

Application story



Gas Drying (8)

Location	Romania (Installation: July 2005)	Hydra-Cell model	G10XKSGHFEHH & G25XKSGHFEHH (Approx. 100 pumps)
Type of application	Gas Drying Recycled TEG at 80-90°C	Flow rate	G10XKSGHFEHH 10 - 20 L/min (3 - 5 GPM) & G25XKSGHFEHH 30 - 50 L/min (8 - 13 GPM)
Liquid	Tri-Ethylene Glycol (TEG) (Between 80-90°C)	Pressure	58 - 61 bar (841 - 885 psi)
Application details	Hot Tri-Ethylene Glycol (TEG) is sprayed into the gas stream to remove water from the gas. The TEG is pumped 24/7 and the flow rate must be matched with the volume of gas coming from the well to maintain efficiency levels. As it is recycled, the hot TEG picks up fine solid particles. Also, if H₂S or CO₂ are present, this can form weak acid solutions. This can be a problem for pumps with packing or dynamic seals, such as with the previously installed API 674 plunger pumps. These gas drying stations are unmanned and are in remote locations around the Romanian countryside. Reliability of the TEG pump is of utmost importance.		
Advantages of Hydra-Cell pump on this application	• Accurate controllable, low pulsing flow. Better than +/-1%. And is controllable over a wide range of flow rates. Important to deal with the change in gas flow rate. • Compact size – saving space. • Smaller motor size – Energy saving. • No dynamic seals –Minimal maintenance especially when pumping hot liquids with particles.		

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