

Multiple Control Options for Hydra-Cell Metering Pumps

The Hydra-Cell Metering and Dosing solutions range from Wanner International includes variants with integrated variable speed drives. The innovative design combines an AC induction motor with a Variable Frequency Drive (VFD inverter) mounted on the motor. Combining the motor & drive together is claimed to be simple to use while being highly accurate and repeatable.

Because Hydra-Cell pumps are true positive displacement pumps, flow rate is directly proportionate to input shaft speed and virtually independent of system discharge pressures.

Flow rate can therefore be varied proportionately by motor speed control offering turndown ratios of 10 to 1 or better. A variety of control methods is available from a local analogue control knob, graded from 0 to 100% to the Wanner "Control Freak", which enables programming for flow rate or totalisation via multiple Variable Frequency Drives (VFDs). Other flow rate adjustments options are available, including manual speed variators (suitable for ATEX environments), and electronic VFDs with on-board key-pad controllers with flow rate display and removable, hand-held key-pad controllers for authorised personnel only.

All Hydra-Cell metering and dosing solutions exceed the performance requirements of API 675 in terms of steady state accuracy ($\pm 1\%$), Linearity ($\pm 3\%$) and Repeatability ($\pm 3\%$).

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Note:

Wanner is the world's leading manufacturer of seal-less, high-pressure, diaphragm pumps. These Hydra-Cell pumps are highly efficient, heavy duty pumps used for liquid transfer, metering, injection, spraying and dosing of the widest range of liquids including chemicals, solvents, acids, hydrocarbons, natural gas liquids, alkalis, polymers, aqueous ammonia, resins, slurries, wetttable powders recycled or dirty liquids etc.

Hydra-Cell positive displacement, unique multi-diaphragm, seal-less pumps can handle corrosive, non-lubricating and abrasive liquids and slurries and can even run dry without suffering damage.