

Technical Bulletin TB0084

SUBJECT: Hydra-Cell Pro Upgrade

Pump Models Affected: H/G25, D/G35, P600, P700, AND OTHER OEM CUSTOMS

Part Numbers Affected: K25-044-1010, K25-043-1010, K25-045-3110, K25-002-1020, K35-002-1010

WHAT IS HYDRA-CELL PRO?

Wanner™ Hydra-Cell® Pro pump models withstand transient closed/restricted inlet conditions, feature improved priming, and deliver increased low-speed volumetric efficiency and higher energy efficiency over non-Pro models.

For the H/G25 and D/G35 pump series, these changes are twofold:

- Dual Bias Spring: This patented technology provides the Hydra-Cell Pro piston with advanced diaphragm position control (ADPC). Utilizing two stages of bias pressure, it delivers improved hydraulic priming during normal operation while retaining the Kel-Cell's ability to survive restricted inlet conditions.
- Grooveless Cylinders: Dual Bias Spring technology's priming ability has rendered the groove unnecessary. By removing the groove, almost no oil is able to slip past the piston on each stroke. This means efficiency improvements at all performance points, but especially at low speeds and at high pressures.

WHEN IS IT HAPPENING?

All new orders for H/G25 and D/G35 series pumps will be phased in as Hydra-Cell Pro beginning in August 2024.

The 5th digit in the order code will change from a "K" to a "P" within our product bulletins, price book, and catalog.

Orders that use alternate digits in the 5th place, such as "M" or "E", will also automatically be upgraded to Hydra-Cell Pro at the same time. Applicable orders already placed for product with deliveries scheduled past the implementation date may also be automatically updated as well.

H25 Pro Series | How to Order

Ordering Information

A complete H25 Series Model Number contains 12 digits including 9 customer-specified design and materials options, for example: H25XPBTHFECA

1 H	2 2	3 5	4 	5 P	6 	7 	8 	9 	10 	11 	12
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IS IT BACKWARDS COMPATIBLE?

Absolutely. A Hydra-Cell Pro piston can be installed into any existing H/G25 or D/G35 pump, and perform at least as well as the one it replaced. However, components within the piston assembly between a Hydra-Cell Pro piston, Kel-Cell, and 1st Generation Hydra-Cell (Non Kel-Cell) parts may not be compatible with each other, so it is strongly recommended to replace the entire piston assembly should any of those internal components need to be replaced.

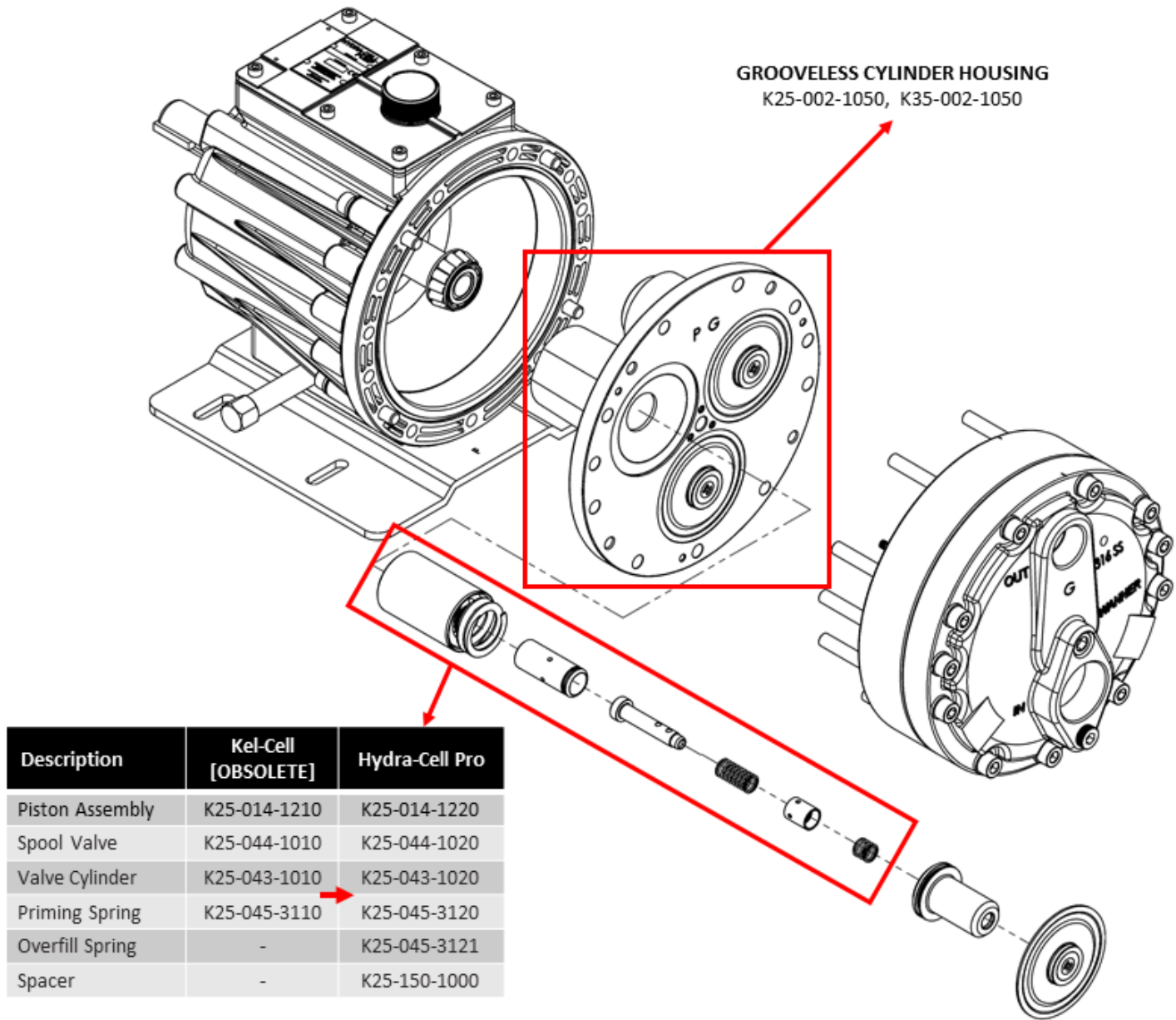
A grooveless cylinder housing requires Hydra-Cell Pro pistons to function properly.

Additionally, the full suite of performance and efficiency improvements will not be realized until all Hydra-Cell Pro components are implemented- the grooveless cylinder housing and all three Hydra-Cell Pro piston assemblies.

Our recommendation would be to order a Loaded Cylinder Housing (K25-002-125X or K35-002-125X) ahead of your next regular maintenance cycle in order to upgrade the entire pump all at once.

WHAT PARTS ARE CHANGING?

Please reference the diagram below for what you can expect to see in a Hydra-Cell Pro H/G25 or D/G35 series pump. This image shows the changes for a standard configuration. For OEM Custom pump numbers, contact your sales representative.



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