPING PRINCIPLE						
	AODD	Kinetic Centrifugal	Positive Displacement				
							
	AODD	Centrifugal	Lobe	Gear	Progressive (Screw)	Peristaltic (Hose)	Piston/Plunger
Variable Flow & Head Control <i>(inherently adjustable)</i>	✓	✓	✓	✓	!	!	✓
Deadheads Safely <i>(at zero energy consumption)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

✓ = Suitable ! = Limitations X = Not Recommended

OPERATION & INSTALLATION

FIXED, MOUNTED OR PORTABLE SANDPIPER PUMPS ARE DESIGNED TO PERFORM IN THE MOST DIFFICULT CONDITIONS

AODD Pump Operation



1 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.

2 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.

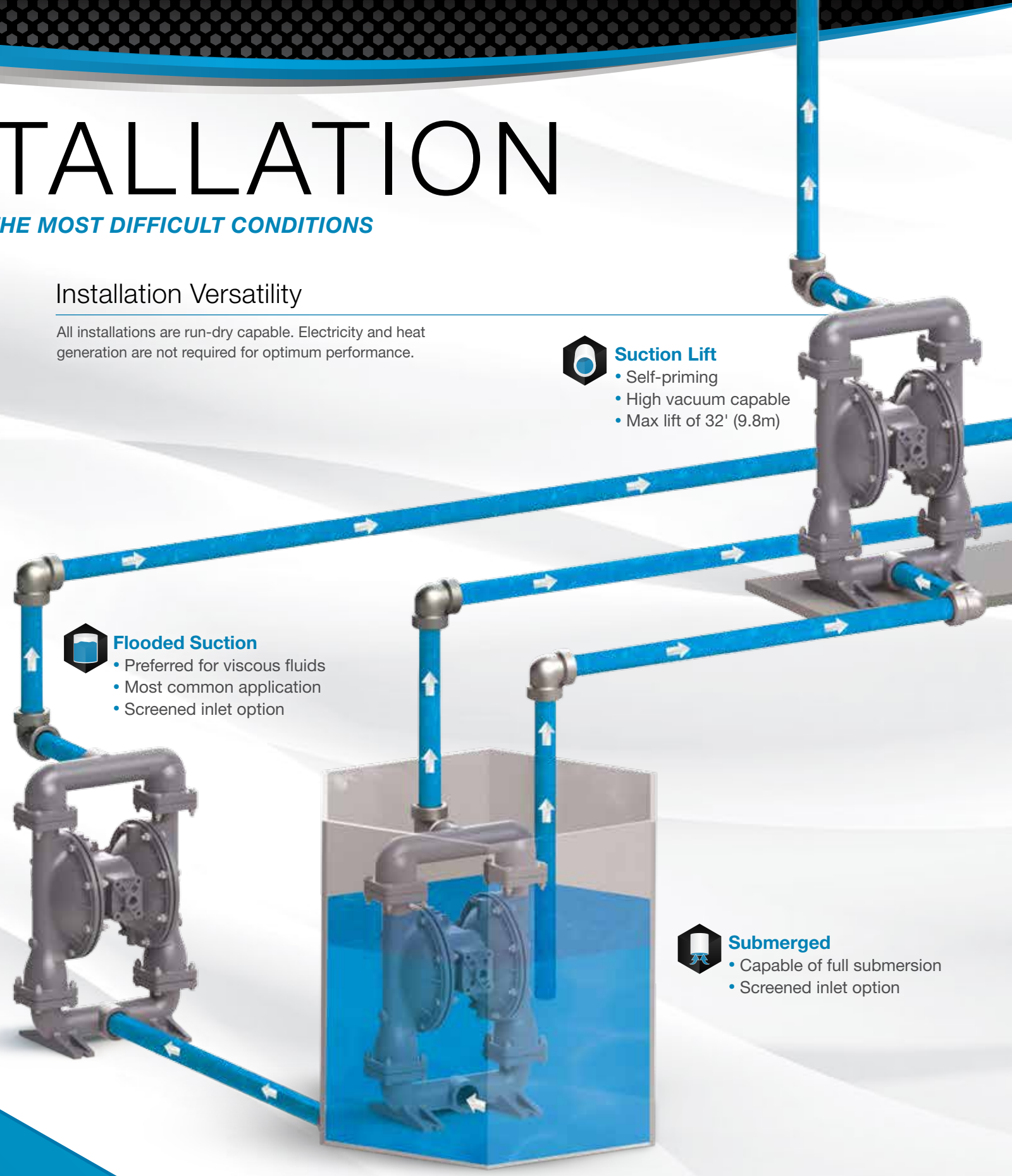
Installation Versatility

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



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

THE SANDPIPER ADVANTAGE

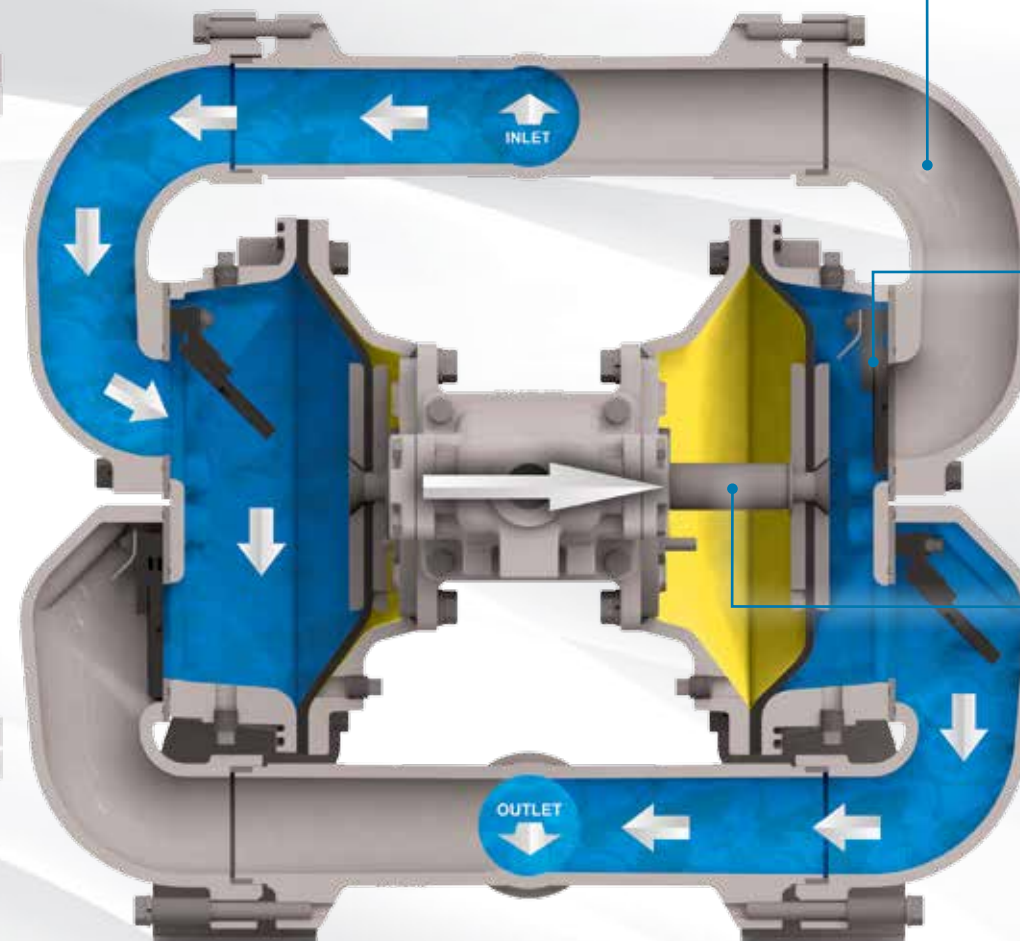
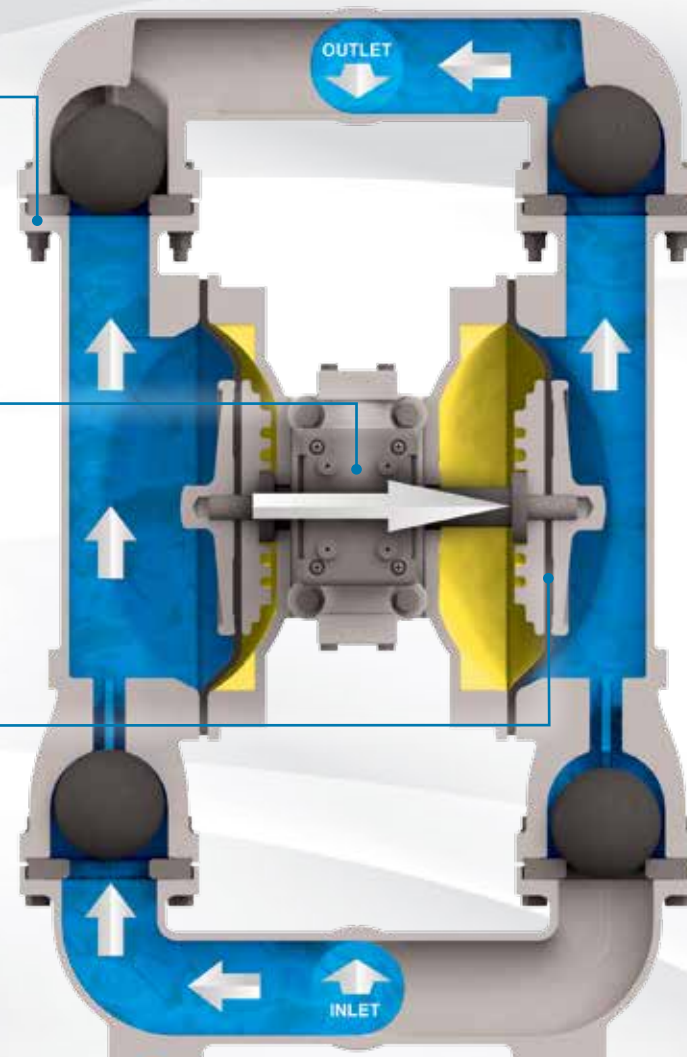
WITH NEARLY 50 YEARS OF PUMPING EXPERTISE, WE PROVIDE APPLICATION DRIVEN PUMPING SOLUTIONS

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 capabilities

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



Superior Performance
Hinge pads exert positive pressure on the flaps allowing the pump to operate in virtually any position, helping deliver superior suction lift and flow rates

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

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

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

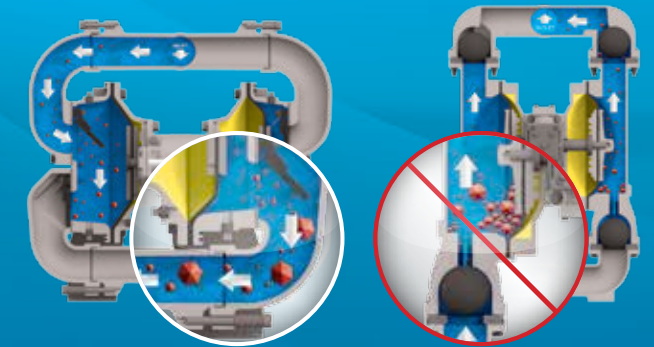


SCAN TO WATCH THE ESADS+PLUS VIDEO
SANDPIPERPUMP.COM/ESADSVIDEO

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
- Ensure even diaphragm wear for longevity
- Eliminate diaphragm rod damage
- See our connecting rod guarantee



Bottom Discharge

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

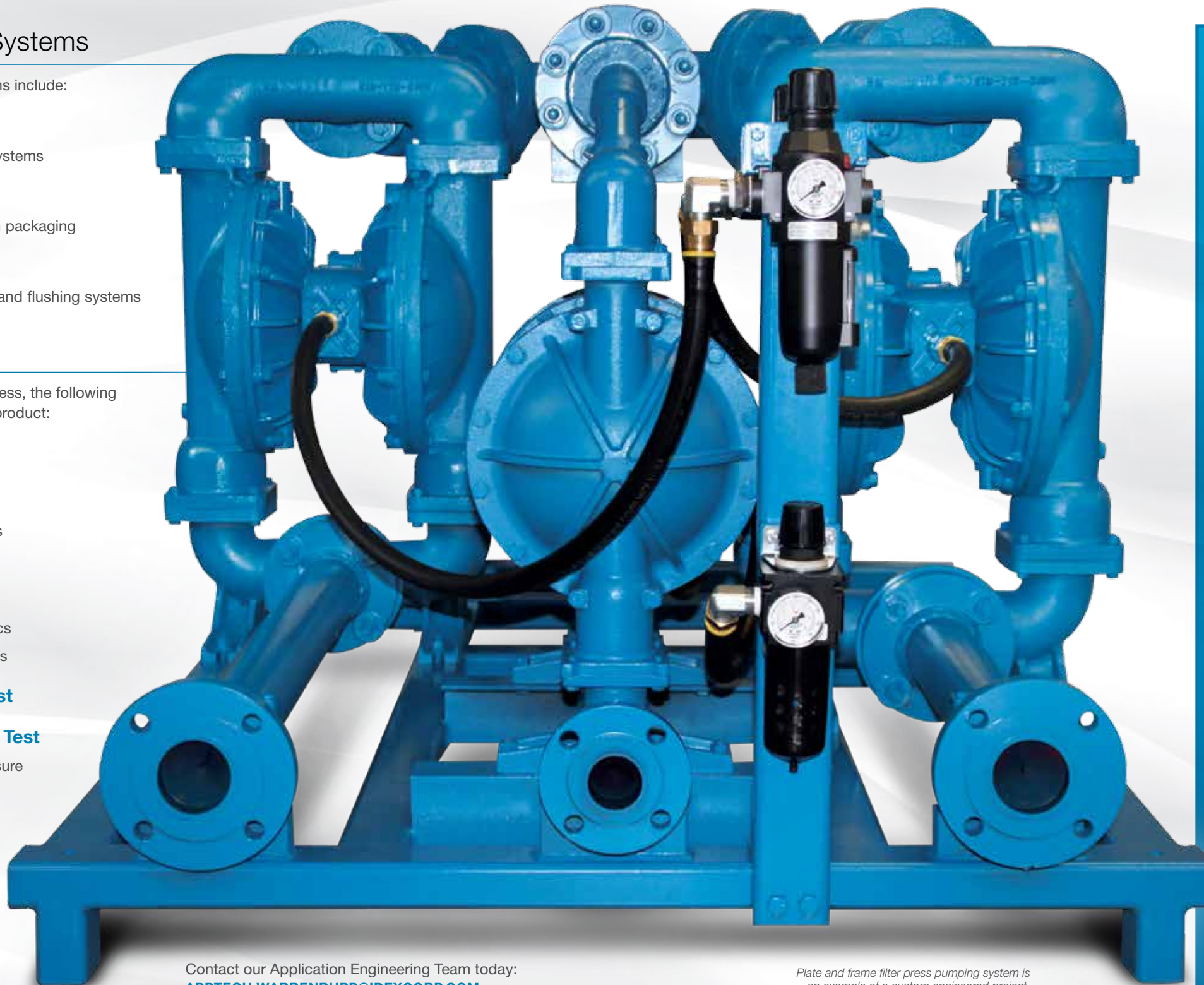
3. Vacuum Characteristics Test

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



Contact our Application Engineering Team today:
APPTech.WarrenRupp@IDEXCORP.COM

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

Product Services



Performance Testing

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



Pressure Testing

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



Repair Services

Pump repair services for labor only



Material & Pump Certificates

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



Custom Coating

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



Custom Products

Custom and engineered products, product dimensional outlines and systems



Custom Nameplates

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



Material Testing

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



Additional Pump Testing

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

HALAR is a registered trademark of Solvay Solexis, Inc.

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

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



Mining

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



Chemical

Applications include packaging, drum / tote, processing, injection, mixing and much more



Pharma / Personal Care

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



Coatings

Applications include pigment milling, paint filtration, mixing tanks, filling machines, tank transfer, low shear requirements and much more



Pulp & Paper

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



Construction

Applications include portable utility, oil transfer, fuel transfer, site dewatering, seal coating, road striping, municipal utility and much more



Oil & Gas

Applications include natural gas fields, service rigs, offshore platform requirements, settling pond transfer, diesel fuel transfer, spill clean-up, salt water transfer / disposal, flare knockout and much more



Food Processing

Applications include food packaging, product transfer, wine tank over, FDA compliance, low degradation requirements, wine fermentation / pumpover and much more



Wastewater

Applications include municipal portable utility, neutralize wastewater, waste activated sludge, return activated sludge, thickened sludge, belt press feed and much more



SCAN FOR A COMPLETE LIST OF
MARKETS & APPLICATIONS
SANDPIPERPUMP.COM/MARKETS

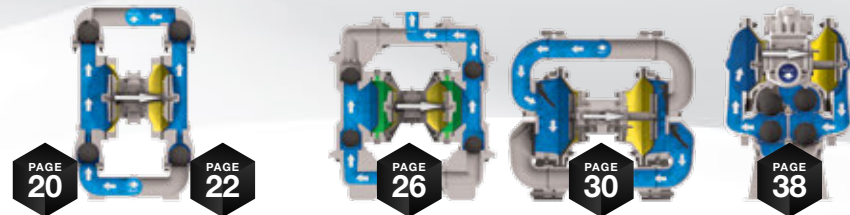


PUMP SELECTION

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 CONFIGURATIONS		Standard Duty Ball Valve - Metallic	Standard Duty Ball Valve - Non-Metallic	Containment Duty Ball Valve	Heavy Duty Flap Valve	Heavy Duty Ball Valve
Specifications	Suction / Discharge Port Sizes	1/4" through 3"	1/4" through 3"	1" through 3"	1" through 4"	1" through 4"
	Max Flow Rate Per Minute	238 Gal. (901 L)	238 Gal. (901 L)	260 Gal. (988 L)	260 Gal. (988 L)	260 Gal. (988 L)
	Max Discharge 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 @125psi
	Max Displacement 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 Dry Prime	20' (6m)	20' (6m)	18' (5.5m)	24' (7m)	20' (6m)
	Max Solids Handling	.38" (10mm)	.71" (18mm)	.44" (10mm)	3" (75mm)	.88" (22mm)
Fluid Characteristics	Water	+	+	+	+	+
	Suspended Solids	+	✓	✓	+	+
	Non-Suspended Solids	!	✗	✗	+	!
	Line Size Solids	✗	✗	✗	+	✗
	Sludge / Slurry	✓	!	!	+	+
	High Viscosity (Flowable Fluids)	✓	✓	✓	✓	+
	Erosion / Abrasive Fluids					
Installation	Corrosion	✓	+	+	✓	✓
	Permanent	✓	✓	✓	+	+
	Portable	+	+	+	+	+
	Containment / Prevention	!	!	+	!	!
Duty	Flooded Suction	✓	✓	✓	✓	+
	Suction Lift	✓	✓	✓	+	✓
	Submerged	✓	!	!	✓	✓
Duty	Intermittent / On-Demand	+	+	+	+	+
	Continuous	✓	✓	✓	✓	+

+ = Best Type ✓ = Suitable ! = Limitations ✗ = Not Recommended

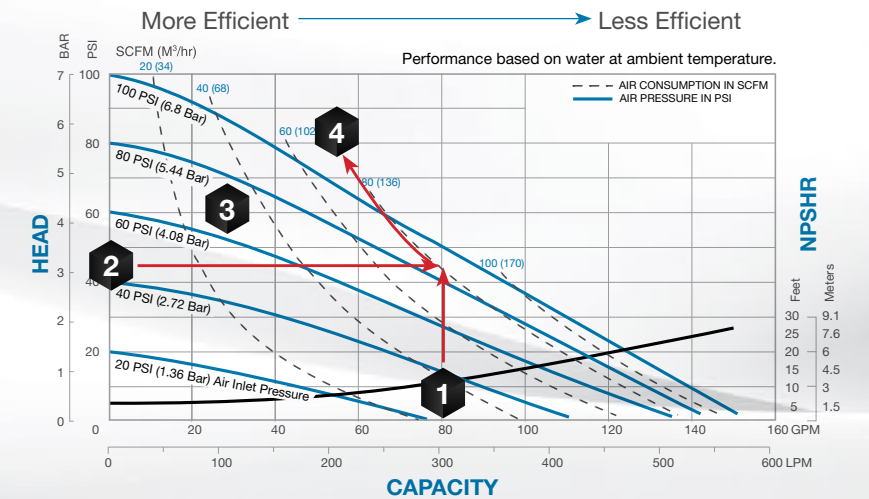
Pump Performance

- Select Flow Rate (GPM)**
Example: 80 GPM
- Determine Discharge Head (PSI)**
Example: 45 PSI
- 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

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

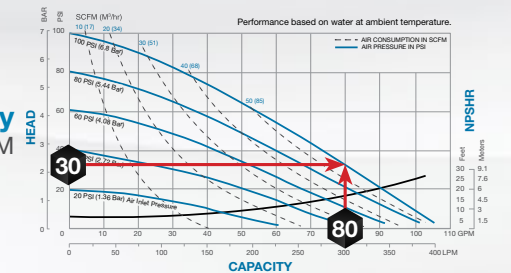


Sizing to Extend Mean Time Between Failures

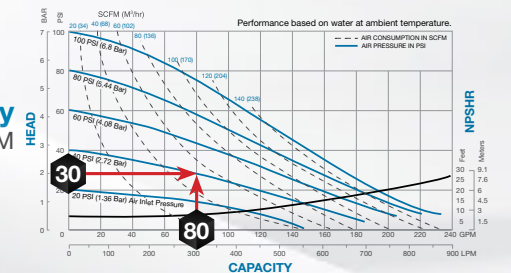
Pumping requirements (flow & head) for most applications can be met by multiple sizes of pumps. Talk to SANDPIPER'S application engineers to assist you with a size selection which best fits your total cost of ownership budget. An appropriately sized-up pump will lower the consolidated initial investment,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

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

1 1/2" Standard Duty
30 PSI, 80 GPM = 90 SCFM



3" Standard Duty
30 PSI, 80 GPM = 45 SCFM



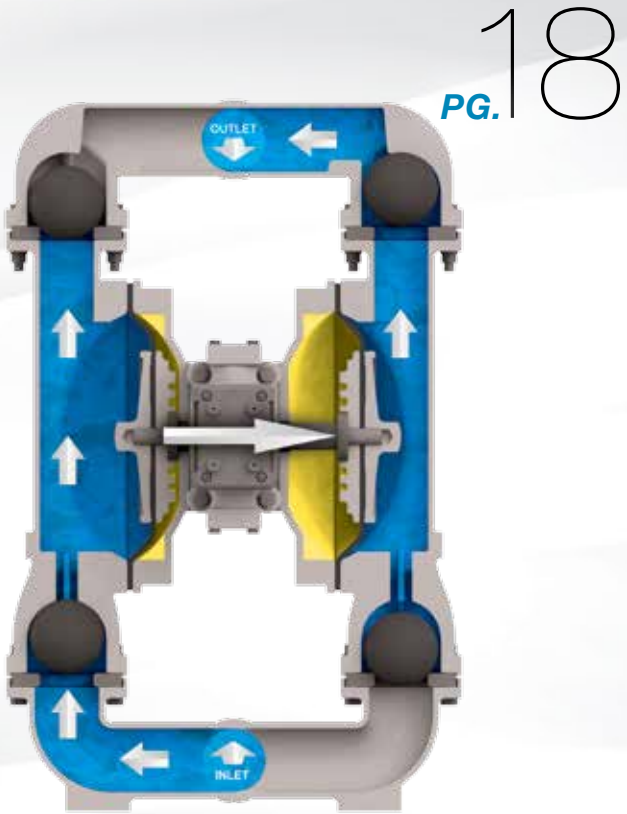
Additional Resources

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

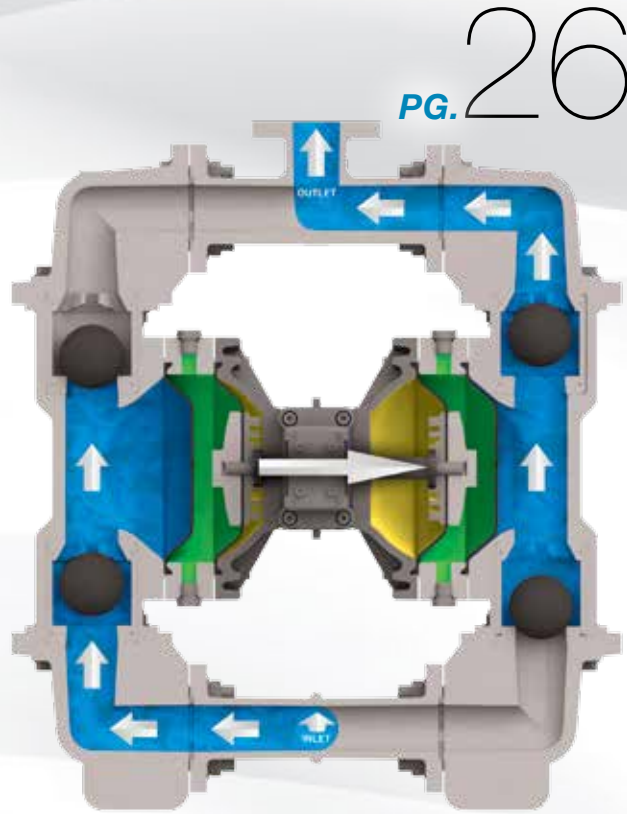
WITH THE BROADEST RANGE OF CONFIGURATIONS, SANDPIPER HAS A SOLUTION FOR YOUR PUMPING PROBLEM, WITH MORE WAYS THAN ONE



STANDARD DUTY BALL VALVE

Unique features for this configuration include:

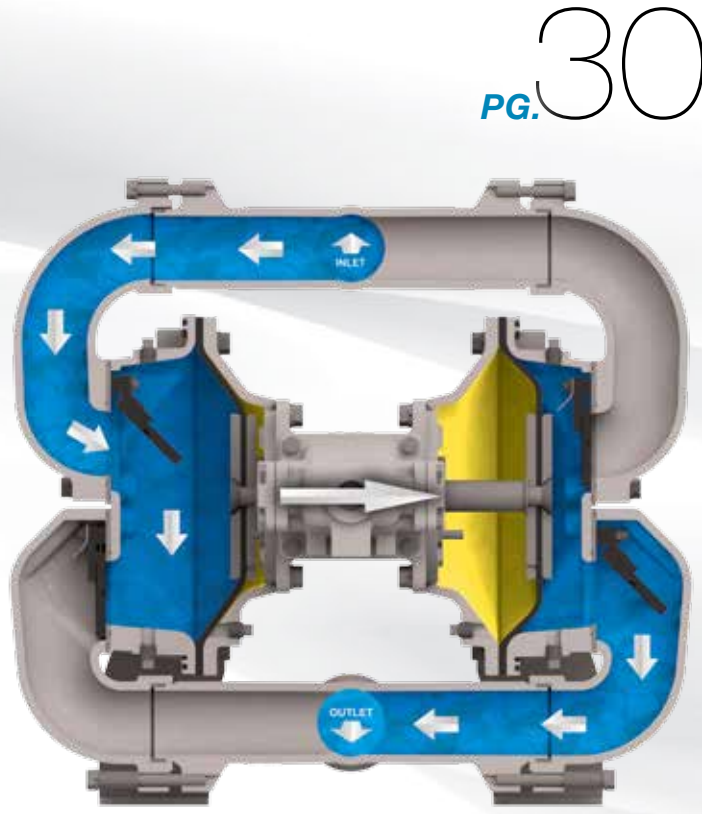
- Solids Range +.13" (3mm) to .71" (18mm)
- Dry Primes Up to 20' of Water



CONTAINMENT DUTY BALL VALVE

Unique features for this configuration include:

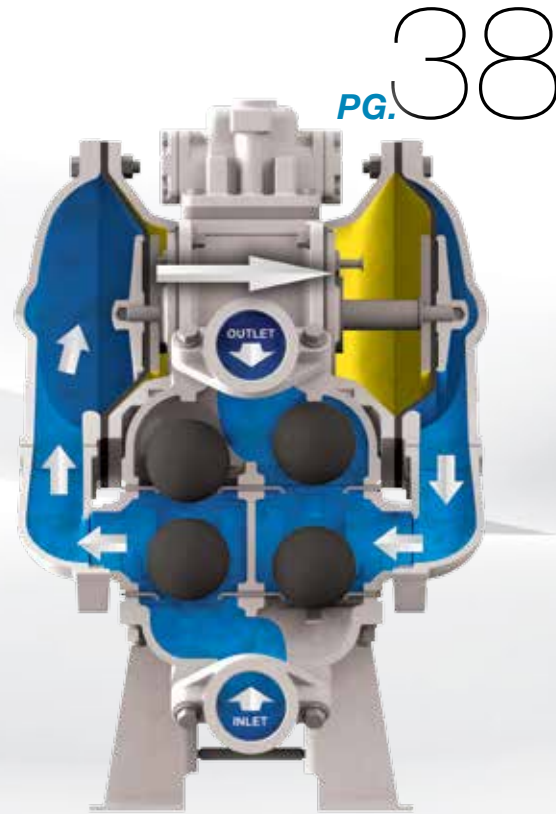
- Containment Chamber with Leak Detection
- Hydraulically Balanced / Coupled Pumping and Driver Diaphragm Assemblies
- Solids Range +.25" (6mm) to .44" (10mm)
- Dry Primes Up to 18' of Water
- Free Standing Support Base



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



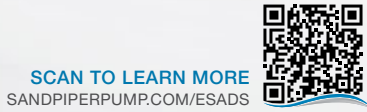
HEAVY DUTY BALL VALVE

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.













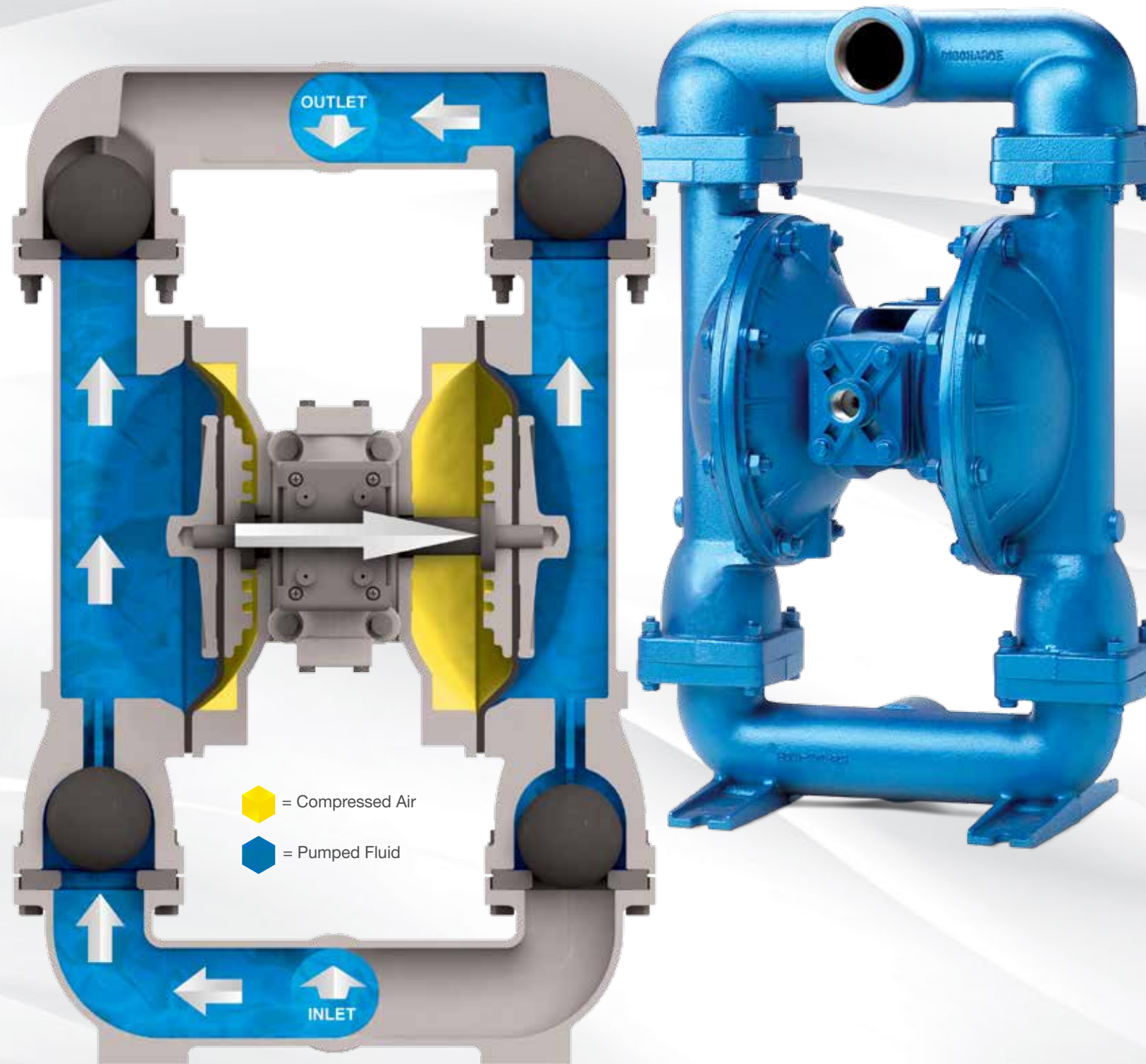
ALL SANDPIPER PUMPS come with a guaranteed diaphragm connecting rod.

STANDARD DUTY BALL VALVE PUMPS

SANDPIPER'S MOST POPULAR PRODUCT LINE, OFFERING A LARGE VARIETY OF PERFORMANCE AND APPLICATION CAPABILITIES

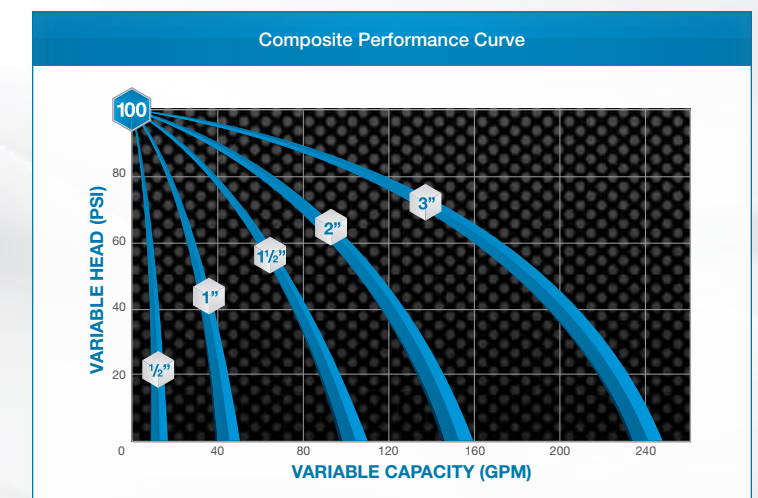
Standard Duty Metallic Pumps are ideally suited for intermittent / on-demand, portable, moderately abrasive fluids, and suspended solids. Standard duty pumps are constructed in Aluminum, Cast Iron, Stainless Steel and non-metallic materials such as PTFE, Polypropylene, and PVDF with elastomer TPE (thermal 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**
  



CHARACTERISTICS		Metallic	Non-Metallic	
Fluid Characteristics	Water	+	+	
	Suspended Solids	+	✓	
	Non-Suspended Solids	!	X	
	Line Size Solids	X	X	
	Sludge / Slurry	✓	!	
	High Viscosity (Flowable Fluids)	✓	✓	
	Erosion / Abrasive Fluids	High	✓	!
		Moderate	✓	!
		Low	+	✓
	Corrosion	✓	+	
Installation	Permanent	✓	✓	
	Portable	+	+	
	Containment / Prevention	!	!	
	Flooded Suction	✓	✓	
	Suction Lift	✓	✓	
	Submerged	✓	!	
Duty	Intermittent / On-Demand	+	+	
	Continuous	✓	✓	

+ = Best Type ✓ = Suitable ! = Limitations X = Not Recommended



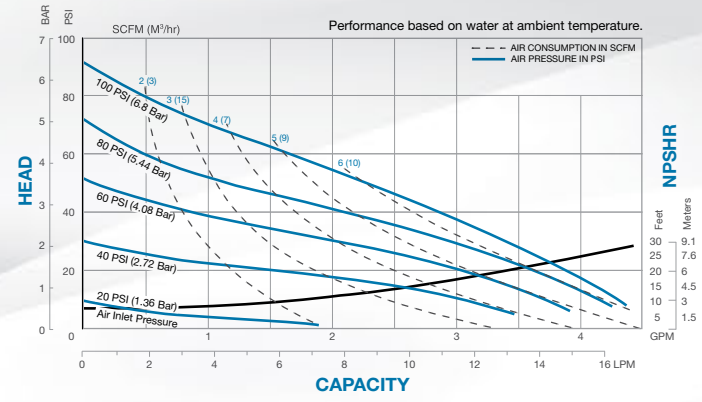
STANDARD DUTY BALL VALVE PUMPS

PERFORMANCE & SPECIFICATIONS



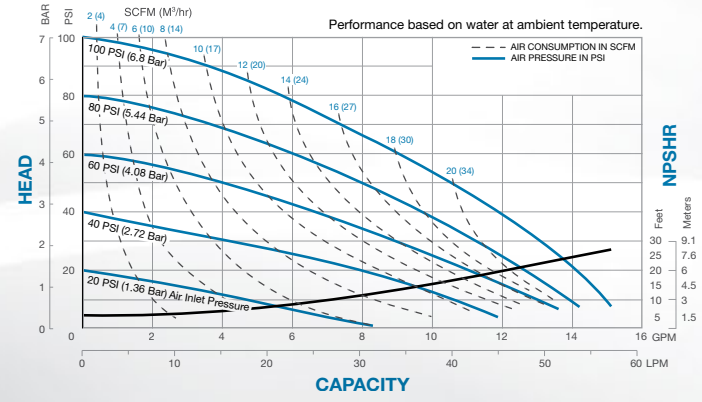
1/4" 6mm **E02 / X02 Metallic Performance**

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



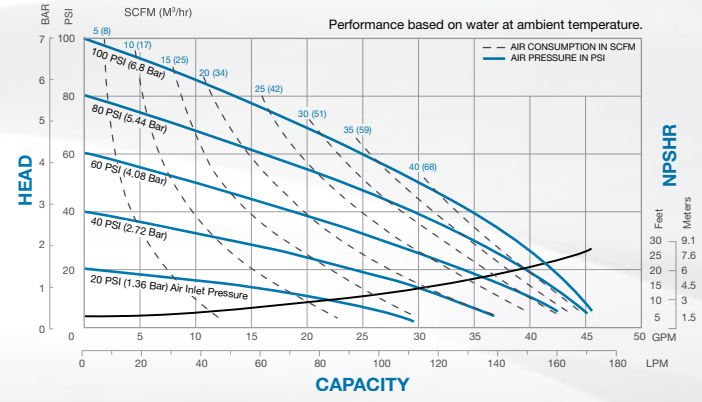
1/2" 12mm **S05 Metallic Performance**

MAX FLOW • 15 GPM (57 LPM) **PORTING** • NPT / BSP • ANSI Flange **AIR END** • Aluminum **WET END** • Aluminum • Stainless Steel



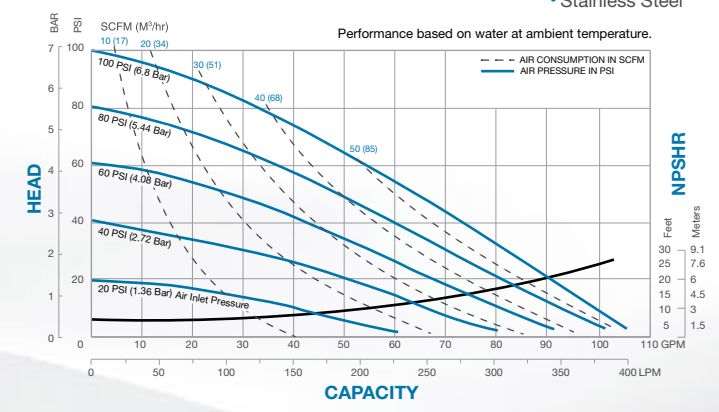
1" 25mm **S1F Metallic Performance**

MAX FLOW • 45 GPM (170 LPM) **PORTING** • NPT / BSP • ANSI Flange **AIR END** • Aluminum **WET END** • Cast Iron • Aluminum • Stainless Steel



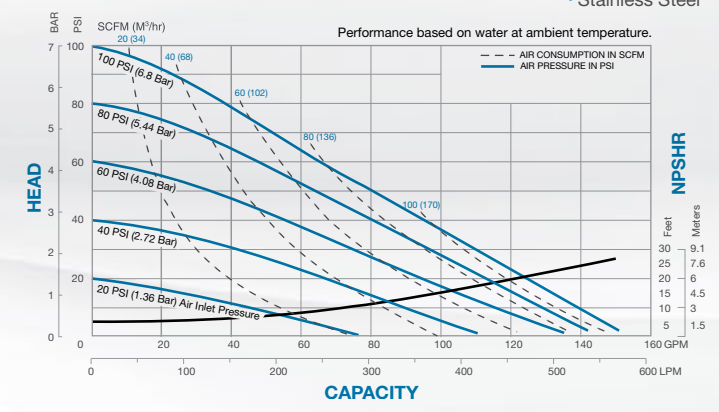
1 1/2" 38mm **S15 Metallic Performance**

MAX FLOW • 106 GPM (401 LPM) **PORTING** • NPT / BSP • ANSI Flange **AIR END** • Aluminum **WET END** • Cast Iron • Aluminum • Stainless Steel



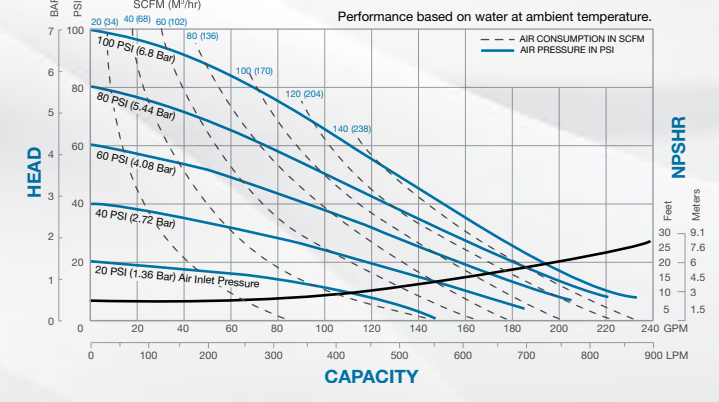
2" 50mm **S20 Metallic Performance**

MAX FLOW • 150 GPM (567 LPM) **PORTING** • NPT / BSP • ANSI / DIN Flange **AIR END** • Aluminum **WET END** • Cast Iron • Aluminum • Stainless Steel



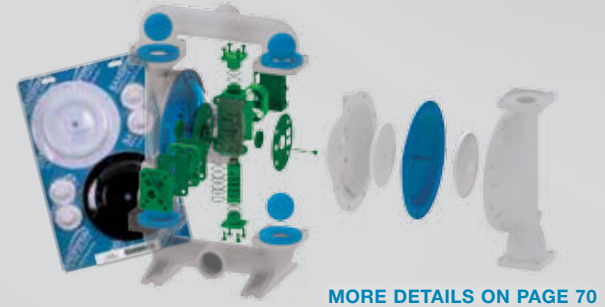
3" 75mm **S30 Metallic Performance**

MAX FLOW • 235 GPM (889 LPM) **PORTING** • NPT / BSP • ANSI / DIN Flange **AIR END** • Aluminum **WET END** • Cast Iron • Aluminum • Stainless Steel



Genuine Parts Service Kits

- Everything in One Place.
- Reduce Frequency of Repairs.
- Increase Uptime.
- Save Time and Money.



MORE DETAILS ON PAGE 70

STANDARD DUTY BALL VALVE PUMPS

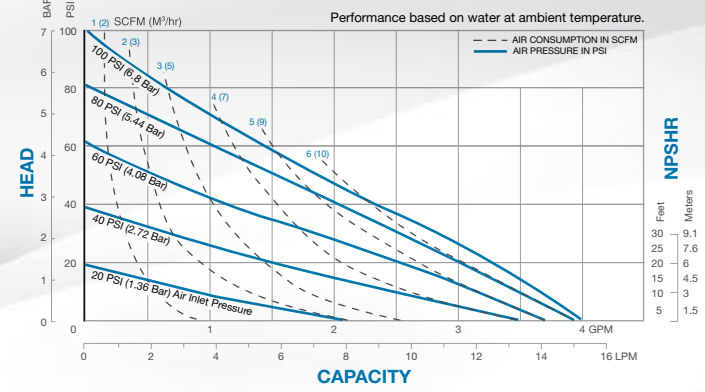
PERFORMANCE & SPECIFICATIONS



1/4" 6mm PB 1/4 Non-Metallic Performance



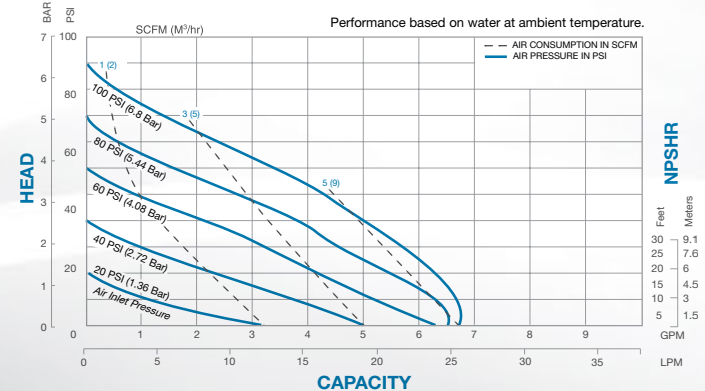
- MAX FLOW** • 4 GPM (15 LPM)
PORTING • NPT
AIR END • Polypropylene
 • Conductive Acetal
WET END • Polypropylene
 • PVDF
 • Conductive Acetal



3/8" 9mm WR10 Non-Metallic Performance



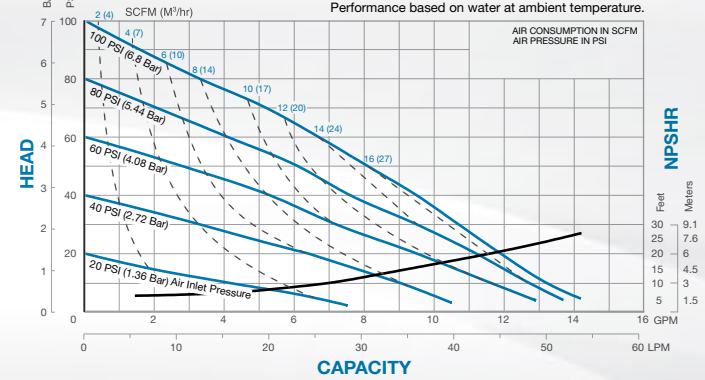
- MAX FLOW** • 6.8 GPM (26 LPM)
PORTING • NPT / BSP
AIR END • PTFE
WET END • PTFE
 • PVDF



1/2" 12mm S05 Non-Metallic Performance



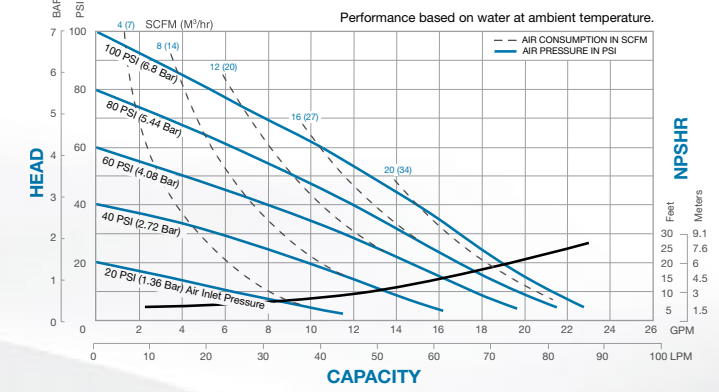
- MAX FLOW** • 14 GPM (52 LPM)
PORTING • NPT / BSP
AIR END • Polypropylene
 • Conductive Polypropylene
WET END • Polypropylene / Conductive Polypropylene
 • Nylon
 • PVDF / Conductive PVDF
 • Conductive Acetal



3/4" 19mm S07 Non-Metallic Performance



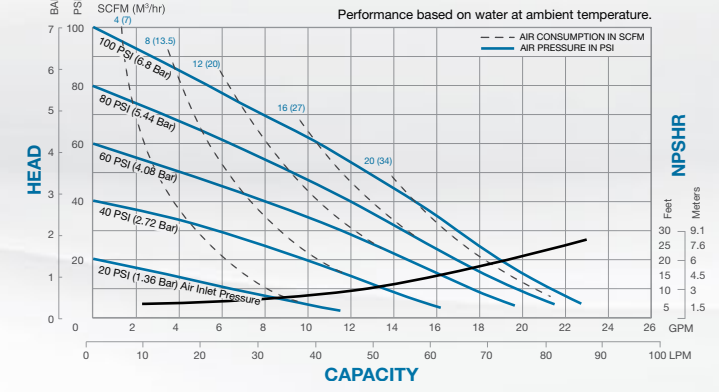
- MAX FLOW** • 23 GPM (87 LPM)
PORTING • NPT / BSP
AIR END • Polypropylene
WET END • Polypropylene
 • Nylon
 • PVDF



1" 25mm S10 Non-Metallic Performance



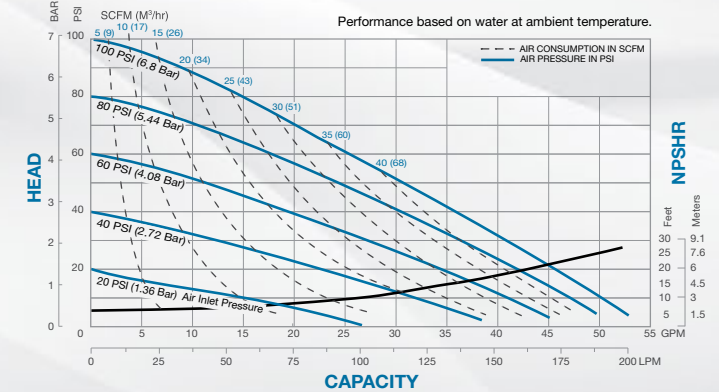
- MAX FLOW** • 23 GPM (87 LPM)
PORTING • ANSI Flange
AIR END • Polypropylene
WET END • Polypropylene
 • Nylon
 • PVDF



1" 25mm S1F Non-Metallic Performance



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



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.

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In-line ported options also available on S05 and S1F

STANDARD DUTY BALL VALVE PUMPS

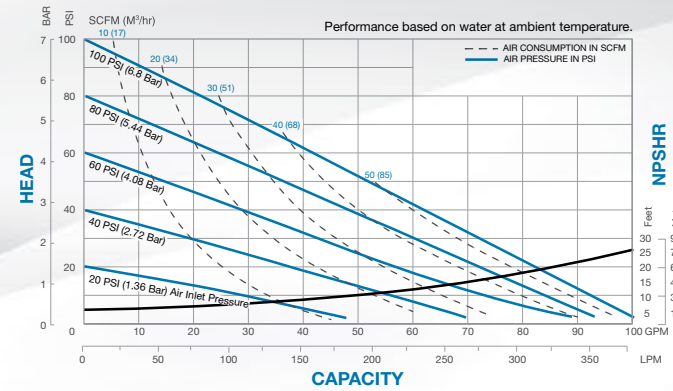
PERFORMANCE & SPECIFICATIONS



1 1/2"
38mm

S15 Non-Metallic Performance

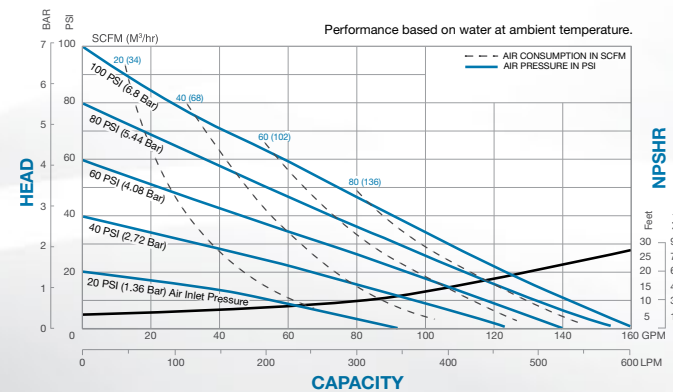
- MAX FLOW** • 100 GPM (378 LPM)
- PORTING** • ANSI Flange • DIN Flange
- AIR END** • Polypropylene • Conductive Polypropylene
- WET END** • Polypropylene • PVDF • Conductive Polypropylene



2"
50mm

S20 Non-Metallic Performance

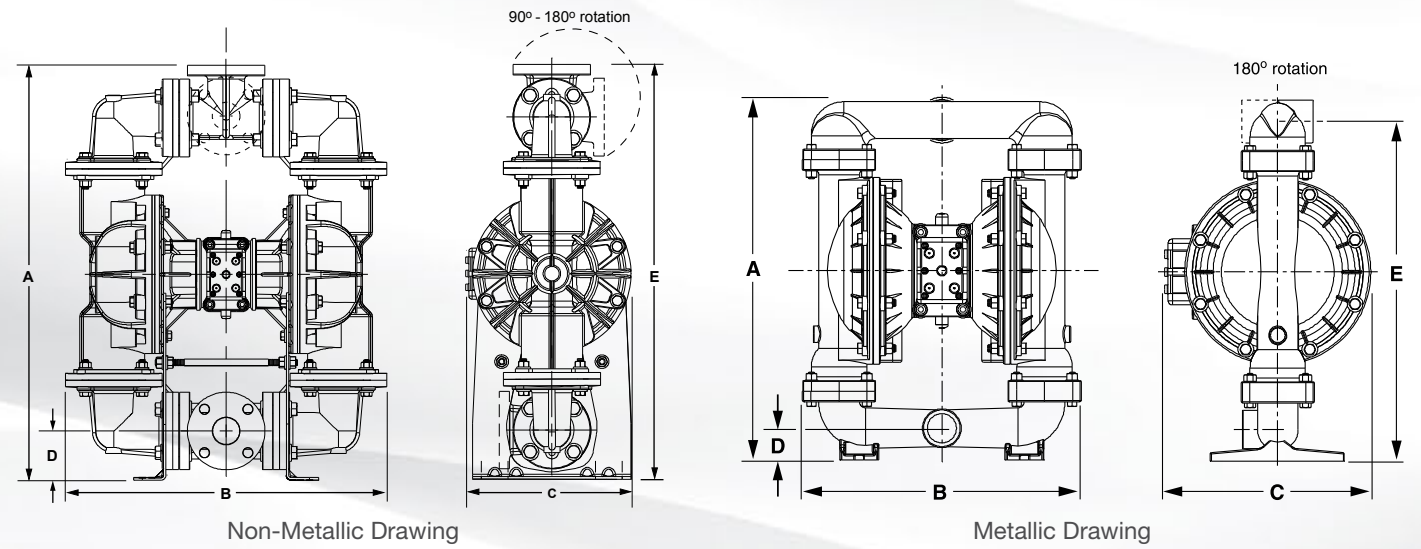
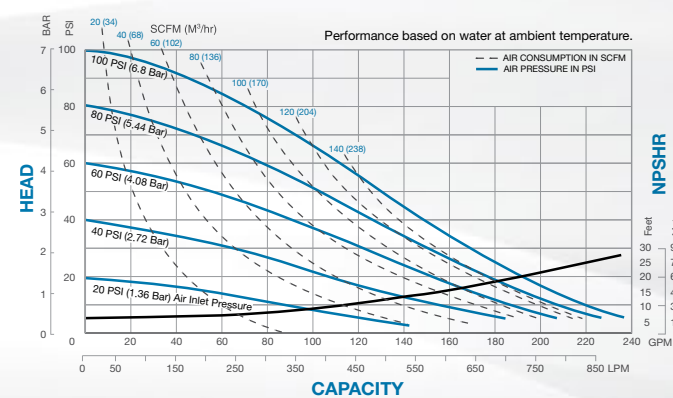
- MAX FLOW** • 160 GPM (605 LPM)
- PORTING** • Universal Flange
- AIR END** • Polypropylene • Conductive Polypropylene
- WET END** • Polypropylene • PVDF • Conductive Polypropylene



3"
75mm

S30 Non-Metallic Performance

- MAX FLOW** • 238 GPM (901 LPM)
- PORTING** • ANSI Flange • DIN Flange
- AIR END** • Epoxy Coated Aluminum
- WET END** • Polypropylene • PVDF



PUMP MODELS	METALLIC SPECIFICATIONS					Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	A	B	C	D	E						
	Height	Width	Depth	Bottom of Base to Suction	Center Line of Discharge						
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)	1/2" 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)	1/2" 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)	1 1/2" 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)	1 1/2" NPT/BSP	1.5 (38)	.41 (1.55)	106 (401)	.25 (6)	125 (8.6)
S20 AL / CI	26.31 (669)	16.88 (428)	12.59 (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 AL/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.

PUMP MODELS	NON-METALLIC SPECIFICATIONS					Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	A	B	C	D	E						
	Height	Width	Depth	Bottom of Base to Suction	Center Line of Discharge						
PB1/4	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)	3/4" 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)	1 1/2" 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.

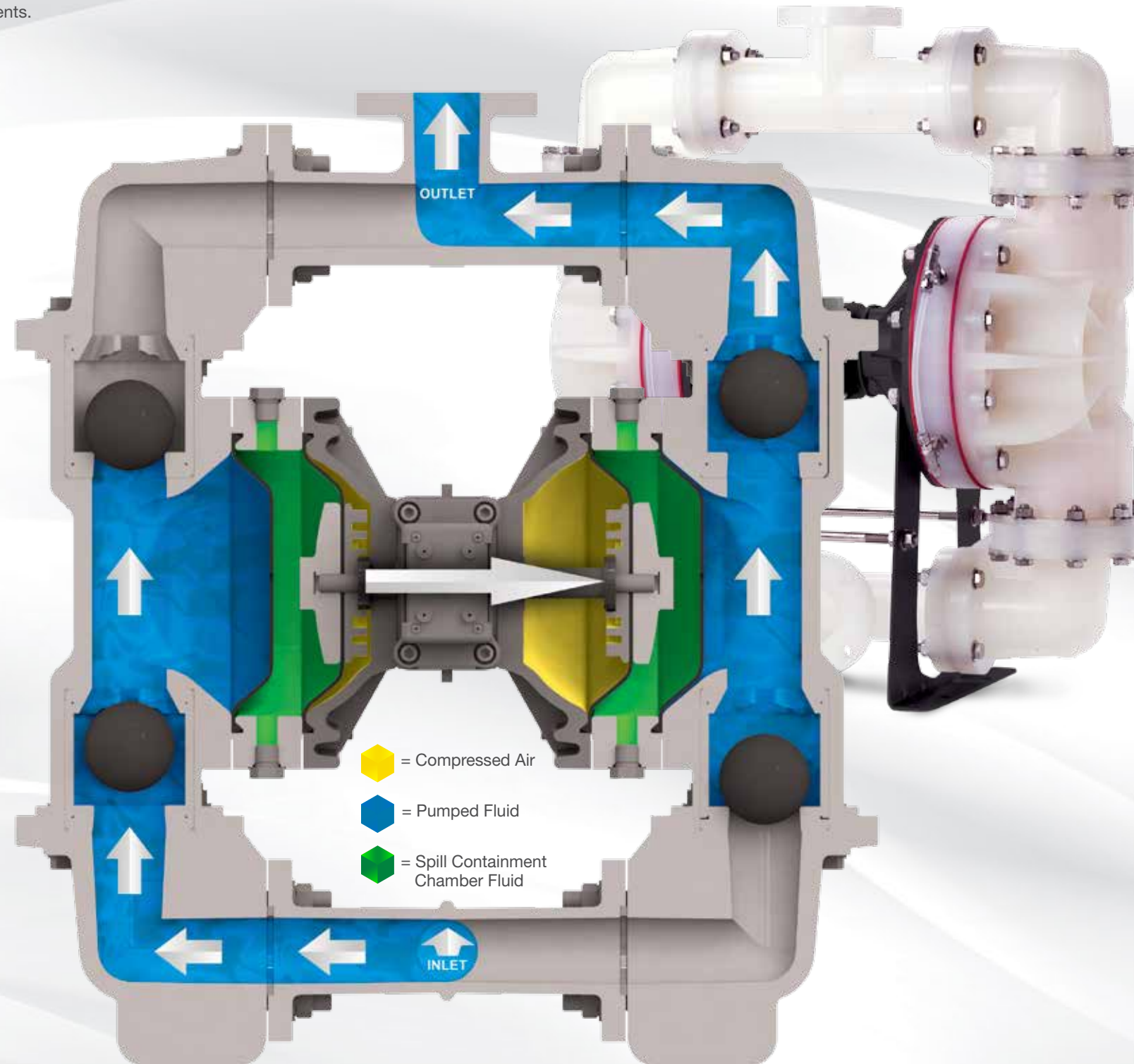
U = Universal: Fits both ANSI or DIN.
*T = Trihedral.

CONTAINMENT DUTY PUMPS

DEPEND ON THE PROVEN LEAK PROOF DESIGN

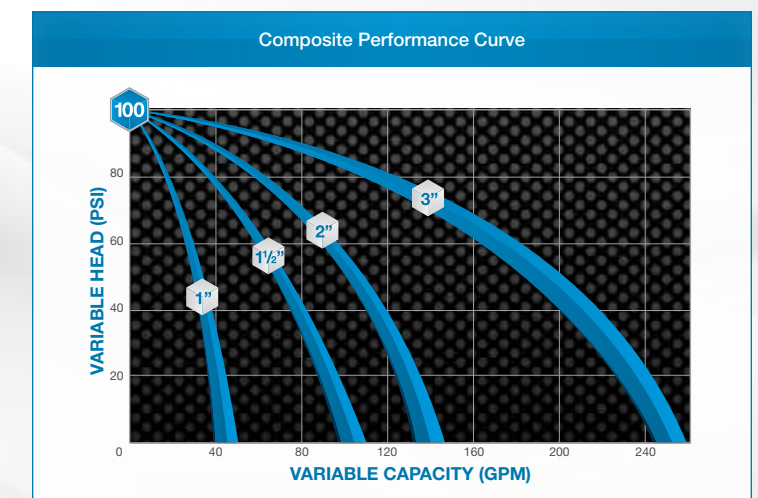
Containment Duty Metallic and Non-Metallic Pumps are ideal for highly corrosive and hazardous chemical fluid requirements. All containment duty pumps are exclusively designed with containment chambers, hydraulically balanced/coupled pumping diaphragm and driver diaphragm assemblies. All containment chambers 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**
90° - 180° rotation options
-  **Certifications Available**
 



PUMP CHARACTERISTICS		Non-Metallic	
Fluid Characteristics	Water	+	
	Suspended Solids	✓	
	Non-Suspended Solids	X	
	Line Size Solids	X	
	Sludge / Slurry	!	
	High Viscosity (Flowable Fluids)	✓	
	Erosion / Abrasive Fluids	High	!
		Moderate	!
		Low	✓
	Corrosion	+	
Installation	Permanent	✓	
	Portable	+	
	Containment / Prevention	+	
	Flooded Suction	✓	
	Suction Lift	✓	
	Submerged	!	
Duty	Intermittent / On-Demand	+	
	Continuous	✓	

+ = Best Type ✓ = Suitable ! = Limitations X = Not Recommended



CONTAINMENT DUTY PUMPS

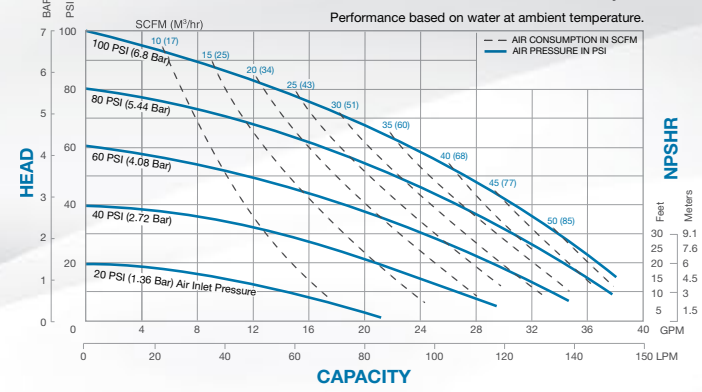
PERFORMANCE & SPECIFICATIONS

SCAN TO LEARN MORE
SANDPIPERPUMP.COM/CONTAINMENTPUMPS



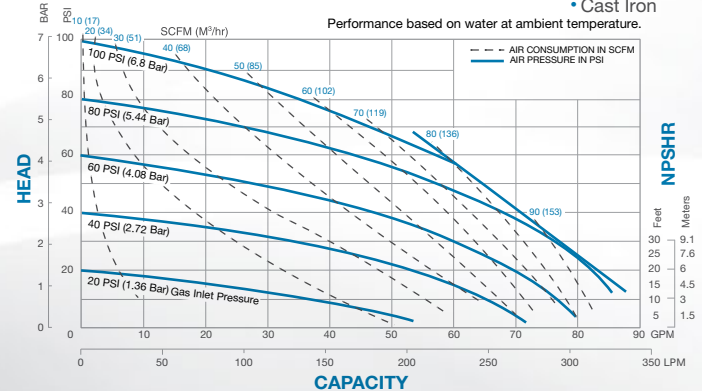
1" 25mm ST1 / ST25 Metallic Performance

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



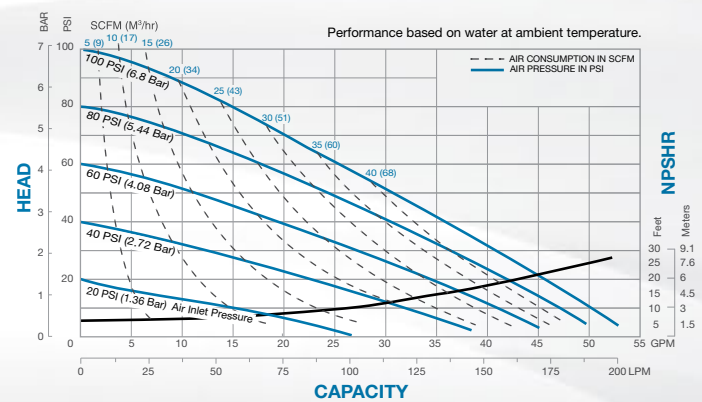
1 1/2" 38mm ST1 1/2 / ST40 Metallic Performance

- MAX FLOW** • 90 GPM (340 LPM)
PORTING • NPT / BSP
AIR END • Cast Iron
 • Aluminum
- WET END** • Aluminum
 • Stainless Steel
 • Alloy C
 • Cast Iron



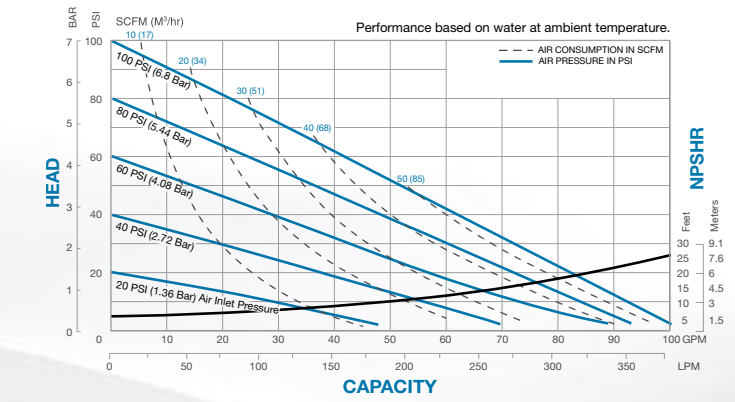
1" 25mm S1F Non-Metallic Performance

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



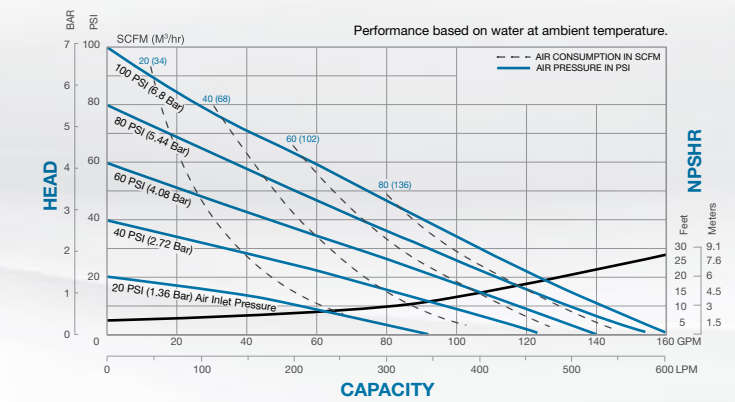
1 1/2" 38mm S15 Non-Metallic Performance

- MAX FLOW** • 100 GPM (378 LPM)
PORTING • ANSI Flange
 • DIN Flange
- AIR END** • Polypropylene
- WET END** • PVDF
 • Polypropylene



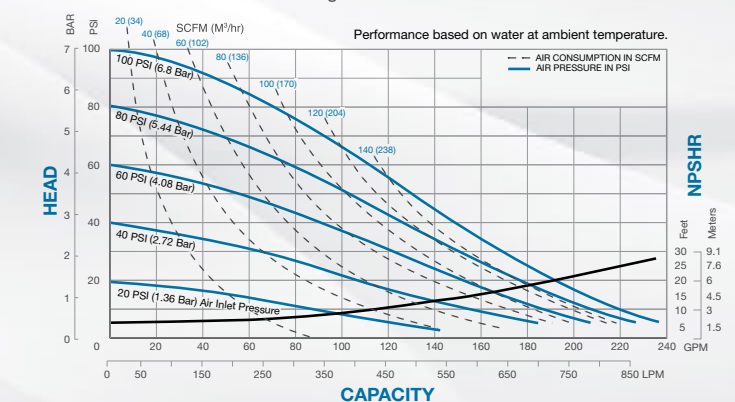
2" 50mm S20 Non-Metallic Performance

- MAX FLOW** • 160 GPM (605 LPM)
PORTING • Universal Flange
- AIR END** • Polypropylene
- WET END** • Polypropylene
 • PVDF



3" 75mm S30 Non-Metallic Performance

- MAX FLOW** • 238 GPM (901 LPM)
PORTING • ANSI Flange
 • DIN Flange
- AIR END** • Epoxy Coated
 Aluminum
- WET END** • Polypropylene
 • 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.

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*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

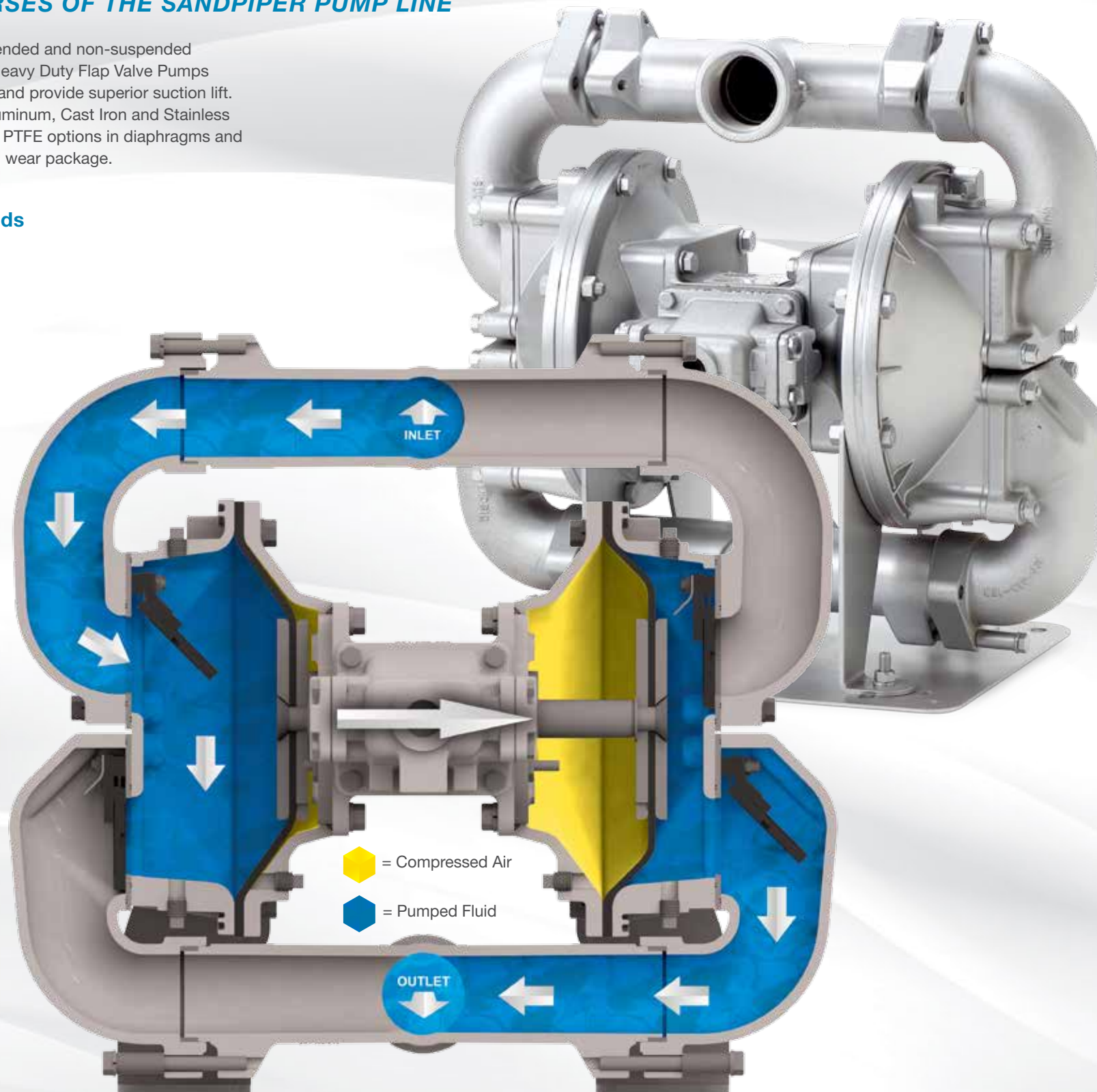
All Bolted Construction
Durable and high pressure capable

Dynamic Manifold Connections
90° - 180° rotation options

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

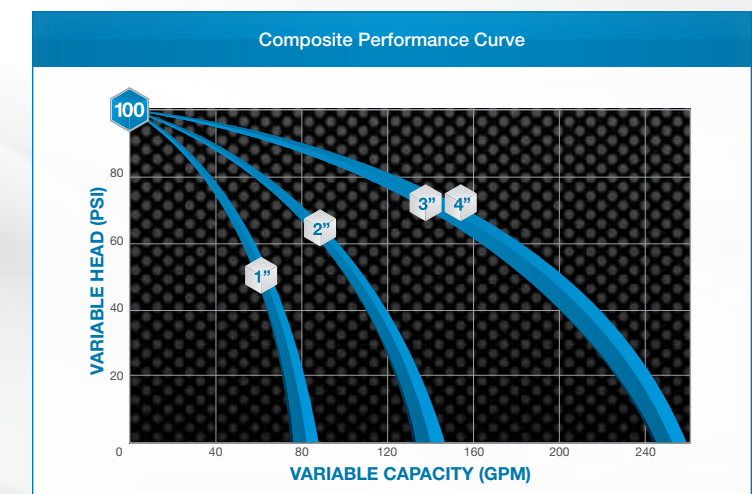
Superior Dry Prime
Up to 24' (7m) of water

Certifications Available
CE Ex



PUMP CHARACTERISTICS		Metallic	
Fluid Characteristics	Water	+	
	Suspended Solids	✓	
	Non-Suspended Solids	+	
	Line Size Solids	+	
	Sludge / Slurry	+	
	High Viscosity (Flowable Fluids)	✓	
	Erosion / Abrasive Fluids	High	+
		Moderate	+
		Low	+
	Corrosion	✓	
Installation	Permanent	+	
	Portable	+	
	Containment / Prevention	!	
	Flooded Suction	✓	
	Suction Lift	+	
	Submerged	✓	
Duty	Intermittent / On-Demand	+	
	Continuous	✓	

+ = Best Type ✓ = Suitable ! = Limitations X = Not Recommended



HEAVY DUTY FLAP VALVE PUMPS

PERFORMANCE & SPECIFICATIONS

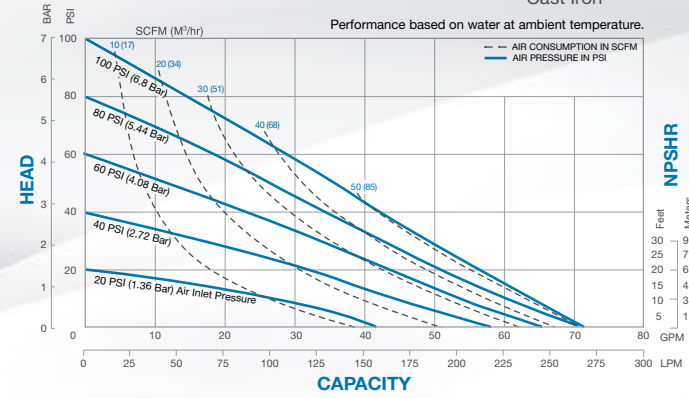


1"
25mm

HDF1 Metallic Performance



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

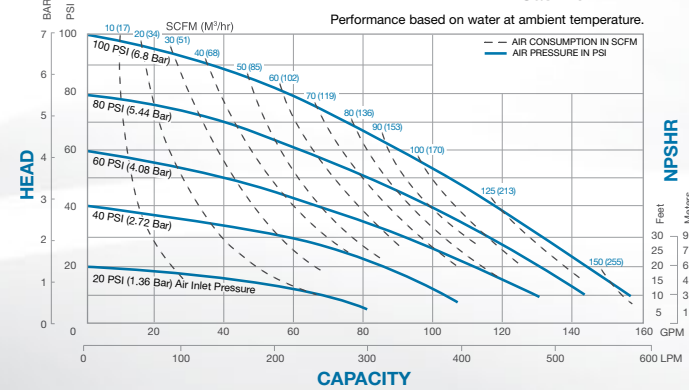


2"
50mm

HDF2 Metallic Performance



- MAX FLOW**
• 140 GPM (530 LPM)
- PORTING**
• NPT / BSP
- AIR END**
• Aluminum
• Cast Iron
- WET END**
• Aluminum
• Stainless Steel
• Cast Iron

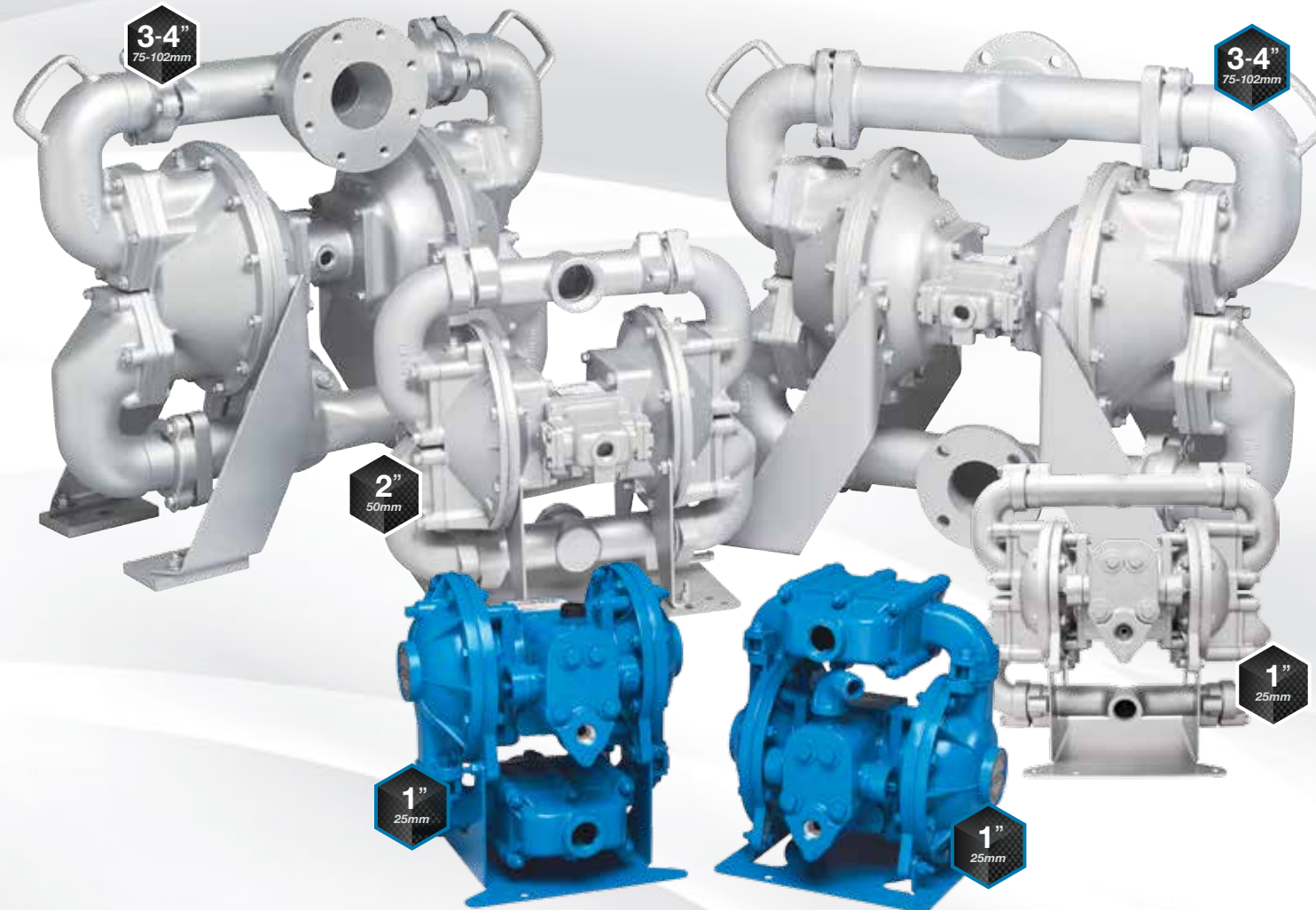
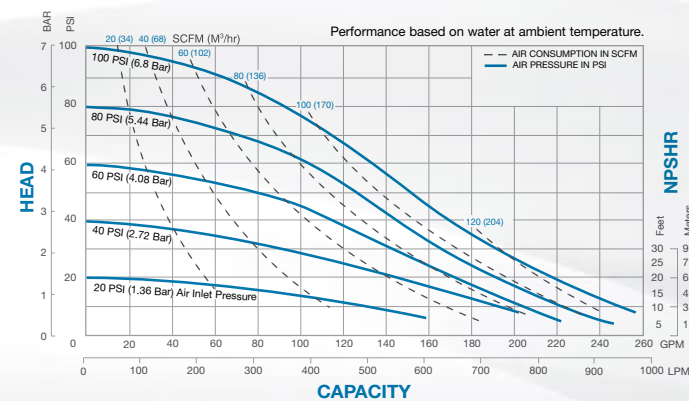


3-4"
75-102mm

HDF3-A / 4-A Metallic Performance



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



Bottom Discharge

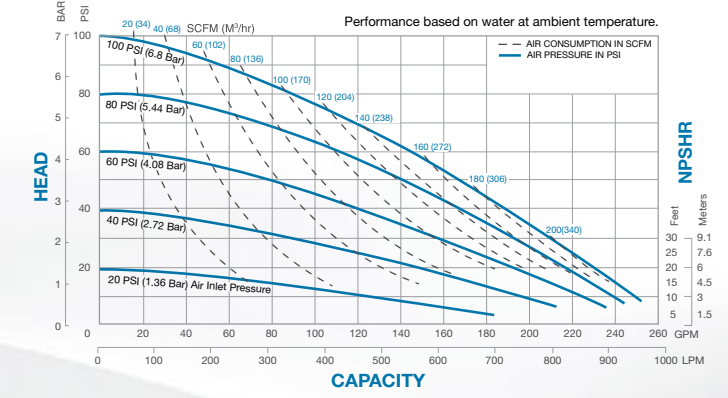
Top Discharge

3-4"
75-102mm

HDF3-M / 4-M Metallic Performance



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

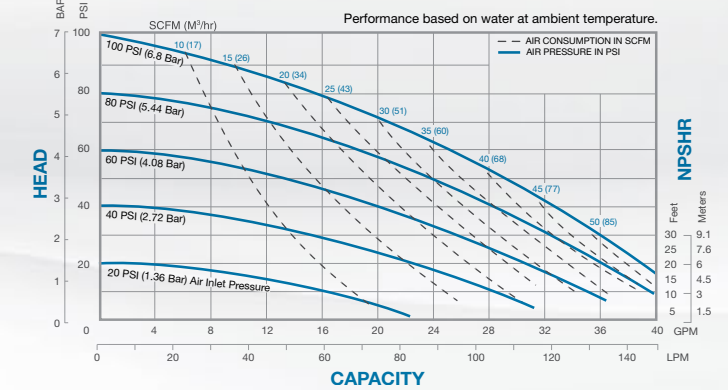


1"
25mm

SA1 Metallic Performance



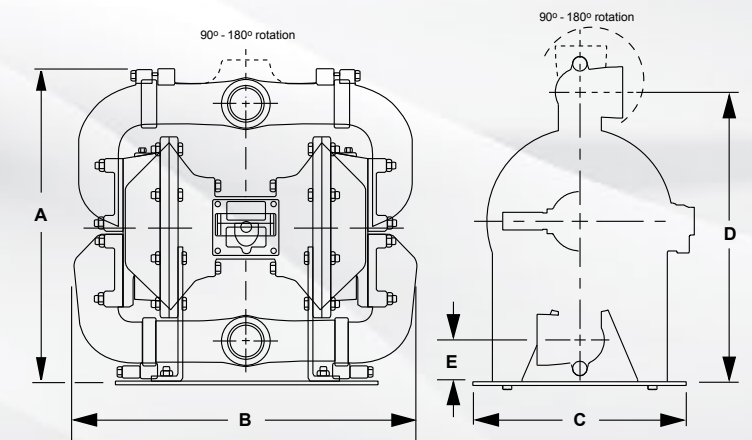
- MAX FLOW**
• 42 GPM (159 LPM)
- PORTING**
• NPT / BSP
- AIR END**
• Aluminum
• Cast Iron
- WET END**
• Aluminum
• Stainless Steel



SPECIFICATIONS

PUMP MODELS	A	B	C	D	E	Connection Style	Pipe Size inch (mm)	Displacement Per Stroke gal (liter)	Max Flow Per Minute gal (liter)	Max Solids Handling inch (mm)	Max Discharge Pressure psi (bar)
	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Bottom of Base to Center Line of Suction inches (mm)	Bottom of Base to Center Line of Discharge inches (mm)						
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)
SA1	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.

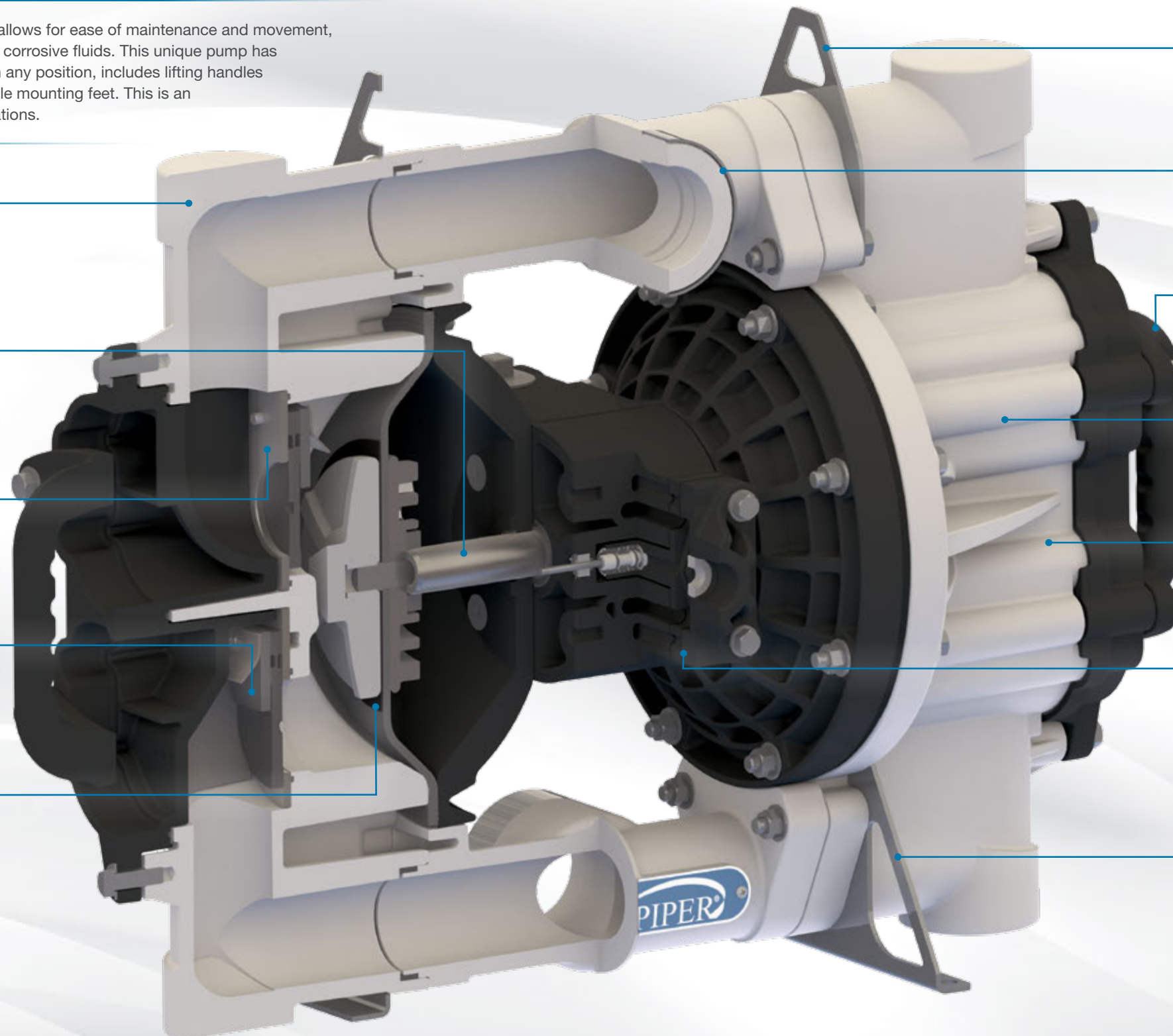




2" NON-METALLIC FLAP VALVE PUMP

YOUR MINING, GENERAL INDUSTRIAL AND CHEMICAL SOLUTION

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



Lightweight & Durable

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



Reliability Guarantee

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



Rugged Design

Stainless steel seats prevent abrasion when pumping solids laden fluids



Optimum Solids Handling

Hinge pads exert positive pressure on the flaps, allowing the pump to operate in virtually any position, 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



Industrial Mounting Capabilities

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



Strong Manifold Connections

Stainless steel reinforcing rings help protect the threaded manifold connections from being damaged from overtightening and excessive piping or hose stress



Ergonomic Handle

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



Unsurpassed Performance

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



Versatile Design

This pump will function in any position, including uneven surfaces



Simple Maintenance

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



Purpose Built Base

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



HEAVY DUTY NON-METALLIC FLAP VALVE PUMP

PERFORMANCE & SPECIFICATIONS

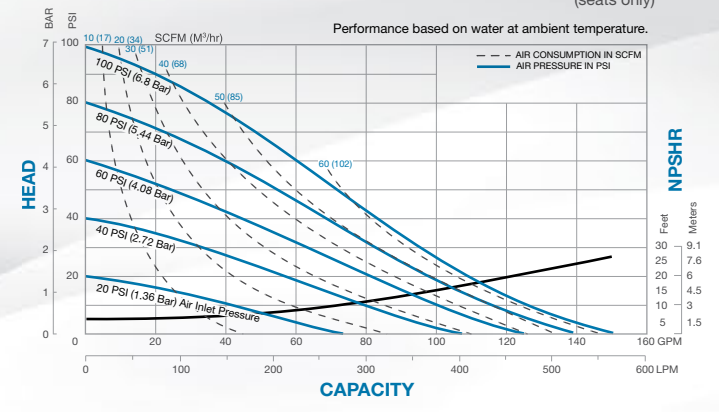


2"
50mm

HD20F Non-Metallic Performance



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

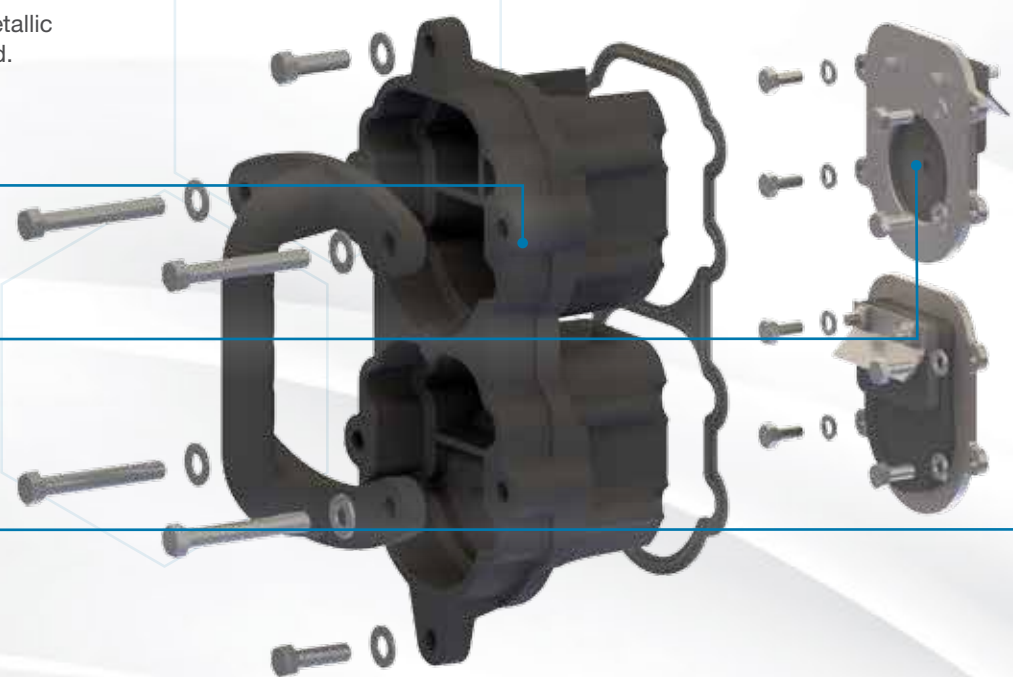


Ease of Valve Maintenance

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

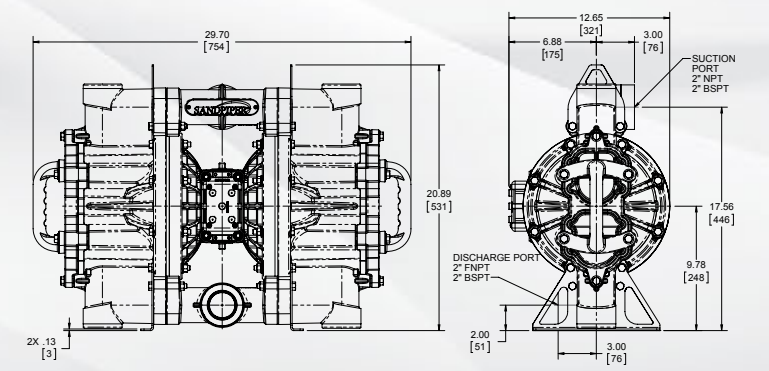
- 1. Remove Clean-Out Cap**
By simply removing six bolts securing the clean-out cap in place, it allows access to clear simple clogs without disassembling the entire pump.
- 2. Modular Check Valve Access**
With the clean-out cap removed, the flap valves can be inspected and / or replaced as needed. Four 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.

SPECIFICATIONS											
PUMP MODEL	A	B	C	D	E	Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Bottom of Base to Center Line of Discharge		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
HD20F	20.89 (531)	29.7 (754)	12.65 (321)	17.56 (446)	2 (50)	2" NPT / BSPT	2 (50)	.50 (1.9)	150 (567)	1.8 (46)	100 (7)












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

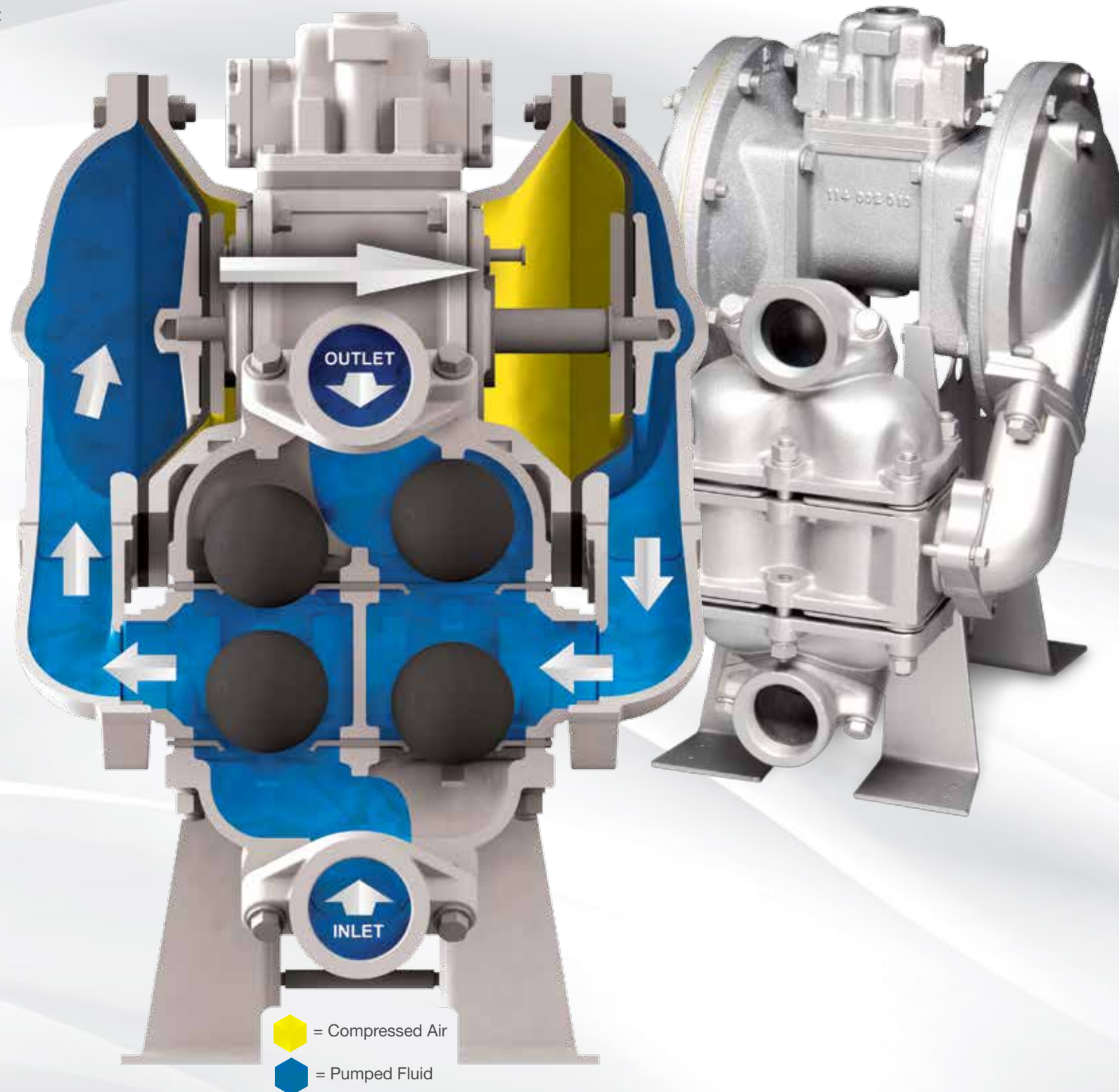


HEAVY DUTY BALL VALVE PUMPS

THE ULTIMATE IN POWERFUL AND DURABLE PERFORMANCE

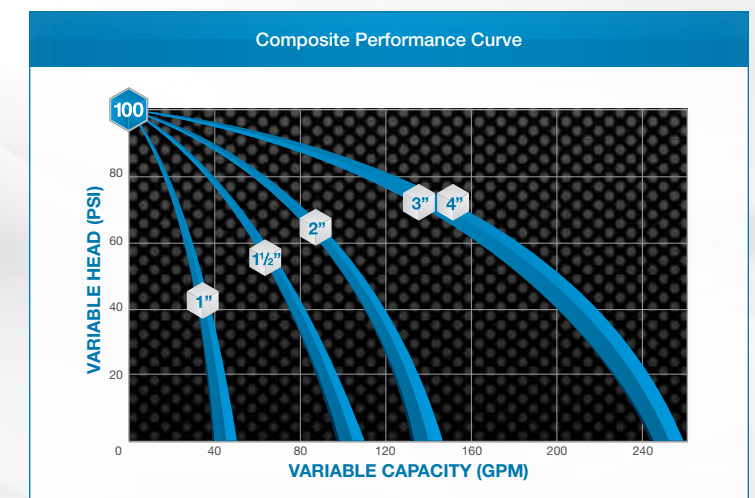
HDB Metallic Pumps are ideal for thin to highly viscous and small solids-laden fluids, while providing excellent suction lift capability and exclusive variable porting options (side, top, bottom and dual). HDB pumps are thick wall constructed of Sand Casted Aluminum, Cast Iron, Stainless Steel or Alloy 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 CHARACTERISTICS		Metallic	
Fluid Characteristics	Water	+	
	Suspended Solids	+	
	Non-Suspended Solids	+	
	Line Size Solids	X	
	Sludge / Slurry	+	
	High Viscosity (Flowable Fluids)	+	
	Erosion / Abrasive Fluids	High	+
		Moderate	+
		Low	+
	Corrosion	✓	
Installation	Permanent	+	
	Portable	✓	
	Containment / Prevention	!	
	Flooded Suction	+	
	Suction Lift	✓	
	Submerged	✓	
Duty	Intermittent / On-Demand	+	
	Continuous	+	

+ = Best Type ✓ = Suitable ! = Limitations X = Not Recommended



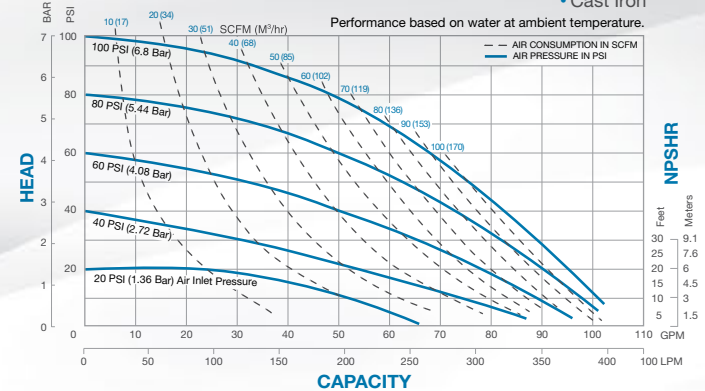
HEAVY DUTY BALL VALVE PUMPS

PERFORMANCE & SPECIFICATIONS



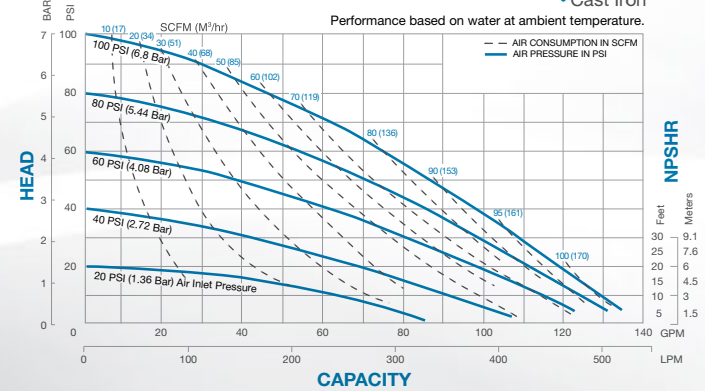
1 1/2" 38mm HDB1 1/2 Metallic Performance

- MAX FLOW**
• 105 GPM (397 LPM)
- PORTING**
• NPT / BSP
- AIR END**
• Aluminum
• Cast Iron
- WET END**
• Aluminum
• Stainless Steel
• Alloy C
• Cast Iron



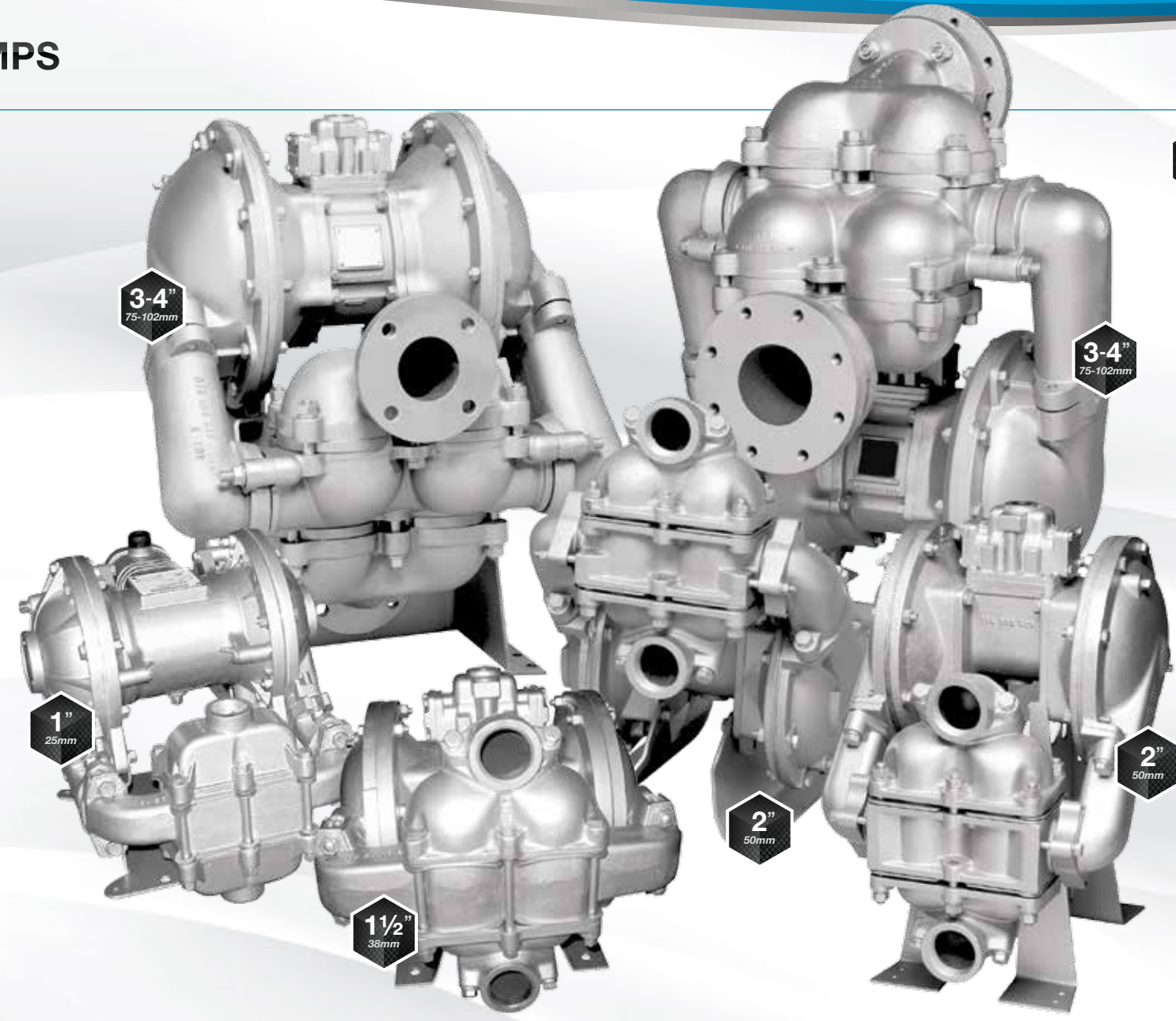
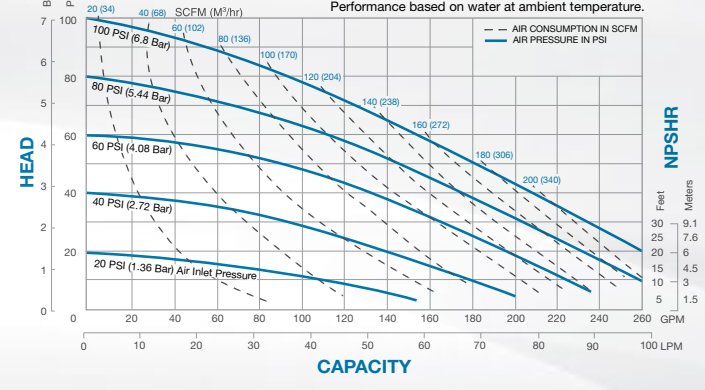
2" 50mm HDB2 Metallic Performance

- MAX FLOW**
• 135 GPM (511 LPM)
- PORTING**
• NPT
- AIR END**
• Aluminum
• Cast Iron
- WET END**
• Aluminum
• Stainless Steel
• Alloy C
• Cast Iron



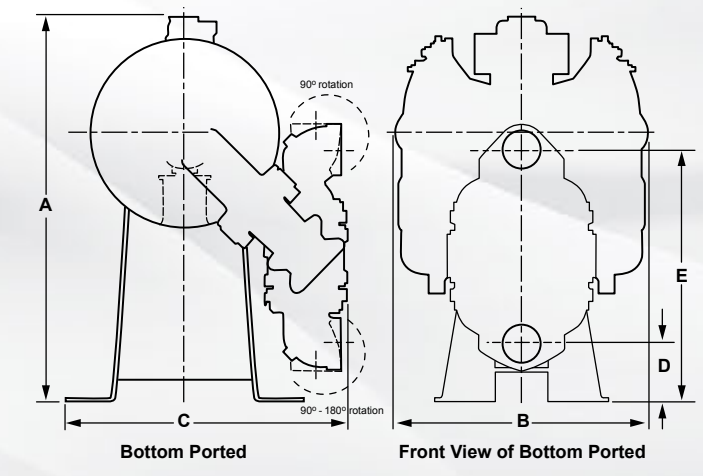
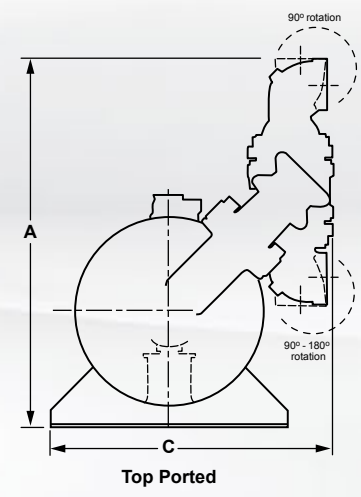
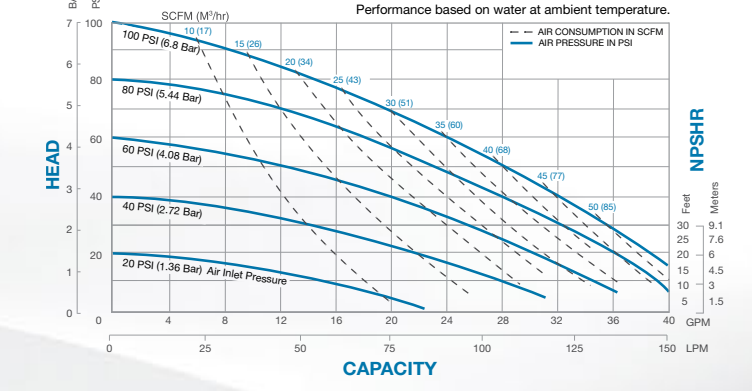
3-4" 75-102mm HDB3 / HDB4 Metallic Performance

- MAX FLOW**
• 260 GPM (988 LPM)
- PORTING**
• ANSI Flange
- AIR END**
• Cast Iron
- WET END**
• Stainless Steel
• Cast Iron



1" 25mm SB1 / SB25 Metallic Performance

- MAX FLOW**
• 42 GPM (159 LPM)
- PORTING**
• NPT / BSP
- AIR END**
• Aluminum
• Cast Iron
- WET END**
• Aluminum
• Stainless Steel
• Alloy C



PUMP MODELS	SPECIFICATIONS					Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	A	B	C	D	E						
	Height	Width	Depth	Bottom of Base to Center Line of: Suction	Discharge						
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
SB1 / SB25	14.44 (367)	11.75 (298)	13.28 (337)	5.25 (133)	13 (330)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
SB1 TOP	13.5 (342)	11.75 (298)	14.88 (378)	5.62 (142)	13.5 (342)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
SB1 BOTTOM	13.69 (347)	11.75 (298)	14.88 (378)	2.22 (21)	8.44 (214)	1" NPT/BSP	1 (25)	.09 (.34)	42 (159)	.25 (6)	125 (8.6)
HDB1 1/2 TOP	19.22 (488)	15.5 (419)	17 (432)	8.14 (207)	18.08 (459)	1 1/2" NPT/BSP	1.5 (38)	.34 (1.29)	105 (397)	.25 (6)	125 (8.6)
HDB1 1/2 BOTTOM	18.56 (471)	15.5 (419)	17 (432)	6.14 (156)	16 (406)	1 1/2" 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: ±1/8" (± 3mm) • See service manual for complete specifications.

SPECIAL DUTY PUMPS

THE SAME QUALITY SANDPIPER PRODUCTS DESIGNED TO FIT SPECIFIC NEEDS

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NATURAL GAS PUMPS

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

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HIGH EFFICIENCY PUMPS

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

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UL LISTED PUMPS



Designed to meet UL79 standards for diaphragm pumps handling flammable liquids

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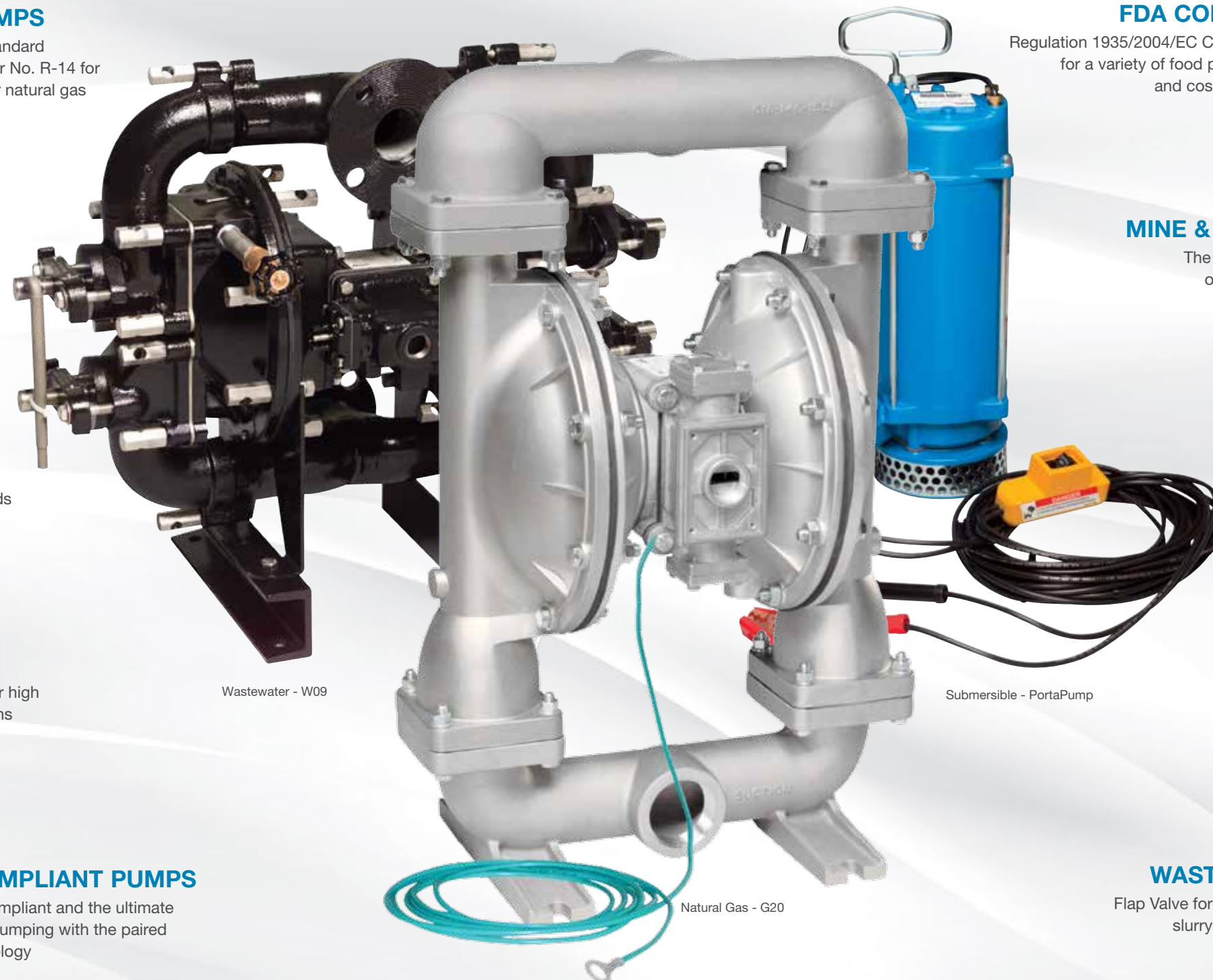
SUBMERSIBLE PUMPS

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

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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



Wastewater - W09

Submersible - PortaPump

Natural Gas - G20

FDA COMPLIANT PUMPS

Regulation 1935/2004/EC Compliant and ideally suited for a variety of food processing, pharmaceutical and cosmetic industry applications

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MINE & CONSTRUCTION PUMPS

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

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HIGH PRESSURE PUMPS

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

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FILTER PRESS SYSTEMS

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

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WASTEWATER PUMPS

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

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DUAL POWER NATURAL GAS OR AIR OPERATED PUMPS

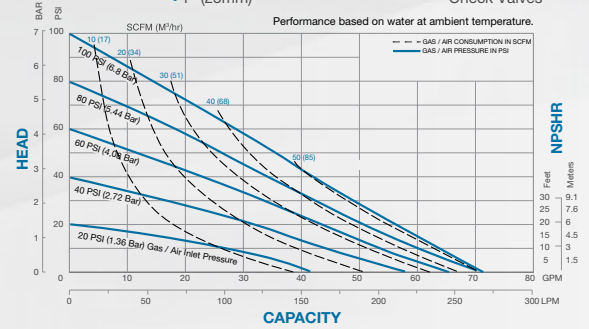
CSA CERTIFIED



FLAP VALVE PUMPS

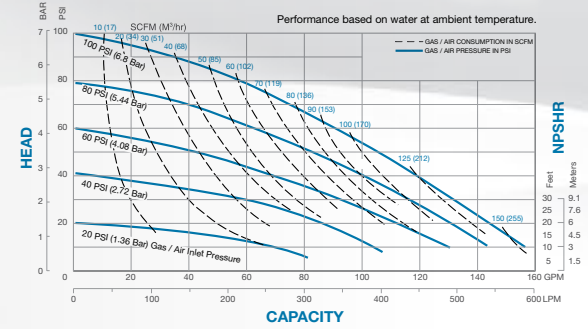
1" 25mm G10F Metallic Performance

- MAX FLOW**
• 70 GPM (265 LPM)
- PORTING**
• NPT / BSP (tapered)
- GAS / AIR END**
• Aluminum
• Nitrile or FKM Elastomers
- WET END**
• Aluminum
• Stainless Steel
• Nitrile or FKM Diaphragm / Check Valves
- MAX SOLIDS**
• 1" (25mm)



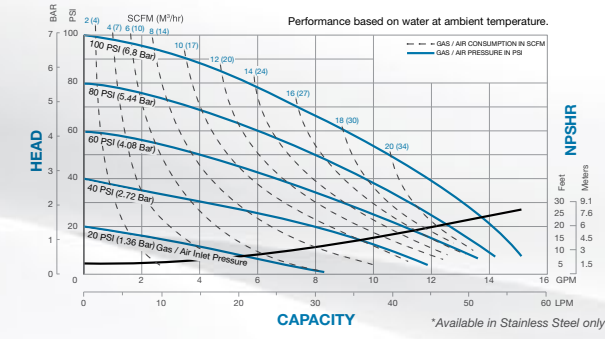
2" 50mm G20F Metallic Performance

- MAX FLOW**
• 140 GPM (530 LPM)
- PORTING**
• NPT
- GAS / AIR END**
• Aluminum
• Nitrile or FKM Elastomers
- WET END**
• Aluminum
• Stainless Steel
• Nitrile or FKM Diaphragm / Check Valves
- MAX SOLIDS**
• 2" (50mm)



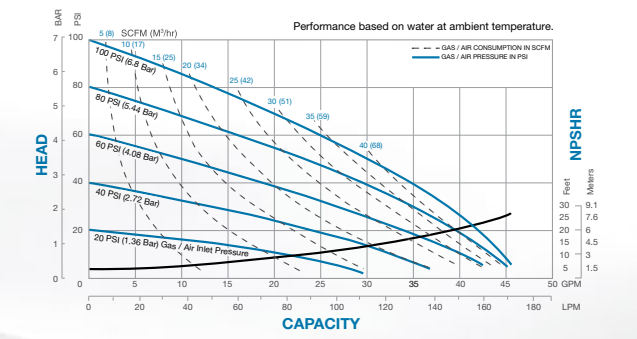
1/2" 12mm G05 Metallic Performance

- MAX FLOW**
• 15 GPM (57 LPM)
- PORTING**
• NPT / BSP (tapered)
• ANSI Flange*
- GAS / AIR END**
• Aluminum
• Nitrile or FKM Elastomers
- WET END**
• Aluminum
• Stainless Steel
• Nitrile or PTFE Diaphragm / Check Valves



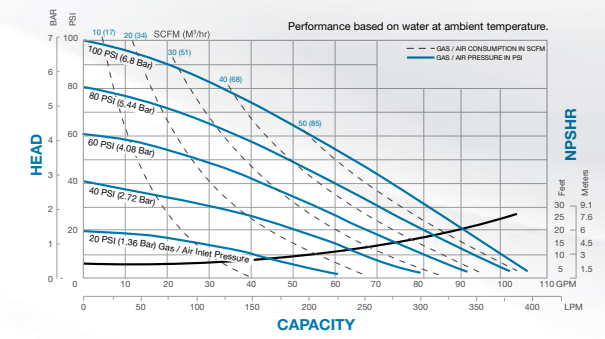
1" 25mm G1F Metallic Performance

- MAX FLOW**
• 45 GPM (170 LPM)
- PORTING**
• NPT / BSP (tapered)
• ANSI Flange
- GAS / AIR END**
• Aluminum
• Nitrile or FKM Elastomers
- WET END**
• Aluminum
• Stainless Steel
• Nitrile or PTFE Diaphragm / Check Valves



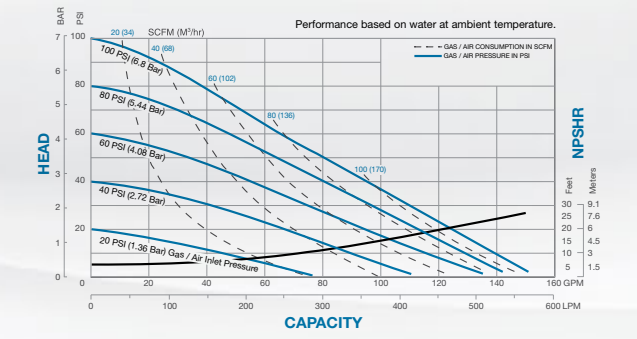
1 1/2" 38mm G15 Metallic Performance

- MAX FLOW**
• 106 GPM (401 LPM)
- PORTING**
• NPT / BSP (tapered)
• ANSI Flange
- GAS / AIR END**
• Aluminum
• Stainless Steel
• Nitrile or FKM Elastomers
- WET END**
• Aluminum
• Stainless Steel
• Nitrile or PTFE Diaphragm / Check Valves



2" 50mm G20 Metallic Performance

- MAX FLOW**
• 150 GPM (568 LPM)
- PORTING**
• NPT / BSP (tapered)
• ANSI Flange
- GAS / AIR END**
• Aluminum
• Stainless Steel
• Nitrile or FKM Elastomers
- WET END**
• Aluminum
• Stainless Steel
• Nitrile or PTFE Diaphragm / Check Valves



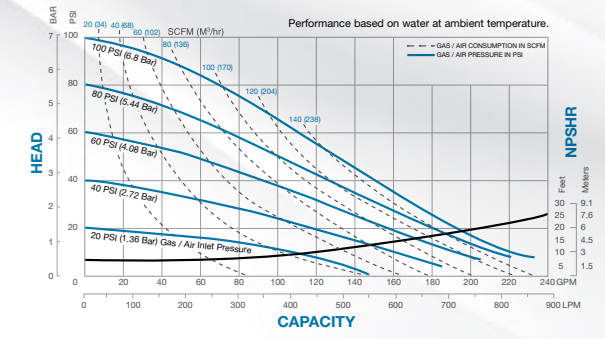
- Remote Site Serviceability**
ESADS+Plus Air / Gas System allows for an on-site maintenance time of only 5 minutes
- Temperature Limits**
-10°F (-23°C) to 180°F (82°C)

- Hydrostatic Strength Test**
500 PSI (34.5 BAR)
- Nitrile or FKM Elastomers**
Air / Gas End options for varying temperatures and chemical compatibility



3" 75mm G30 Metallic Performance

- MAX FLOW**
• 235 GPM (890 LPM)
- PORTING**
• NPT / BSP (tapered)
• ANSI Flange
• DIN Flange
- GAS / AIR END**
• Aluminum
• Stainless Steel
• Nitrile or FKM Elastomers
- WET END**
• Aluminum
• Stainless Steel
• Nitrile or PTFE Diaphragm / Check Valves



DUAL POWER

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.

CSA is the Canadian Standards Association, an international organization for testing products to ensure public safety, and the governing agency for the Natural Gas Industry.

OIL & GAS INDUSTRY PUMPS

PERFORMANCE & SPECIFICATIONS

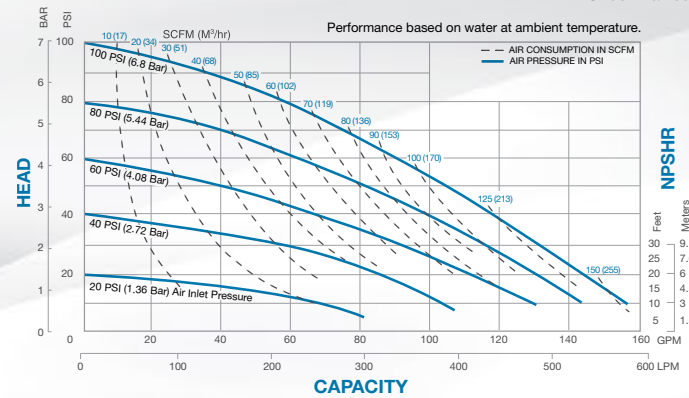


2"
50mm

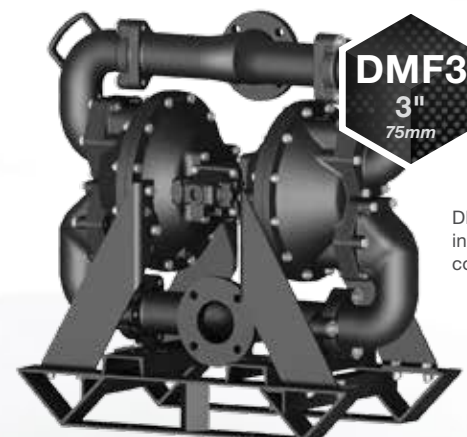
DMF2 Metallic Performance



- MAX FLOW** • 140 GPM (530 LPM) | **PORTING** • NPT | **AIR END** • Aluminum • Nitrile Elastomers | **WET END** • Aluminum • Nitrile Diaphragm / Check Valves



SANDPIPER Drillers Series pumps operate on compressed air and are designed for the toughest drilling applications. The durable roll cage and skid base configurations provide portability and pump protection. The flap check valve design allows passage of larger solids than traditional ball valve pumps and is ideal for your drilling applications. The exclusive bottom suction discharge porting arrangement provides superior suction lift and eliminates the damage from settling solids in your pump. This Heavy Duty pump features thick wall construction and is enhanced with an extended wear package.



DMF3
3"
75mm

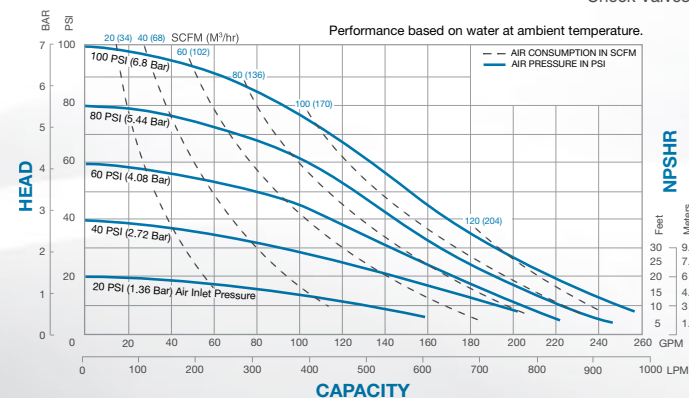
DMF3 is available in Skid Base configuration

3"
75mm

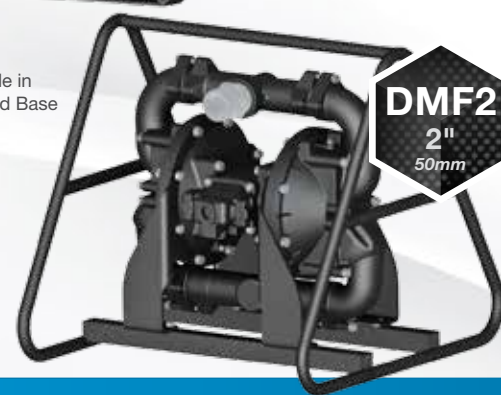
DMF3 Metallic Performance



- MAX FLOW** • 260 GPM (988 LPM) | **PORTING** • ANSI Flange | **AIR END** • Aluminum • Nitrile Elastomers | **WET END** • Aluminum • Nitrile Diaphragm / Check Valves



DMF2 is available in Roll Cage or Skid Base configuration



DMF2
2"
50mm

SPECIFICATIONS

PUMP MODELS	Dimensions					Porting (Standard)	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Fluid Discharge Pressure	Max Air/ Gas Inlet Pressure
	A	B	C	D	E							
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Bottom of Base to Center Line of Discharge							
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)	1½" 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), G1F, G15, G20 also available in ANSI Raised Face or Weld Neck flange. G30 available in DIN & ANSI Raised Face.



VS

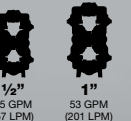
COMPETITOR

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

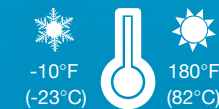
WIDEST AVAILABLE RANGE



SIZE & FLOW



WIDEST TEMPERATURE RANGE



TEMP



BROADEST CERTIFICATIONS IN THE INDUSTRY

SAFETY COMPLIANCE WITH:



SAFETY

SAFETY COMPLIANCE WITH:



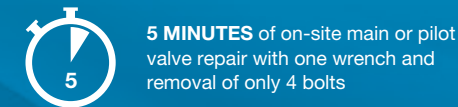
LARGEST SOLIDS PASSAGE



SOLIDS HANDLING

TOP DISCHARGE ONLY Up to ¼"

EASE OF REPAIR AND LESS DOWNTIME



GAS / AIR VALVE REPAIR

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

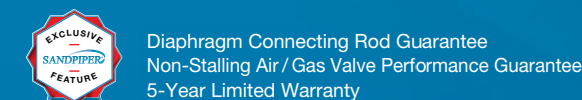
ENHANCED TEMPERATURE RESISTANCE AND CHEMICAL COMPATIBILITY



GAS / AIR END MATERIALS

LIMITED Aluminum only Nitrile Elastomers only

BEST GUARANTEE IN THE INDUSTRY



PERFORMANCE RELIABILITY

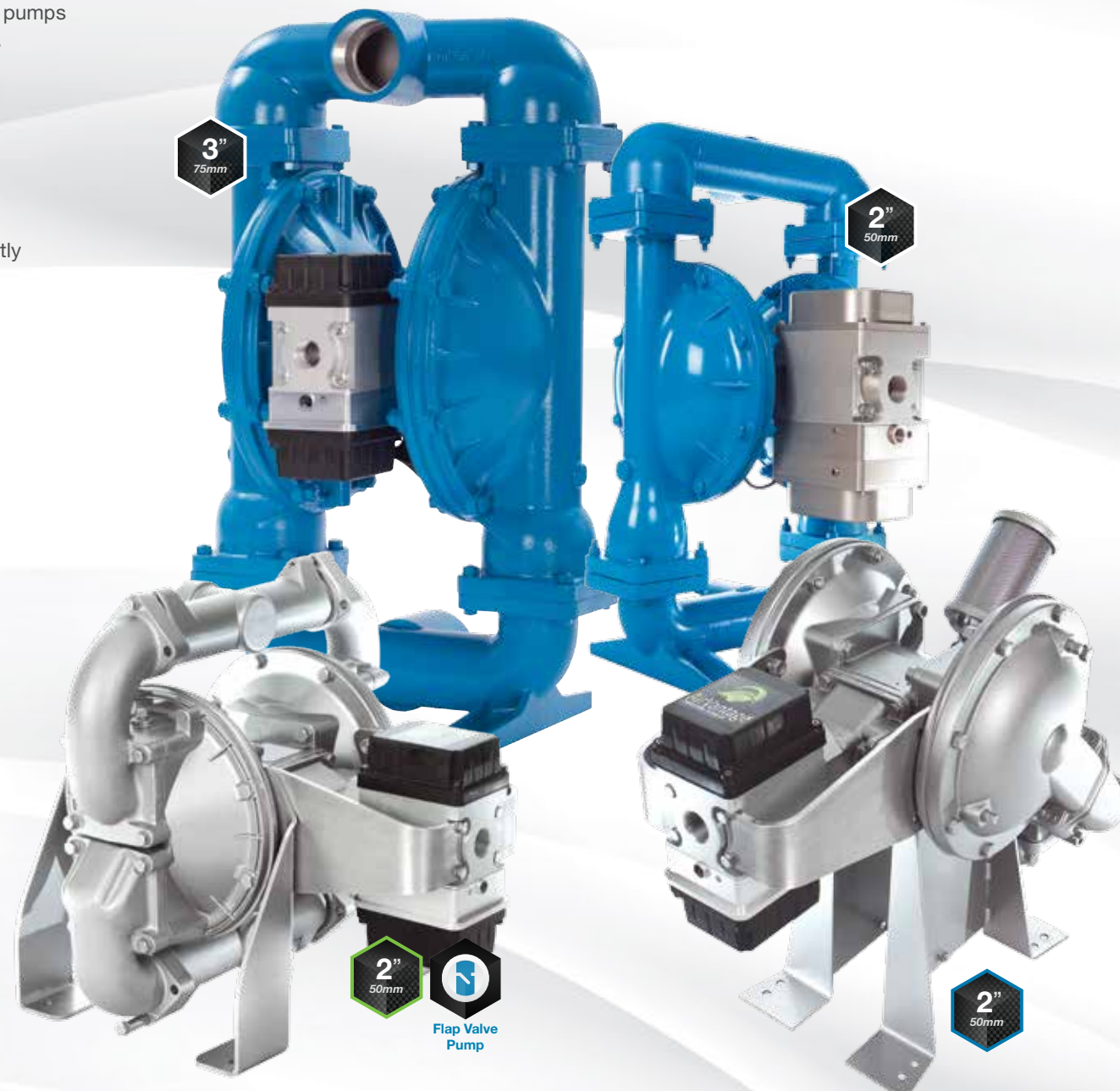
LIMITED Connecting Rod prone to bending 5-year Limited Warranty

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

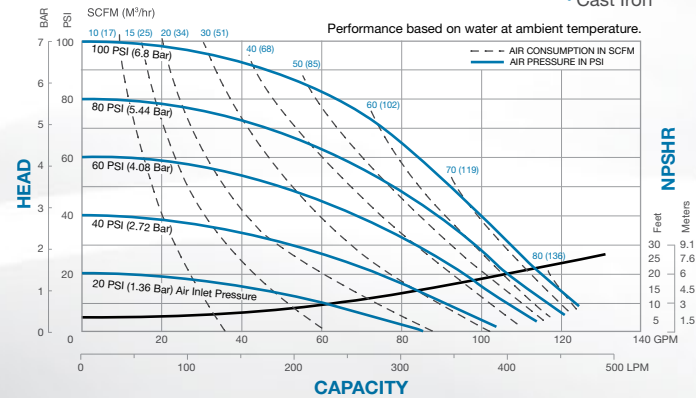
Adaptable Efficiency
Automatically adapts to changing process conditions by constantly managing the amount of air that is used to drive the pump

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



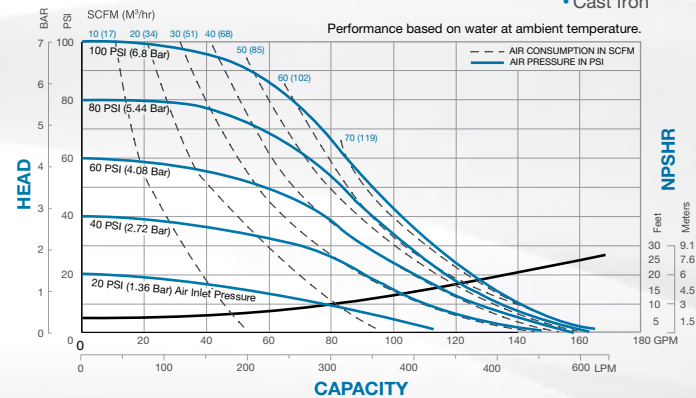
RHDB2 Metallic Performance

MAX FLOW • 130 GPM (492 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum • Stainless Steel • Cast Iron



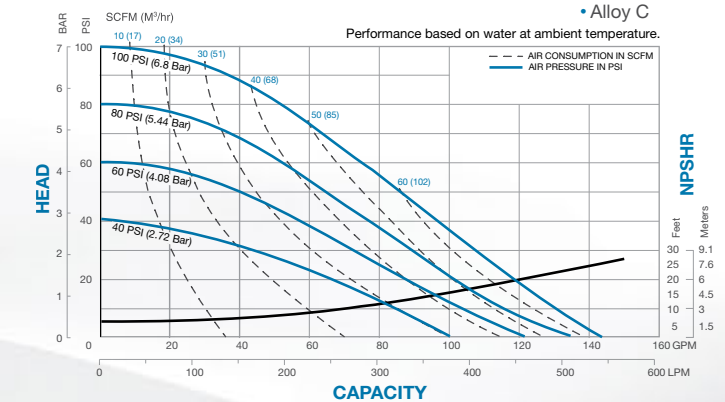
RHDF2 Metallic Performance

MAX FLOW • 165 GPM (624 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum • Stainless Steel • Cast Iron



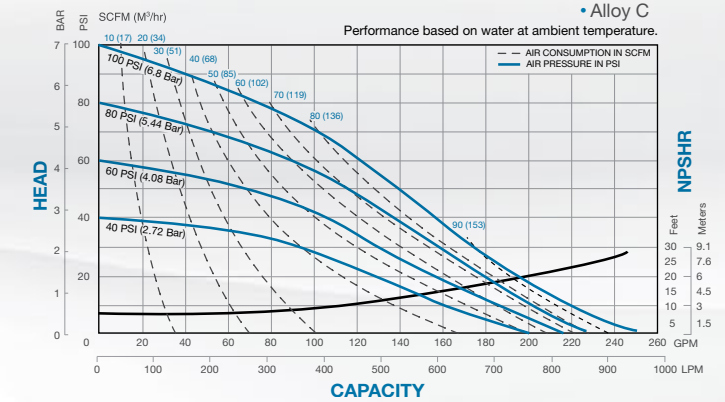
RS20 Metallic Performance

MAX FLOW • 145 GPM (548 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum • Stainless Steel • Cast Iron • Alloy C



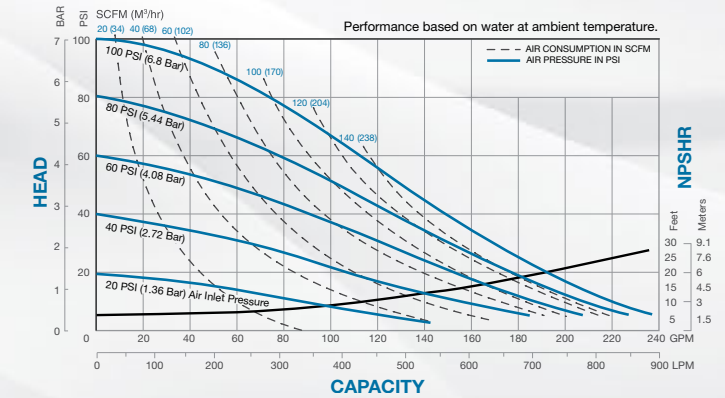
RS30 Metallic Performance

MAX FLOW • 245 GPM (927 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum • Stainless Steel • Cast Iron • Alloy C



RS30 Non-Metallic Performance

MAX FLOW • 238 GPM (901 LPM) **PORTING** • ANSI Flange • DIN Flange **AIR END** • Aluminum **WET END** • PVDF • Polypropylene



SPECIFICATIONS											
PUMP MODELS	A	B	C	D	E	Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Bottom of Base to Center Line of Discharge		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.

UL LISTED PUMPS

PERFORMANCE & SPECIFICATIONS

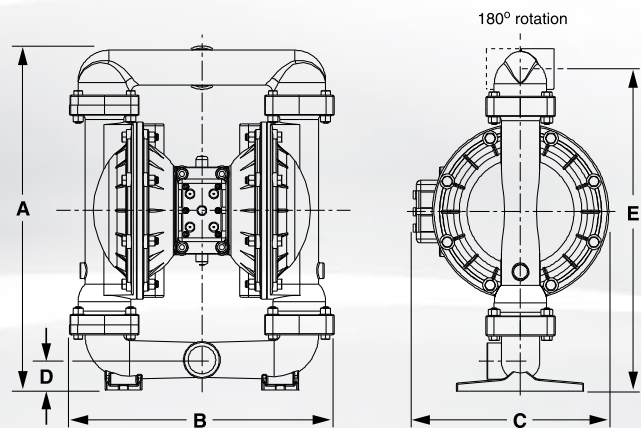
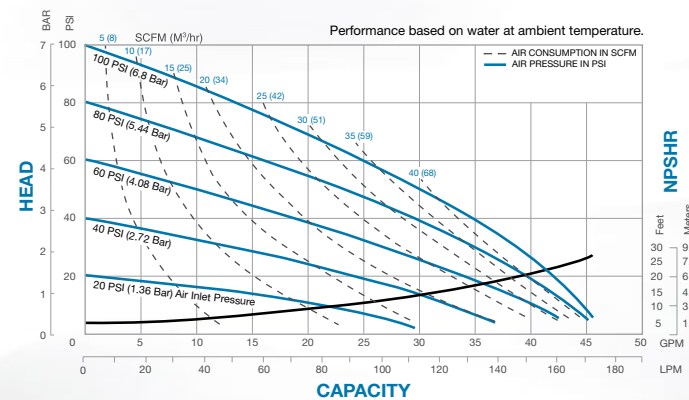
UL (Underwriters Laboratories) Listed Pumps are designed to meet UL79 standards for diaphragm pumps handling flammable liquids. All Aluminum construction with approved Nitrile or Virgin PTFE UL elastomers. Fully groundable to prevent static discharge.



1" 25mm U1F Metallic Performance



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



SCAN TO LEARN MORE
SANDPIPERPUMP.COM/ULPUMPS



SPECIFICATIONS											
PUMP MODELS	A	B	C	D	E	Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Center Line Discharge		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)

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

SUBMERSIBLE CENTRIFUGAL PUMPS

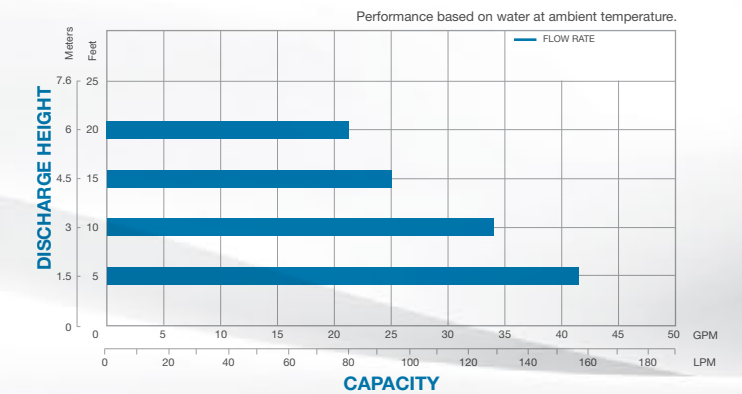
PERFORMANCE & SPECIFICATIONS

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

1 1/2" 38mm SPA1 1/2-E Metallic Performance



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

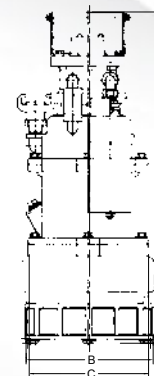
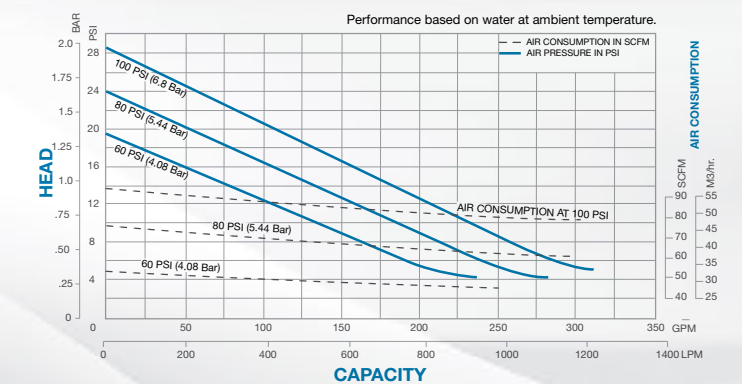


The SludgeMaster™ Submersible, Air-Powered Trash Pump handles mud, leaves, twigs, sand, sludge, trash-laden water and soft solids to 1 1/2" (3.8cm). High capacity, low head. The pump weighs only 59 pounds (26kg), and can fit through an opening as small as 14" (35cm). Sturdy construction for rough handling and long life. Optional rock screen available.

3" 75mm SMA3 Metallic Performance



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



SCAN TO LEARN MORE
SANDPIPERPUMP.COM/SUBMERSIBLE

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

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

PREMIUM FDA COMPLIANT PUMPS

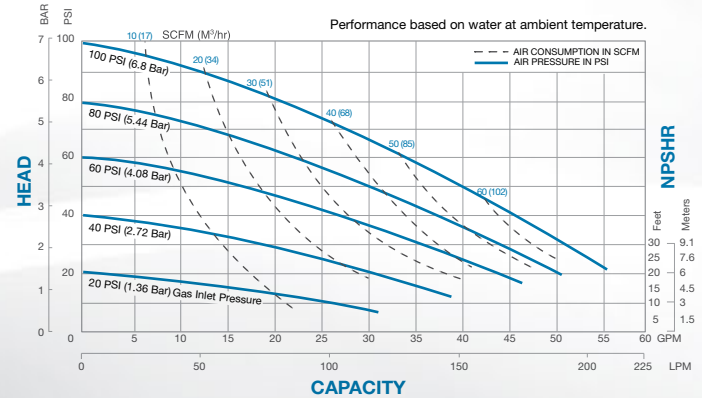
PERFORMANCE & SPECIFICATIONS

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
- Porting Options**
Rotatable manifolds

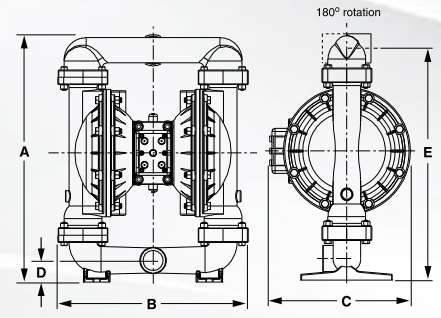
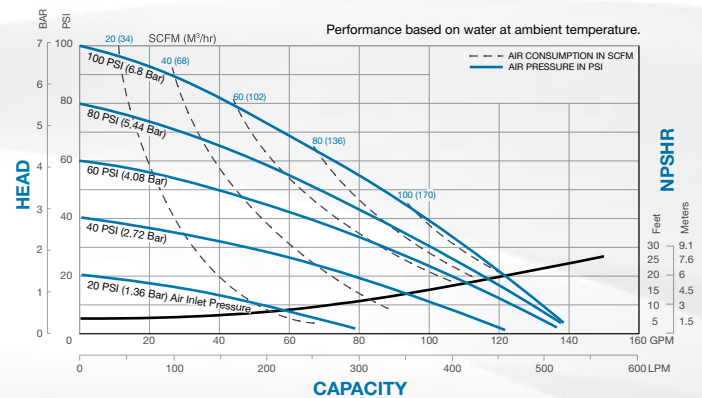
1" 25mm SSB1 / DSB1 Metallic Performance

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



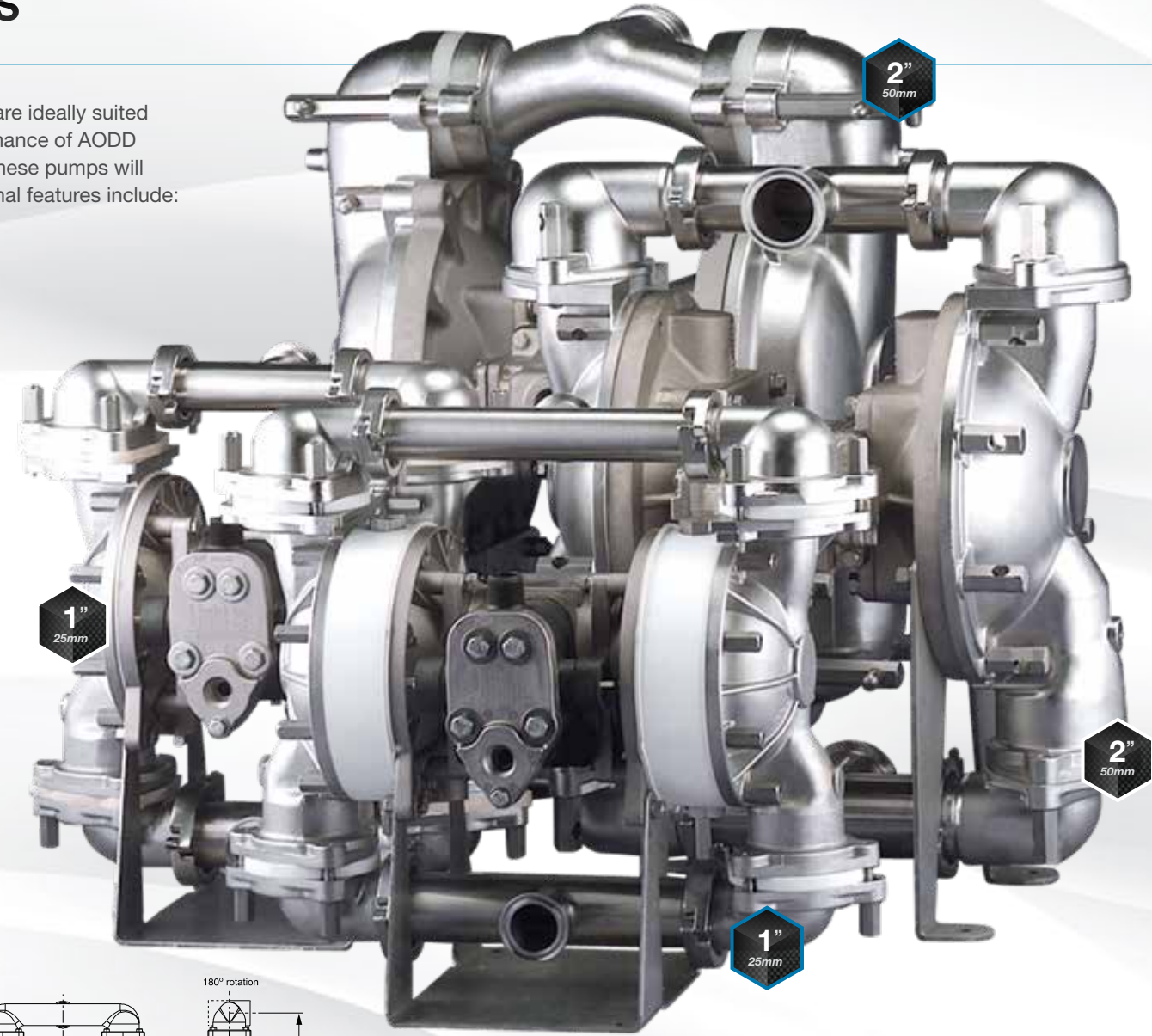
2" 50mm SSB2 Metallic Performance

- MAX FLOW** • 125 GPM (473 LPM)
- PORTING** • Tri-Clamp
- AIR END** • Nickel Plated Aluminum
- WET END** • Stainless Steel



PUMP MODELS	SPECIFICATIONS					Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	A	B	C	D	E						
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Bottom of Base to Center Line of Discharge						
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)						
SSB1/DSB1	17.44 (443)	15.69 (398)	10.69 (271)	2.38 (60)	15.94 (404)	1½" Tri-Clamp	1 (25)	.09 (.34)	54 (204)	.25 (6)	125 (8.6)
SSB2	22.63 (575)	18.88 (479)	12.81 (325)	2.75 (70)	21 (533)	2" Tri-Clamp	2 (50)	.36 (1.36)	125 (473)	.25 (6)	125 (8.6)
SSA2	25.63 (651)	20.06 (510)	16.25 (413)	3.94 (100)	24.13 (612)	2½" Tri-Clamp	2 (50)	.63 (2.39)	150 (570)	1.06 (27)	125 (8.6)
SET1	17.88 (454)	19 (483)	10.19 (268)	2.38 (60)	15.75 (400)	1" Tri-Clamp	1 (25)	.09 (.34)	54 (204)	.25 (6)	125 (8.6)
SET2	23.5 (597)	24.13 (613)	13 (330)	2.38 (60)	21.25 (540)	2" Tri-Clamp	2 (50)	.36 (1.36)	123 (465)	.25 (6)	125 (8.6)

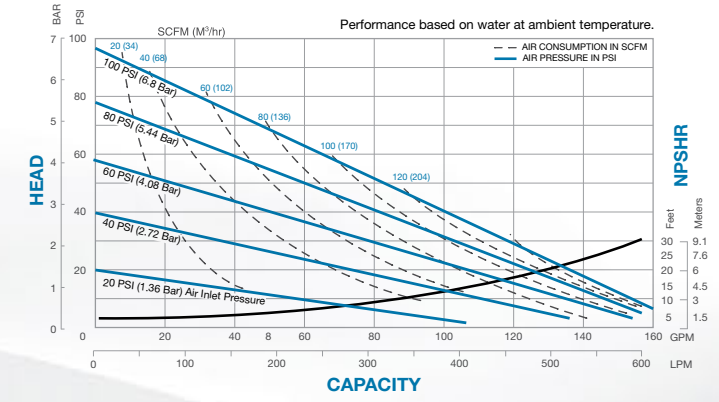
Dimensional Tolerance: ±1/8" (± 3mm) • See service manual for complete specifications.



SCAN TO LEARN MORE
SANDPIPERPUMP.COM/USDAPUMPS

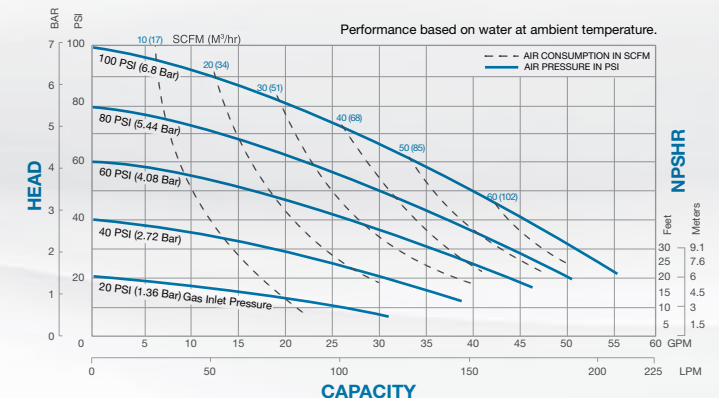
2" 50mm SSA2 Metallic Performance

- MAX FLOW** • 150 GPM (567 LPM)
- PORTING** • Tri-Clamp
- AIR END** • Nickel Plated Aluminum
- WET END** • Stainless Steel



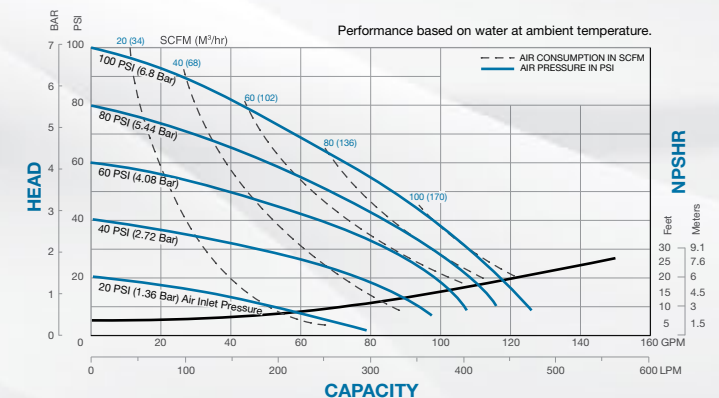
1" 25mm SET1 Metallic Performance

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



2" 50mm SET2 Metallic Performance

- MAX FLOW** • 123 GPM (465 LPM)
- PORTING** • Tri-Clamp
- AIR END** • Nickel Plated Aluminum
- WET END** • Stainless Steel



EC-1935
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.

STANDARD FDA COMPLIANT PUMPS

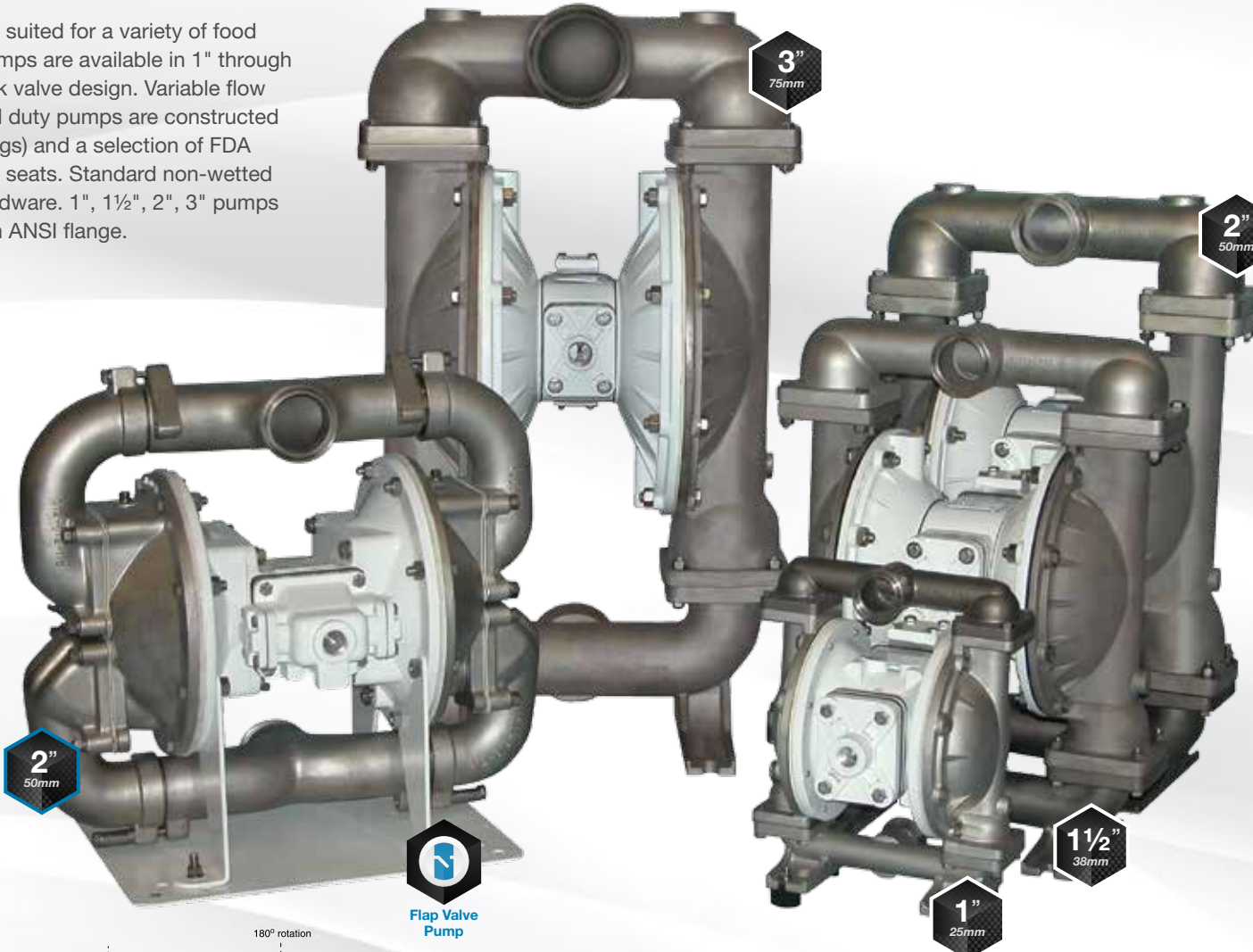
PERFORMANCE & SPECIFICATIONS



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", 1½", 2", 3" pumps are offered with sanitary clamp fittings and 3" pumps are offered with an ANSI flange.

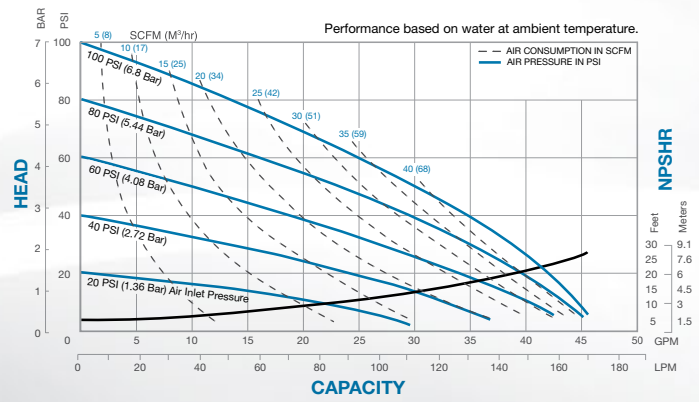
Materials Of Construction
316 Stainless Steel components

Porting Options
Rotatable manifolds and top or bottom discharge available



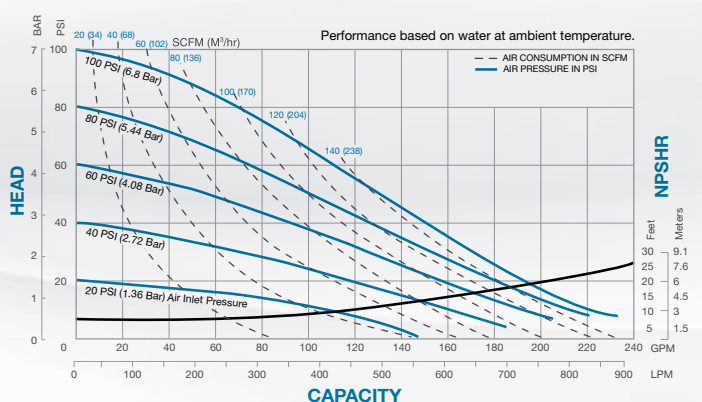
1" 25mm T1F Metallic Performance

MAX FLOW • 45 GPM (170 LPM)
PORTING • Tri-Clamp
AIR END • Epoxy Coated Aluminum
WET END • Stainless Steel



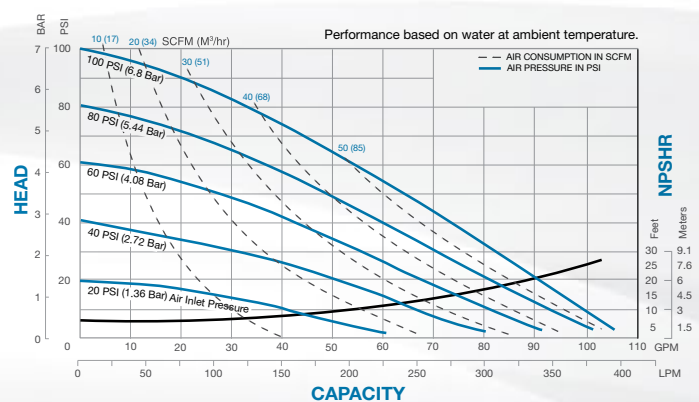
3" 75mm T30 Metallic Performance

MAX FLOW • 235 GPM (889 LPM)
PORTING • ANSI Flange
AIR END • Epoxy Coated Aluminum
WET END • Stainless Steel



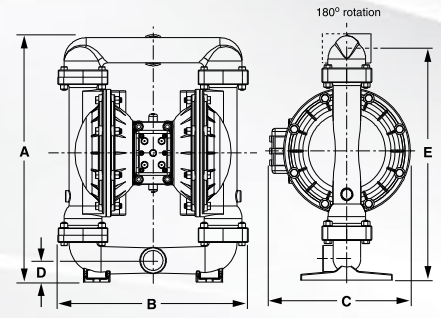
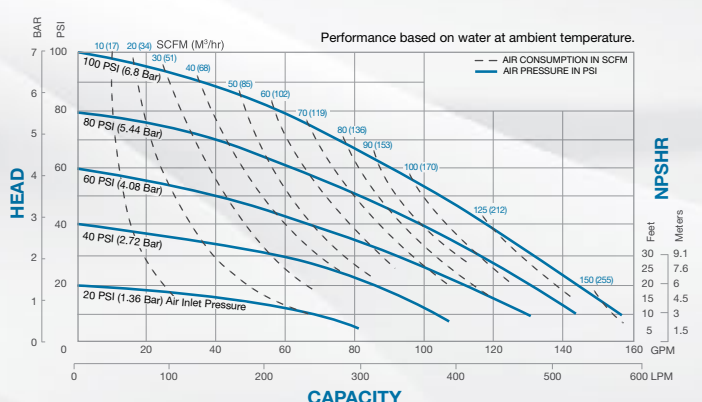
1 1/2" 38mm T15 Metallic Performance

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



2" 50mm TSA2 Metallic Performance

MAX FLOW • 140 GPM (530 LPM)
PORTING • Tri-Clamp
AIR END • Epoxy Coated Aluminum
WET END • Stainless Steel



PUMP MODELS	SPECIFICATIONS					Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	A	B	C	D	E						
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Center Line of Discharge						
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
T1F	12.97 (326)	10.25 (260)	10.38 (264)	1.22 (31)	11.97 (304)	1½" Tri-Clamp	1 (25)	.11 (.42)	45 (170)	.25 (6)	125 (8.6)
T15	21.81 (554)	16.66 (423)	12.36 (314)	1.97 (50)	20.38 (518)	2" Tri-Clamp	1.5 (38)	.41 (1.55)	106 (401)	.25 (6)	125 (8.6)
T20	26.56 (674)	16.88 (428)	12.59 (320)	2 (50)	24.75 (629)	2½" Tri-Clamp	2 (50)	.42 (1.59)	150 (567)	.25 (6)	125 (8.6)
T30	32.28 (820)	19.66 (499)	15.75 (400)	4.22 (107)	30.84 (808)	4" Tri-Clamp	3 (75)	.94 (3.56)	235 (889)	.38 (9.5)	125 (8.6)
TSA2	20.81 (529)	21.25 (539)	13 (330)	2.56 (65)	17.56 (447)	2½" Tri-Clamp	2 (50)	.43 (1.60)	140 (530)	2 (50)	125 (8.6)

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

EC-1935
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.

Santoprene is a registered trademark of Exxon Mobil Corporation.

MINE & CONSTRUCTION PUMPS

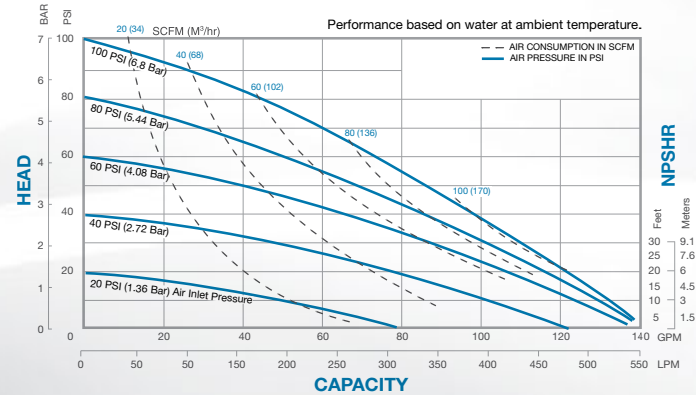
PERFORMANCE & SPECIFICATIONS

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

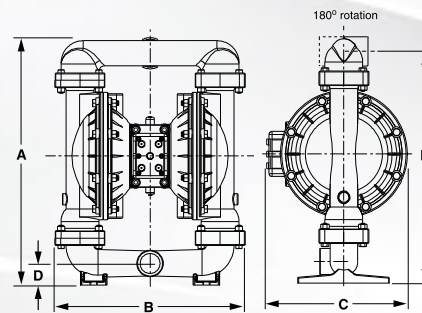
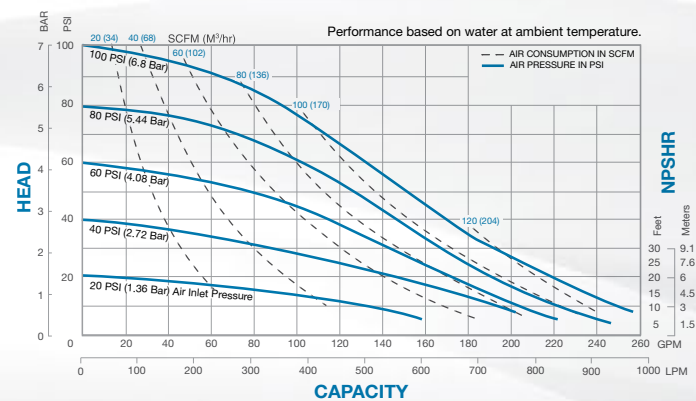
2" 50mm **MSB2 Metallic Performance**

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



3" 75mm **MSA3/MSA3-C Metallic Performance**

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



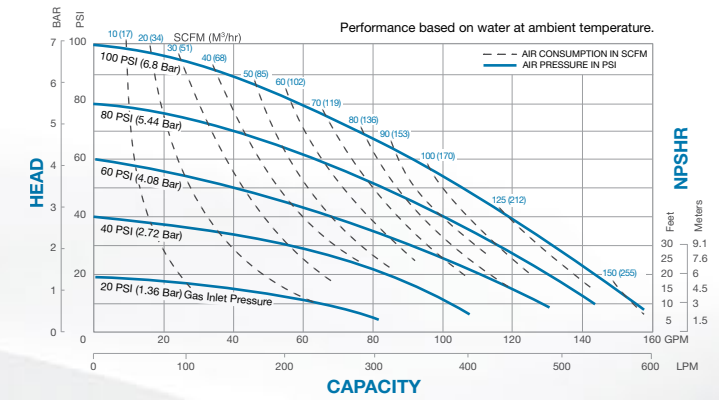
PUMP MODELS	SPECIFICATIONS					Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	A	B	C	D	E						
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Center Line to Discharge						
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)
MSB2	Variable	Variable	Variable	Variable	Variable	2" NPT / BSP	2 (50)	.36 (1.36)	125 (473)	.25 (6)	125 (8.6)
MSA3-C	Variable	Variable	Variable	Variable	Variable	3" #125 ANSI	3 (75)	1.62 (6.15)	260 (988)	3 (75)	125 (8.6)
MSA2	Variable	Variable	Variable	Variable	Variable	2" NPT / BSP	2 (50)	.43 (1.60)	140 (530)	2 (50)	125 (8.6)
S20	26.31 (669)	16.88 (428)	12.59 (320)	1.88 (48)	24.63 (625)	2" NPT / BSP	2 (50)	.42 (1.59)	150 (567)	.25 (6)	125 (8.6)
S30	32.06 (814)	19.66 (499)	15.75 (400)	2.34 (60)	29.97 (761)	3" NPT / BSP	3 (75)	.94 (3.56)	238 (901)	.38 (9.5)	125 (8.6)

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

SCAN TO LEARN MORE
SANDPIPERPUMP.COM/MININGPUMPS

2" 50mm **MSA2 / MSA2-B / MSA2-C Metallic Performance**

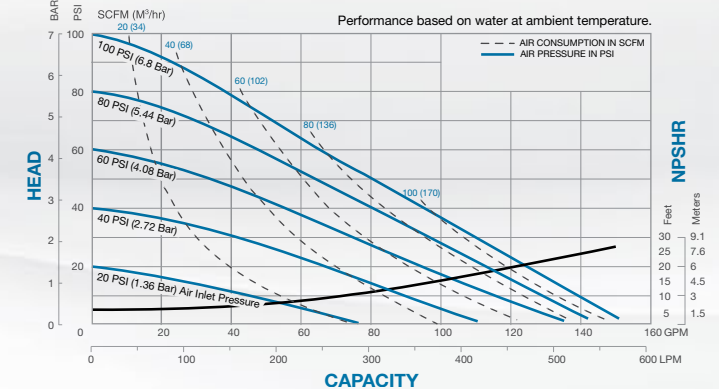
MAX FLOW • 140 GPM (530 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum



2" 50mm **S20 Metallic Performance**

MAX FLOW • 150 GPM (567 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum

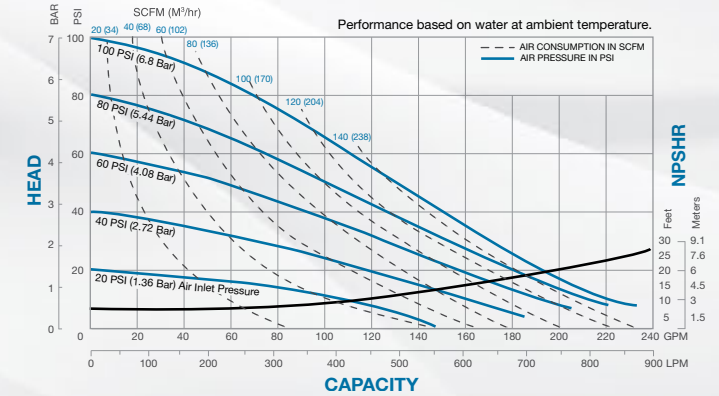
• ANSI / DIN Flange



3" 75mm **S30 Metallic Performance**

MAX FLOW • 238 GPM (901 LPM) **PORTING** • NPT / BSP **AIR END** • Aluminum **WET END** • Aluminum

• ANSI / DIN Flange



HIGH PRESSURE PUMPS

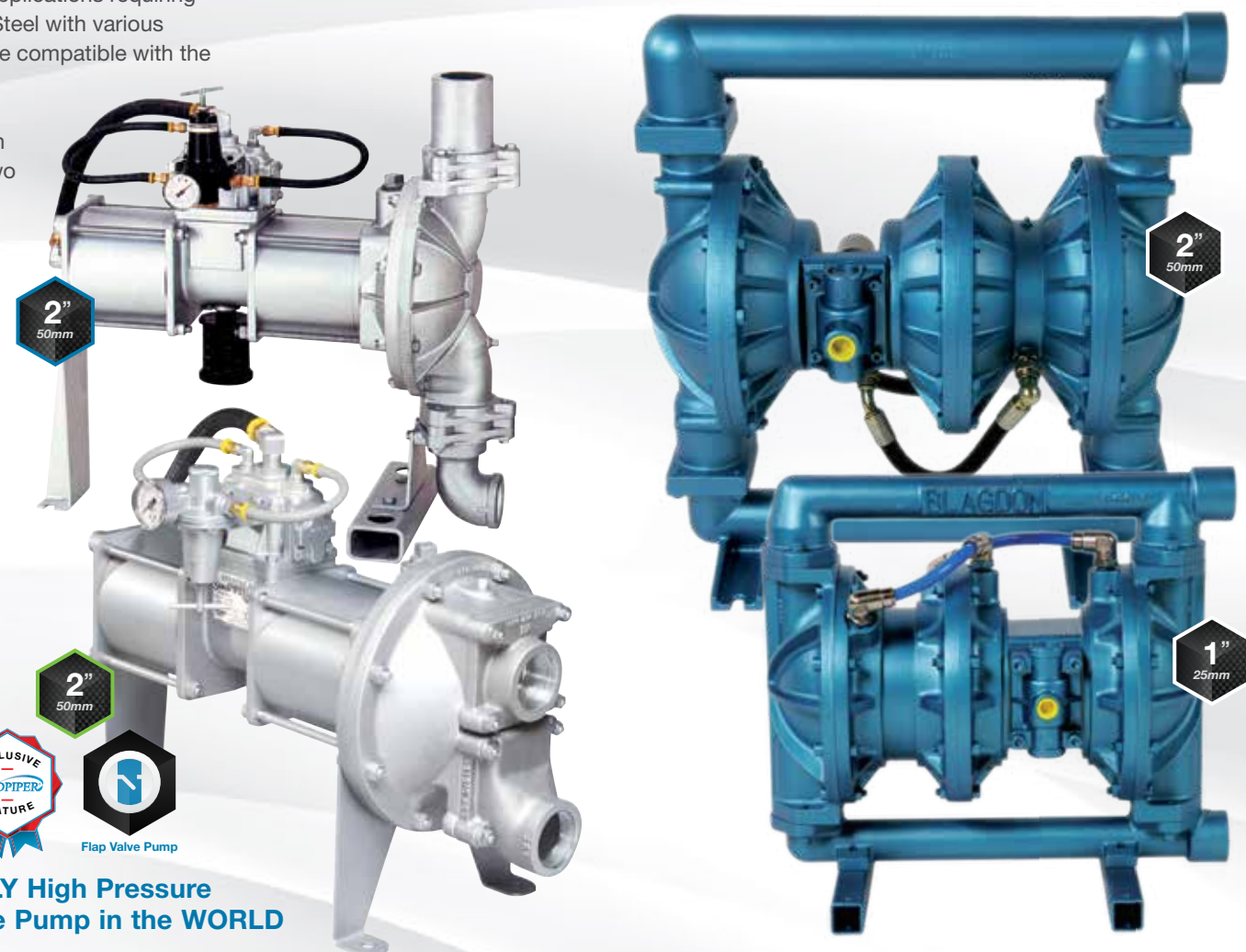
PERFORMANCE & SPECIFICATIONS



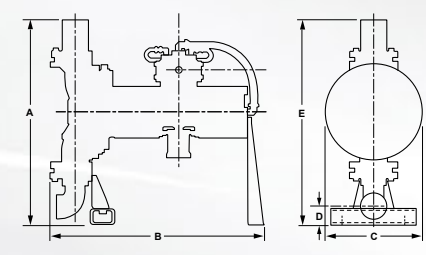
Air-Powered Single Diaphragm High Pressure Metallic Pumps deliver discharge pressure twice the inlet pressure, up to 250 PSI (17.2 BAR). Designed for filter press feed and applications requiring higher discharge pressures. Available in Aluminum, Cast Iron and Stainless Steel with various elastomer options.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

The Blagdon 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**
Single end discharge and suction available
- Reliability**
Tested to ensure the long lasting performance
- Non-Freezing, Non-Stalling**
Patented air valve will never unexpectedly stop



ONLY High Pressure Flap Valve Pump in the WORLD

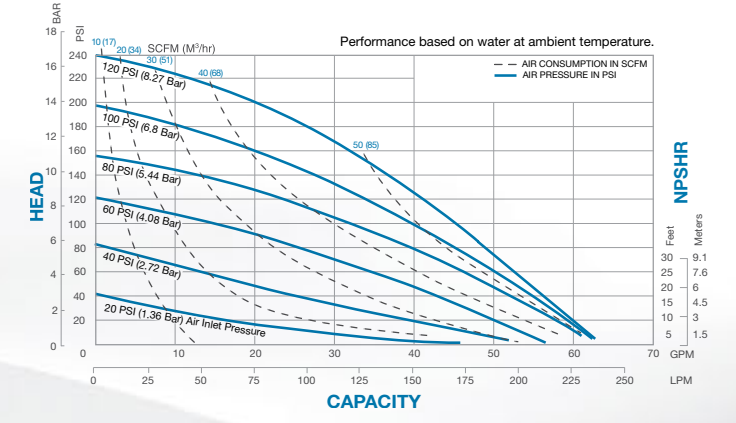


PUMP MODELS	SPECIFICATIONS					Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Fluid Discharge Pressure	Max Air/ Gas Inlet Pressure
	A	B	C	D	E							
	Height	Width	Depth	Bottom of Base to Center Line of: Suction	Discharge							
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)	psi (bar)
EH2-M/GH2-M	25 (635)	25.81 (656)	11.75 (298)	2.18 (56)	25 (635)	2" NPT	2 (50)	.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: ±1/8" (± 3mm) • See service manual for complete specifications.

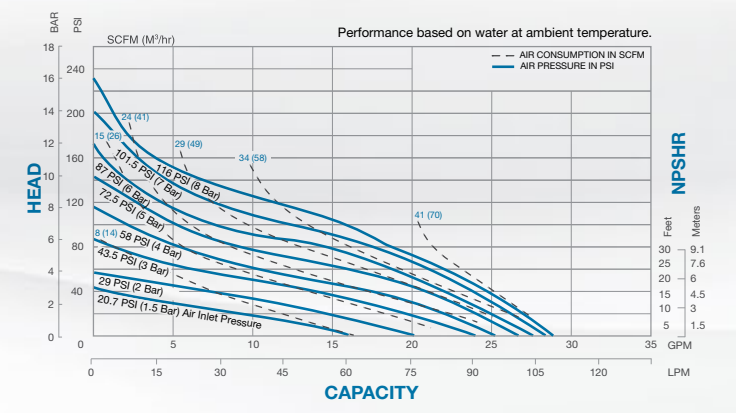
2" 50mm EH2-M / GH2-M Metallic Performance

- MAX FLOW**
• 62 GPM (235 LPM)
- PORTING**
• NPT
- AIR END**
• E: Aluminum
• G: Cast Iron
- WET END**
• Cast Iron
• Stainless Steel



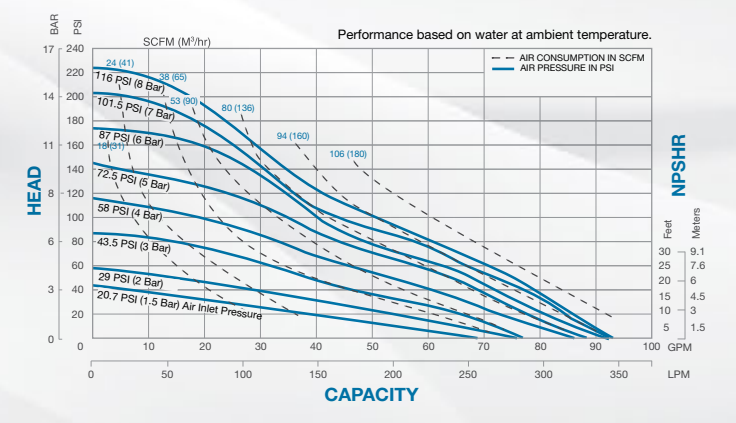
1" 25mm N25 Metallic Performance

- MAX FLOW**
• 30 GPM (114 LPM)
- PORTING**
• NPT / BSP
- AIR END**
• Aluminum
- WET END**
• Aluminum
• Stainless Steel



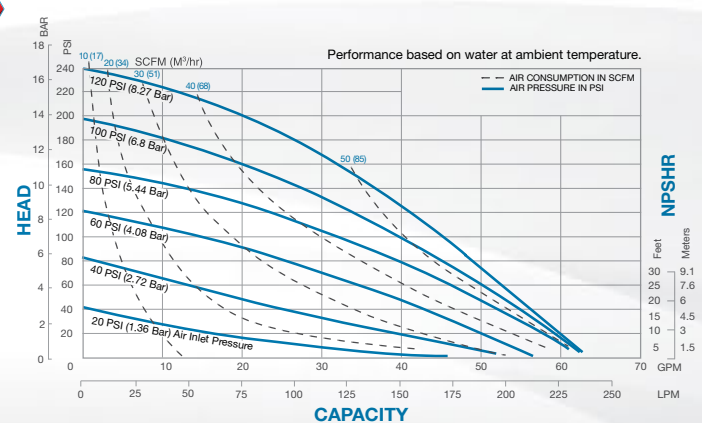
2" 50mm N50 Metallic Performance

- MAX FLOW**
• 90 GPM (341 LPM)
- PORTING**
• NPT / BSP
- AIR END**
• Aluminum
- WET END**
• Aluminum
• Stainless Steel



2" 50mm SH2-M Metallic Performance

- MAX FLOW**
• 62 GPM (235 LPM)
- PORTING**
• NPT
- AIR END**
• Aluminum
- WET END**
• Aluminum
• Cast Iron



FILTER PRESS SYSTEMS

DESCRIPTION & 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



SCAN TO LEARN MORE
SANDPIPERPUMP.COM/FILTERPRESS

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

Custom built heavy duty wastewater, filter press pumping system.

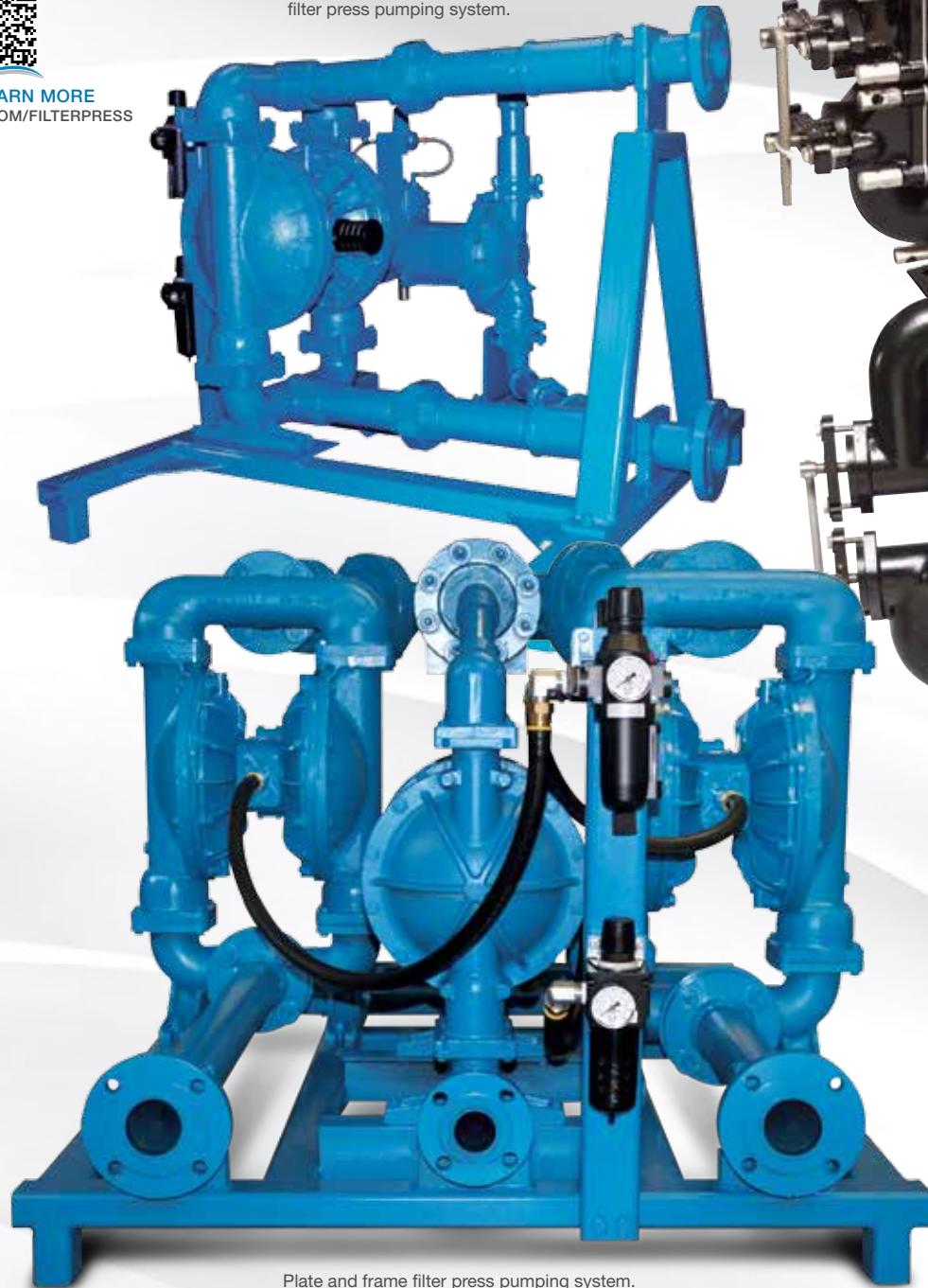
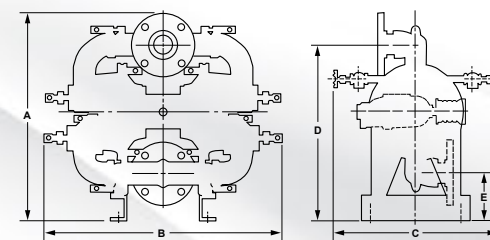


Plate and frame filter press pumping system.



SCAN TO LEARN MORE
SANDPIPERPUMP.COM/WASTEWATER

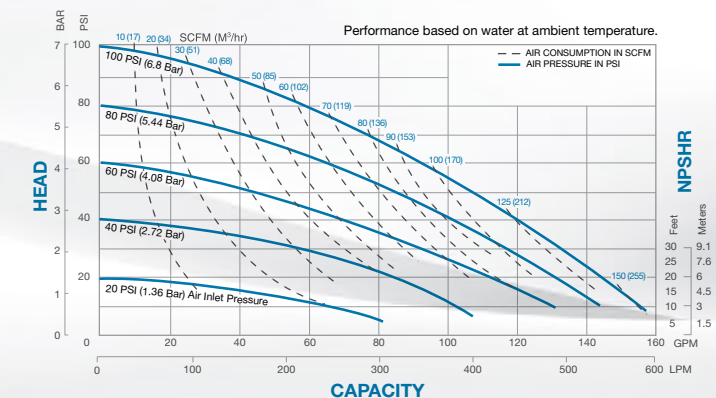
WASTEWATER PUMPS

PERFORMANCE & SPECIFICATIONS

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.

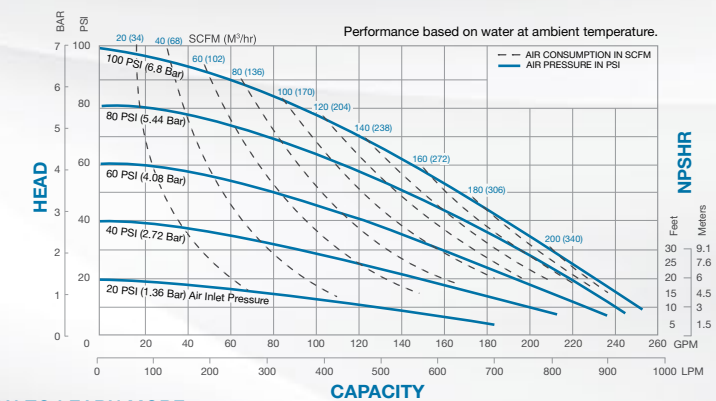
W09 Metallic Performance

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



W15 Metallic Performance

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




SPECIFICATIONS

PUMP MODELS	A	B	C	D	E	Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure
	Height	Width	Depth	Bottom of Base to Center Line of Suction	Center Line of Discharge		inch (mm)				
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: ±1/8" (± 3mm) • See service manual for complete specifications.

ACCESSORIES

ALL OF THE ITEMS YOU NEED TO COMPLETE YOUR SYSTEM

 **Enhanced Pump Performance and Productivity**

 **Extended MTBF (Mean Time Between Failure)**

 **Protection of Ancillary Equipment in Fluid Flow Path**

 **Enhanced Safety and Environmental Responsibility**

 **Precision Pump Control and Air Efficiency**

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.

Pulsation Dampener / Surge Suppressor

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

[LEARN MORE ON PAGE 65](#)

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.

Inlet Stabilizer

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

Air Line Solenoid

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

Muffler

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

Pulse Output Kit

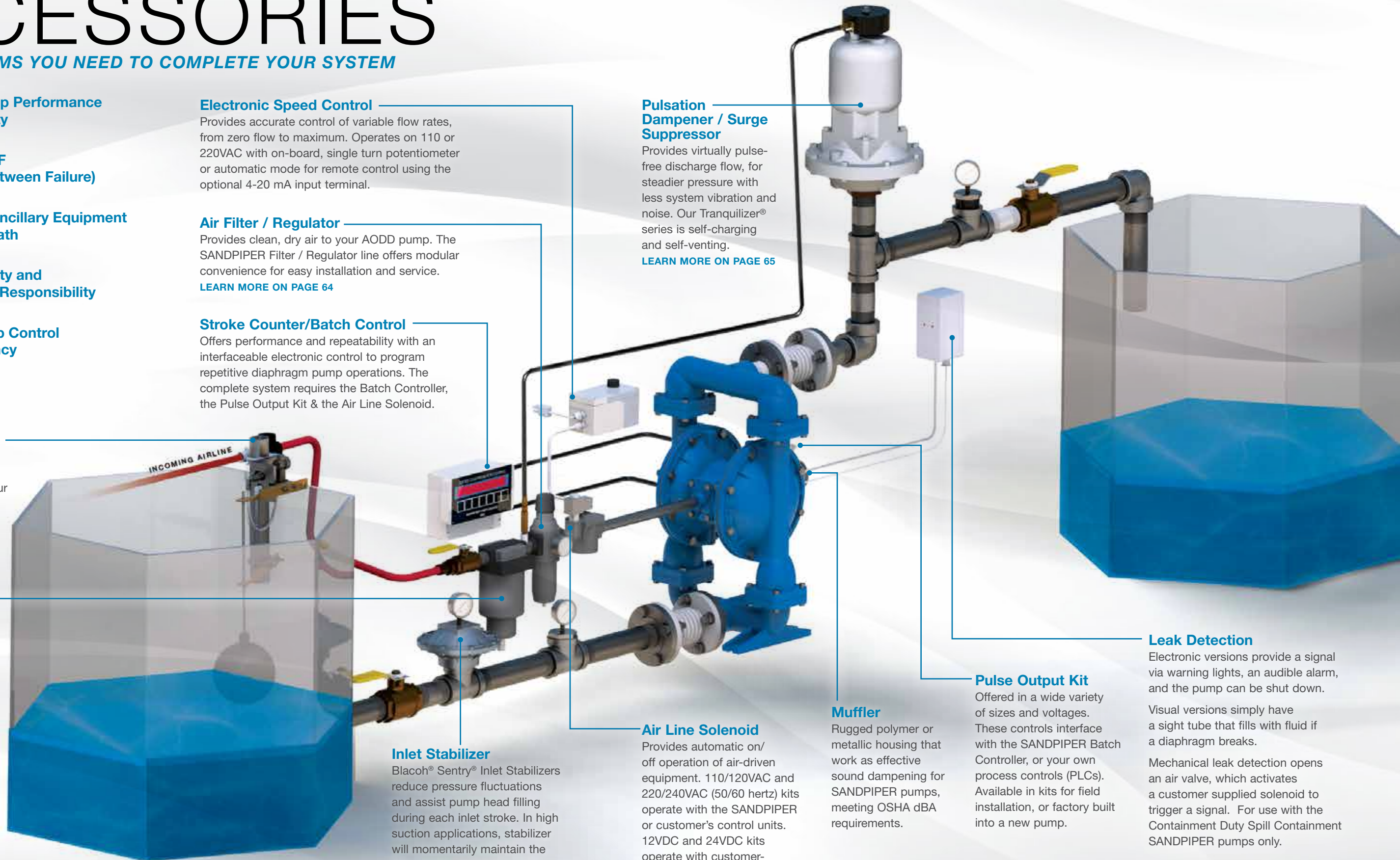
Offered in a wide variety of sizes and voltages. These controls interface with the SANDPIPER Batch Controller, or your own process controls (PLCs). Available in kits for field installation, or factory built into a new pump.

Leak Detection

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

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

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



FILTER REGULATORS

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



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

Lubricators

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



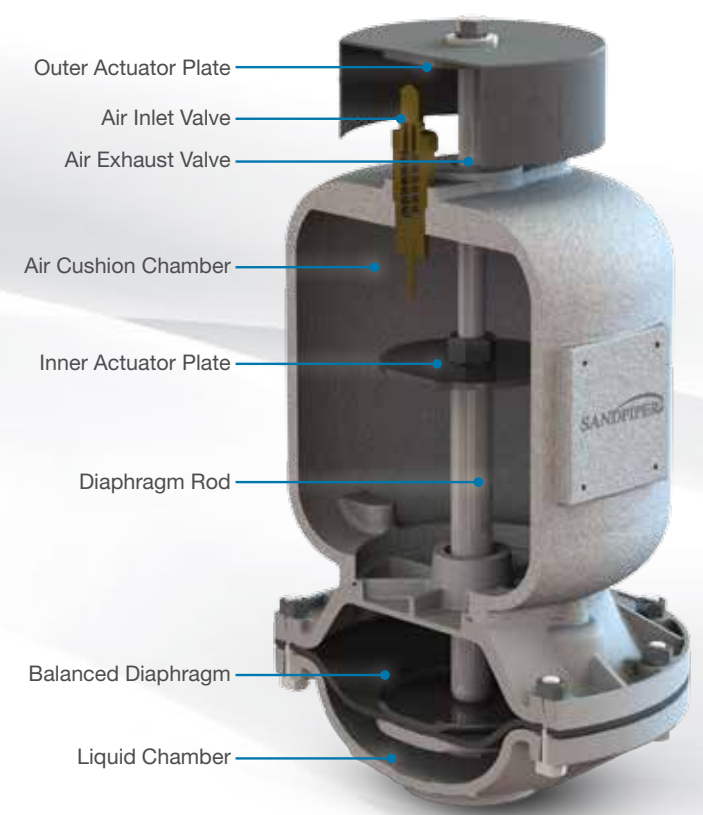
* Up to 3/4" units.

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 Number
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	1/2" NPT	80	Filter/Regulator w/ gauge (40 micron)	150 psi (10.2 bar)	0 - 125 psi (0 - 8.6 bar)	020.050.004	020.050.002	020.050.007	020.101.000	020.114.000
020.105.000	3/4" NPT	150	Filter/Regulator w/ gauge (40 micron)	150 psi (10.2 bar)	0 - 125 psi (0 - 8.6 bar)	020.051.004	020.051.002	020.051.007	020.102.000	020.115.000
020.106.000	1" NPT	250	Filter/Regulator w/ gauge & mounting bracket kit (40 micron)	175 psi (12.1 bar)	0 - 125 psi (0 - 8.6 bar)	020.052.004	020.052.002	020.052.007	020.102.000	020.116.000
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 Recommended

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

TRANQUILIZERS®

PULSATION DAMPENERS / SURGE SUPPRESSORS



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



ALSO AVAILABLE THROUGH SANDPIPER:

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

SCAN TO LEARN MORE
SANDPIPERPUMP.COM/SURGEDAMPENERS



TECHNICAL SPECIFICATIONS							Available Wetted Materials											
Model	Desc.	Cert.	Air Inlet Size	Liquid Inlet Size	Height (mm)	Diameter (mm)	Chamber				Diaphragm							
							Aluminum	Stainless Steel	Cast Iron	Alloy C	Neoprene	Nitrile	FKM	EPDM	Neoprene PTFE Overlay	Santoprene®		
Tranquilizers (Featured Above)	TA1	1" pumps	CE	1/4" NPT (external thread)	1" NPT	13.625"-15.125" (346mm-384mm)	9"	(229mm) NPT(F)	✓	✓	✗	✗	✓	✓	✓	✓	✓	✓
	TA25	1" pumps	CE	1/4" NPT (external thread)	1" BSP (Tapered internal thread)	13.625"-15.125" (346mm-384mm)	9"	(229mm) NPT(F)	✓	✓	✗	✗	✓	✓	✓	✓	✓	✓
	TA1 1/2	1" & 1 1/2" pumps	CE	1/4" NPT (external thread)	1 1/2" NPT (internal thread)	19.875"-21.325" (505mm-543mm)	10.5"	(267mm) NPT(F)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TA40	1" & 1 1/2" pumps	CE	1/4" NPT (external thread)	1 1/2" BSP (Tapered internal thread)	19.875"-21.325" (505mm-543mm)	10.5"	(267mm) NPT(F)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TA2	1 1/2" & 2" pumps	CE	1/4" NPT (external thread)	2" NPT (internal thread)	20.25"-23.1875" (514mm-589mm)	12.5"	(317mm) NPT(F)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	TA50	1 1/2" & 2" pumps	CE	1/4" NPT (external thread)	2" BSP (Tapered internal thread)	20.25"-23.1875" (514mm-589mm)	12.5"	(317mm) NPT(F)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dampeners	TA3	3" pumps	CE	1/4" NPT	3" 150# ANSI or 3" NPT (internal)	20.125"-23.125" (511mm-587mm)	16.1875"	(411mm) NPT(F)	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓
	TA80	3" pumps	CE	1/4" NPT	3" BSP (Tapered int.) or 80mm DIN	20.125"-23.125" (511mm-587mm)	16.1875"	(411mm) NPT(F)	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓
	DA05	1/2" pumps	CE	1/4" NPT	1/2" NPT	7.468" (190mm) WIDTH: 5.625" (143mm)	6.9375"	(176mm)	Aluminum, Stainless Steel & Polypropylene									
	DA07	3/4" pumps	CE	1/4" NPT	3/4" NPT	7.718" (196mm) WIDTH: 5.625" (143mm)	6.9375"	(176mm)	Polypropylene only									
DA10	1" pumps	CE	1/4" NPT	1" NPT	11.718" (298mm) WIDTH: 5.625" (143mm)	7.5"	(191mm)	Polypropylene only										

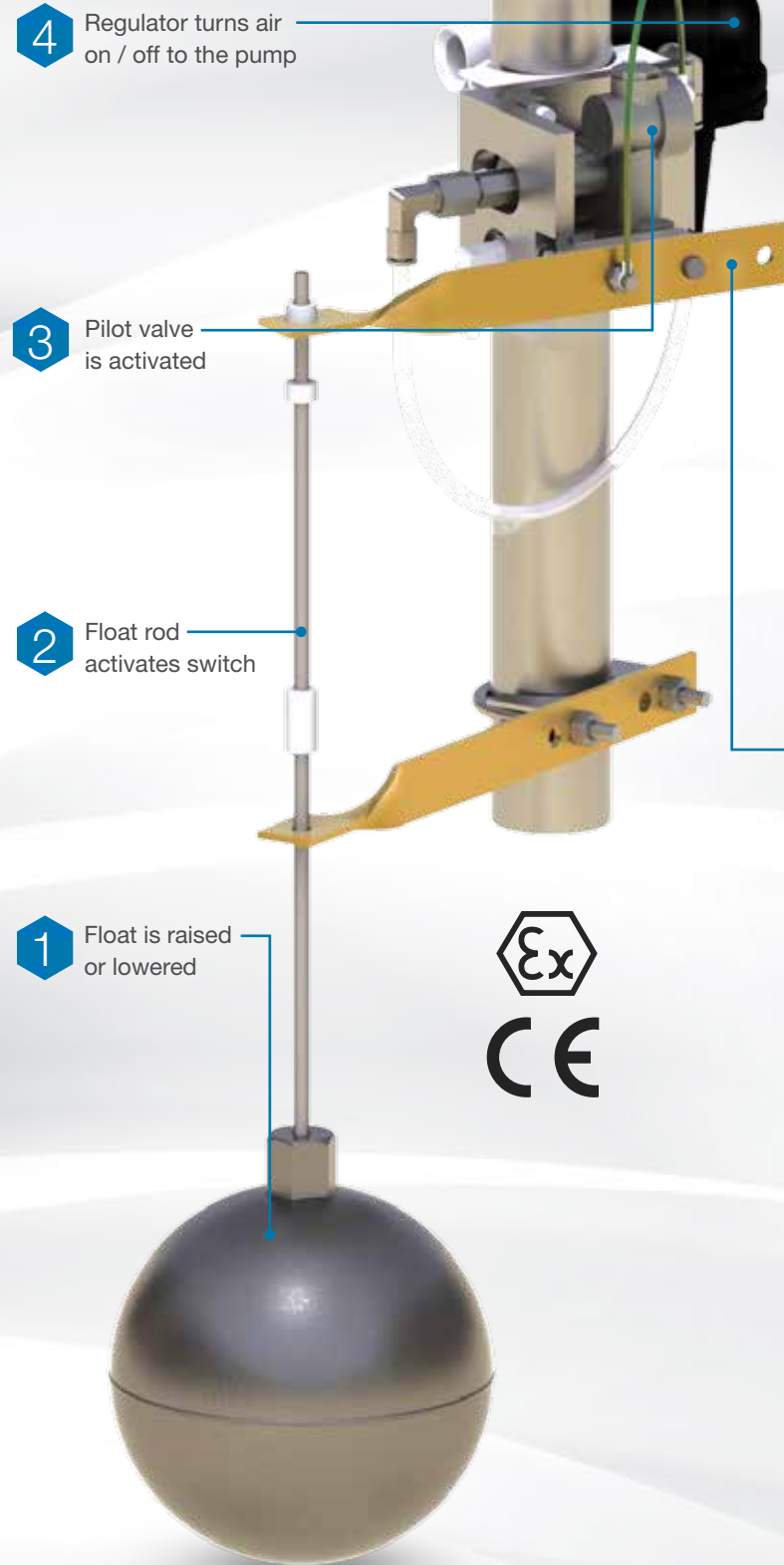
✓ = Available ✗ = Not available

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

LIQUID LEVEL CONTROL

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

How it Works



- 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



Sumping



Dewatering



Fluid Transfer



Tank Filling



ADDITIONAL ACCESSORIES

OTHER ACCESSORIES THAT SANDPIPER OFFERS TO HELP COMPLETE YOUR PROCESS



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

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 SPECIFICATIONS

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

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

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

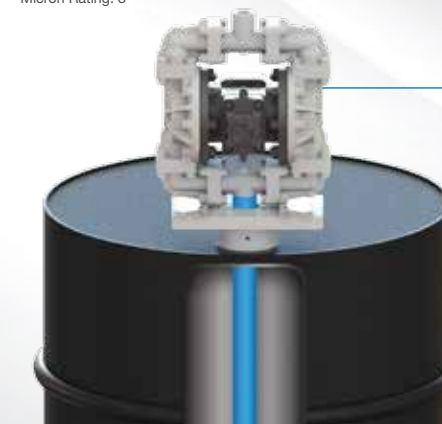
Natural Gas Filters

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

TECHNICAL SPECIFICATIONS

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

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



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 free operation and installation

No Outer Diaphragm Plate Abrasion due to trapped fluids

Oversized Integrated Plate supports nearly 50% of the diaphragm through the entire dynamic motion

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

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

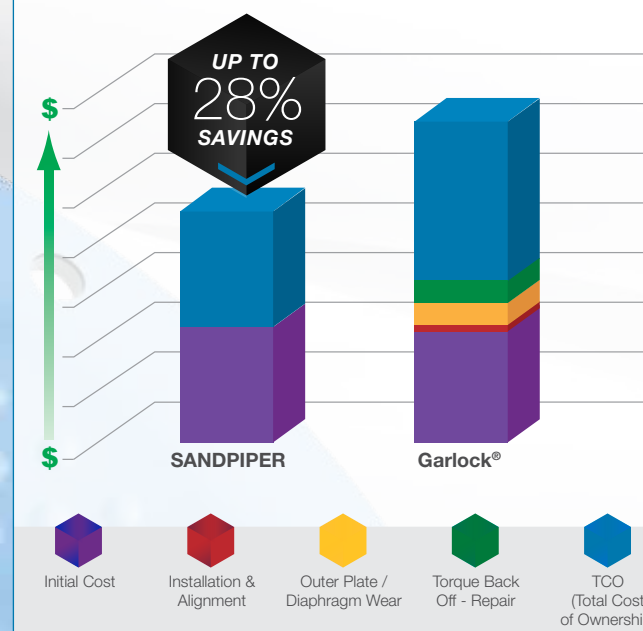
Two-piece Diaphragm

The standard PTFE diaphragm offered with SANDPIPER pumps is the two-piece diaphragm—a cost effective solution for a large variety of pumping applications. Some of the main features of this diaphragm include:

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

Please consult your distributor or factory experts for additional details.

TECHNICAL SPECIFICATIONS



Garlock® is a registered trademark of EnPro Industries, Inc.

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	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.

MATERIAL SELECTION GUIDE

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

For reference only, consult distributor.

+ = Best Type ✓ = Suitable ! = Limitations X = Not Recommended

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

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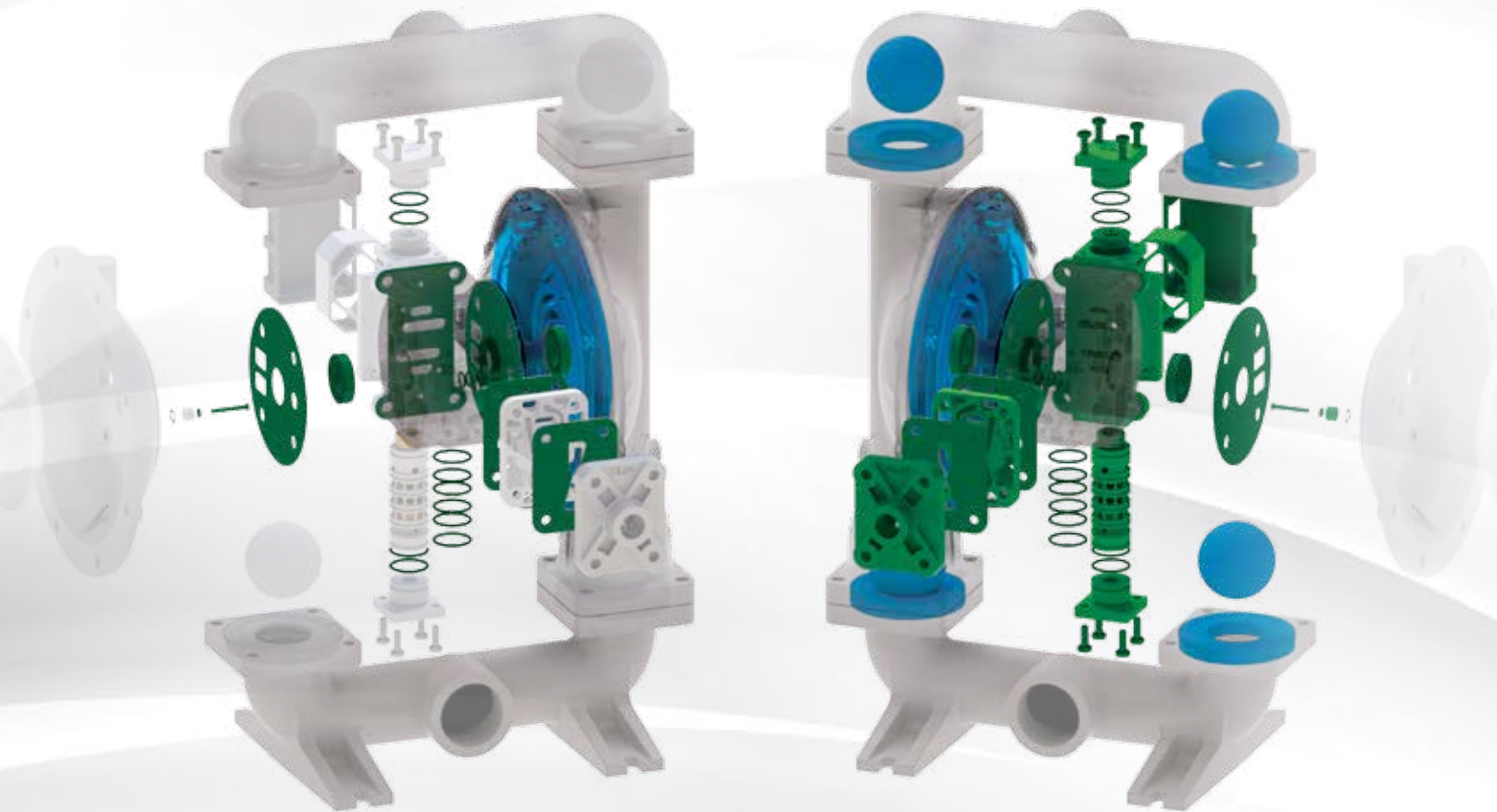
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Maximize your productivity with fewer repairs

Save Time and Money
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Wet End Wear Kit:

- Diaphragms

Air End Wear Kit:

- Gaskets
- O-rings
- Seals
- Lubricant

Repair Kits

Wet End Repair Kit:

- Diaphragms
- Balls
- Seats

Air End Repair Kit:

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

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