

Application story



Chemical Injection in Polymer Extrusion Process

Location	United Kingdom	Hydra-Cell model	G22GDSGHHMG & G22BDSGHHMG
Type of application	Chemical Injection in Polymer Extrusion Process	Flow rate	0.75 – 1.0 lpm (0.198 – 0.264 US gal/m)
Liquid	Proprietary Liquid (40-6)	Pressure	8 bar (116 psi)
Application details	The end user customer is a multi-national market leader in the provision of highly engineered connectivity and sensor solutions that make the connected world possible and currently manufactures some 220 billion individual items per annum. Extruders acquired from a German supplier came complete with Hydra-Cell G22 pumps for injecting proprietary chemicals into the liquid stream prior to extrusion. The entire process line is trace heated to keep the liquid at a viscosity that allows it to flow. Having no dynamic seals in the pump chamber, this allows the Hydra-Cell pump to operate at elevated temperatures without risk of damage with an operating temperature up to 71°C with the plastic spring retainers fitted in this application. The customer is impressed with the high reliability of the Hydra-Cell pump, with a reported 5-7 years of reliable operation between maintenance periods.		
Advantages of Hydra-Cell pump on this application	Having no dynamic seals in the pump chamber, this allows the Hydra-Cell pump to operate at elevated temperatures without risk of damage with an operating temperature up to 71°C with the plastic spring retainers fitted in this application. Hydra-Cell's seal-less design provides reliability and requires minimal maintenance.		

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