Pulseless flow dosing and metering

Virtually pulse-less flow removes the need for pulsation dampeners

The unique multi-diaphragm arrangement of Hydra-Cell metering & dosing pumps from Wanner is claimed to remove the need for pulsation dampeners in many circumstances.

Hydra-Cell pumps from Wanner have multiple, hydraulically balanced diaphragms in a single head, that operate sequentially, dramatically reducing system pulsation and the damage it causes. The cost of additional pulsation dampeners, along with ongoing costs of charging and maintenance is avoided in many instances and systems become more reliable.

Pulsation is usually observed as noisy vibration in system components or rapid gauge fluctuation. This vibration can be a major problem, potentially causing component failure through fatigue or simply leakage in discharge pipe work due to pipe strain.

The Hydra-Cell pump range can accommodate measured flow requirements from 1 to 6360 litres per hour at pressures of up to 172 bar with virtually no pulsation. Hydra-Cell pumps also exceed API 675 performance requirements in terms of repeatability, linearity and steady state accuracy. They are able to pump abrasives and liquids that contain solid particles and being seal-less, can pump hazardous liquids safely and can even run dry indefinitely without suffering damage.

Further information from:

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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, wettable 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.

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