

Subject: Optimized Valve Plate Now Standard on P400 Pumps

To further improve the Wanner product line, we are releasing the "Optimized Valve Plate" for Hydra-Cell P400 Series metering pumps.

New Design

The design improvements involve geometry changes to the diaphragm pocket of the Valve Plate. The shaded area in the figure below/right represents the difference between the reduced and the standard diaphragm pockets. The reduced pocket has approximately 30% less volume than the standard pocket. In addition, the Valve Port through holes have been reduced by 6% to increase fluid velocity through the plate.

Advantages

Efficiency is improved by minimizing dead space in the diaphragm pocket and increasing fluid velocity through the plate. This reduces the risk of pump pack-out and vapor lock, results in faster, easier priming in low-speed metering applications, and provides superior performance in gaseous fluid applications.

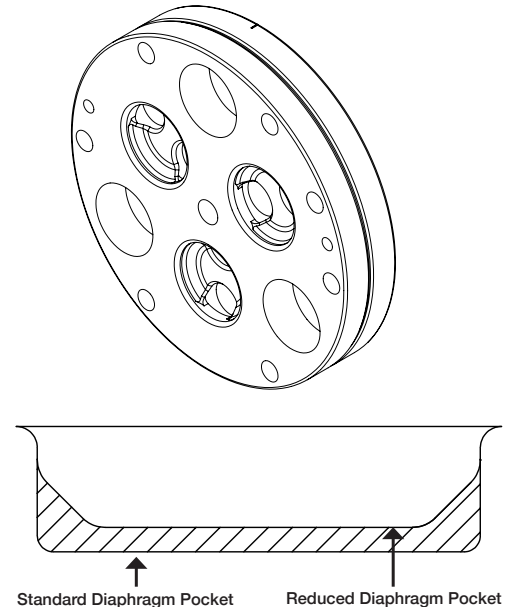
How to Order

The P400 configuration will remain the same with the Optimized Valve Plate included as standard.

It will continue to include Kel-Cell technology, and it will be available with all existing Valve Plate materials.

There is no price adder for the new design.

Note: This will take effect for all P400 pumps beginning with Serial Number 356817.



How to Order

A complete pump order number contains 13 digits based on the specified pump materials listed below.

1	2	3	4	5	6	7	8	9	10	11	12	13
P	4	0	0									

Pump Model Size (Digits 1-4)

P400

For all P400 Pumps (Kel-Cell) with Optimized Valve Plate



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