

METERING

Quick STUDY

Hydra-Cell[®]
Seal-less Pumps

www.Hydra-Cell.com

Location:	United States
Application:	Injection of chlorine into water supply
Media:	• Sodium hypochlorite
Model No.:	M03
Flow Rate:	Up to 3 gpm (11 l/min)
Pressure:	Up to 1000 psi (69 bar)
Hydra-Cell Advantages:	• Smooth, virtually pulse-free flow • Simple, linear adjustment of metered response to changing water condition



Chlorine Metering into Paper Mill Water Supply

Using a conventional metering pump, a newsprint plant had problems injecting chlorine bleach into the raw water supply. Excessive pulsation from the pump was causing a PVC pipe to fracture and leak. The original pump was replaced with a Hydra-Cell M03 pump, coupled to a 56-frame DC motor and manually adjusted SCR motor.

The noticeably smoother flow produced by the compact multiple-diaphragm Hydra-Cell pump encouraged the mill to make a further improvement in its system. The company installed a T with vertical standpipe, countering a tendency for the chlorine to out-gas. The installation provides an outlet for collected gas before it reaches the pump inlet.

Easy, accurate flow control by adjusting pump speed (another feature of the Hydra-Cell pump) allowed chlorine volume to be proportioned in response to water quality tests - paving the way for future conversion of the manual operation to full automation.

Characteristics of Fluid Pumped:

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