

FOCUS MARKET: **CHEMICAL INDUSTRY SUMPS**





SUMP CHARACTERISTICS

- **All liquids/materials must be contained to be pumped to wastewater treatment**
 - Precipitation events
 - Chemical leaks, spills & overflow
 - Chemical & process water runoff
- **Highly regulated & monitored**
- **High Visibility + High Risk = High Value**

SANDPIPER ADVANTAGE

- **Solids Handling**
 - Solids handling capability to 3" solids.
 - Gravity assisted self draining designs.
- **Suction Lift**
 - Self Priming Pump Design up to 24'
- **Heavy Duty**
 - Sealless Diaphragm technology.
 - Heavy duty wear resistant cast parts.
 - Chemical compatibility
 - Safe groundable design (ATEX compliant).
 - Easy to Maintain while pump is installed through ESADS+PLUS.
 - All bolted Construction insures leak free operation.
 - Diaphragm Wear pads extend diaphragm life.
 - Run dry design is very forgiving to operator error.
 - Simple in-house maintenance.



HEAVY DUTY FEATURES & BENEFITS

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

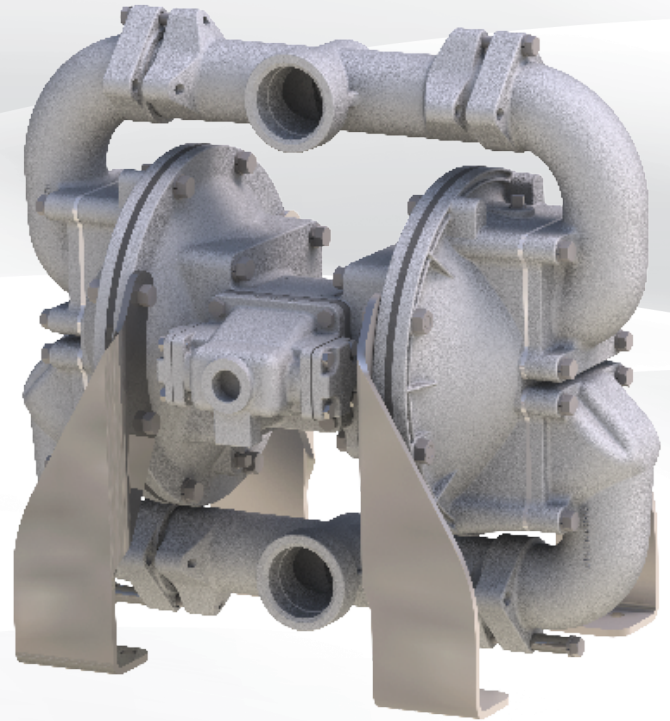
Allows settling solids to pass through the pump and not settle inside the pumping chamber, preventing damage and premature wear.

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.



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

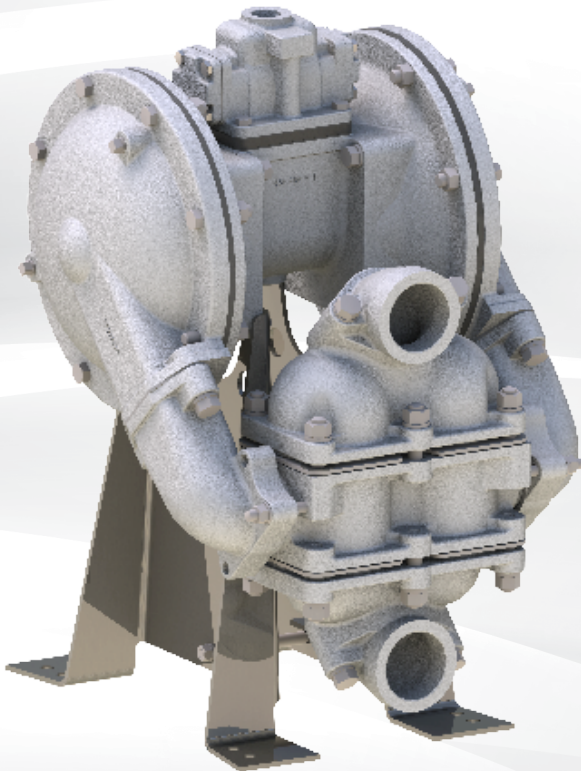
For fluids containing floating solids, suspended solids, or entrained gases. Discharge port is on top of the pump for easier evacuation and less build-up of solid material or gases.

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.



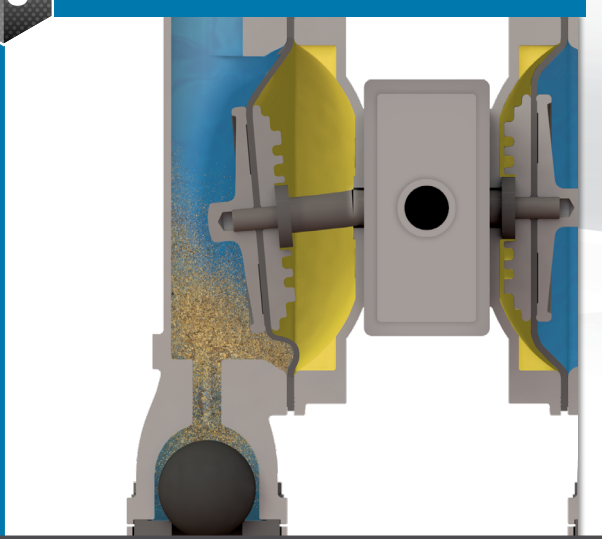


HEAVY DUTY VS TYPICAL

SANDPIPER HEAVY DUTY BALL VALVE PUMP

VS

TYPICAL TOP DISCHARGE BALL VALVE PUMP



What happens when solids settle in the pump?

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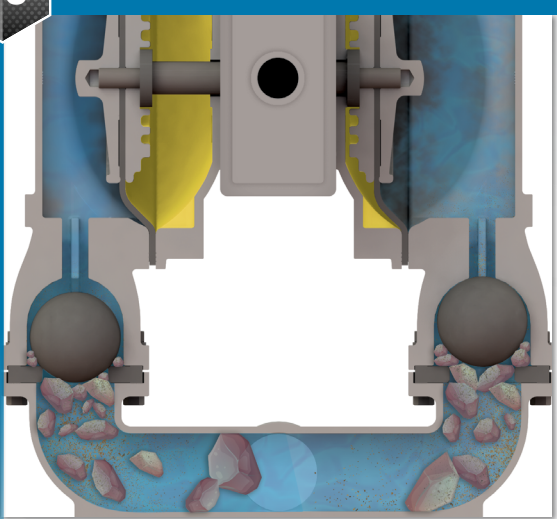
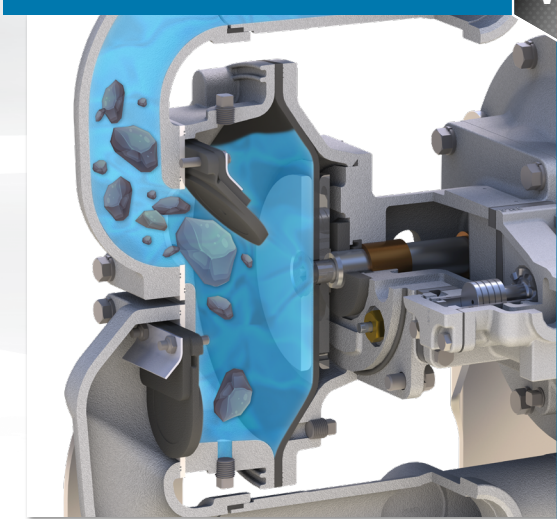
- 3 Nothing impedes the operation of the pump
- 3 As solids settle, they collect in the elbow instead of the diaphragm chamber and are discharged; this limits wear on the diaphragm and associated components

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

SANDPIPER HEAVY DUTY FLAP VALVE PUMP

VS

TYPICAL TOP DISCHARGE BALL VALVE PUMP



Large Solids Easily Pass Through The Pump

Large Solids Cannot Pass Through The Pump Affecting Operation

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