

# SUMP APPLICATION

## WE MOVE SOLIDS

Whether enforced by government agency, or safety concerns for employees, sumps play a vital role in production. Generally low in priority when talking pumping technology in a production plant, sumps are a must when capturing liquids and materials. This can be precipitation, chemical leaks, process runoff as well as solids including, leaves, bugs and rocks. Due to the visibility of sumps on site and potential for significant fines if not properly utilized, this can quickly become a high value area of focus.



### SOLIDS REMOVAL INCLUDES:

- Leaves
- Trash
- Rocks
- Nuts & Bolts
- Sand
- Solids
- Sludge
- Plastics

### MEETS YOUR REQUIREMENTS

- Cost effective rebuild options
- On-Off-On reliability – Intermittent use
- Solids handling - Sand, Water, Leaves and Debris
- Increased mean time between failure

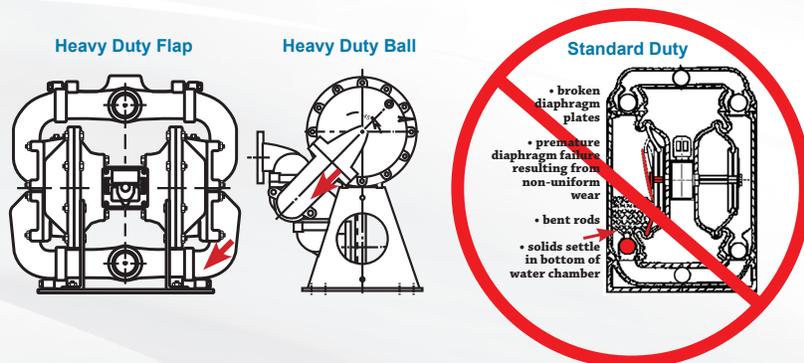
### SOLUTION

#### SANDPIPER Heavy Duty Pumps

- Solids handling capability to 3" soft solids
- Gravity assisted self-draining design
- Self-priming up to 24'
- Groundable design with ATEX compliance
- All bolted, robust design with thick external castings

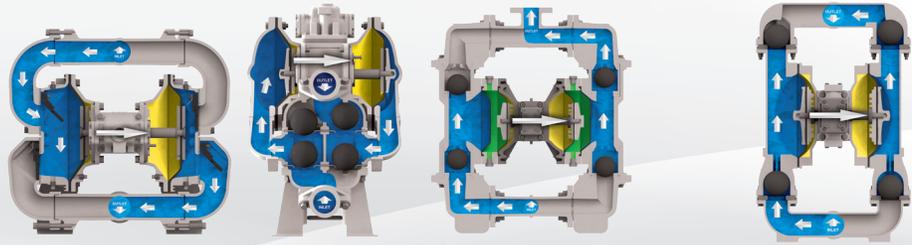
### BOTTOM DISCHARGE PORTING

Eliminate the damage from settling solids in your pump with the exclusive bottom discharge arrangement.



# Sump Pump Selection Guide

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



SIGNATURE CONFIGURATIONS		Heavy Duty Flap Valve	Heavy Duty Ball Valve	Containment Duty Ball Valve	Standard Duty Ball Valve - Metallic	Standard Duty Ball Valve - Non-Metallic	
Specifications	Suction / Discharge Port Sizes	1" through 4"	1" through 4"	1" through 3"	¼" through 3"	¼" through 3"	
	Max Flow Rate Per Minute	310 Gal. (1173 L)	300 Gal. (1136 L)	260 Gal. (988 L)	285 Gal. (1079 L)	280 Gal. (1060 L)	
	Max Discharge Heads	289' (88m) of water @125psi	231' (70m) of water @100psi				
	Max Displacement Per Stroke	1.62 Gal. (6.15 L)	1.8 Gal. (6.8 L)	1.25 Gal. (4.73 L)	0.94 Gal. (3.56 L)	0.9 Gal. (3.41 L)	
	Max Dry Prime	24' (7m)	20' (6m)	18' (5.5m)	20' (6m)	20' (6m)	
	Max Solids Handling	3" (75mm)	.88" (22mm)	.44" (10mm)	.38" (10mm)	.71" (18mm)	
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  
 ✗ = Not Recommended