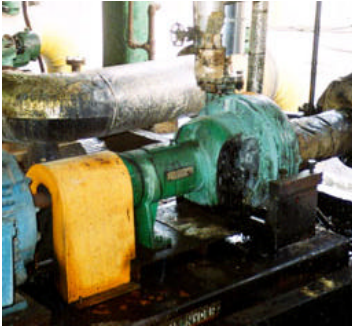


CASE STUDY

De-Benzonized Tar

Aristech Chemicals, Pennsylvania



A model 403-2HHD disc pump has replaced a centrifugal pump for pumping de-benzonized tar with coke fines. Operating at 400 deg F, this is a highly abrasive application, causing the previous centrifugal pump to cavitate and erode. The problem was so bad that the customer was replacing impellers every 20 days.

The company installed the Discflo pump in early 1991. Since start-up, it has operated with no downtime, and without erosion problems.

How does the Discflo pump achieve this exceptional level of performance in pumping such an abrasive product? It uses a unique laminar-flow, non-impingement pumping system. The heart of the Discflo pumps is the highly innovative Discpac 'impeller'. It is neither a centrifugal nor a positive displacement device, but can perform the work of both. Instead, the Discpac is a series of parallel rotating discs that moves fluid using the forces of boundary layer and viscous drag.

With fluid moving parallel to the rotating discs, fluid impingement on the pump's moving parts is minimized and flow is laminar rather than turbulent. The result is unsurpassed durability, resistance to abrasion and the ability to move high volumes of solids and entrained air.

The Challenge

- Highly abrasive product
- Contains high % coke fines
- Caused cavitation

The Discflo Solution

- Erosion problem solved
- No cavitation due to unique laminar design
- Discflo pump handles high % solids with ease



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