

CASE STUDY

Latex Emulsion Pumping Made Easy

Air Products Polymers, Piedmont, South Carolina



South Carolina-based Air Products Polymers was having difficulty handling latex emulsions with its existing positive displacement pumps. The nature of these pumps caused these shear sensitive products to froth and so plug up the line downstream, eventually rupturing the pump impellers. In addition, pressure was continually building up in the pumps, causing the latex emulsion to flow through the safety valves and blow them. "The pumping operation at that time was very maintenance intensive", says the company's process engineer.

The answer was to install a number of Discflo pumps. The first, a model 403-14-5D, was commissioned in October 1994, designed to handle up to 50 GPM at 116 ft TDH. "We have had no more major maintenance problems and we don't have to worry any more about the safety valves blowing as there is no pressure build up in the Discflo pumps", according to a company spokesman.

The key advantage for the company though is the cut in product losses. "There are no more leaks and so our product losses are greatly reduced, giving us a productivity edge over our competitors. These pumps are such a significant step from what we had before... it's like night and day!"

The Challenge

- Product frothed and plugged line
- Pressure build-up in pump case
- Maintenance intensive pumps

The Discflo Solution

- Discflo pumps' laminar flow prevents frothing of emulsion
- No pressure build-up in case
- Maintenance greatly reduced



Call Discflo now to find out how our pumps can solve your problems.