

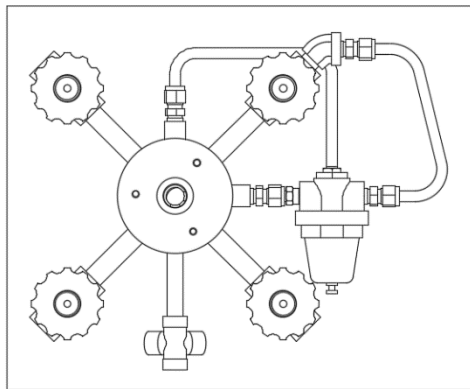
Design Change Notification

Date: August 1, 2017

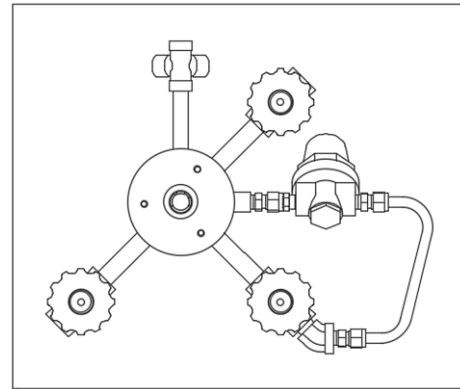
Document #: DCN-111 Cryo-Cyl[®], Dura-Cyl[®], Laser-Cyl[®] and Mega-Cyl[®] Liquid Cylinder Regulator Plumbing Configuration Change

Subject: Effective 8/1/2017, for the Chart models listed above, we will be changing the regulator plumbing configurations to improve our cylinder quality, plumbing efficiency and the long-term serviceability of our cylinders.

Description: We are improving the way we plumb our MCR style combo regulators and pressure building (PB) / economizer regulators (see drawings below). This entails changing to all Swagelok plumbing components to complement the high efficiency Generant regulators that we introduced on our liquid cylinders in June 2016. Partnering with these two companies, we have created new regulator subassemblies that make it easier to install the regulator circuits initially and to service the liquid cylinder plumbing over time. This will be a running transition starting on August 1, 2017. This change does not affect any of our LCCM combo regulator style cylinders.



New MCR Regulator
Plumbing Configuration



New LP PB Regulator
Plumbing Configuration

Contact: If you have questions or concerns relative to this action, please contact your Chart Customer Service Representative at (800) 400-4683. Thank you for depending on Chart to provide high product quality and service.