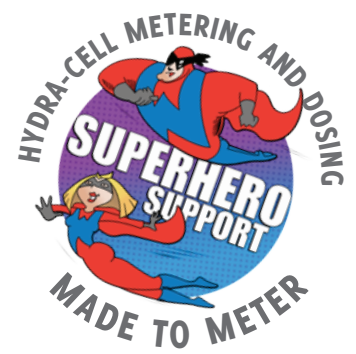


FOCUS ON METERING AND DOSING



www.hydra-cell.eu



THE FACTS BEHIND THE CLAIM

BENEFITS OF VIRTUALLY PULSE-FREE FLOW

Traditional diaphragm pumps have a single, large diaphragm operating at a slow speed to achieve the required flow rate. This type of pump generates a high pulse flow that needs expensive pulsation dampeners to make the flow useable.

Pulsation dampers work well when set correctly and are correctly and regularly maintained. However if the charge pressure goes outside of +/- 5% of the discharge pressure, pulsations build up resulting in:

- Cavitation
- High pressure losses
- Pipe strain, and chemical leaking from flanges
- Opening of relief valves due to pulsations
- Inaccuracies in flow measurement devices
- High vibrations in the pump causing small metal particles to get into the hydraulic fluid, which can get stuck in replenishment valves, leading to diaphragm failure

The multiple-diaphragm design of Hydra-Cell provides virtually pulse-less, linear flow without the need for expensive pulsation dampeners, saving your customers money.

Three diaphragms produce a virtually pulseless flow and five diaphragms an even smoother flow but it's not given that more diaphragms guarantees even soother flow.

Visit the Extranet to view the pulsation graphs that explain the principle of smoother flow and show why four diaphragms are not as good as three!

HYDRA-CELL® ... MADE TO METER

