

Application story



Chlorine Metering in Paper Mills (1)

Location	USA	Hydra-Cell model	M03XAPGCCTP
Type of application	Injection of Chlorine Bleach into Water Supply	Flow rate	Up to 11 l/min (3 gpm)
Liquid	Sodium Hypochlorite	Pressure	Up to 69 bar (1000 psi)
Application details	Using a conventional metering pump, a newsprint plant in the US 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 3-diaphragm Hydra-Cell pump encouraged the mill to make a further improvement in its system; installing 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.		
Advantages of Hydra-Cell pump on this application	Smooth flow, virtually pulse free. Simple, linear adjustment of metered response to changing water condition.		

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