

FOCUS ON METERING AND DOSING



www.hydra-cell.eu

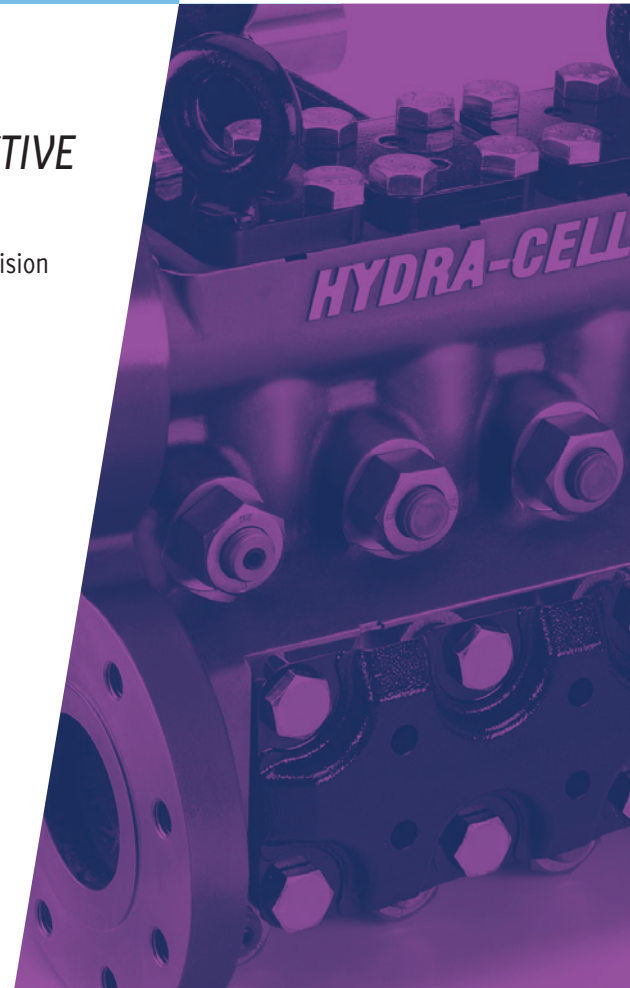


THE FACTS BEHIND THE CLAIM

PRECISE VOLUME PER STROKE, ALMOST IRRESPECTIVE OF PRESSURE

Many pumps claim to be metering pumps but only diaphragm pumps offer the precision and repeatability that qualifies them to be true metering pumps.

- Any pump with dynamic seals is 'designed to leak'. It uses the pumped liquid to lubricate the seals. As seals wear, so the leaks increase and the pumped volume decreases.
- All rotary pumps have potential internal leak paths and close tolerances. Wear causes these tolerances to change, affecting pumped volume repeatability. (This is known as slip) Changes in fluid viscosity and pressure also have a marked detrimental effect on slip.
- Gear pumps, screw pumps, lobe pumps and progressing cavity pumps do not tolerate abrasives, which generate wear that reduces the performance of the pump.
- Hydra-Cell's spring loaded disc valves are faster acting and have a more positive engagement than the ball type check valves used in the majority of traditional diaphragm metering pumps: this Hydra-Cell design assists with superior hydraulic efficiency even when processing solid particles at high speeds.



HYDRA-CELL® ... MADE TO METER