

Black Liquor Soap **Case Study**

Sump Pump

The logo for SANDPIPER, featuring the word "SANDPIPER" in a bold, blue, serif font. A blue swoosh arches over the letters "D" and "P". A registered trademark symbol (®) is located to the upper right of the "P".

SANDPIPER®

Company Profile: They have been in production well over a century and are a major Pulp and Paper Producer with nearly 30 facilities. They have played a critical role in the production of packaging, paper, and pulp products both for U.S. domestic and international markets.

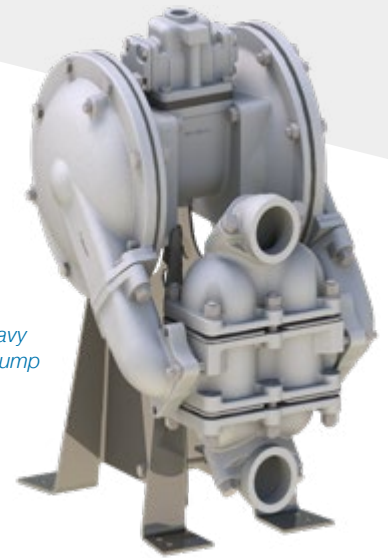
Industry: Fiber based packaging, pulp & paper

Distributor: Major Kraft Mill

Products: Paper & Hygiene Products

This **SANDPIPER 2" Heavy Duty Ball Valve (HDB) Pump** is installed at a Kraft Mill in Sump service on a Black Liquor Soap application. The pump removes rainwater from containment area serviced by the sump. As well, during upset condition, it needs to pump Black Liquor Soap. The pump was installed because of the forgiving nature of the Air Operated Double Diaphragm (AODD) design and the unique robustness of our HDB signature series pumps. Black Liquor Soap is a by-product of the digester at the Kraft Mill and can vary in viscosity and abrasive solids content. It can also contain entrained air which poses problems with many other pump technologies.

The unique down ported design of the HDB Pump drains the abrasive slurry out of the diaphragm chambers with each discharge stroke eliminating solids buildup. Its sealess design also means no abrasive damage that leads to leakage in other pump technologies. This means that there is no need for elaborate seal flush plans or control systems. The HDB is a self-priming pump and can also deal with the air entrained product without interruption in pumping or damage to the pump. In this application the plant also installed a SANDPIPER Liquid Level Control in the sump which automatically turns the pump on and off for unattended service.



The SANDPIPER 2" Heavy Duty Ball Valve (HDB) Pump



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