

Design Change Notification

Date: 2/01/2026

Document #: DCN-150 Laser-Cyl® / Mega-Cyl® 450 Plumbing Design Change

Subject: Effective approximately 3/15/26, the plumbing configurations of the Laser-Cyl / Mega-Cyl 450 models are being changed to include the Rotarex C-Stic capacitance liquid level assembly and the LCCM pressure building regulator. Following are the affected model P/Ns and the descriptions prior to the change.

P/N 10619659 FNL LASER-CYL 450VHP MCR LIN, LAR, LOX
P/N 10588979 FNL MEGA-CYL 450HP MCR LIN, LAR, LOX

As noted in the descriptions, the above models are sold for LIN, LAR, and LOX service. We currently sell the following separate models that are designed for CO₂ service only.

P/N 21793782 FNL LASER-CYL 450VHP MCR CO2 SERVICE
P/N 21793781 FNL MEGA-CYL 450HP MCR CO2 SERVICE

That is due to the fact that the Orange Research differential pressure gauge (DPG) used for both models requires different seals than what are used for the LIN, LAR, and LOX gauge. Because the DPG will no longer be used, those separate models are no longer required. The C-Stic is appropriate for all of the gas services. Therefore, those separate models are being obsoleted.

Additional Info: Following are the primary reasons for these changes. As stated above, all of the 450L models listed are currently supplied with a DPG. The fact that the gauge face shows the units as INCHES H₂O, this tends to confuse end users. Also, there are multiple potential leak points associated with the plumbing circuit. The Rotarex C-Stic reads the liquid level volume as 0-100% full and only has one potential leak point. Also, replacing the C-Stic if necessary is more easily done and much less expensive than replacing the DPG.

Though the LCCM and MCR regulators operate the same, the LCCM is superior from the standpoint of leak avoidance and maintainability. Due to the fact that it is bolted directly to the side of the plumbing manifold, a number of plumbing components and potential leak points are eliminated.

Products Affected: In this case, we are maintaining the same standard model P/Ns and just changing the descriptions to show the change as follows:

P/N 10619659 FNL LASER-CYL 450VHP LCCM W/C-STIC
P/N 10588979 FNL MEGA-CYL 450HP LCCM W/C-STIC

Contact: If you have questions related to these changes, please contact your Chart Customer Service Representative at (800) 400-4683. Thank you for depending on Chart to provide high quality products and services.