CLEANING & WASHING

Quick STUDY

Hydra-Cell® Seal-less Pumps

www.Hydra-Cell.com

Location:	United Kingdom
Application:	Cleaning printing ink mixing vessels
Media:	• Recycled solvents • Cyclohexanone
Model No.:	D35XKSJHFECB
Flow Rate:	15 gpm (57 l/min)
Pressure:	725 - 1160 psi (50 - 80 bar)
Hydra-Cell Advantages:	• Seal-less design • Ability to pump abrasive recycled liquid at high pressure • Low pulsation • Quiet operation • Low maintenance

Cleaning Printing Ink with Recycled Solvents

Recycling a tank-cleaning liquid can save both chemical cost and waste disposal cost - but the reclaimed liquid is not always easy to pump. A screen-printing ink manufacturer had relied on piston-type pumps to handle the recycled solvent used in its system for cleaning mixing vessels. When the company installed a more efficient system, however, these pumps were unable to handle the higher pressures required. Seal leakage became a serious problem.

After the piston pump was replaced by a Hydra-Cell D35 pump, the problems were solved. With its seal-less design and ability to handle abrasive solvents and solid particles, the Hydra-Cell pump had no trouble delivering recycled solvent to the rotating spray head at the required 725 psi (50 bar) pressure.

At that level, the pump is working well within its pressure range. Uniform cleaning impact is ensured by the pump's low pulsation and smooth delivery. The customer also noted that the Hydra-Cell was much quieter than the original pumps, so there was no need for sound-proofing. Another important cost saving was in maintenance. Requirements were minimal, whereas the leaking piston pumps needed frequent attention.

Characteristics of Fluid Pumped:

● Contains Abrasives ○ Corrosive ● Solids in Suspension ○ High-temp. (>158˚F/70˚C) ○ Non-lubricating ○ High-viscosity (>500 cPs)