

SANDPIPER CONTAINMENT DUTY PUMPS

Spills result in millions of dollars in fines every year globally. In 2019, the United States Environment Protection Agency (EPA) assessed over \$360 million in penalties.* Enforcement case citations range from thousands to millions of dollars in fines. Add on the additional cleanup fees and lost down time, and the incorrect selection of a seemingly minor pumping technology can cost a company millions of dollars in direct and indirect costs. Some of these costs include downtime, lost production, manpower, equipment replacement, disposal fees and fines.

SANDPIPER Containment Duty pumps are ideal for critical applications where environment safety is paramount. Designed to mitigate a potential spill, the Containment Duty pumps utilize a unique technology to indicate when a diaphragm has been breached.

- **Protect** the environment
- **Contain** expensive fluids
- **Reduce** clean up when a diaphragm is breached
- **Prevent** instrument air from entering pumped fluid
- **Secure** the safety of surrounding personnel

High Cost of Lost Fluid

When these fluids escape into the environment, the cost of losing them is significant. Lost fluid = lost profit. Ideal for applications and markets including:

- Paints, inks and coatings
- Fertilizers
- Adhesives and sealants
- Acids, caustics and corrosives
- Precious metal-based fluids
- Wastewater
- Chemicals
- Oils, Condensate & NGL's
- Nuclear
- Explosives
- Drugs & pharmaceuticals
- Food & Beverage
- Cosmetics, Perfumes & Lotions
- Mercury

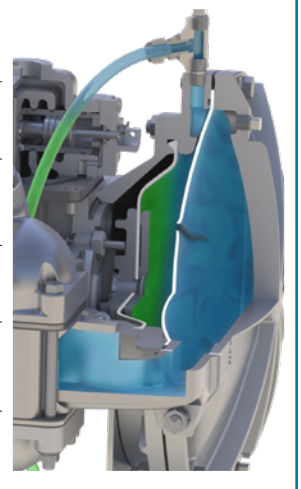
Typical AODD Pump vs. Containment Duty Pump

When the pumping diaphragm is breached, the fluid enters the air distribution system and escapes into the environment through the muffler, requiring immediate service. This results in:

When the pumping diaphragm is breached, the fluid enters the containment chamber and visual indicator sight tubes, alerting the user. The fluid is fully contained so the pump can continue running until the operation is complete or maintenance can be scheduled.



Safety & Environmental Hazards		NO Safety & Environmental Hazards
Costly Clean-up & Maintenance		NO Costly Clean-up & Maintenance
Interruption of Operations		NO Interruption of Operations
Loss of System Fluid		NO Loss of System fluid
Extended Downtime		NO Extended Downtime
Potential for Product / Process Contamination from Air Supply		NO Product / Process Contamination from Air Supply



Containment Chamber
The area between the pumping and driver diaphragms that contains the fill fluid; This creates a barrier between the fluid and the air distribution system / environment

Leak Detection
Alerts the user of a breach in the pumping diaphragm when equipped with visual, electronic, or mechanical leak detectors

Fill Fluid
A compatible liquid that hydraulically couples the pumping and driver diaphragms, allowing them to operate in tandem

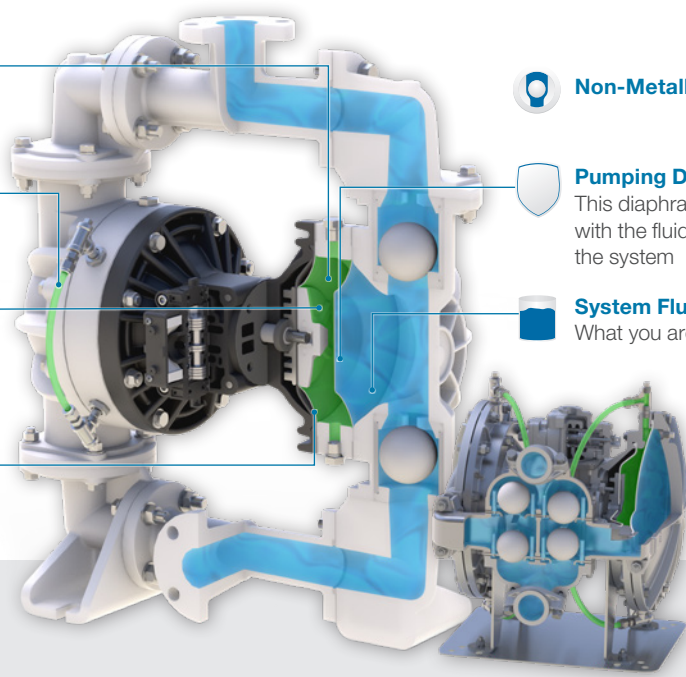
Driver Diaphragm
This diaphragm stays in contact with the fill fluid and drives the pump

Non-Metallic

Pumping Diaphragm
This diaphragm stays in contact with the fluid and moves it through the system

System Fluid
What you are pumping

Metallic



Watch how SANDPIPER Containment Duty Pumps Work at www.SANDPIPERpump.com

FAQS

Q-What is a "Containment Duty Pump?"

A- SANDPIPER Containment Duty Pumps offers an additional layer of protection preventing spills in the event of diaphragm failure. Containment Duty also prevents instrument air from entering the fluid side.

Q-How does it work?

A- By utilizing an extra set of diaphragms to create a barrier chamber. When the diaphragm ruptures the color of the sight tube changes on the side of failure. You can finish the batch, isolate the pump, and make the necessary repairs.

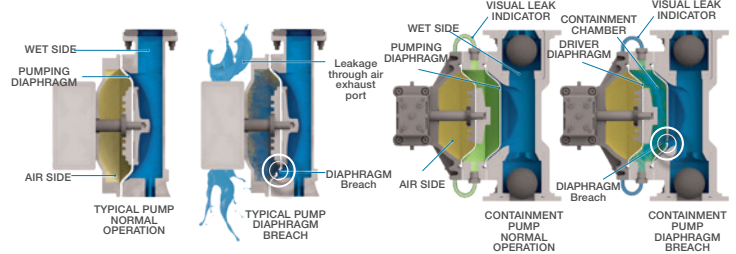
Q-How do I know my pump failed?

A- While the visual leak detection is the most common, there are instances where the pump is installed in an area that cannot be readily accessed. SANDPIPER offers both mechanical leak detection and a electronic versions. Both can be connected to a light, horn or PLC.

Q-What fluid can be used in the containment chambers?

A- From the factory it is filled with either Deionized Water or Glycol but any fluid compatible with the product and materials of construction can be used.

Typical AODD Pump vs. Containment Duty Pump



*www.epa.gov/sites/production/files/2020-02/documents/fy19-enforcement-annual-results-data-graphs.pdf



Warren Rupp, Inc.
A Unit of IDEX Corporation
800 North Main Street
Mansfield, OH 44902 USA

Phone: 419.524.8388
Fax: 419.522.7867
SANDPIPERPUMP.COM



©Copyright 2020 Warren Rupp, Inc. All Rights Reserved.

Contact Your Local Distributor to Place Your Order: