

Application story



LPG Transfer (3)

Location	India	Hydra-Cell model	D04EABGHFEHG
Type of application	Online Sample Analyser	Flow rate	6 - 8 l/pm (1.6 - 2 gpm)
Liquid	Liquid Petroleum Gas (LPG)	Pressure	30 - 32 bar (435 – 464 psi)
Application details	The end user is the biggest petrochemical importer, storage facility and exporter of hydrocarbons in the Dahej area of India. The customer's processes include blending of propane and butane and also sample monitoring. An online sample analyser is used to monitor liquid properties such as density, viscosity, % of mixture, etc. In this application, the sample is taken from header pipeline and transferred to the analyser to monitor the properties; the sample is then fed back to same header pipeline. To transfer the sample, pressure is higher than in the header pipeline; for this application, positive displacement is required to generate the differential pressure. Suction pressure is at 28 bar and the sample flow required for the analyser is 6-8 l/min. Due to the high suction pressure, a Hydra-Cell D04 with E-cam was selected and has been running successfully since installation. Ambient temperature for this application is max. 45 degree C.		
Advantages of Hydra-Cell pump on this application	• Seal-less design ensures 100% containment of the LPG to protect operators and the environment • Controllable flow and Dry running capabilities		

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