

OIL & GAS INDUSTRY

Quick STUDY

Hydra-Cell®
Seal-less Pumps

www.Hydra-Cell.com

Location:	Hungary
Application:	Water injection
Media:	• Water - produced
Model No.:	D35XKSTNNECB
Flow Rate:	36.5 gpm (138 l/min)
Pressure:	360 psi (25 bar)
Hydra-Cell Advantages:	• Low energy costs • Price advantage • Virtually pulse-free flow • Good controllability • No mechanical seals



Delivering Produced Water to a Gas Injection Head Tube

Though Hungary is chiefly dependent on imported natural gas for its energy supplies, there is also substantial domestic production of natural gas. The company responsible for a high percentage of this has on several applications in 2012 installed Hydra-Cell seal-less pumps where previous practice was to use established alternatives.

At one site in eastern Hungary for example, a Hydra-Cell D35 pump (with another on standby) was preferred to multi-stage centrifugal pumps customarily used by the gas well operator for delivery of produced water to the injection head tube.



The active pump is on continuous duty. Fitted with an 11kW motor controlled by a frequency inverter, it operates at 960 rpm supplying 8.3m³/hr of water at 360 psi (25 bar). The operator can increase rpm if necessary to accommodate the nominal requirement of 200m³/day.

The produced water contains abrasive sand, 1% to 2% by volume, which could have shortened seal life in the alternative pumps but presents no problem for the seal-less Hydra-Cell.

Characteristics of Fluid Pumped:

☒ Contains Abrasives ☐ Corrosive ☐ Solids in Suspension ☐ High-temp. (>158°F/70°C) ☐ Non-lubricating ☐ High-viscosity (>500 cPs)