

Application story



Density Analyser

Location	India	Hydra-Cell model	G03XKKBGHFEHA
Type of application	LPG Transfer	Flow rate	Up to 8 L/min (2.1 gpm)
Liquid	Liquid Petroleum Gas (LPG)	Pressure	Up to 34 bar (493 psi)
Application details	Indian Oil Corporation Limited is India's largest commercial enterprise with a turnover in excess of US\$61bn. At the Company's plant at Kandla, in Gujarat, LPG is stored in a tank under high pressure awaiting analysis. The tank pressure is maintained at up to 17 bar in order to keep the gas in its liquid state. The LPG is then discharged from the tank, through the analyser at a fixed flow rate and a pressure of 34 bar, before being reintroduced to the distribution lines. ABB, who carried out the project on behalf of Indian Oil selected Hydra-Cell G03 pumps for the application because of their ability to withstand the high inlet pressure conditions while providing a constant flow and pressure at a fixed speed. The Hydra-Cell's small footprint freed up valuable space while the seal-less design removes the possibility of leaks and eliminates seal maintenance. The ability of the pumps to run dry without damage provides further assurance that the pumps will give many years of service. The pumps have been running satisfactorily since August 2016.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Compact design, allowing for smaller skids. - Ability to handle this non-lubricating liquid with ease. - 100% contained solution, due to the seal-less design.		

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