AODD PUMPS FOR YOUR MOST SEVERE APPLICATIONS

HEAVY DUTY FLAP VALVE PUMP

HEAVY DUTY BALL VALVE PUMP

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

Heavy Duty Flap Valve
For fluids containing up to line size solids.

Heavy Duty Ball Valve
For fluids containing settling, suspended & floating solids.

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

LEARN MORE AT: SANDPIERPUMP.COM/SIGNATURE-SERIES
HEAVY DUTY FLAP VALVE PUMPS
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.

APPLICATIONS

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= Best = Suited = Limitations

Use listed pump

ESADS+Plus Air Distribution System
Allows for quick and easy access to the main air valve components without removing it from service

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

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

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
HEAVY DUTY BALL VALVE PUMPS
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.

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Heavy Duty Actuator Plungers
Ensures reliable pilot valve operation

Large Flow Area
Reduces fluid velocity in the high pump, which often lessens wear

INSTALLATION
Permanent
Portable
Containment/Prevention
Flooded Suction
Suction Lift
Submerged
Intermittent/On-Demand
Continuous

APPLICATIONS
Water
Suspended Solids
Non-Suspended Solids
Line Size Solids
Sludge/Slurry
High Viscosity (Flowable Fluids)
Erosion/Abrasive Fluids
High Mod.
Low
Corrosion
Permanent
Portable
Containment/Prevention
Flooded Suction
Suction Lift
Submerged
Intermittent/On-Demand
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NOTES
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✓ = Limitations
✓ = Use listed pump

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CONTAINMENT DUTY BALL VALVE PUMPS
THE ONLY COMPLETE LINE OF AODD PUMPS FEATURING SUPERIOR FLUID CONTAINMENT; PROTECTING YOUR PEOPLE, ENVIRONMENT & PUMP

TECH SPECS:
SIZES: 1 - 3" (25 - 76 mm)  FLOW: 42 - 238 GPM (159 - 901 LPM)
SOLIDS HANDLING: 25 - .71” (6 - 18 mm)  DISPLACEMENT: 0.09 - 9 gallon (.34 - 3.4 liters)
CONSTRUCTION: Aluminum, Cast Iron, Polypropylene, PVDF
ELASTOMERS: [Diaphragms, Check Valves, Seals] 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
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Robust Diaphragm Connecting Rod
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APPLICATIONS

WATER
SUSPENDED SOLIDS
NON-SUSPENDED SOLIDS
LINE SIZE SOLIDS
SLUDGE/SLURRY
HIGH VISCOSETY (FLOWABLE FLUIDS)
EROSION/ABRASIVE FLUIDS
HIGH MOD.
LOW MOD.
CORROSION

INSTALLATION

PERMANENT
PORTABLE
CONTAINMENT/PREVENTION
FLOODED SUCTION
SUBMERGED
INTERMITTENT/DI-DEMAND
CONTINUOUS

MATERIALS

ALUMINUM
CAST IRON
POLYPROPYLENE
PVDF

ELASTOMERS

PTFE, NEOPRENE, FLUOROCARBON, SANTOPRENE®

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WATCH THE VIDEO TO LEARN MORE:
SANDPIPERPUMP.COM/CONTAINMENT
ARE YOU USING THE CORRECT PUMP?
SANDPIPER SIGNATURE SERIES™ - THE ONLY AODD PUMPS DESIGNED TO OPERATE UNDER THE MOST SEVERE CONDITIONS

SANDPIPER SIGNATURE SERIES™: DESIGNED TO PROVIDE SUPERIOR PERFORMANCE WHERE OTHER AODD PUMPS FAIL

- Industrial Sumps
- Mine Dewatering
- Mud Transfer
- Filter Press
- Slurries
- Rendering
- Wastewater
- Pulp
- Ceramic Slip
- Paints
- Glues
- Resins
- Food
- Chemicals
- Hydrocarbons
- Animal Fats
- Varnish
- Latex Lotions
- Asphalt Sealant
- Fertilizers
- Beer & Alcohol
**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**
- Normal: Contains fluid when diaphragm becomes breached
- Breached: Fluid escapes to environment when diaphragm becomes breached.

Contact Your Local Distributor to Place Your Order: