

CHEMICAL & PETROCHEMICAL

Quick STUDY

Hydra-Cell
Seal-less Pumps

www.Hydra-Cell.com

Location:	Sweden
Application:	Paper processing
Media:	• Low-volume metering of a variety of chemicals
Model No.:	M03XDSGHEMA
Flow Rate:	2.5 - 63 gph (10 - 240 lph)
Pressure:	30 - 120 psi (2 - 8 bar)
Hydra-Cell Advantages:	• Accuracy of output and rapid adjustment to flow rate in response to signal • Ability to handle low flows accurately • Ability to handle wide range of chemicals • Low pulsation • Compact size



Low-volume Metering of Chemicals for Papermaking

A Swedish chemical producer supplying product and dispensing equipment to end-users in the paper industry was originally incorporating single diaphragm metering pumps into the system. Customers needed to measure flows with a magnetic flowmeter, so a pulsation dampener was included. To handle large variations in flow and pressure, pumps of different sizes were needed, and dampener pressure required adjustments.

By standardizing on Hydra-Cell M03 pumps, the chemical company was able to lower prices and provide its customers with a more flexible system. The pump is controlled by a frequency converter and driven by a geared motor (30-650 rpm). A Hydra-Cell C46 unloader valve is included in the line. One system covers all situations. The unit is smaller, the flow rate is flexible, with a large turndown ratio and, if necessary, the motor can be changed without changing the pump. There is no need for a pulsation dampener, which reduces costs and maintenance time. Installation and start-up are now faster and easier.

Characteristics of Fluid Pumped:

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