

Application story



Hydrocarbon Sampling (2)

Location	India	Hydra-Cell model	G10XKCGHFEHB / G15XDBGHFEHB
Type of application	Hydrocarbon Sampling (2)	Flow rate	G10 Up to 19.6 l/min (5 gpm) / G15 Up to 25 l/min (6.6 gpm)
Liquid	Motor Spirit Fuels	Pressure	G10 Up to 40 bar (580 psi) / G15 Up to 100 bar (1450 psi)
Application details	Hydrocarbon sampling, using density analysis or other techniques is a continuous task on India's expanding network of main pipelines. Leak-free Hydra-Cell G10 and G15 pumps have proved ideal for handling and re-injecting sampled liquids at remote un-manned locations where the automatic system must run by itself 24/7 and for long periods. Measurement of density and other properties identifies the liquid and checks for quality issues. Following analysis the sample is pumped back into the pipeline, at higher pressure. Gear pumps and magnetic drive centrifugal pumps, widely used internationally for fuel sampling, have reportedly done less well here. Liquids sampled are non-lubricating motor spirits such as Euro III MS, Euro IV MS and High Speed diesel. Pumping them continuously at high pressures in high ambient temperatures is a challenge for most pumps, and on this application other difficulties arise. Scale build-up in older pipeline sections causes fine particles to penetrate to gears or be deposited on the magnetic ring of mag-drive pumps. Hydra-Cell pumps can handle small particles and do not need fine filtration. Another advantage on some sites where suction conditions are adverse is that their NPSH requirement is comparatively low. They are also protected against complete suction starvation and can run dry indefinitely without damage.		
Advantages of Hydra-Cell pump on this application	Seal-less design. Leak-free operation. Ability to handle scale particles and non-lubricants at high pressures for reinjection. Relatively low NPSH R. Reliability.		

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