

# Design Change Notification

**Date:** July 19, 2018

**Document #:** DCN-114-Pressure Build Regulator Model Change

**Subject:** Pressure Build Regulator Change from Cash Acme to Rego  
Effective beginning in September 2018, the below listed products that currently use the A-401 regulator manufactured by Cash Acme will be changed to the PB 504 regulator manufactured by Rego.

**Background:** The A 401 PB regulator manufactured by Cash Acme has been used successfully on Chart products for many years. Due to several factors that include supply chain issues and overall technical service, Chart has made the decision to make a change in the supplier for this regulator. Testing has proven that the Rego PB 504 regulator meets all the performance specifications for the products it will be used on.

**Products Affected:** All Standard Perma-Cyl models with external PB coils, 2000 and 3000 liter FlexFill style Perma-Cyls, VLCDs and all Perma-Max models.

**Description:** The new Rego PB 504 regulator is slightly narrower from inlet to outlet than the A 401 regulator (See fig 1). For field retrofits, an adapter is required to make up the difference in length (See Fig 2). Part number is 21303540 Adapter BRS ½ FPT X ½ MPT. See Table 1 for Chart part numbers of A 401 regulators and the new replacement PB 504 regulator part numbers.



Fig 1



Fig 2

**A401 numbers:**

<b>PART NUMBER</b>	<b>Description1</b>	<b>Description2</b>
11635511	REGULATOR .500NPT @ 450PSI	CASH-ACME A-401 #21971-0450
11690211	REGULATOR .500NPT @ 300PSI	CASH-ACME A- 401 #21999-0300
11779806	REGULATOR .500NPT @ 125PSI	CASH-ACME A-401 #21999-0125
20760715	REGULATOR .500NPT @ 35PSI	CASH-ACME A-401 #21999-0035

**PB504 numbers:**

<b>PART NUMBER</b>	<b>Description1</b>	<b>Description2</b>
21267964	REGULATOR .500NPT SET @ 450PSI	REGO# PB504-450, PB REGULATOR
21267965	REGULATOR .500NPT SET @ 300PSI	REGO# PB504-300, PB REGULATOR
21267966	REGULATOR .500NPT SET @ 125PSI	REGO# PB504-125, PB REGULATOR
21267967	REGULATOR .500NPT SET @ 35 PSI	REGO# PB504-35, PB REGULATOR

**Spring Ranges**

<b>PB Regulator Number</b>	<b>PB Blank Number</b>	<b>Delivery Pressure Range (PSI)</b>
PB504-020 to -070	PB504A	20 - 75
PB504-071 to -175	PB504B	50 - 180
PB504 -176 to -300	PB504C	150 - 300
PB504 -301 to -550	PB504D	250 - 550

**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 quality products and service.