Application story

WANNER™
HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES

Metering & Dosing for Polypropylene and Propane Separation

Location	Hungary	**Hydra-Cell model**	H25XKSGHFEHB – Full linearity test certificate
Type of application	Metering and Dosing	**Flow rate**	Working: 1.5 m3/h; min. 0.5 m3/h; max. 4 m3/h
Liquid	Propane and Propylene Mixture	**Pressure**	25 bar (363 psi)

Application details

The end user customer, a multinational oil and gas company, uses two distillation processing towers to separate Polypropylene and Propane.

As the distillation points of Polypropylene and Propane are close together, the temperature in each tower is critical and needs to be maintained very accurately. If too much liquid is dosed the temperature drops, if too little the temperature increases. Therefore, the mixture needs to be dosed very accurately into the two towers.
The Hydra-Cell H25 pump was selected for this process to feed the mixture into the two distillation towers.

To ensure the Hydra-Cell H25 would be suitable for this critical metering and dosing application and meets the API674 performance standards, the end user customer visited Wanner international's facility to witness a full linearity test which measures how accurate the flow rate can be set by changing and setting pump speed.

Advantages of Hydra-Cell pump on this application

Compared to tradition diaphragm metering pump, the Hydra-Cell pump can deliver a virtually pulse-less flow without a pulsation damper, giving very accurate control of dosing the liquid.

Accurate flow rate control over a number of different flow rate requirements is also achieved with Hydra-Cell compared to centrifugal pumps.

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