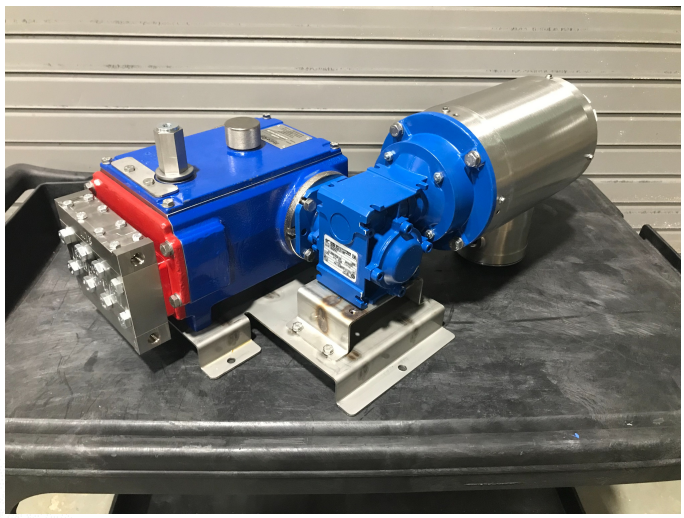
Application story

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



Dosing Chemicals for Pharmaceuticals

Location	Ireland (Installation: 2019)	**Hydra-Cell model**	MT08NTNJNTTKA10SK
Type of application	Dosing Chemical into a Process Line	**Flow rate**	0.2 - 17.8 l/hr (0.05 - 4.7 gph)
Liquid	Proprietary Liquids	**Pressure**	24 - 103 bar (350 - 1500 psi)

Application details

A major pharmaceutical company needed “pulse-less” flow with very low flow rates, but also with the capability to increase flow rates by 1,000 times, in the development of a modular production concept. Individual components would be pieced together based on specific requirements for each drug or product. This called for a wide range of flows and discharge pressures as well as the ability to handle low-to-high viscosity fluids. A gear pump was tested, but proved too inconsistent to meet the challenges

The company then tried a Hydra-Cell Metering Solutions MT8 pump. With its seal-less, multiple-diaphragm design, the MT8 can handle low-to-high viscosity fluids and provide linear, “pulse-less” flow without the need for expensive pulsation dampeners. The MT8 is also ideal for handling the low flows required at high pressures when needed.

To achieve the modular production concept with a 1,000 to 1 turndown ratio, a custom motor with an encoder for closed-loop vector control was built into the system. 18 months after the initial installation, the company placed 10 more MT8 units into production.

Advantages of Hydra-Cell pump on this application

- A triplex diaphragm design in one liquid end which creates virtually "pulse-less", linear flow.
- Accuracy and controllability, exceeding API 675 performance standards.
- Reliably handles high and low viscosity liquids.

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