

Application story



Oil - Water Mix Transfer Pumps (2)

Location	Hungary	Hydra-Cell model	D35XKSGNNEHB
Type of application	Formation Water Transfer	Flow rate	8000 L/hr (2113 US gal/hr)
Liquid	Formation Water	Pressure	20 - 30 bar (290 - 435 psi)
Application details	Reducing pump speed overcomes cavitation. MOL Hungary is an integrated oil, gas and petrochemicals group operating in four countries and headquartered in Budapest, Hungary and part of the international MOL Group, one of the largest companies in central and Eastern Europe. The Company was having difficulty transferring a mixture of oil formation water to the separation plant. The liquid mix also contains some sand, which caused wear and damage to multi-stage centrifugal pumps and a piston pump. Wanner distributor, Verder Hungary, supplied a Hydra-Cell G35 pump but the long length of the suction pipe initially caused cavitation. The pump speed was at 960 rpm @ 50 Hz. Verder Hungary provided a frequency converter (down to 46 Hz), thereby reducing the speed of the pump, and the cavitation disappeared. The customer was also impressed with the seal-less 'leak-free' nature of the pump and the fact that it was able to run dry without damage.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Its ability to pump this particle laden liquid with ease. - Its seal-less design, that requires no additional fine filtration and with no dynamic seal, maintenance costs are vastly reduced.		

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