

Application story



Dosing Diesel Fuel with Dye (2)

Location	Ireland	Hydra-Cell model	G25SKSJNNHHB
Type of application	Dosing Diesel Fuel with Dye	Flow rate	Up to 50 l/min (13 gpm)
Liquid	Colour Dye	Pressure	Up to 70 bar (1000 psi)
Application details	A major petro-chemical company in Ireland incorporated Hydra-Cell G25 pumps in skid-mounted systems used for the injection of dye into diesel fuel, as an identifying agent. The pumps replaced traditional metering pumps on this application. Competitive acquisition cost against traditional pumps, and the lower cost of spares were among the reasons why Hydra-Cell was chosen. But more significant factors included: Compact size, saving space on the skid. Smooth, virtually pulseless flow, with no need for pulsation dampeners. The dye must be injected steadily and accurately at a constant rate. The Steady State accuracy of the Hydra-Cell pump (better than $\pm 1\%$) easily satisfies that requirement. The dye is in the form of a thin, non-lubricating liquid - making it potentially damaging to seal-reliant pumps that depend on the liquid itself to lubricate pump seals. With no dynamic seals in the Hydra-Cell design this is not an issue - even in hot weather when dye viscosity is at its lowest.		
Advantages of Hydra-Cell pump on this application	Compact dimensions. Smooth, accurate flow. Reliable pumping of non-lubricating liquids. Low life-cycle costs.		

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