

Design Change Notification

Date: September 23, 2025

Document #: DCN-149 Economizer Model Change

Subject: Starting October 2025, Perma-Cyl MicroBulk Storage System tanks will change from Emerson FRM and FRM2 economizers to Rego 602 economizers. This conversion will take place over several months. The conversion is planned to be completed by January 31, 2025.

Background: The FRM and FRM2 Economizer regulators manufactured by Emerson have been used successfully on Chart products for many years. Due to several factors, Chart has decided to change suppliers for these regulators. Testing has proven that the Rego 602 regulator meets all the performance specifications for the products it will be used.

Products Affected: Perma-Cyl Flex Fills, Perma-Max, Perma-Cyl 450ZX, and VHRs

Description:

Perma-Cyl 1000/1500/2000/3000 Flex Fill 03 option			
Current		New	
Part number	Description		
11501177	BACK PRESS VLV BRZ 1/4"@140PSI	22476574	REG ECON MOD 1/4NPT GKT 140PSI
20885664	REGULATOR .250FPT @ 325PSI	22466956	REG ECON MOD 1/4NPT GKT 325PSI
10619675	REGULATOR .250NPT @ 475PSI	22466960	REG ECON MOD 1/4NPT GKT 465PSI

Perma-Cyl 1000/1500/2000/3000 Flex Fill 12 option			
Current		New	
2110022	REGULATOR .250NPT @ 140PSI	22460712	REG ECON MOD 1/4NPT GKT 140PSI
20885664	REGULATOR .250FPT @ 325PSI	22466956	REG ECON MOD 1/4NPT GKT 325PSI
20905985	REGULATOR .250NPT @ 465PSI	22466960	REG ECON MOD 1/4NPT GKT 465PSI

Perma-Max 2200/3300/4400/6000			
Current		New	
11388741	REGULATOR .500NPT @ 150PSI	22449899	REG ECON MOD 1/4NPT GKT 150PSI
20818549	REGULATOR .500NPT @ 325PSI	22476573	REG ECON MOD 1/4NPT GKT 325PSI

Perma-Cyl 5500			
Current		New	
20934785	REGULATOR .250NPT @ 140PSI	22460712	REG ECON MOD 1/4NPT GKT 140PSI
20934016	REG .250NPT @ 315PSI PENTAIR	22466956	REG ECON MOD 1/4NPT GKT 325PSI
20905985	REGULATOR .250NPT @ 465PSI	22466960	REG ECON MOD 1/4NPT GKT 465PSI

Pictures:



Figure 1: Current Cash FRM2



Figure 2: New Rego 602

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.