

Application story



Hydrochloric Acid Pumping

Location	USA	Hydra-Cell model	G03BKRGTTTTA
Type of application	Pumping Hydrochloric Acid	Flow rate	4 l/min (1.06 gpm)
Liquid	Hydrochloric Acid	Pressure	21 bar (304 psi)
Application details	This customer was pumping hydrochloric acid with a pump constructed in Hastelloy C. It was large and inefficient and spare parts were difficult to obtain. The unit was replaced with a Hydra-Cell GO3 pump in the same material - but a problem arose. The Hydra-Cell pump worked well at start-up, but after a 30-minute idle period it was losing prime. Normal troubleshooting routines did not help, but it was determined that air was being entrained in the pump head. What was the cause?. Working together, distributor and customer discovered that a gas was formed when the acid passed through stainless steel fittings on suction and discharge ports. It was a system issue, not a pump fault. Conversion to non-metallic fittings solved the problem completely and the Hydra-Cell pump now works perfectly. Unlike the unit it replaced, it is compactly built and very efficient, and spare parts are readily available.		
Advantages of Hydra-Cell pump on this application	Materials available - in this case, Hastelloy, Viton and polypropylene were chosen. Compact build. High efficiency. Plus technical support!		

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