



# Industrial Plant Wastewater Case Study

---

SANDPIPER HDF Pumps For DAF Sludge Transfer





**Company Profile:** An Industrial manufacturing company with multiple plant locations globally. This company was one of the first to institute Dissolved Air Floatation (DAF) systems in their facilities to lessen the burden on municipal wastewater treatment plants.

**Industry:** Food & Beverage, Meat Packing, Oil Refineries, Chemical Plants, Paper Mills

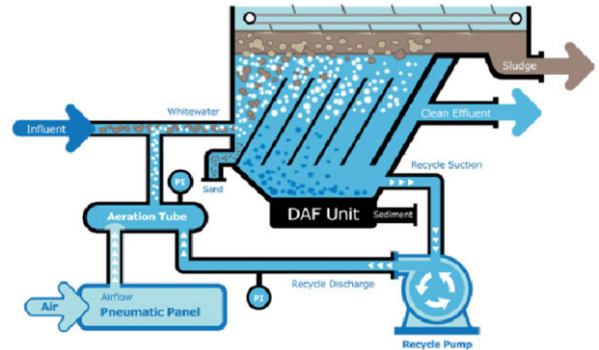
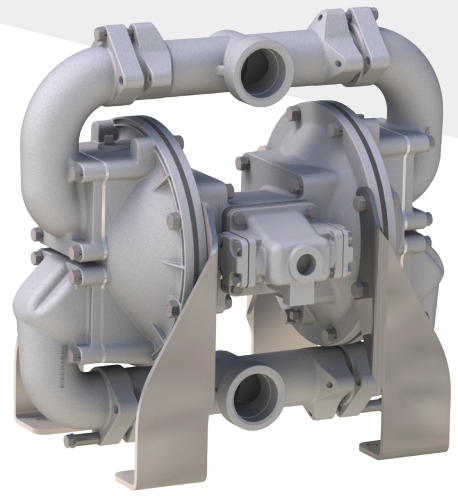
**Products:** Heavy Duty Flap Valve Pumps HDF2

An Industrial manufacturing company is currently replacing problematic Progressive Cavity pumps with **SANDPIPER Heavy Duty Flap (HDF) Valve pumps** in their Dissolved Air Floatation (DAF) system.

The DAF process creates a viscous sludge that is a challenge for any pump. Many companies have used Progressive Cavity pumps for sludge transfer because under ideal conditions they are an excellent choice as they can handle viscous fluids with entrained solids. However, ideal conditions rarely exist. Air bubbles and voids get introduced that cause the pumps to run dry which leads to stator, rotor, and mechanical seal damage. Further maintenance complications occur with difficult set-up and alignment of the pump shaft to the motor, mechanical seal installation, and bearing lubrication.

This company was introduced to SANDPIPER's Heavy Duty Flap (HDF) AODD pumps and their problems dissolved. SANDPIPER HDF pumps feature flap check valves that allow both solids and viscous fluids to easily pass through. The HDF also can run dry without damaging the pump so it became the most ideal solution for this customer who could not control when or if air bubbles would be introduced. The bonus win for the customer was the ease of installation and ongoing maintenance.

For more information on this application contact Warren Rupp, Inc.



*DAF systems utilize air to remove suspended matter from the surface of wastewater. These type of systems are common in food processing plants, meat packing plants, oil refineries, and chemical plants*



*Additional benefits of SANDPIPER HDF pumps compared to Progressive Cavity pumps is the smaller footprint and ease of installation*

**SANDPIPER®**

800 North Main Street  
Mansfield, OH 44902

419-524-8388

[sandpiperpump.com](http://sandpiperpump.com)



**FIND A DISTRIBUTOR →**