

06 THE POWDER PUMP KEEPS OPERATORS SAFE

THE CLIENT'S NEEDS

Carrying bags of powder up stairways and pouring them into an open reactor manway presents several safety concerns. So, when an operator was injured doing this at a customer's plant, they contacted DDPS to discuss a safer method of charging solids into reactors to prevent operator injury and exposure to hazardous materials.



2 x 8" Powder Pumps



Bulk Bag Unloading Station (Forklift Model) and Control System

OUR SOLUTION

A site trial was conducted with a Powder Pump test unit to ensure the solids could be pneumatically conveyed the necessary distance. Once that was confirmed, a complete transfer system including a bulk bag unloading station, two Powder Pump units and a single PLC control system capable of charging specific batch weights at controlled rates was proposed.

RESULTS & BENEFITS

After conducting a successful site trial, the customer was confident the Powder Pump System would address their material handling safety issues. Following equipment installation and start-up, the customer immediately realized the benefits of the new solids transfer system. Specifically, operators no longer had to carry bags of powder up a stairway and empty them into open reactor manways. Because the process was now semi-automatic, operators also had more time to focus on other tasks, which increased overall plant productivity.