

HD20F Case Study

Other - Starch Return



For many years, Packaging Corporation of America (PCA) has used SANDPIPER Air Operated Double Diaphragm (AODD) pumps in Starch applications at their Jacksonville plant. As a manufacturer of corrugated boxes, they have taken full advantage of the durability of SANDPIPER Standard Duty Ball Valve pumps.

SANDPIPER makes a wide range of AODD pumps for various applications. In this specific application, PCA constructed a filtering system for their Starch Return pumps. Due to the solids laden fluids, the product would occasionally clump. Product clumping and clogging, in most cases, would require the pump to be removed from service to be cleaned. SANDPIPER AODD pumps feature an Externally Serviceable Air Distribution System (ESADS+Plus) that allows for easy access to the pumps' air components without removing the pump from the line.

Due to their specific application need, PCA was looking for a pump that could accommodate solids and the large product concentration. After assessing the situation, Arroyo Process introduced PCA to another SANDPIPER AODD pump, the new [HD20F 2" Non-Metallic Heavy Duty Flap Valve pump](#), for this application.

Requirements

- 1.8" solids handling capability
- Access to both the Main Air Valve and Pilot Valve externally while pump is online
- Quick and easy access to the valves to clear possible obstructions and service them without taking the pump out of service



SANDPIPER 2" Standard Duty Ball Valve



NEW SANDPIPER HD20F1P1SPNS000 - Top suction bottom discharge Flap Valve

Solution

- The newly designed HD20F 2" Non-Metallic Heavy Duty Flap Valve pump
- Heavy duty, top suction bottom discharge pump eliminates solids settling in the bottom of the diaphragm chambers
- Flap style check valves allow passage of occasional clumps.
- Clean out covers provide easy access to remove blockage and service flap valve modules



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