

Application story



Deferoxamine Dosing in Pharmaceutical Processes

Location	Hungary	Hydra-Cell model	G13XKPJCCTPA
Type of application	Deferoxamine Dosing in Pharmaceutical Processes	Flow rate	150 - 400 L/hr (40 - 106 US gal/hr)
Liquid	Deferoxamine	Pressure	2 bar (29 psi)
Application details	Hydra-Cell® pumps corrosive pharmaceutical agent. Teva Pharmaceutical Industries is an Israeli, multinational pharmaceutical giant and the World's No.1 producer of generic pharmaceuticals. Every single minute of every day, approximately 2,500 Teva packs are dispensed in the EU. At the Company's Debrecen plant in Hungary, engineers were using a peristaltic pump with a neoprene tube to dose an acidic pharmaceutical agent but were seeking a better solution because of concerns over chemical resistance of the pump tube. Having also tried EPDM peristaltic tubes, the customer considered a magnetic coupled plastic gear pump but Wanner's distributor, Verder Hungary, proposed a Hydra-Cell G13 with polypropylene liquid head and PTFE diaphragms. This combination proved to have the best chemical resistance and the Hydra-Cell multi-diaphragm design provided a virtually pulse free flow. The Hydra-Cell's ability to run dry without damage was also considered to be a good benefit.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Its known reliability, now proven to this customer when compared to other pump technologies. - With multiple diaphragms in a single pump head, Hydra-Cell offers a virtually pulse-less flow.		

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