

Application story



Organic Solvent Transfer

Location	Czech Republic	Hydra-Cell model	G25EKSJCFEHB
Type of application	Organic Solvent Transfer	Flow rate	0.2 - 2 m3/hr
Liquid	Organic Solvents	Pressure	Up to 6 bar (87 psi)
Application details	A major pharmaceutical manufacturer in the Czech Republic was using stainless steel gear pumps to transfer a variety of organic solvents from reactor vessels to storage tanks. Solvent liquids are not easy to pump, being thin and non-lubricating. And on this application, though filtered, they carry a 1 to 5% volume of residual small solids (100 – 200 microns). In practice, the gear pumps were unable to perform with the expected reliability. Rapid wear reduced flow rate below requirement, downtime was excessive and spare parts expensive. The customer looked for a better solution. AxFlow recommended the Hydra-Cell G25 pump, with PTFE diaphragms. Successful tests were run (with the pump operating at 500 rpm for optimum service life on this application). Several Hydra-Cell pumps are now in use at the plant, with results justifying confident expectation of sustained reliability and long life.		
Advantages of Hydra-Cell pump on this application	Seal-less design, low wear, able to handle non-lubricating liquids. Abrasive resistant. ATEX certified.		

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