

Application story



Pumping 93°C Naphtha

Location	Illinois, USA	Hydra-Cell model	D35
Type of application	Pumping 93°C Naphtha	Flow rate	46 l/min (12 GPM)
Liquid	Naphtha	Pressure	55 bar (800 psi)
Application details	The customer's plant had been using a Kerr piston pump to pump Naphtha (a flammable liquid made from distilling petroleum) into a process at the refinery. The Kerr pump was physically very large and difficult to work on. The pump had also been borrowed from another company division and needed to be returned to a different service, so they needed a pump with a quick turnaround to replace it. A duplicate Kerr pump would have been very expensive, with a long lead time. The application was pumping 93°C Naphtha, 46 l/min at 55 bar (800 psi) discharge pressure, with 28 bar (400 psi) suction pressure. The Hydra-Cell D35 in stainless/Viton construction, running at 273 RPM was a perfect solution as it is able to handle the high suction pressure up to 35 bar (500 psi). The D35 pump mounted on a steel base with a gear reducer and explosion-proof in only 4 weeks, which was immediately put into service, along with a C63 pressure relief valve. The pump performed extremely well with no issues.		
Advantages of Hydra-Cell pump on this application	• A wide choice of materials of construction is available to match specifically the liquid being pumped. This reduces acquisition, maintenance and servicing costs significantly. Selecting the best cost option material for the duty. • Modular design ensures the pump is properly configured for the process application, at a competitive price, tested and delivered with minimal lead-time. • Small footprint • Seal-less design for minimal maintenance and 100% containment		

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