

Share:

-
-
-
-

 Like
  Share
  Share:
  Tweet

-
-
-
-



Carbo-Nation News

Volume 9, Issue 1 - January 2016

Quick Links

- [Beverage Product Manuals](#)
- [Beverage Technical Service Bulletins](#)
- [D&S Marketing Services Website](#)
- [Beverage CO2 Website](#)
- [Chart D&S Website](#)
- [Chart Parts](#)
- [Chart Repairs](#)
- [Chart Inc. Website](#)



Carbo Tip of the Quarter
Technical Service Bulletins

**New Chart Fill Line, Vent Line
and Fill Box Design for Bulk CO2
Beverage Systems**



This type of liquid level gauge is the standard gauge used on the majority of the Chart/MVE bulk beverage CO2 tanks. This gauge has a diaphragm internally that uses the differential pressure between the top and bottom of the tank to move the indicator needle from empty to full. The differential pressure is the weight of the liquid plus gas pressure on the high pressure side of the gauge versus the gas pressure on the low side of the gauge. The actual differential pressure on the beverage CO2 tanks is only 1-3psi depending on the size of the beverage tank.



Jeff Wick
Beverage Technical
Service

The gauge is calibrated at the 25% mark for better accuracy on the low end of the scale. Inaccurate readings on this gauge can be caused by a several issues, abnormally high operating pressure, leaks, blockage of internal lines or the diaphragm leaking.

High pressure, especially after a fill, can affect a less than full reading. Typically when the tank returns to normal operating pressure the gauge will display a fuller reading.

Leaks, even minute leaks, have a drastic effect on the gauge reading because of the low differential pressure. One tip to help identify which side of the gauge may be leaking is that the needle reading will identify which side is leaking. If the needle is reading lower than should be or empty the leak will be on the high pressure side (empty side) of the gauge. If the needle is reading higher than should be the leak will be on the low pressure side (full side) of the gauge.

Blockage or partial blockage of the internal high pressure (liquid side) line can also cause the gauge to read lower than normal or empty.

A small leak in the diaphragm inside the gauge can display a low or empty reading if there have been no leaks found in the plumbing circuit, this can be determined by closing both isolation valves to see if the needle goes to empty.



Chart's Parker 540 P style fill line and Series N style nylon vent line have been replaced by Accuflex 3768 series liquid CO2 fill line and Accuflex 1416C series CO2 vent line. The Accuflex series fill and vent lines have been selected for use in Chart Bulk CO2 Beverage systems because of their compatibility with beverage grade CO2, and they have been tested for exposure to temperatures down to -109.4°F by utilizing a flexible bend test. Key specs on the fill and vent lines are:

3768 Fill Line

- Comes in pre-cut lengths of 5', 10', 15', 25', 30' and 50'
- Includes factory crimped flare fittings compatible with existing fill box fill connections
- FDA/NSF compliant and plasticizer free
- 2000 psi max working pressure and 8000 psi burst pressure
- compatible with liquid CO2
- Completed flexible bend test to -109.4F

1416C Vent Line

- Comes in pre-cut lengths of 5', 10', 15', 25', 30' and 50'
- Must use compression style connections with nylon insert
- 300 psi max working pressure and 1200 psi burst pressure
- Compatible with CO2
- Completed flexible bend test to -109.4F

These new vent lines must be used with compression fittings and are not to be used with barb style fittings.

Chart is introducing a new design Fill Box for the Bulk Beverages CO2 System. The stainless steel fill box is a major component of a stationary bulk CO2 fill and vent circuit. It includes the liquid CO2 fill connection and vent line



termination fitting, which safely vents excess CO2 gas outdoors. The fill box design has changed to accommodate bulkhead style compression fittings so the Accuflex vent hose can be securely connected.

The bulkhead fitting allows the vent line to pass through the fill box back wall and connect to the elbow discharge fitting inside the fill box. This allows the termination end of the vent line to be visible for inspection when the fill box door is open. The double compression connections on the bulkhead fitting provide positive verification that the vent line is securely fastened to the fill box vent line discharge.



New Year, New Offerings on Chart Parts

It is a new year and at Chart we are making things a little easier for our customers by offering our GeN2 Nitrogen Generator on our online store, www.chartparts.com. The GeN2, coupled with a Carbo-Mizer Bulk CO2 tank, is the ideal system to provide a reliable, uninterrupted flow of individual and mixed beer gas of CO2 and nitrogen (N2). You will get a perfect beer pour every time which means happy customers and a busy cash register. So visit Chart Parts today and get your GeN2.



The Accuflex 1416C vent line must use compression fittings and should not be used with bar style fittings. The fill box depth dimension has changed to three inches deep to accommodate these new bulkhead compression fittings. The liquid CO2 fill connection has not changed on the new design fill box. It will accommodate all fill lines that have 45 degree flare fittings.

A retrofit bulkhead adapter with compression fitting is available for the 3/8" vent line, allowing older style fill boxes to accommodate the new Accuflex vent line.

The new Chart fill line/vent line kits and fill boxes will be available in January. Contact Chart Technical Support for more information or questions related to the new lines and fill box.

**YOUR CARBO TANKS
ARE SMART
@ LOCH.US**

With one scan or search from a mobile device, technicians, installers

Upcoming Trade Shows

and inspectors can access critical information about the Carbo Series tank in from of them.. INSTANTLY!

Lockhouse brings major advantages to Chart distributors including instant access to critical tank information at no charge. Lockhouse tanks are tracking ready for a tracking system and with a subscription to Lockhouse, distributors can gain access to GPS information, business analytics, distributor specific critical information, branding and more.

<http://lockhouse.com>

Contact Lockhouse representative for subscription information at jglessner@lockhouse.com

We love to see our distributors out and about so stop by our booth at any upcoming show and say "Hi!"

Jan. 27-28	Wine & Grape Symposium, Sacramento (Booth 2300)
March 6-8	Boston Seafood Show, Boston, (Booth 127)
March 7-9	Nightclub and Bar Convention and Tradeshow, Las Vegas, (Booth 744)

Upcoming Chart Events

March 29-30	Beverage Technical Training, Ball Ground, GA.
March 31	Beverage GeN2 Training, Ball Ground, GA.

QUESTIONS?

We are only a phone call away!
800.247.4446



Cathy Bartusek
Global Sales Administrator Chart D&S Group



Confirm that you like this.

Click the "Like" button.

Confirm that you like this.

Click the "Like" button.