News from Wanner

Pumping thin, low viscosity liquids with Hydra-Cell®

Much is written about the difficulties associated with pumping high viscosity liquids but pumping fluids with exceptionally low viscosity, such as solvents, is even more of a problem for the majority of pump types. Not so with Hydra-Cell seal-less, multiple diaphragm pumps that handle liquid viscosities from 0.1 cps to 20,000 cps with ease.

Very low viscosity liquids are 'searching', penetrating materials that seek out potential leak paths in pumps such as piston and plunger pumps that depend on dynamic seals. Offering little in the way of lubrication, these low viscosity liquids provide minimal wear protection. Wear in seals and bearings reduces pumping efficiency and can lead to catastrophic failure. As pressure increases so flow rate losses increase.

Hydra-Cell pumps have no dynamic seals and consequently no potential leak paths. They do not require lubrication from the pumped liquid, which makes them wear resistant and able to maintain pumping efficiency over a lifetime, with little maintenance.
These pumps can operate at up to 170 bar pressure without significant flow rate loss.

Some pump types, such as screw and gear pumps, depend on the pumped fluid for internal sealing and therefore pumping efficiency. The lower the viscosity of the pumped liquid, the less efficient the pump. Because Hydra-Cell requires no such internal sealing the liquid viscosity has little or no effect on pumping efficiency.

Hydra-Cell's unique multiple diaphragm design ensures virtually pulseless flow removing the need for pulsation dampeners and unlike the vast majority of other pumps, the diaphragm principle allows the pump to run dry without damage.

Further information from:

Nick Herrington, Wanner International.
Tel +44 (0)1252 816847
Email: NHerrington@wannerint.com
www.hydra-cell.eu

WANNER Hydra-Cell® Seal-less Pump Technology