

Application story


WANNERTM
HYDRA-CELL[®] PRO
SEAL-LESS PUMP TECHNOLOGIES



Ethylene Glycol Metering for Gas Drying

Location	USA	Hydra-Cell model	G03EABTHHECA
Type of application	Ethylene Glycol Metering for Gas Drying	Flow rate	2-8 l/min (0.5-2gpm)
Liquid	Ethylene Glycol	Pressure	58-61 bar (841-884 psi)
Application details	Hydra-Cell G03 pumps are progressively replacing duplex-style pumps on a critical metering application in which hot ethylene glycol (EG) is injected at high pressure into natural gas inside a de-hydration tower. The reaction between gas and ethyleneglycol removes moisture, enabling dry gas to be collected at the top while ethylene glycol is drawn out at the bottom of the tower and distilled for re-use. Chosen initially for its smooth delivery with very low pulsation, the Hydra-Cell pump (3 diaphragms within its single head) contrasts sharply with the heavy-pulsing duplex pump it replaced. This twin head pump pulsed so severely that it was not possible to record the instrument readings essential for verifying that emission standards are being met. Moreover, the pump had developed potentially hazardous leaks. Within 2 months, the all round performance of the Hydra-Cell pump, its seal-less leak-free design, metering accuracy and low pulsation had prompted the customer to order 2 more G03 pumps to replace duplex units.		
Advantages of Hydra-Cell pump on this application	Low pulsation. Accurate metering. Seal-less design.		

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