

Application story



Dosing Chemicals for Papermaking

Location	Sweden	Hydra-Cell model	G03XDSGHHEMA
Type of application	Low Volume Dosing of a Variety of Chemicals	Flow rate	10-240 l/hr (2.6-63 gph)
Liquid	Paper Processing	Pressure	2-8 bar (30-120 psi)
Application details	A Swedish chemical producer supplying product and dispensing equipment to end-users in the paper industry was originally incorporating diaphragm metering pumps in the system. Customers needed to measure flows with a magnetic flowmeter, so a pulsation damper was included. To handle big variations in flow and pressure, pumps of different sizes were needed, and damper pressure adjusted. By standardising on Hydra-Cell G03 pumps, the chemical company was able to lower prices and provide its customers with a more flexible system. The pump is controlled by frequency converter and driven by geared motor (30-650 rpm) and a Hydra-Cell C46 unloader valve is included in the line. One system covers all situations. The unit is smaller, flow rate is flexible, with a big turndown ratio (and if necessary the motor can be changed without changing the pump). There is no need for a pulsation damper. Installation and start-up are faster.		
Advantages of Hydra-Cell pump on this application	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.		

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