

Flap Valve Mining Pumps

FOR THE MOST DEMANDING MINING APPLICATIONS

Your Dedicated Resource for Air Operated Double Diaphragm (AODD) Pumping Solutions

Durable

O Portable

D Handles Solids

Ball Valve Mining Pumps

> Specialty Pumps





THE SANDPIPER ADVANTAGE

PUMPS BUILT FOR HANDLING SOLIDS-LADEN, ABRASIVE AND CORROSIVE LIQUIDS

For over 50 years, SANDPIPER, a Warren Rupp, Inc. brand, has been a leading global Air Operated Double Diaphragm (AODD) pump manufacturer, featuring the broadest range of products to meet the needs of various mining applications. SANDPIPER AODD pumps feature best-in-class flap and ball valve configurations to pump in the toughest conditions.

LEARN MORE AT SANDPIPERPUMP.COM



Recommended Applications

When durability and reliability are paramount in the rigorous environments of today's mines and construction sites, our pumps deliver the rugged performance needed These pumps are designed to be tossed, dragged and crammed into position to get the fluids you need removed in a hurry.

- Mine Face Dewatering
- Drift Dewatering
- Water Evacuation
- Lagoon Sludges
- Muck / Slime / Slurry
- Refueling
- Injection

- Belt Head Clean-up Dewatering
- Utility (Portable)

- Fuel Transfer Oil Transfer
- Filter Press
- Drillers Mud
- Concrete Transfer

Performance & Reliability



SANDPIPER pumps comply with the broadest set of certifications and standards in the industry

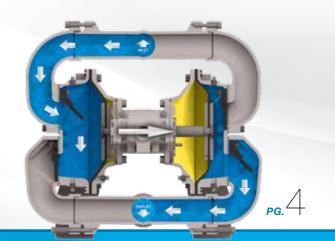
All Bolted Construction

All bolted pump construction allows for instant part alignment, uniform torguing of seals and high pressure capabilities



Diaphragm Connecting Rods

Reliable and consistent diaphragm control; guaranteed not to yield under tension or compression



Flap Valve Mining Pumps

- Hinged Flap Check Valves
- Solids Range 1" to 3" (25mm to 75mm)
- Dry Primes Up to 24' of Water (7m)
- Bottom Discharge Porting, Passes Settling Solids

RELY ON THE ABOVE AND BELOW GROUND FIELD-PROVEN EXPERIENCE OF SANDPIPER



ENGINEERED PUMPING SOLUTIONS WITH MORE WAYS THAN ONE

SANDPIPER



ABS

Guaranteed Reliability

- All pumps come with a 5-year limited warranty
- ESADS+Plus Air Valve guaranteed not to stall · Corrosion resistant stainless steel diaphragm
- connecting rod guaranteed not to bend



Fully Groundable

Pumps are ATEX compliant and safe in potentially explosive atmospheres by ensuring static electricity dissipation



Tested Quality

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



Ball Valve Mining Pumps

- Weighted Ball Check Valves
- Solids Range .13" (3mm) to .38" (9.65mm)
- Dry Primes Up to 20' of Water (6m)
- Top Discharge Porting, Passes Entrained Air



SCAN TO LEARN MORI SANDPIPERPUMP.COM/MINING



FLAP VALVE MINING PUMPS

MSA3

HEAVY DUTY AODD FLAP VALVE PUMPS FOR MINING APPLICATIONS

Performance & Reliability



Flap Check Valves Ideal for solids laden fluids, abrasive and viscous fluids, sludge & slurries



Solids Handling Jp to 3" (75mm)

Superior Dry Prime Dry suction lift up to 24' (7m) of water



Bottom Discharge Gravity assist is ideal for pumping liquids with settling solids and slurries

ESADS+Plus Air Valve Externally Serviceable Air Distribution System



All Bolted Construction Durable and leak free design



Durable Diaphragm Connecting Rod Guaranteed to not bend or yield in operation



Deadheads Safely & Runs Dry No pump or system damage



Extended Wear Package Diaphragm wear pad, heavy duty actuator plunger and bushing



Suction Strainer Available option for 2" pumps



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Recommended Applications:



• Mine Face Dewatering • Drift Dewatering Water Evacuation • Lagoon Sludges • Muck / Slime / Slurry

> MSA2 2" (50m



HD20F

2" (50mm)

SPECIFICATIONS										
PUMP MODELS	Connection Style	Pipe Size	Displacement Per Stroke	Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure	Wetted Materials	Non-Wetted Materials	Elastomers	
		inch (mm)	gal (liter)	gal (liter)	inch (mm)	psi (bar)				
MSA3	3" 125# ANSI Flange	3 (75)	1.62 (6.13)	260 (988)	3 (75)	125 (8.6)	AL	AL	B, N, S	
MSA2	2" NPT / BSP	2 (50)	.43 (1.63)	140 (530)	2 (50)	125 (8.6)	AL, CI	AL	B, N, S	
HD20F	2" ANSI / DIN Flange / NPT / BSP	2 (50)	.50 (1.90)	150 (567)	1.8 (45.7)	100 (7)	Р	Р	B, E, H, N, S, FKM	

AL = Aluminum | CI = Cast Iron | P = Polypropylene | B = Nitrile (Buna) | E = EPDM | H = Hytrel® | N = Neoprene | S = Santoprene® | FKM = Flourocarbon Santoprene® is a registered tradename of Exxon Mobil Corp. Hytrel® is a registered tradename of E.I. du Pont de Nemours and Company.

Common Air Center Section for reduced parts inventory Fits MSA2 flap valve and MSB2 ball valve pumps

Accessories

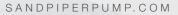


Filter Regulators

Reliable filter / regulators specifically developed for air operated double diaphragm pumps

Strainers

Suction stub and strainer kits prevent large particles from damaging pumps



SANDPIPER

BALL VALVE MINING PUMPS MINING DUTY AND STANDARD DUTY AODD BALL VALVE PUMPS FOR MINING APPLICATIONS

Performance & Reliability



Top Discharge For venting entrained air



All Bolted Construction Durable and leak free design



Durable Diaphragm Connecting Rods Guaranteed to not bend or yield in operation



Portable Handles available for easy transport



ESADS+Plus Air Valve Externally Serviceable Air Distribution System



Available Certifications C E 💿



Deadheads Safely & Runs Dry No pump or system damage



Superior Dry Prime Dry suction lift up to 20' (6m) of water



Weighted Ball Check Valves deal for abrasive and viscous fluids, sludge & slurries

S20 & S30 Options



Non-metallic

S20 and S30 pumps are available in non-metallic materials for leaching chemicals

Handles

S30

3" (75mm

S20 and S30 pumps are available with handles for easier portability



S20

SPECIFICATIONS

Connection Style

3" ANSI / DIN Flange / NPT / BSP

PUMP MODELS

MSB2

S20

S30

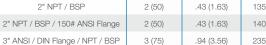
MSB2

2" (50mm)



• Water Evacuation • Lagoon Sludges

MSB2 shown with optional strainer base



Pipe Size

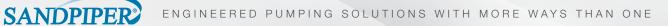
inch (mm)

AL = Aluminum | SS = Stainless Steel | CI = Cast Iron | Hast = Alloy C | B = Nitrile (Buna) | E = EPDM | N = Neoprene | S = Santoprene® | FKM = Flourocarbon | P = PTFE Santoprene® is a registered tradename of Exxon Mobil Corp.

Displaceme Per Stroke

gal (liter)

.94 (3.56)



• Slurries • Belt Head Clean-up Dewatering

Common Air Center Section for reduced parts inventory Fits MSB2 ball valve and MSA2 flap valve pumps

Accessories



Filter Regulators

Reliable Filter / Regulators specifically developed for air operated double diaphragm pumps

Max Flow Per Minute	Max Solids Handling	Max Discharge Pressure	Wetted Materials	Non-Wetted Materials	Elastomers	
gal (liter)	inch (mm)	psi (bar)				
135 (511)	.25 (6.35)	125 (8.6)	AL	AL	B, N, S	
140 (530)	.25 (6.35)	125 (8.6)	AL, CI, Hast	AL, CI, SS	B, E, N, S, FKM, P	
235 (889)	.38 (9.65)	125 (8.9)	AL, CI, Hast	AL, CI, SS	B, E, N, S, FKM, P	



SPECIALTY PUMPS

High Pressure Pumps

SANDPIPER SH2-M Single Diaphragm High Pressure Metallic Pumps deliver discharge pressure twice the inlet pressure, up to 250 PSI (17.2 BAR). Designed to move fluids containing up to 2 inch solids that require higher discharge pressures. Available in cast iron and stainless steel with various elastomer options. Equipped with elastomeric seals and components that are compatible with various chemicals.

Blagdon 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 pressures up to 238 PSI (16 BAR) with flow rates as high as 90 GPM (341 LPM).





Air Operated Submersible Centrifugal Pumps

SludgeMaster[™] Submersible, Air-Powered Centrifugal Pumps handle mud, leaves, twigs, sand, sludge, and soft solids to 1½" (3.8cm). High capacity, low head. These pumps weigh 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.

UL Listed Pumps

SANDPIPER[®] UL Pumps are designed to meet UL79 (Underwriters Laboratory) standards for diaphragm pumps handling flammable liquids. The pumps feature all aluminum construction with approved Nitrile or Virgin PTFE elastomers and are fully groundable to prevent static discharge. In addition, SANDPIPER Pumps are ATEX95a Compliant making safety our utmost concern.







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