

News from Wanner

Virtually pulse-less flow removes the need for pulsation dampeners

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

Pulsation in a hydraulic system is invariably caused by the pump – specifically, a reciprocating, positive displacement pump. This type of pump generates its motive force by importing and expelling a predetermined volume of liquid with marked regularity, causing rapid acceleration and deceleration of the fluid. Pulsation is usually observed as noisy vibration in system components or rapid gauge fluctuation but can be influenced by the harmonics of individual components within the system.



This vibration can be a major problem, potentially causing component failure through fatigue or simply leakage in discharge pipe work due to pipe strain.

Hydra-Cell pumps from Wanner have multiple, hydraulically balanced diaphragms that operate sequentially, dramatically reducing system pulsation and damage it causes. The cost of additional pulsation dampeners is avoided in many instances and systems become more reliable.

The Hydra-Cell pump range can accommodate measured flow requirements up to 170 litres per minute at pressures of up to 207 bar. Hydra-Cell pumps also exceed API 675 performance requirements in terms of repeatability, linearity and steady state accuracy, and are able to pump abrasives and liquids that contain solid particles reliably due to its unique horizontal check valves and can even run dry indefinitely without suffering damage.

Further information from:

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