

Application story



High Pressure Water and Effluent Metering

Location	France (Installation: 2024)	Hydra-Cell model	MT08NSNJNSSGD30C
Type of application	High Pressure Water and Effluent Injection	Flow rate	0.5 - 5 l/hr (0.13 - 1.32 US g/hr)
Liquid	Water & Effluent with Solid Particles	Pressure	240 barg (3481 psi)
Application details	Inovertis is a French engineering company who provides major customers in various industries with a wide range of services from technical studies, process design/engineering, to turnkey solutions. For a pilot in waste treatment, they needed a pump able to provide a wide flow rate range – from 0.5 to 5 l/hr, to inject water and effluents at a high pressure of 240 bar. The main challenge is that the liquid is charged with hard solid particles from crushed circuit boards, where concentration can go up to 10% in volume and size up to 200 µm. Duty: Intermittent. Initial tests were run with a traditional diaphragm metering pump (Bran+Luebbe) which failed due to the particle sedimentation within the valves.		
Advantages of Hydra-Cell pump on this application	The MT8 design solved this issue and the installation now runs perfectly. Plus, the low pulsations are also an advantage as this eliminates the need of a pulsation dampener.		

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