

# Poultry Plant Case Study

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SANDPIPER HDF Pumps for Blood Collection



**SANDPIPER**<sup>®</sup>

**Company Profile:** One of the world's most prominent food processing companies has 123 food processing plants globally, including a plant in Mississippi. Based in the United States and beginning production in 1935, this company plays a critical role in processing value-added chicken, beef, and pork both for U.S. domestic and international markets.

**Industry:** Food & Beverage: Meat Packing

**Distributor:** Fluid Engineering, Inc.

**PRODUCTS:** [HDF3 Pump](#)

**End User:** Second largest producer globally of poultry, beef and pork

*HDF3 Aluminum Pump*



A leading poultry producer installed two HDF3 Aluminum pumps fitted with Buna elastomers in the blood collection area of one of their packing plants located in the Southeastern United States. The blood is collected in a collection sump / trough after the birds are killed and then is pumped through filters and to a storage tank. They need a pump that also would not create froth or damage the blood as it is sold and further processed.

Due to the nature of this service there is occasionally chicken heads as well as feathers that can fall into the sump and therefore a pump is required to be able to handle not only the blood but these solids. This is a common application for the Sandpiper Heavy duty flap vane pump which can pass both the heads and the feathers which both would be difficult for a Standard duty ball valve pump or even a Heavy-duty ball valve unit. Buna was chosen for the flap material due to its flexibility in this application and it is advised that Santoprene flaps not be used due to the rigidity of the thermoplastic. This is one of the most economic choices for this application where in some cases progressive cavity pumps are used

but they require elaborate control systems and are more expensive to repair and more difficult to troubleshoot. For more information on this application contact Warren Rupp, Inc. today.

**SANDPIPER®**

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