

Wanner Introduces New Hydra-Cell® Metering Solutions Model MT8

Triplex metering pump exceeds API 675 standards and provides virtually pulse-free flow.

New from Wanner, the Hydra-Cell Metering Solutions model MT8 triplex metering pump is designed to handle a variety of processing liquids with very high accuracy at very low flow rates; delivering a smooth virtually pulse-less flow for a very homogeneous injection of liquids at process pressures from 0 to 245 bar.

It features a multiple diaphragm design to provide virtually pulse-free flow without the need for pulsation dampeners. The new Hydra-Cell MT8 pump exceeds API 675 performance standards for steady state accuracy ($\pm 1\%$), linearity ($\pm 3\%$) and repeatability ($\pm 3\%$) the company states.

Flow capacity for the MT8 ranges from a minimum of 00.227 lph to a maximum of 30.28 lph with discharge pressure ratings up to 241 bar (3500 psi) depending on flow. At the heart of the MT8's accuracy and repeatability is the patented system for the management of the hydraulic actuating oil. This system of valves ensures that on every forward stroke the volume of actuating oil is extremely consistent, very important when having to deliver very low flow rates. The system also protects the diaphragms from a closed inlet whilst the pump is running. The pump can also run dry with out liquid indefinitely!

Accuracy and linearity across the full flow rate range is achieved by having a constant compression ratio in the process side of the diaphragm, enabling turn down ratios of greater than 130:1 to be achieved with the same pump.

Chemical processing applications include oil and gas (onshore and offshore), water and wastewater treatment, chemical injection, polyurethane foam, and other uses including pharmaceutical, power generation, personal care products, and additive injection in plastics processing.

The new MT8 triplex metering pump features the Hydra-Cell seal-less design, so there are no mechanical or dynamic seals, cups, or packing to leak, wear, or replace. An integral relief valve protects the pump from over pressurization on the discharge side. Current models are available in 316L Stainless Steel, Alloy 20, Hastelloy®, PVC, and PVDF pump head materials options, Wanner

Featuring rugged construction and a small footprint, one MT8 pump covers a wide range of flows and pressures, which reduces inventory requirements and provides for fast, simple field conversion, according to the Company. In order to install a complete metering system, a variety of options and accessories are available from Wanner such as motors, controllers, valves, calibration cylinders, and the exclusive Hydra-Cell Metering Solutions Control Freak™ touch-screen metering controller.