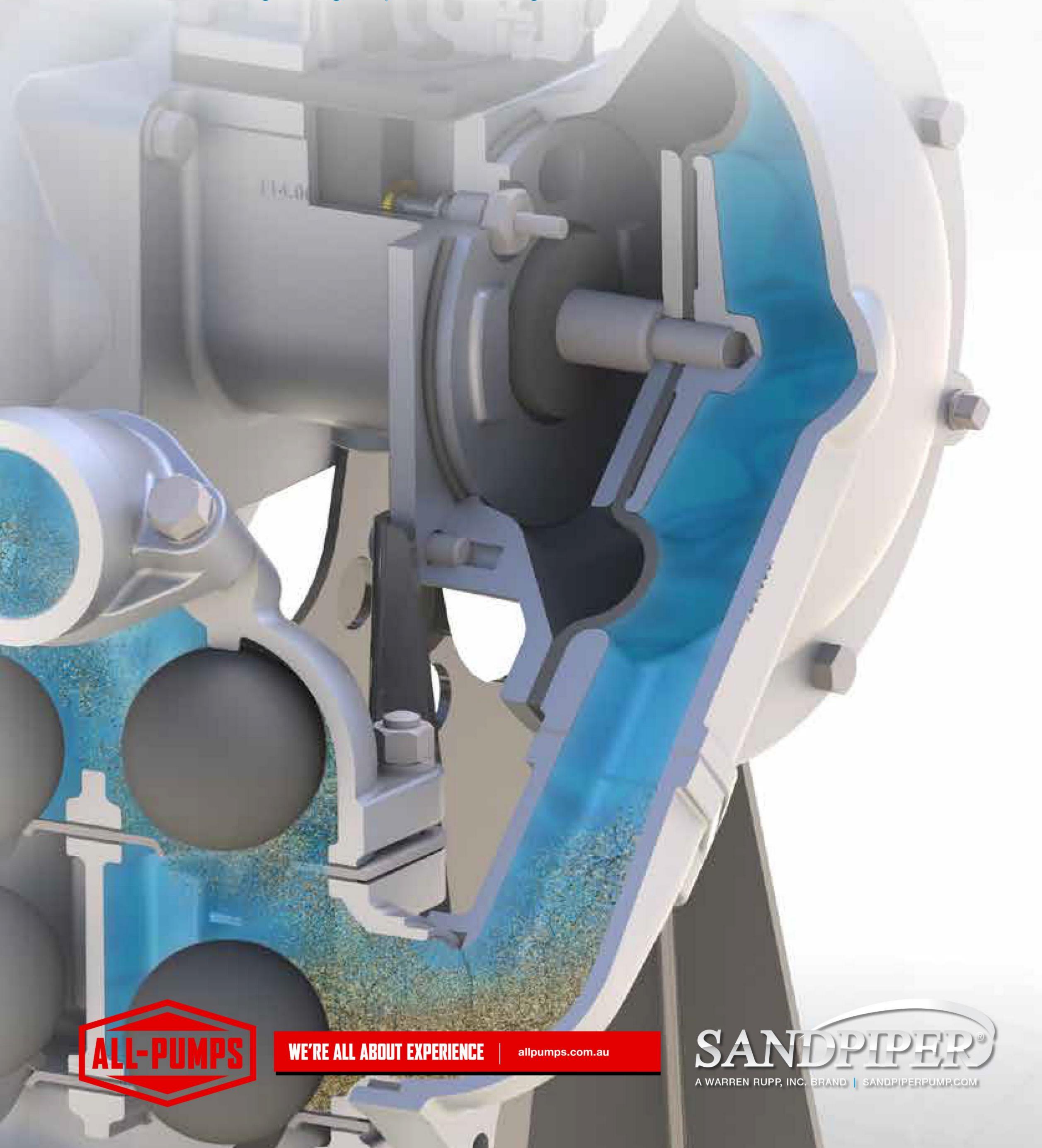
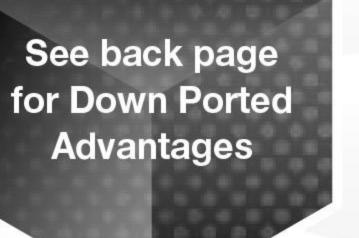
HEAVY DUTY BALL VALVE PUMPS



OUR SIGNATURE ENSURES YOUR SUCCESS

For Fluids Containing Settling, Suspended & Floating Solids





KEY ADVANTAGES OF SANDPIPER HEAVY DUTY BALL VALVE PUMPS

THE SOLUTION FOR FLUIDS CONTAINING SETTLING, SUSPENDED & FLOATING SOLIDS



MULTIPLE PORTING POSITIONS A SANDPIPER EXCLUSIVE

Top, Down, & Side Porting Positions

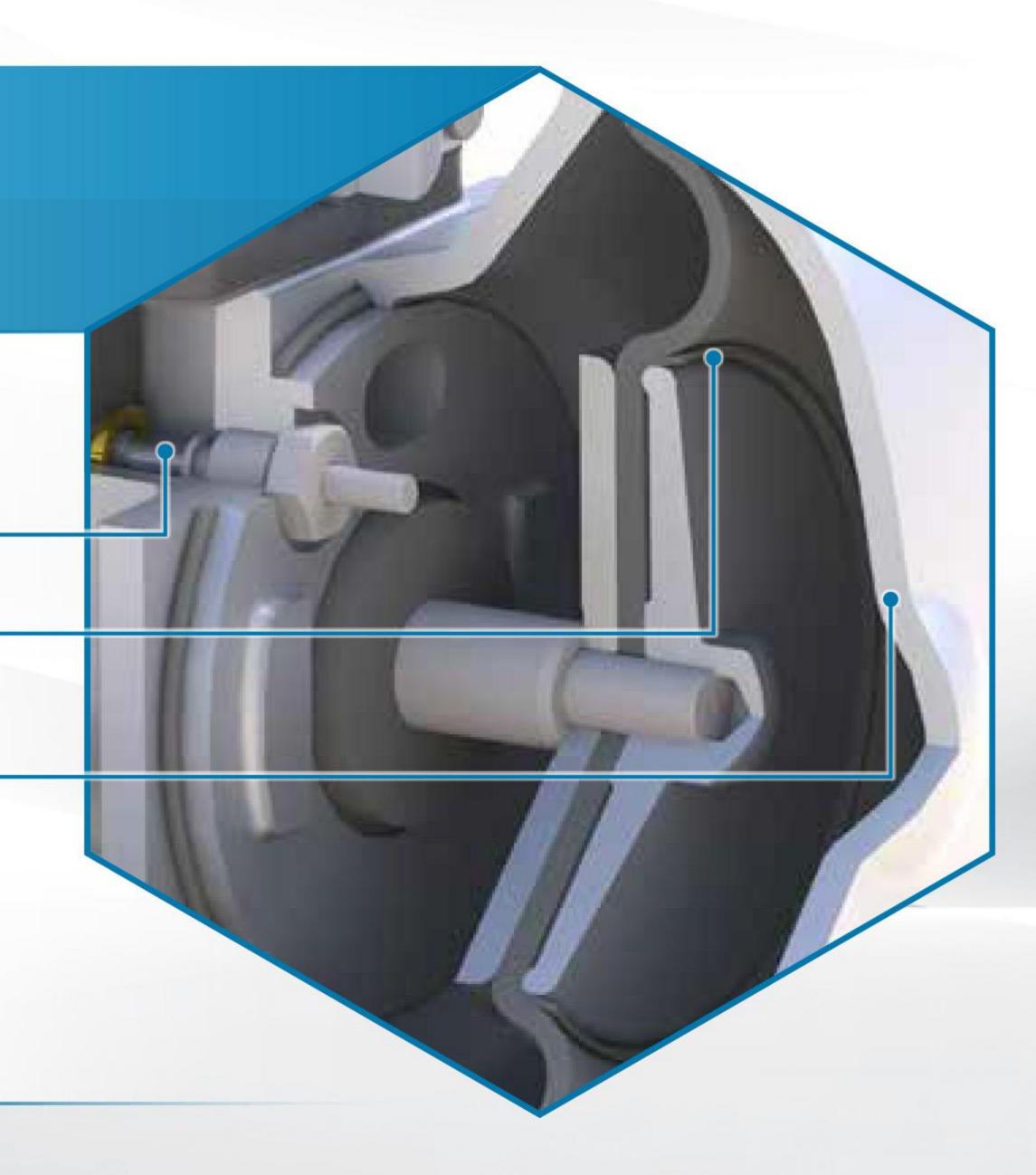
Optimized performance depending on the pumped fluid or installation requirements.

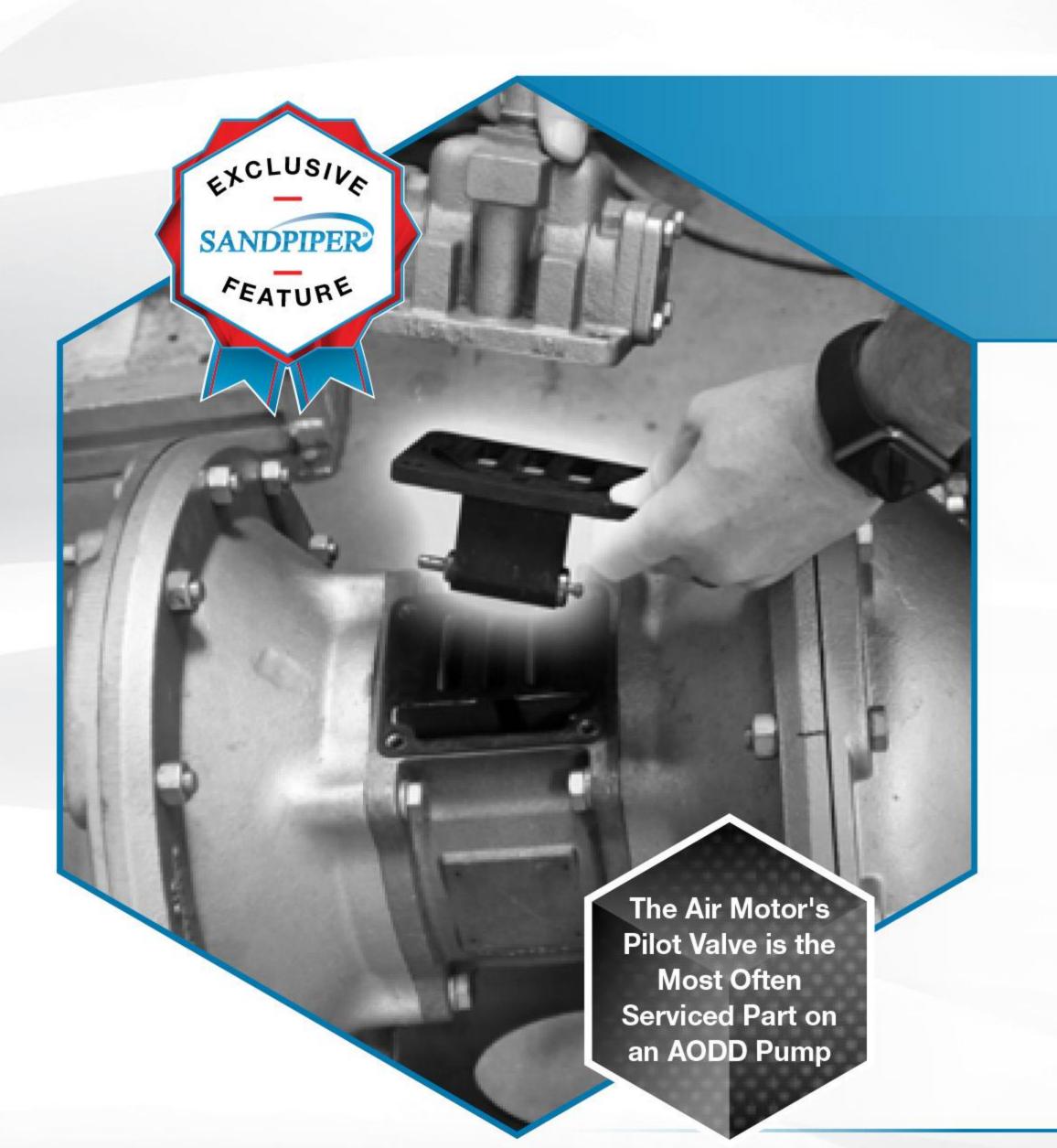
- Top Ported: For fluids containing floating solids, suspended solids, or entrained gases. The discharge port is positioned above the center of the pump for easier evacuation and less build-up of solid material or gases.
- Down Ported: For fluids containing settling solids. The discharge port is positioned below the center of the pump so solids settle in the elbow and are discharged. This helps reduce wear on the diaphragms and associated components.
- Side Ported: For use in confined spaces. The ports are positioned with the center of the pump, allowing for installation in smaller, confined spaces.

HEAVY DUTY WEAR PARTS A SANDPIPER EXCLUSIVE

SANDPIPER Heavy Duty Ball Valve Pump Features

- Heavy duty plunger bushings and actuator pins are designed to withstand severe applications
- Diaphragm wear pads are installed between the diaphragm and outer diaphragm plate, providing a secondary wear surface which extends the life of the diaphragm
- Thicker, more robust wetted castings provide extended wear resistance
- Heavy duty weighted check valve balls are 30-60% heavier than solid rubber check balls, allowing for more consistent chamber filling





SANDPIPER'S EXTERNALLY SERVICEABLE AIR DISTRIBUTION SYSTEM (ESADS+PLUS) QUICK & EASY ACCESS TO MAXIMIZE UPTIME

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

SANDPIPER



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



Saves you money by minimizing downtime

Competitor pumps require disassembly and re-assembly of many parts, requiring additional knowledge and time; leading to increased downtime and cost.



COMPETITORS



55+ MINUTES MAINTENANCE / CLEANING

The air valve components can only be accessed by removing the pump from service and taking it entirely apart



\$\$\$\$ Costs you money due to extended downtime



FEATURES & BENEFITS

EXCLUSIVE TO SANDPIPER HEAVY DUTY BALL VALVE PUMPS





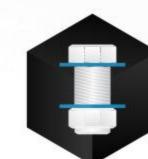
Externally Serviceable Air Distribution System

Allows for quick and easy access to the main air drive components

without disassembly of the entire pump and / or removing it from service



Cross-Drilled Directional Spool Valve Guarantees the pump will not stall and ensures on / off reliability



All Bolted Construction

Ensure sealing forces are applied evenly across the pump for leak-free operation



Heavy Duty Actuator Plungers

Ensure reliable pilot valve operation



Robust Diaphragm Connecting Rod -

Guaranteed not to bend or break; assures reliable and consistent diaphragm operation



Diaphragm Wear Pads -

Extend the life of the diaphragm by reducing the frictional stresses associated with the outer diaphragm plate during operation



Weighted Elastomeric Check Balls -

For reliable pump performance with viscous fluids



Large Flow Area

Reduces fluid velocity through pump, which often lessens wear



Thick Manifold & Chamber Walls

Greater wear resistance when pumping solids and solid laden slurries, providing extended service life



Down Porting Position



Side Porting Position
Only available in certain models





HEAVY DUTY BALL VALVE PUMPS

PERFORMANCE & SPECIFICATIONS

Whatis

OPTIMIZED PERFORMANCE

Optimized performance without sacrificing proven reliability. These pumps have undergone an engineering EVOLUTION, leveraging trusted and proven product designs to improve their performance by application of advanced engineering methods.

SPE	CIFIC	CATI	ONS

S	Z	ES

25 - 102 mm

SOLIDS HANDLING

.25 - .875" 6.3 - 22.2 mm

42 - 300 GPM 159 - 1136 LPM

FLOW

.09 - 2 gallon .34 - 7.6 liter

DISPLACEMENT

PUMP CHARACTERISTICS		Metallic
	Water	
Suspe	nded Solids	
Non-Sus	pended Solids	
Line S	Size Solids	⚠ Use Flap Value Pump
Slud	ge / Slurry	
High Viscosity	y (Flowable Fluids)	
	High	
Erosion / Abrasive Fluids	Moderate	
	Low	
Corrosion		
Permanent		
Portable		
Containment / Prevention		
Flooded Suction		
Suction Lift		
Submerged		
Intermittent / On-Demand		
Continuous		

For more detailed Performance and Specification information, please visit SANDPIPERPUMP.COM



SB1 / SB25 Metallic - Porting: Top, Side, Down





SOLIDS HANDLING MAX FLOW

Up to .25" (6.3 mm)

MAX PRESSURE DISPLACEMENT

AXILOW	MAXIIILOCOTIL	DISPLACEIVIEN
GPM (159 LPM)	125 psi (8.6 bar)	.09 gallon (.34 liter

OPTIONS				
Porting	Wet End	Elasto	omers	Air End
1" NPT / BSP Threaded	Aluminum Stainless Steel	Nitrile (Buna) Neoprene	Fluorocarbon (FKM) Hytrel®	Aluminum Cast Iron
	Alloy C	Santoprene® PTFE	EPDM	

Santoprene® is a registered tradename of Exxon Mobil Corp. Hytrel® is a registered trademark of E.I. du Pont de Nemours and Company.



HDB1½ / HDB40 Metallic - Porting: Top, Side, Down

€x> **C €**

SOLIDS HANDLING

Up to .25" (6.3 mm)

MAX FLOW 122 GPM (462 LPM)

MAX PRESSURE 125 psi (8.6 bar)

DISPLACEMENT

.37 gallon (1.4 liter)

OPTIONS Air End Elastomers Wet End Porting 11/2" NPT / BSP Threaded Fluorocarbon (FKM) Aluminum Nitrile (Buna) Aluminum Cast Iron Stainless Steel Hytrel® Neoprene **EPDM** Cast Iron Santoprene® PTFE Alloy C



2" HDB2 Metallic - Porting: Top, Down



SOLIDS HANDLING Up to .375" (9 mm)

MAX FLOW 135 GPM (511 LPM)

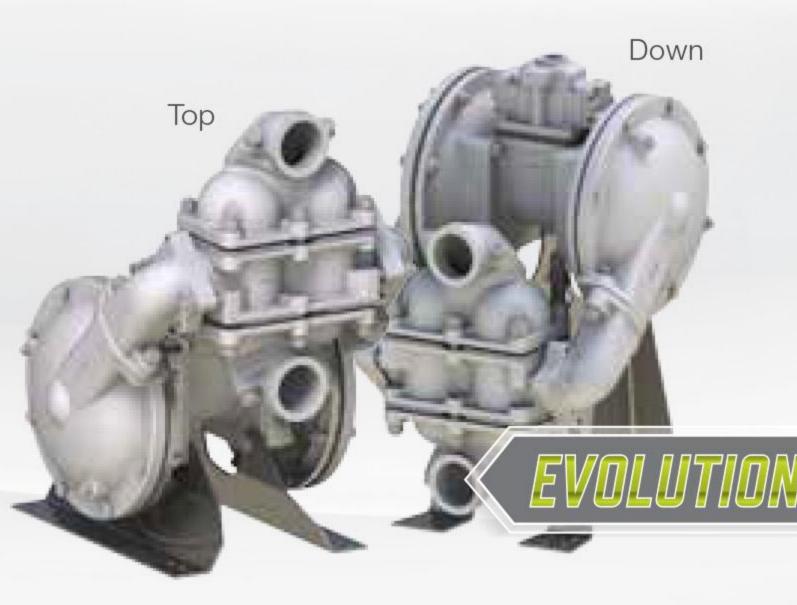
MAX PRESSURE 125 psi (8.6 bar)

DISPLACEMENT

.46 gallon (1.7 liter)

OPTIONS				
Porting	Wet End	Elasto	omers	Air End
2" NPT	Aluminum	Nitrile (Buna)	Fluorocarbon (FKM)	Aluminum
	Stainless Steel	Neoprene	Hytrel [®]	Cast Iron
	Cast Iron	Santoprene®	EPDM	
	Alloy C	PTFE		







3-4" HDB3 / HDB4 Metallic - Porting: Top, Down



SOLIDS HANDLING MAX FLOW MAX PRESSURE Up to .875" (22.2 mm)

300 GPM (1136 LPM) 125 psi (8.6 bar)

E	DISPLACEMENT
	2.0 gallon (7.6 liter)









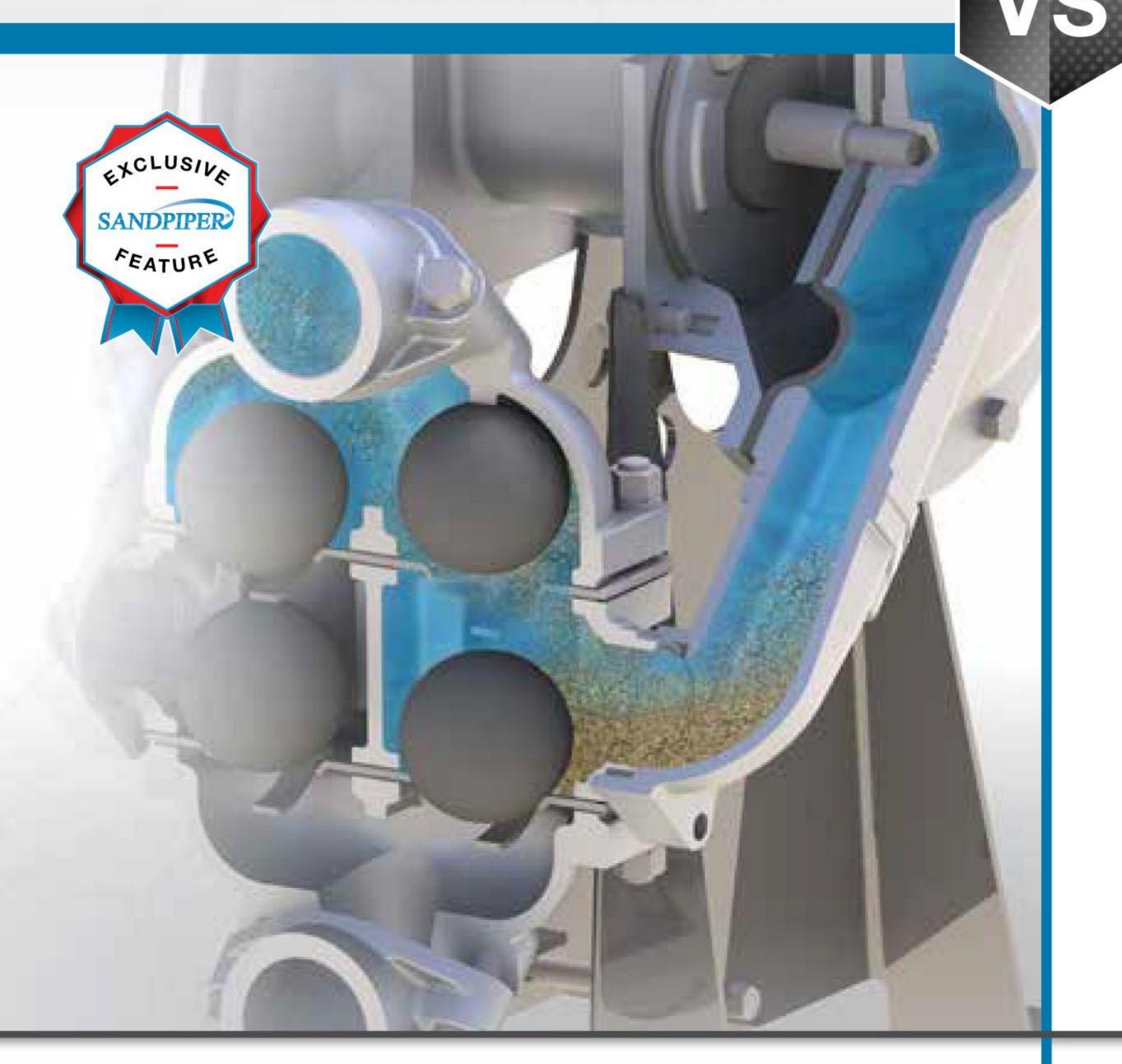
SANDPIPER'S EXCLUSIVE DOWN PORTED ADVANTAGE

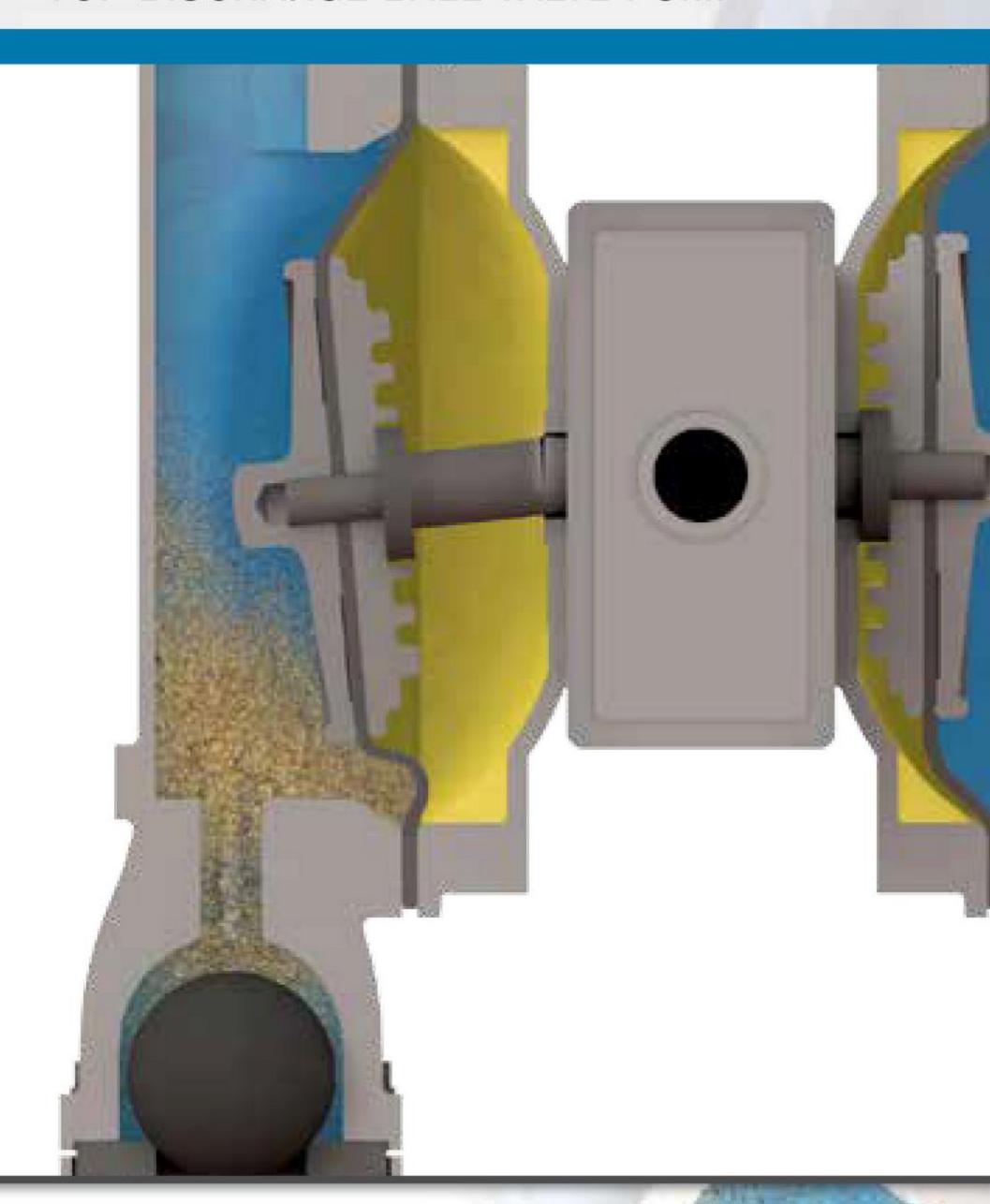
SANDPIPER

HEAVY DUTY BALL VALVE PUMP

TYPICAL

TOP DISCHARGE BALL VALVE PUMP





What happens when solids settle in the pump?

- Nothing impedes the operation of the pump
- As solids settle, they collect in the elbow instead of the diaphragm chamber and are discharged; this limits wear on the diaphragm and associated components

What happens when solids settle in the pump?

- X Bent, broken diaphragm plates
- X Non-uniform diaphragm wear
- Bent, broken diaphragm connecting rods
- Restriction on the suction side of the pump



All-Pumps Pty.Ltd. | 100 SIlverwater Road Silverwater NSW 2128 | Phone: 1300 255 786 | Fax: 02 9630 0369 | E-mail: sales@pumps.com.au allpumps.com.au

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