

Application story



Gas Sweetening - Amine Injection (2)

Location	Hungary (installation: September 2015)	Hydra-Cell model	D35XKSKNNTHB
Type of application	Gas Sweetening with Monoethanolamine	Flow rate	4000 - 7000 L/hr (1056 - 1849 US gal/hr)
Liquid	Monoethanolamine Corrosion Inhibitor	Pressure	84 bar (1218 psi)
Application details	Hydra-Cell pumps Monoethanolamine Rikopet is a Hungarian energy company, providing consultancy in oil and gas as well as project management and site and plant operation. At a TÉT-3 natural gas extraction site, the Company had long-term problems with piston pumps, within an amine gas sweetening plant. Dynamic seals leaked and the pump caused unacceptable pulsation within the system pipe work. Monoethanolamine at 35oC is sprayed through the gas stream to remove the CO2. The liquid absorbs the CO2 and removes it from the gas stream. This mixture then goes through a de-absorber stripping the CO2 from the liquid for reuse. A Hydra-Cell D35 pump was installed to replace the plunger pump to improve the performance of the system and reduce maintenance. The flow rate was controlled by the use of a variable speed drive. Installed with a suction stabiliser, the last report from site was that the Hydra-Cell pump was running for 2 years with no maintenance. The customer intends to replace a further piston pump with a Hydra-Cell and plans to use Hydra-Cell pumps in a new plant to be constructed in the foreseeable future.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Its seal-less design, containing the pumped liquid 100% and eliminated frequent maintenance.		

www.hydra-cell.co.uk

Wanner Engineering -
World Headquarters & Manufacturing
Minneapolis USA
t: (612) 332-5681
e: sales@wannereng.com

Wanner International
Hampshire UK
t: +44 (0) 1252 816847
e: sales@wannerint.com

Wanner Pumps
Shanghai CHINA
t: +86-21-6876 3700
e: sales@wannerpumps.com

Wanner Pumps
Kowloon HONG KONG
t: +852 3428 6534
e: sales@wannerpumps.com