

Application story



Gas Condensate Transfer

Location	China	Hydra-Cell model	G25XKSGCCEMB / G35XKSGCCEMB
Type of application	Gas Condensate Transfer	Flow rate	G25 1 - 4.5m³/hr (4 - 20 gpm) / G35 2 - 8.4m³/hr (9 - 37 gpm)
Liquid	Gas Condensate	Pressure	25 - 45 bar (360-650 psi)
Application details	Canned motor pumps installed at the Quidong plant of China Petroleum to transfer gas condensate were continually breaking down. Reliant on the process fluid to lubricate rotor, wear rings and impeller bearings, the pumps could not satisfactorily handle a process liquid that contained water, sand particles and corrosive chloride ions. Vulnerable components wore prematurely. Failures were frequent, maintenance costs were high. Hydra-Cell G25 and G35 pumps, both in ATEX format, replaced the canned motor units and ran trouble-free. Twelve months later they were still operating smoothly, with no maintenance needed and no problems to report. Unlike canned motor pumps, they do not need a clean process liquid to cool the motor and lubricate internal components. They easily handle abrasive particles. They can run dry without damage. Flow rate is easily and accurately controlled electronically, via frequency inverter, by adjusting motor/pump speed. The pumps operate on continuous duty. The G25 pumps are working within the flow range 1-4.5m³/hr while the G35 pump is working in the range 2-8.4m³/hr. Differential pressure is 25-45 bar. Liquid temperature varies from 10°C to 30°C. Ambient local temperature (the pumps are sited outdoors) varies from minus 28°C to plus 45°C.		
Advantages of Hydra-Cell pump on this application	Able to handle gas condensate containing sand, water and corrosive chloride ions. No leakage risk. Variety of materials offered for pump body, valves and diaphragms. Easy, accurate flow control. Dry running capability.		

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