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


## 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
Costly Clean-up \& Maintenance

| Interruption of Operations |
| :--- |
| Loss of System Fluid |
| Extended Downtime |
| Potential for Product / Process <br> 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


## Pumping Diaphragm

This diaphragm stays in contact with the fluid and moves it though the system

System Fluid
What you are pumping


## 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

## SANDPIPER

Contact Your Local Distributor to Place Your Order:

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