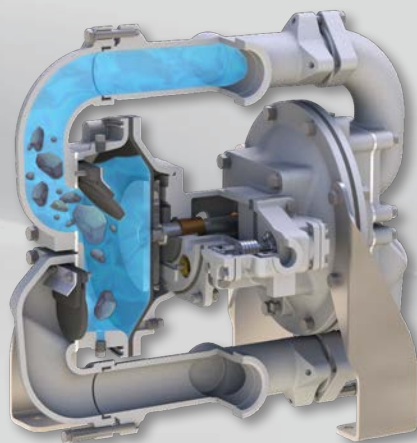


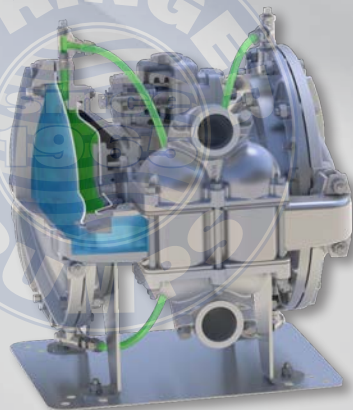
# AODD PUMPS FOR YOUR MOST SEVERE APPLICATIONS



**HEAVY DUTY  
FLAP VALVE PUMP**



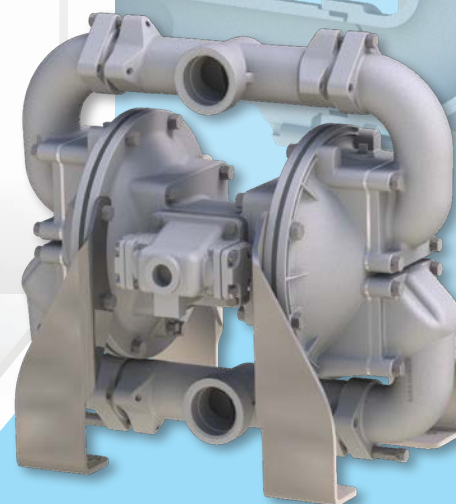
**HEAVY DUTY  
BALL VALVE PUMP**



**CONTAINMENT DUTY  
BALL VALVE PUMP**



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ENSURES YOUR  
SUCCESS



SANDPIPER Signature Series™ AODD pumps are engineered to deliver industry leading durability and performance, even for your most severe applications and environments.



**ROBUST DIAPHRAGM  
CONNECTING ROD**

Guaranteed not to yield under tension, compression, or bending



**5 YEAR LIMITED  
PRODUCT WARRANTY**  
5 Year Guarantee for defects in material or workmanship

**Heavy Duty  
Flap Valve**

For fluids containing up to line size solids.





## Heavy Duty Ball Valve

For fluids containing settling,  
suspended & floating solids.

MORE AT: [SANDPIPERPUMP.COM/SIGNATURE-SERIES](http://SANDPIPERPUMP.COM/SIGNATURE-SERIES)



## Containment Duty Ball Valve

The only complete line of AODD  
pumps featuring superior fluid  
containment; protecting your  
people, environment and pump.

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# HEAVY DUTY FLAP VALVE PU

FOR FLUIDS CONTAINING UP TO LINE SIZE SOLIDS

## TECH SPECS:

**SIZES:** 1 - 4" (25 - 102 mm) **FLOW:** 70 - 310 GPM (265 - 1173 LPM)

**SOLIDS HANDLING:** 1 - 3" (25 - 76 mm) **DISPLACEMENT:** .1 - 1.6 gallons (.38 - 6.06 liters)

**CONSTRUCTION:** Aluminum, Cast Iron, Stainless Steel, Polypropylene

**ELASTOMERS:** (Diaphragms & Flaps) Nitrile, Neoprene, Hytrel®, Santoprene®, Fluorocarbon, EPDM, Urethane

## PUMPS UP TO LINE SIZE SOLIDS

Flap Valve construction has a larger flow area than Ball Valve pumps and allows up to line size solids to pass directly through the pump.

## BOTTOM DISCHARGE PORTING

Allows settling solids to pass through the pump and not settle inside the pumping chamber, preventing damage and premature wear.

## SUPERIOR SUCTION LIFT

Dry prime suction lift up to 24 feet, in water; which is 5% greater than typical Ball Valve pumps.

## EASIEST AODD PUMP TO MAINTAIN

Quick access to serviceable components to help increase productivity and reduce downtime.

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



### Diaphragm Wear Pads

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



### Thick Manifold and Chamber Walls

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



### ESADS+Plus Air Distribution System

Allows for quick and easy access to the main air valve components without removing it from service



### All Bolted Construction

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

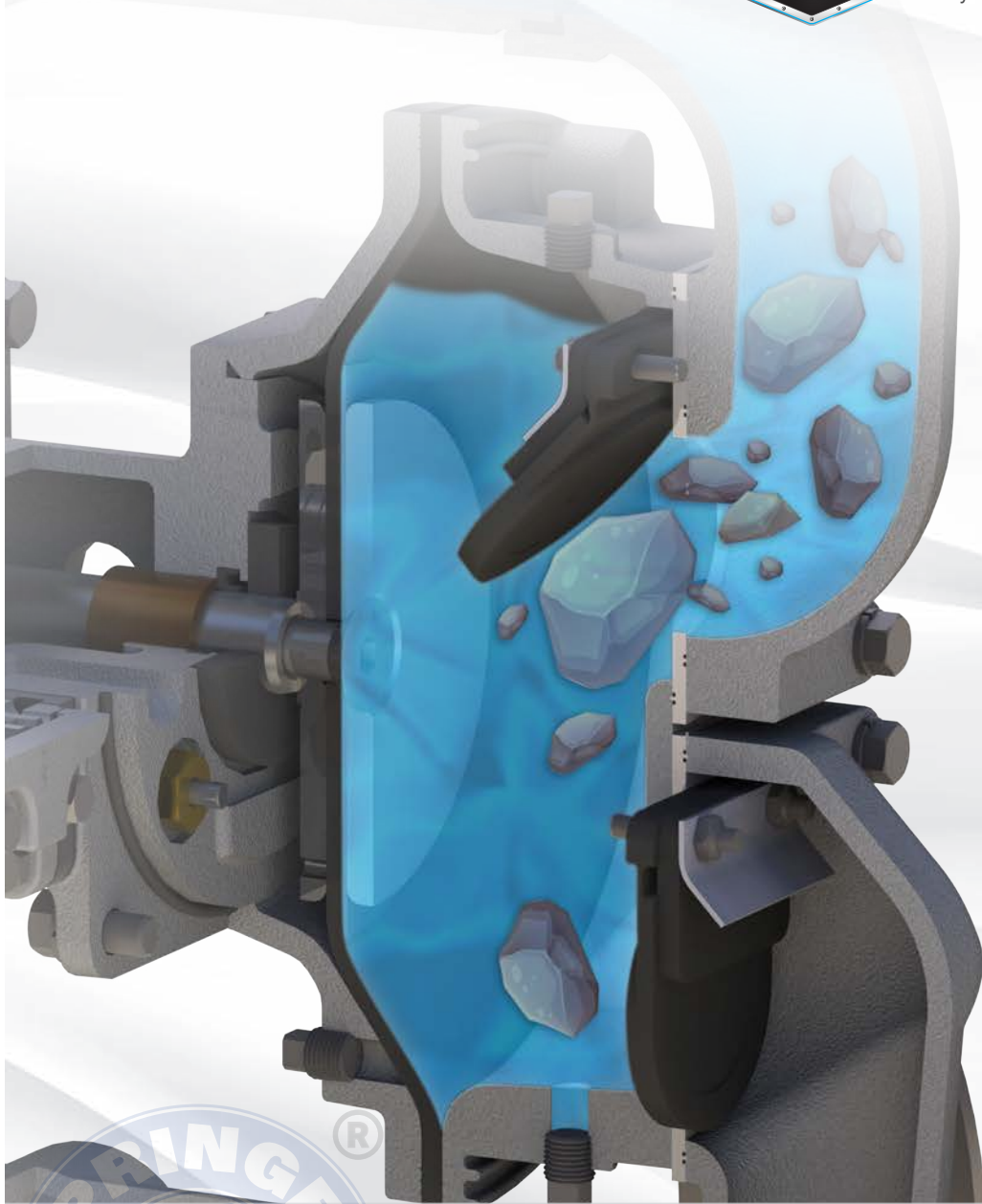
# MPS



## OUR SIGNATURE ENSURES YOUR SUCCESS

Industry leading durability and performance  
for your most severe applications

HD FLAP



APPLICATIONS		
FLUID CHARACTERISTICS	Water	✓
	Suspended Solids	✓
	Non-Suspended Solids	✓
	Line Size Solids	✓
	Sludge/Slurry	✓
	High Viscosity (Flowable Fluids)	✓
	Erosion/ Abrasive Fluids	High ✓
		Mod. ✓
		Low ✓
	Corrosion	✓
INSTALLATION	Permanent	✓
	Portable	✓
	Containment/ Prevention	!
	Flooded Suction	✓
	Suction Lift	✓
	Submerged	✓
DUTY	Intermittent/ On-Demand	✓
	Continuous	✓

✓ = Best    ✓ = Suited    != Limitations

⚠ = Use listed pump



### Robust Diaphragm Connecting Rod

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



### Cross-Drilled Directional Spool Valve

Guarantees the pump will not stall and ensures on / off reliability



### Heavy Duty Actuator Plungers

Ensures reliable pilot valve operation



### Stainless Steel Check Valve Seats

Provide long-lasting abrasion resistance and solids handling durability

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# HEAVY DUTY BALL VALVE PU

FOR FLUIDS CONTAINING SETTLING, SUSPENDED & FLOATING SOLIDS

## TECH SPECS:

**SIZES:** 1 - 4" (25 - 102 mm) **FLOW:** 42 - 300 GPM (159 - 1136 LPM)

**SOLIDS HANDLING:** .25 - .875" (6 - 22 mm) **DISPLACEMENT:** .9 - 2.0 gallons (.34 - 7.6 liters)

**CONSTRUCTION:** Aluminum, Cast Iron, Stainless Steel, Alloy C

**ELASTOMERS:** (Diaphragms, Check Balls, Seats) Nitrile, Neoprene, Santoprene®, PTFE, Fluorocarbon, Hytrel®, EPDM

## DOWN PORTED OPTION

For fluids containing settling solids. Solids collect in the elbow instead of the diaphragm chamber and are discharged, limiting wear on the diaphragm and components.

## TOP PORTED OPTION

For fluids containing floating solids, suspended solids, or entrained gases. Discharge port is on top of the pump for easier evacuation and less build-up of solid material or gases.

## SIDE PORTED OPTION (1" & 1-1/2" ONLY)

For use in confined spaces. The ports are positioned with the center of the pump, allowing for installation in small or confined spaces.

## WEIGHTED CHECK VALVE BALLS

Feature a metallic core that is 30-60% heavier than a solid rubber check ball, helping to improve performance with viscous fluids.



### Diaphragm Wear Pads

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



### Thick Manifold and Chamber Walls

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



### ESADS+Plus Air Distribution System

Allows for quick and easy access to the main air valve components without removing it from service



### All Bolted Construction

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



# MPS



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APPLICATIONS		
FLUID CHARACTERISTICS	Water	✓
	Suspended Solids	✓
	Non-Suspended Solids	✓
	Line Size Solids	⚠ HD FLAP
	Sludge/Slurry	✓
	High Viscosity (Flowable Fluids)	✓
	Erosion/ Abrasive Fluids	High ✓
		Mod. ✓
		Low ✓
	Corrosion	✓
INSTALLATION	Permanent	✓
	Portable	✓
	Containment/ Prevention	!
	Flooded Suction	✓
	Suction Lift	✓
	Submerged	✓
DUTY	Intermittent/ On-Demand	✓
	Continuous	✓

✓ = Best   ✓ = Suited   ! = Limitations  
⚠ = Use listed pump

HDBALL



**Robust Diaphragm Connecting Rod**  
Guaranteed not to bend or break; assures reliable and consistent diaphragm operation



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



**Heavy Duty Actuator Plungers**  
Ensures reliable pilot valve operation



**Large Flow Area**  
Reduces fluid velocity through pump, which often lessens wear

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# CONTAINMENT DUTY BALL V

THE ONLY COMPLETE LINE OF AODD PUMPS FEATURING SUPERIOR FLUID CONTAINMENT; PROTECTING YOUR PEO

## TECH SPECS:

**SIZES:** 1 - 3" (25 - 76 mm) **FLOW:** 42 - 238 GPM (159 - 901 LPM)

**SOLIDS HANDLING:** .25 - .71" (6 - 18 mm) **DISPLACEMENT:** .09 - .9 gallon (.34 - 3.4 liters)

**CONSTRUCTION:** Aluminum, Cast Iron, Polypropylene, PVDF

**ELASTOMERS:** (Diaphragms, Check Valves, Seats) PTFE, Neoprene, Fluorocarbon, Santoprene®

## NO LOST SYSTEM FLUID

Perfect for pumping fluids that are dangerous to your people or the environment. Makes repairs easy, as the Air Side of the pump does not get contaminated.

## NO COSTLY CLEANUP

When a typical AODD pump has a diaphragm breach, the system fluid passes through the Air Side of the pump and out into the environment. Clean-up is expensive and time consuming.

## 2 DIAPHRAGMS ARE BETTER THAN 1

Features two diaphragms. The space between the diaphragms creates a barrier between the Air Side and Wet Side of the pump, preventing escape of the fluid to the environment when the pumping diaphragm becomes breached.

## VISUAL LEAK DETECTION

Alerts the user when there is a diaphragm breach before any of the system fluid can escape to the environment. Also available with electronic and mechanical leak detectors.



### Pumping Diaphragm

Stays in contact with the fluid and moves it through the system



### Driver Diaphragm

Stays in contact with the Air Side of the pump and is hydraulically locked to the Pumping Diaphragm



### Containment Chamber

Area between the two diaphragms, creating a barrier between the Air Side and Wet Side



### ESADS+Plus Air Distribution System

Allows for quick and easy access to the main air valve components without removing it from service



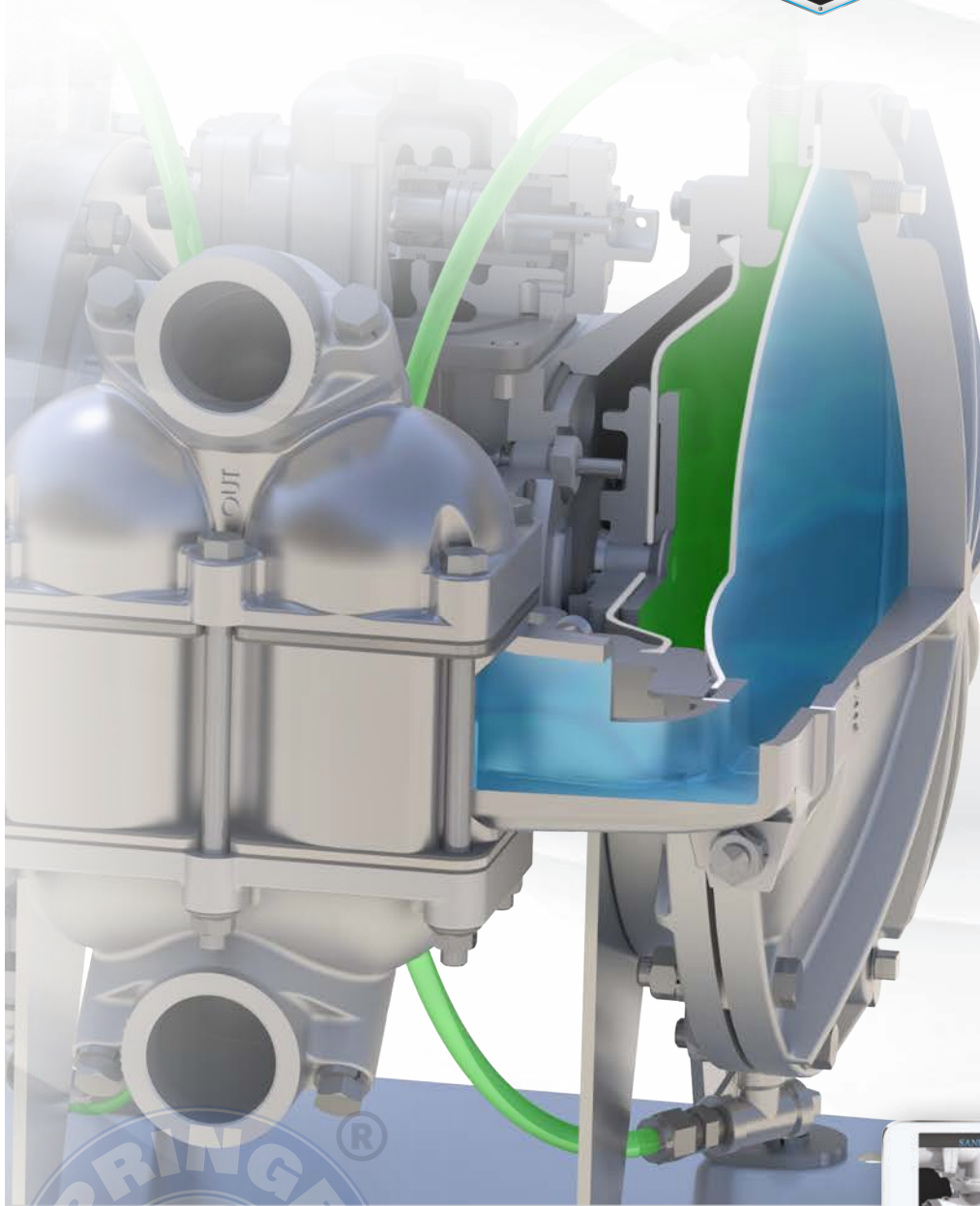
# ALVE PUMPS

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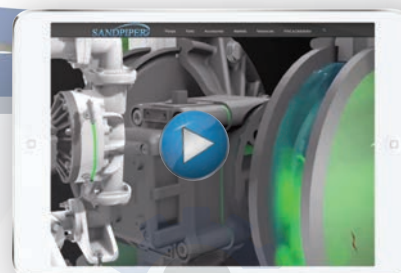
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for your most severe applications



APPLICATIONS		
FLUID CHARACTERISTICS	Water	✓
	Suspended Solids	✓
	Non-Suspended Solids	⚠ NOT RECOMMENDED
	Line Size Solids	⚠ NOT RECOMMENDED
	Sludge/Slurry	!
	High Viscosity (Flowable Fluids)	✓
	Erosion/Abrasive Fluids	High !
		Mod. !
		Low ✓
	Corrosion	✓
INSTALLATION	Permanent	✓
	Portable	✓
	Containment/Prevention	✓
	Flooded Suction	✓
	Suction Lift	✓
	Submerged	!
DUTY	Intermittent/On-Demand	✓
	Continuous	✓

✓ = Best   ✓ = Suited   ! = Limitations  
⚠ = Use listed pump



**WATCH THE VIDEO TO LEARN MORE:**  
[SANDPIPERPUMP.COM/CONTAINMENT](http://SANDPIPERPUMP.COM/CONTAINMENT)



## Robust Diaphragm Connecting Rod

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



## Cross-Drilled Directional Spool Valve

Guarantees the pump will not stall and ensures on / off reliability

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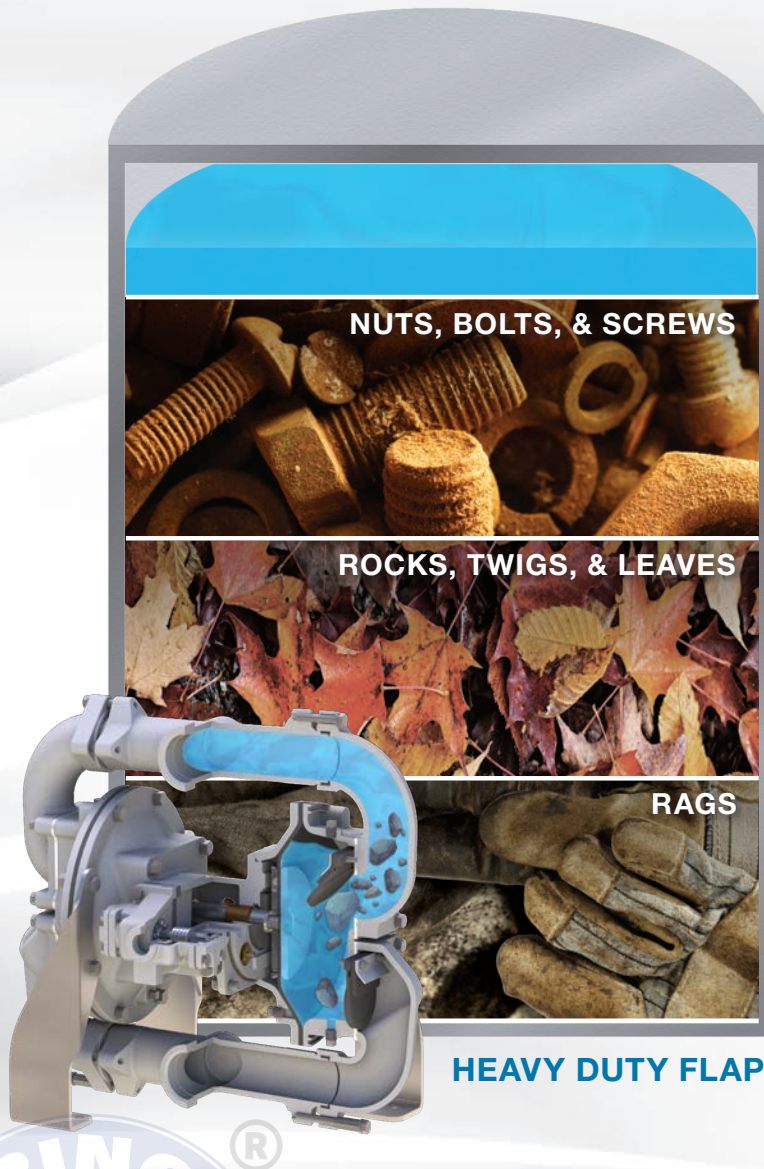
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## SANDPIPER SIGNATURE SERIES™: DESIGNED TO PROVIDE SUPE

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- Filter Press
- Slurries
- Rendering
- Wastewater
- Pulp
- Ceramic Slip

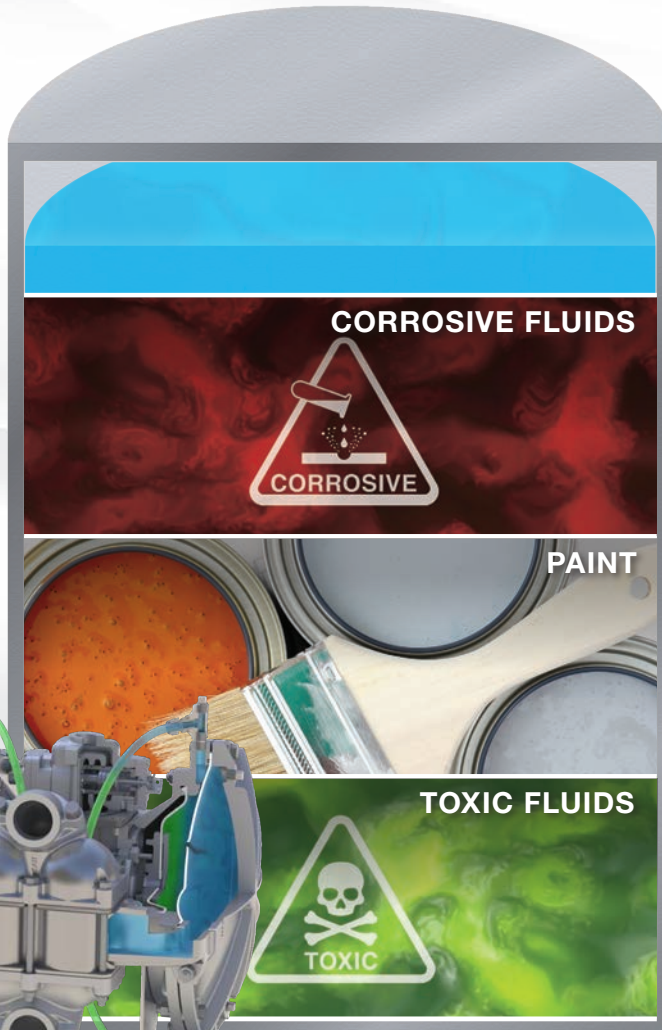


# CT PUMP?

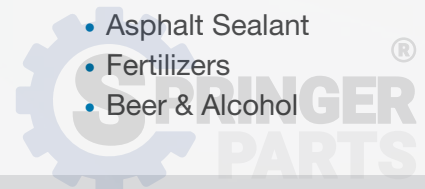
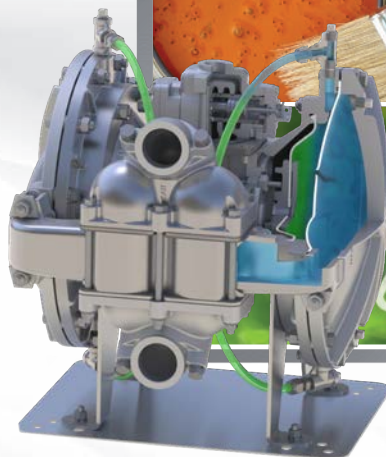
CONDITIONS



**HEAVY DUTY BALL**



**CONTAINMENT DUTY**



**BETTER PERFORMANCE WHERE OTHER AODD PUMPS FAIL**

- Paints
- Glues
- Resins
- Food
- Chemicals
- Hydrocarbons
- Animal Fats
- Varnish
- Latex Lotions

- Asphalt Sealant
- Fertilizers
- Beer & Alcohol

DESIGNED WITH MORE WAYS THAN ONE

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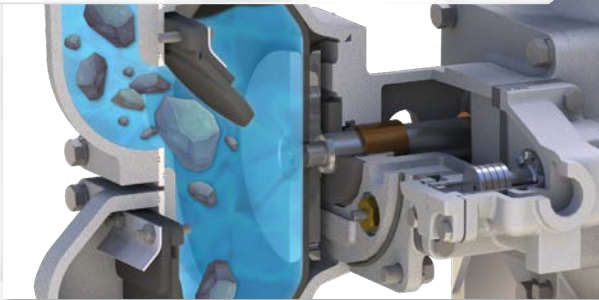
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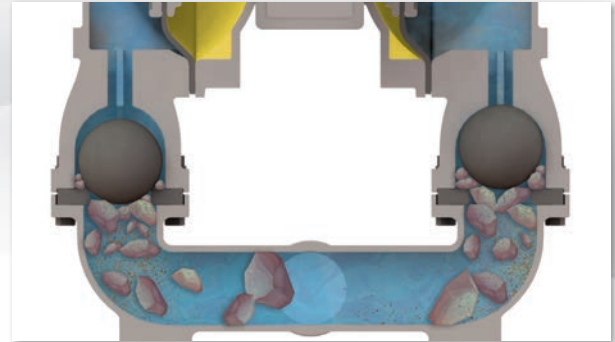


# SANDPIPER VS COMPETITION

## HEAVY DUTY FLAP VALVE PUMP

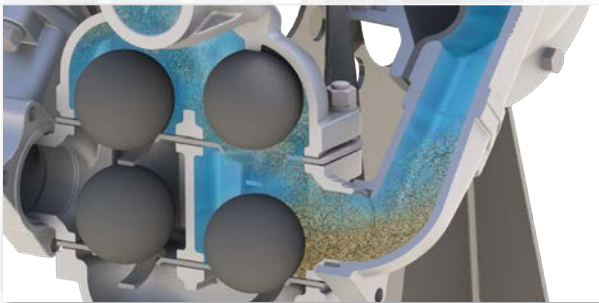


Large solids easily pass through pump

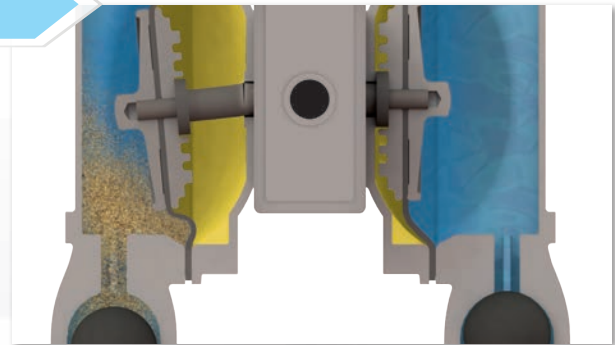


Large solids cannot pass through pump, affecting operation

## HEAVY DUTY BALL VALVE PUMP

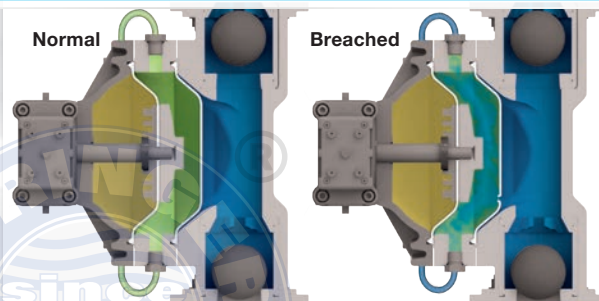


Settling solids easily pass through pump

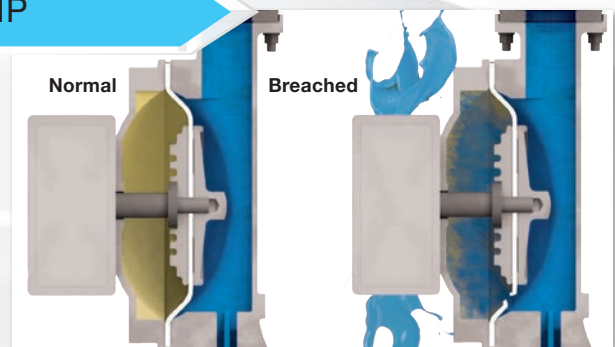


Settling solids collect inside pump, causing damage & affecting operation

## CONTAINMENT DUTY BALL VALVE PUMP



Contains fluid when diaphragm becomes breached



Fluid escapes to environment when diaphragm becomes breached.

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