



FCB VIPER DISPENSER

Installation Instructions

Viper (2-BRL) CO₂ Ventilation Kit

Viper (3-BRL) CO₂ Ventilation Kit



Release Date: July 14, 2009

Publication Number: 899400001INS

Revision Date: April 1, 2014

Revision: C

Visit the Cornelius web site at www.cornelius.com for all your Literature needs.

The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

This Product is warranted only as provided in Cornelius' Commercial Warranty applicable to this Product and is subject to all of the restrictions and limitations contained in the Commercial Warranty.

Cornelius will not be responsible for any repair, replacement or other service required by or loss or damage resulting from any of the following occurrences, including but not limited to, (1) other than normal and proper use and normal service conditions with respect to the Product, (2) improper voltage, (3) inadequate wiring, (4) abuse, (5) accident, (6) alteration, (7) misuse, (8) neglect, (9) unauthorized repair or the failure to utilize suitably qualified and trained persons to perform service and/or repair of the Product, (10) improper cleaning, (11) failure to follow installation, operating, cleaning or maintenance instructions, (12) use of "non-authorized" parts (i.e., parts that are not 100% compatible with the Product) which use voids the entire warranty, (13) Product parts in contact with water or the product dispensed which are adversely impacted by changes in liquid scale or chemical composition.

Contact Information:

To inquire about current revisions of this and other documentation or for assistance with any Cornelius product contact:

www.cornelius.com

800-238-3600

Trademarks and Copyrights:

This document contains proprietary information and it may not be reproduced in any way without permission from Cornelius.

This document contains the original instructions for the unit described.

CORNELIUS INC
101 Regency Drive
Glendale Heights, IL
Tel: + 1 800-238-3600

Printed in U.S.A.

TABLE OF CONTENTS

Safety Instructions	1
Read and Follow ALL Safety Instructions	1
Safety Overview	1
Recognition	1
Different Types of Alerts	1
Safety Tips	1
Qualified Service Personnel	1
Safety Precautions	2
Shipping And Storage	2
CO2 (Carbon Dioxide) Warning	2
Mounting in or on a Counter	2
Introduction	3
Document Overview	3
Parts list	3
Installation	4
Tools Required	4
Assembly Instructions	4
Regulator Assembly Instructions	4
Plumbing Line Assembly Instructions	5
Monthly Maintenance Service	11
Disclaimer	11



SAFETY INSTRUCTIONS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Safety Overview

- Read and follow **ALL SAFETY INSTRUCTIONS** in this manual and any warning/caution labels on the unit (decals, labels or laminated cards).
- Read and understand ALL applicable OSHA (Occupational Safety and Health Administration) safety regulations before operating this unit.

Recognition

<i>Recognize Safety Alerts</i>

<i>This is the safety alert symbol. When you see it in this manual or on the unit, be alert to the potential of personal injury or damage to the unit.</i>

DIFFERENT TYPES OF ALERTS

DANGER:

Indicates an immediate hazardous situation, which if not avoided, **WILL** result in serious injury, death or equipment damage.

WARNING:

Indicates a potentially hazardous situation, which if not avoided, **COULD** result in serious injury, death, or equipment damage.

CAUTION:

Indicates a potentially hazardous situation, which if not avoided, **MAY** result in minor or moderate injury or equipment damage.

SAFETY TIPS

- Carefully read and follow all safety messages in this manual and safety signs on the unit.
- Keep safety signs in good condition and replace missing or damaged items.
- Learn how to operate the unit and how to use the controls properly.
- **Do not** let anyone operate the unit without proper training. This appliance is **not** intended for use by very young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- Keep your unit in proper working condition and do not allow unauthorized modifications to the unit.

QUALIFIED SERVICE PERSONNEL

WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit. **ALL WIRING AND PLUMBING MUST CONFORM TO NATIONAL AND LOCAL CODES. FAILURE TO COMPLY COULD RESULT IN SERIOUS INJURY, DEATH OR EQUIPMENT DAMAGE.**

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

WARNING:

Disconnect power to the unit before servicing following all lock out/tag out procedures established by the user. Verify all of the power is off to the unit before any work is performed.

Failure to disconnect the power could result in serious injury, death or equipment damage.

CAUTION:

Always be sure to keep area around the unit clean and free of clutter. Failure to keep this area clean may result in injury or equipment damage.

SHIPPING AND STORAGE

CAUTION:

Before shipping, storing, or relocating the unit, the unit must be sanitized and all sanitizing solution must be drained from the system. A freezing ambient environment will cause residual sanitizing solution or water remaining inside the unit to freeze resulting in damage to internal components.

CO₂ (CARBON DIOXIDE) WARNING

DANGER:

CO₂ displaces oxygen. Strict attention **MUST** be observed in the prevention of CO₂ gas leaks in the entire CO₂ and soft drink system. If a CO₂ gas leak is suspected, particularly in a small area, **IMMEDIATELY** ventilate the contaminated area before attempting to repair the leak. Personnel exposed to high concentrations of CO₂ gas experience tremors which are followed rapidly by loss of consciousness and **DEATH**.

MOUNTING IN OR ON A COUNTER

WARNING:

When installing the unit in or on a counter top, the counter must be able to support a weight in excess of 450 lbs. to insure adequate support for the unit. Failure to comply could result in serious injury, death or equipment damage.

Note:

Many units incorporate the use of additional equipment such as icemakers. When any addition equipment is used you must check with the equipment manufacturer to determine the additional weight the counter will need to support to ensure a safe installation.

INTRODUCTION

DOCUMENT OVERVIEW

This document is used to install the CO₂ ventilation kit for the Viper 2-Barrel and 3-Barrel Units

- Viper 2B: 621260142, 621250142 and 621260142IC
- Viper 3B: 621360142, 621350142 and 621360142IC

Prior knowledge of Viper Installation and service procedures is required before attempting this installation process.

PARTS LIST

Table 1. Parts List

Item	Part No.				Description	Mat.	Spec.	Unit		
	2B	Rev	3B	Rev					2B	3B
1	910705025	A	910705027	A	Pressure reg. for prod. del. (front)	-	W/Mod. brass body Assem.	No	1	1
2	910705026	A	910705026	A	Pressure reg. for expan. tank (side)	-	W/Mod. brass body Assem.	No	1	1
3	77060100	-	77060100	-	Barb Tee	SS	1/4" Barb (3)	No	5	7
4	77040400	-	77040400	-	Barb Elbow	SS	Barb 1/4"x1/4"	No	7	8
5	620717794*	-	620717794*	-	Beverage Tubing	PET Barrier tube	0.265" ID, 0.375" OD, EATON SYNFLEX TASTE-RITE 4227-0600 Pet Barrier Tube, NSF51, MAX Temp. 150 °F, SK3498-001, 1-11-0806259"	ft	15	26
6	309854000	-	309854000	-	Oetiker Clamps	SS	Open 0.413 - Close 0.350	No	50	55
7	77900500	-	77900500	-	Y Connector	SS	1/4" Y Barb w/ 1/4" Barb Stem	No	2	2
8	770001353	-	770001353	-	Check Valve	SS	1/4" Barb End	No	1	1

* Length of Beverage Tubing depends upon the specific store conditions.

INSTALLATION

TOOLS REQUIRED

- Adjustable Wrench
- Oetiker Pliers
- Tube Cutters for beverage tubing

ASSEMBLY INSTRUCTIONS

Regulator Assembly Instructions

1. Turn OFF the Power, Water and CO₂ supply to the machine.
2. Release the excess CO₂ pressure from the regulators via the Pressure Relief Valve. Assemble Modified Regulator P/N 910705025 or 910705027 (Viper 2B or 3B respectively) & 910705026 (common between 2B & 3B)
3. Assemble bracket to its original position in machine.
4. Assemble all line connections to their original position.
5. Assemble pressure switch on the replaced side regulator (P/N 910705026) using PTFE tape. Be careful not to disturb any of the electrical connections.

Plumbing Line Assembly Instructions

1. Cut the braided hose tube as shown in the reference diagram (Figure 1 or Figure 2).

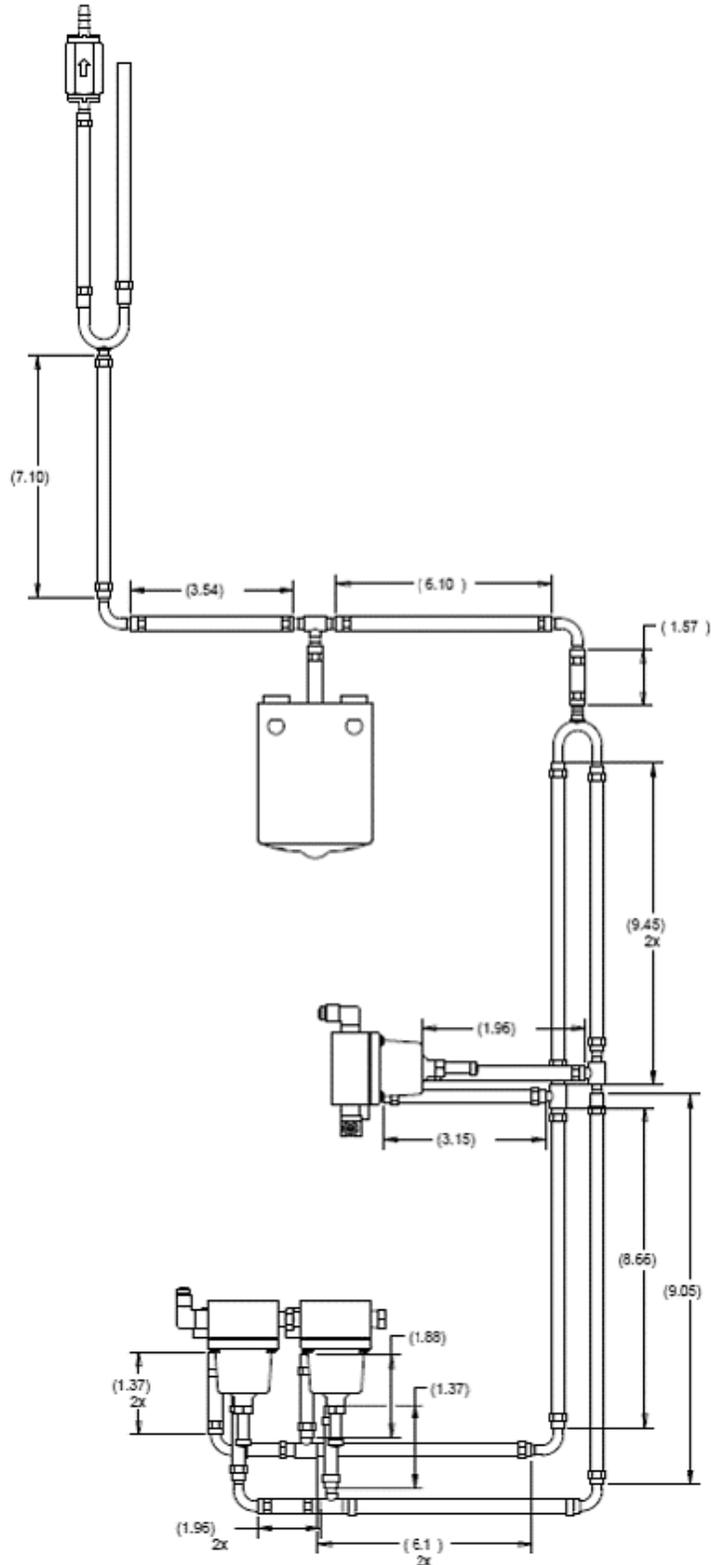


Figure 1. Approximate Cut Lengths for Tubes, Viper 2 Barrel

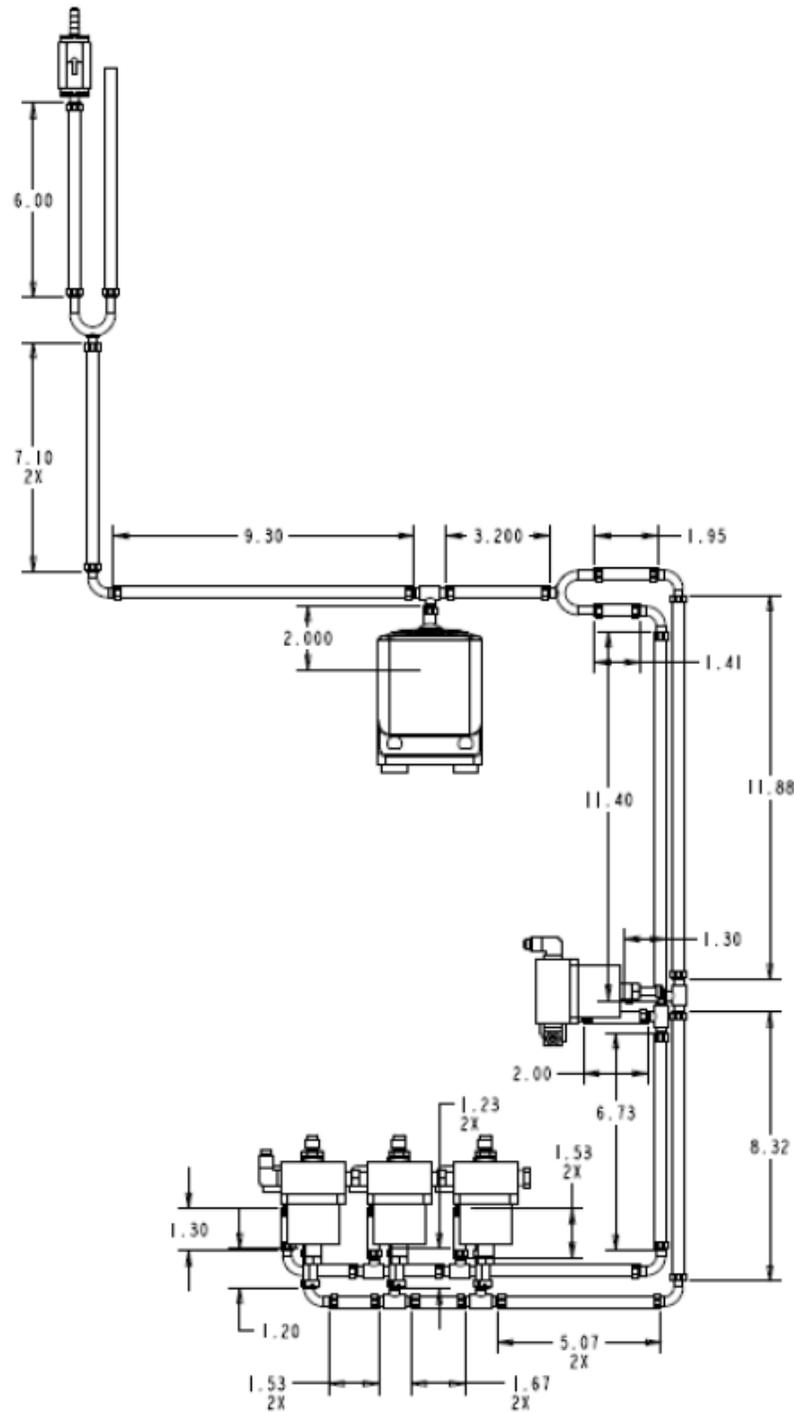


Figure 2. Approximate Cut Lengths for Tubes, Viper 3 Barrel

2. Connect Braided Tubes to Adapter Barbs with Oetiker Clamps and route the tubes as shown in Figure 3 and Figure 4 for 2-Barrel units and Figure 5 and Figure 6 for 3-Barrel units, so that the exhaust tube runs to a naturally ventilated area.

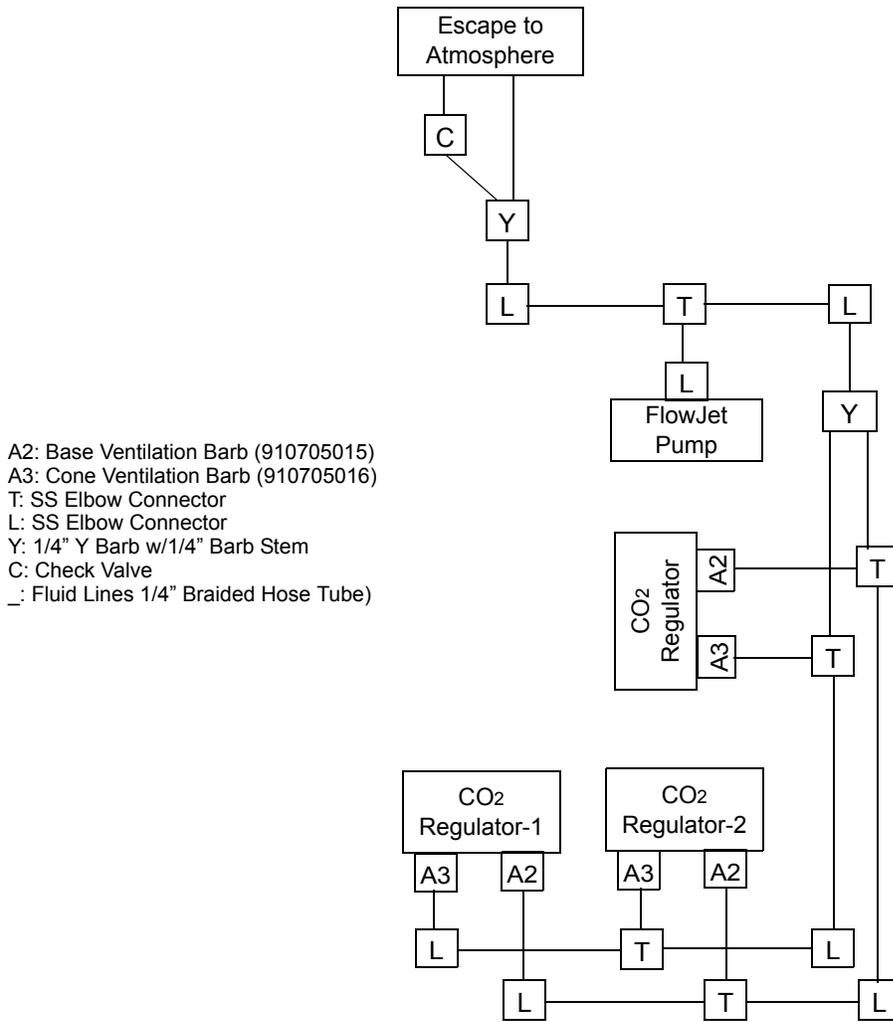


Figure 3. Representative Plumbing Line Diagram, Viper 2 Barrel

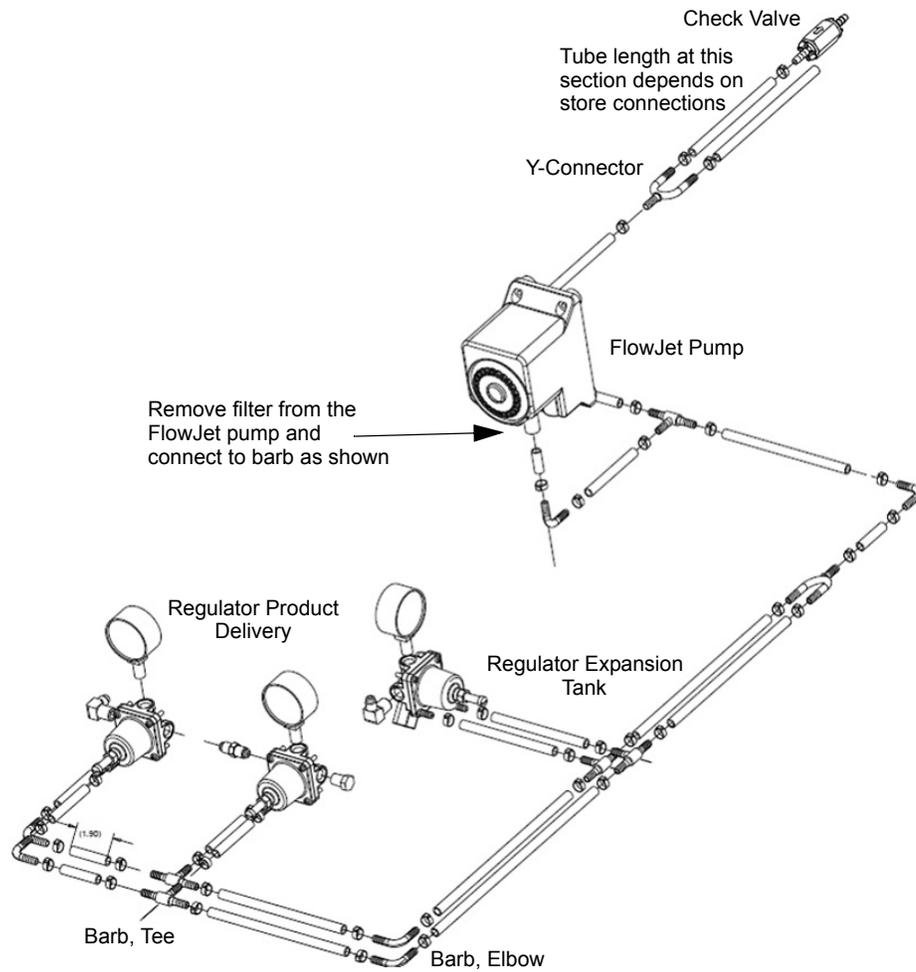


Figure 4. Representative 3D Plumbing Line Diagram, Viper 2 Barrel

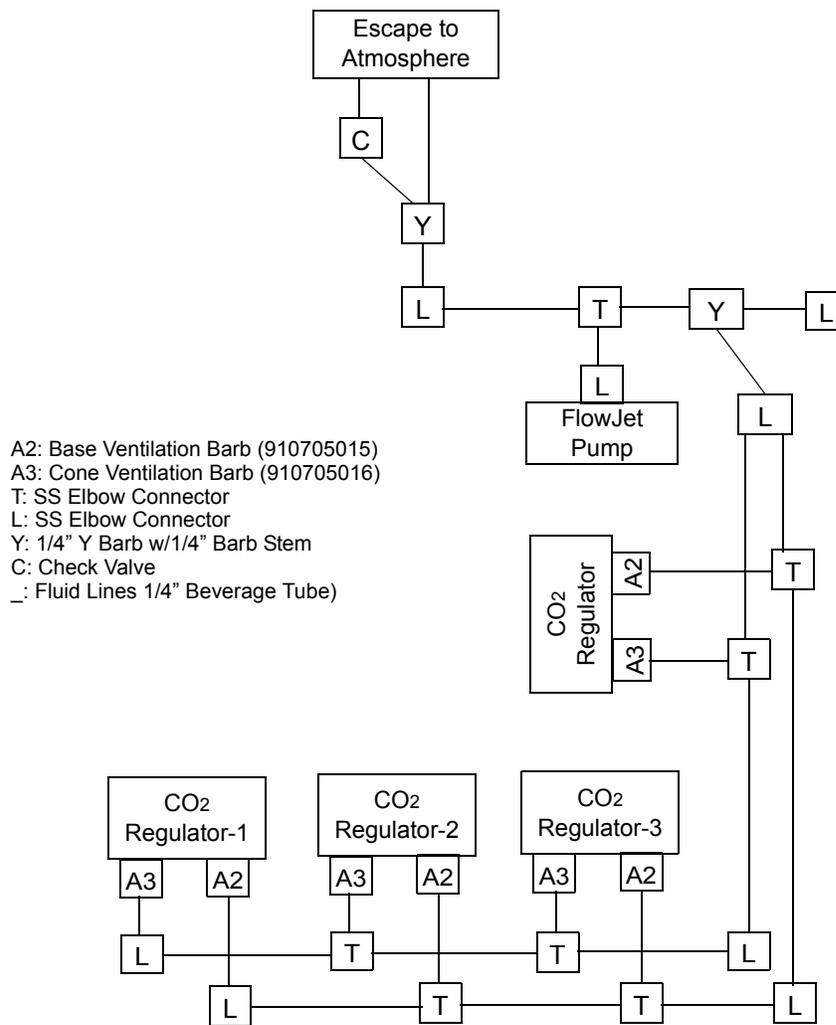


Figure 5. Representative Plumbing Line Diagram, Viper 3 Barrel

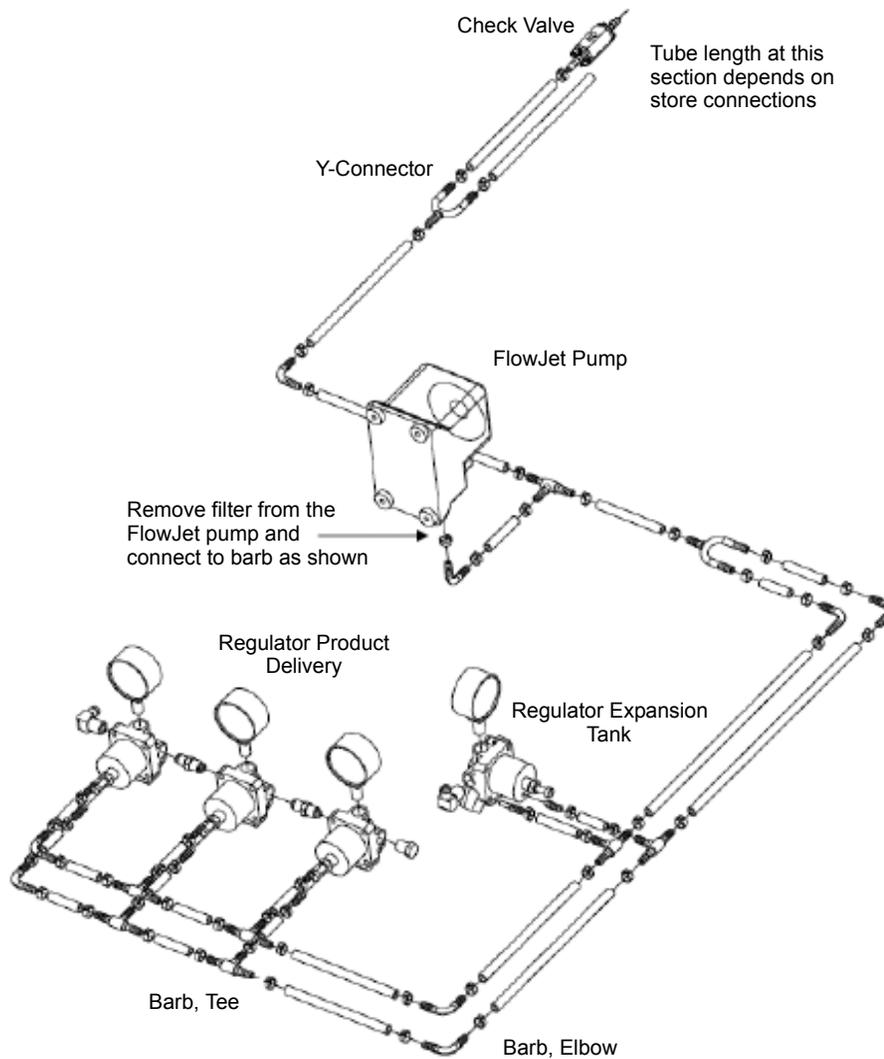


Figure 6. Representative 3D Plumbing Line Diagram, Viper 3 Barrel

MONTHLY MAINTENANCE SERVICE

The following procedure should be performed on a monthly basis to insure proper maintenance of the Viper equipment.

1. Check all joints for any leakage.



WARNING:

Perform the following steps before any service is attempted.

2. Shut OFF power, water & CO₂ supply before installation/service.
3. Release system pressure before installation/service.
4. Connect all the braided tubes up to the full length of the adapter barb.

DISCLAIMER

Installation of the on-site vent tubing (by others) from Cornelius equipment to a safe discharge termination or point - Failure to comply with the Australian CO₂ Code/Mandate (AS 5032-2005: Installation and use of inert gases for beverage dispensing) in addition to the governing national-state-local codes may result in serious personal injury or loss of human life.



Cornelius Inc.
www.cornelius.com