

Application story



High Pressure Chemical Filling

Location	India	Hydra-Cell model	H25EKBHFEHA
Type of application	High Pressure Chemical Filling	Flow rate	2000 l/hr (440 gph)
Liquid	Perfume	Pressure	6-7 bar (87-102 psi)
Application details	The end user is a manufacturer of perfumes and air fresheners for the consumer and retail markets. In this application, perfumes and scent are in liquid form and stored in a tank which is under high pressure (around 5 bar). From a storage tank, it is injected into the process with other chemicals and the final liquid is then ready to pack. This liquid is injected by a high pressure pump to fill the aerosol cans. Here the pressure required is 06 to 07 kg/cm² and accurate flow of about 15 to 18 l/pm is maintained. As perfumes and scent have less vapour pressure they can evaporate at atmospheric pressure and temperature. So the packing machine is kept separately with the surrounding temperature under 20 degree C. The flow rate is controlled with an automated VFD system. A competitor's single diaphragm metering pump was originally installed but needed extensive maintenance and repairs. The Hydra-Cell pump has been installed and working reliably for over 3 years with only minimal servicing.		
Advantages of Hydra-Cell pump on this application	Multi-diaphragm and seal-less design ensures: • No leakage • Virtually pulse-free flow • High level of accuracy and reliability		

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