

Application story



Disinfecting Water Mains

Location	USA	Hydra-Cell model	M24XAPGCCTP
Type of application	Disinfecting and Flushing Mains Water Pipes	Flow rate	11 l/min (3 gpm)
Liquid	Sodium Hypochlorite	Pressure	11 bar (160 psi)
Application details	A public water utility in New York state had tried various types of pump on the pipe flushing operations that must be carried out on water mains following repair or service work. None proved satisfactory until the utility found a new solution - a truck-mounted Hydra-Cell pump driven by Honda engine. Before a main carrying potable water can be put back in service, utility workers are required to disinfect it by chemical flushing from upstream of the repair down to the nearest hydrant down stream. The liquid bleach used for this purpose proved too harsh for the mechanical seals on which all the original pumps relied. The result was unreliable performance and high pump repair costs. The Hydra-Cell unit met all the requirements of the application. Due to the corrosive nature of the fluid the pump must be free of stainless steel components. It was also required to be portable, low maintenance and capable of pressures of 14 bar. The unit is mounted to the back of a truck with a drum of concentrated bleach – an installation of in which all elements are fully mobile. It was an advantage that the Hydra-Cell pump could be engine-driven as an option.. Previous pumps used electric motors, adding to bulk and cost by needing an electrical generator. The pump is actually functioning as a high pressure metering pump. The disinfecting flush is followed by a pure water flush before the water main is returned to normal service.		
Advantages of Hydra-Cell pump on this application	Seal-less design, ability to handle corrosives. Low maintenance. Reliability. Compact build. Drive options.		

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