

XpressFill

XF2500 Counter Pressure Filler

Operating Instructions



Congratulations on the purchase of your XpressFill bottle filling machine.

Thank you for choosing our handcrafted bottle filler as the technology to bottle your passion. We look forward to assisting you in experiencing the best performance from your filler.

This manual is written with your safety and convenience in mind. We highly recommend reading the manual before using your filler for the first time.

If you have any questions or comments, please do not hesitate to contact us.

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Important Safety Instructions

Misuse of the bottle-filling machine can result in serious injury or death. Do not use the machine in any way not covered in this manual or for any purpose other than those explained in the following pages.

Severe product damage and/or injury could result from the use of unqualified Service Technicians or non-original replacement parts. All repairs must be performed by a qualified Service Technician or with the approval from an XpressFill Technician. Only original factory replacement parts should be used.

Electrical shock or fire could result if the electrical supply for the bottle filler covered in this manual is not correctly installed or if the bottle filler has been improperly grounded. Do not use the bottle filler covered in this manual unless you are certain the electrical supply has been correctly installed or the bottle filler has been properly grounded.

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1 Introduction

XpressFill Product Guarantee

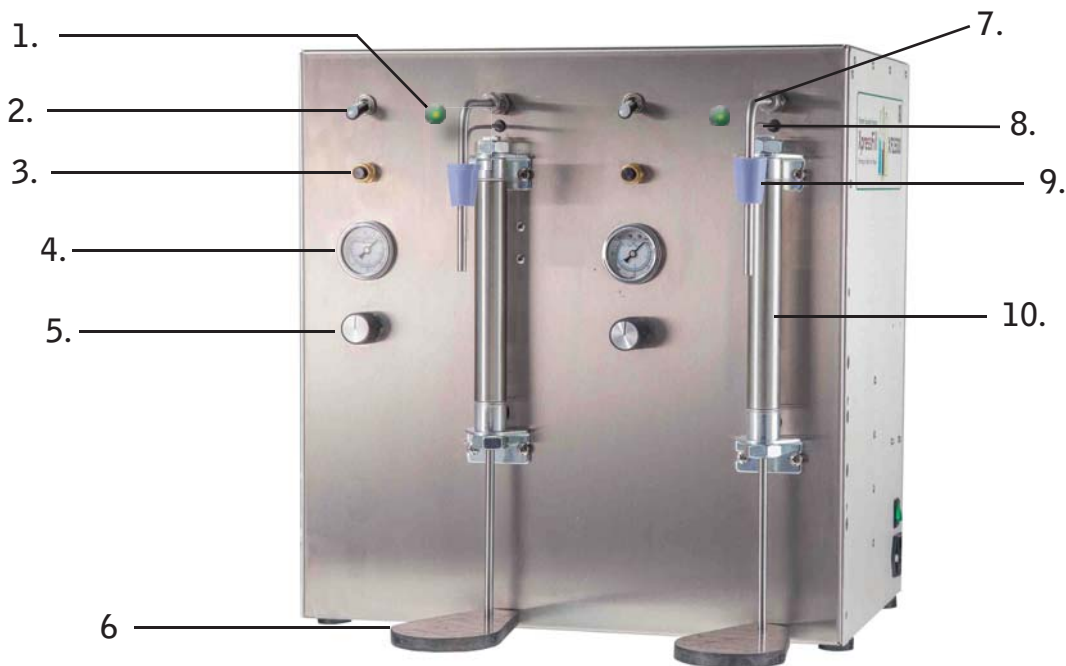
We guarantee our products to be free of defects in materials and workmanship. The filler will be repaired or replaced if, upon inspection at the factory, the filler is found to be defective in materials or workmanship.

This guarantee does not apply to damage resulting from normal wear and tear, accident, abuse, negligence or shipping. The guarantee will be rendered invalid if the customer has made repairs or alteration to the machine without first consulting XpressFill Systems LLC.

2 Know Your Filler

The below diagram highlights the important features on your filler, which will be referenced throughout this manual. Being familiar with each of these and their functions will make your filling experience easier.

- | | |
|------------------------------------|---|
| 1. Bottle fill indicator light | 6. Bottle rest foot |
| 2. Fill sequence start/stop switch | 7. Upper spout / product filling |
| 3. Quick pressure release button | 8. Lower spout / pressurizing & release |
| 4. Bottle interior pressure gauge | 9. Bottle neck filling stopper |
| 5. Bottle interior adjustment knob | 10. Pneumatic ram |



1. Fill Indicator Light - This green light will turn on while the liquid is flowing from the spout.

2. Fill Switch - The fill switch turns the flow of liquid on and off for each side. The flow is off when the switch is in the down position. It will glow red when the machine is plugged in and turned on. The switch will glow green once switched to the up position, indicating the fill sequence has begun.

3. Pressure Release Button - This button will manually release the pressure inside your bottle. It will be used at the end of each fill sequence or in case of emergency.

4. Bottle Pressure Gauge - This gauge displays the pressure inside the bottle, which should be lower than the pressure inside your keg or liquid reservoir. (See our operating instructions for our recommendations for what each of these gauges should display).

5. Bottle Pressure Adjustment Knob - This knob allows you to adjust the pressure inside your bottle. Turning the knob counterclockwise will lower the pressure, while turning it clockwise will increase the pressure. This will typically only need to be adjusted when setting up your filler for the first time with a new liquid.

6. Bottle Foot Rest - These feet will hold your bottle securely in place once the fill sequence is started. Avoid putting your hands between the bottle and the foot to prevent injury.

7. Upper Spout - This spout is used for the gas flush and filling sequences.

8. Lower Spout - This spout is vented to relieve the pressure in your bottle and acts as the sensor for the automatic level filling system.

9. Stopper - The stopper seals your bottle and helps to control the level your bottles is filled to. While the stoppers are already set for the level of a typical 12 oz. beer bottle, they can be adjusted up and down on the spout to fill to your own specifications.

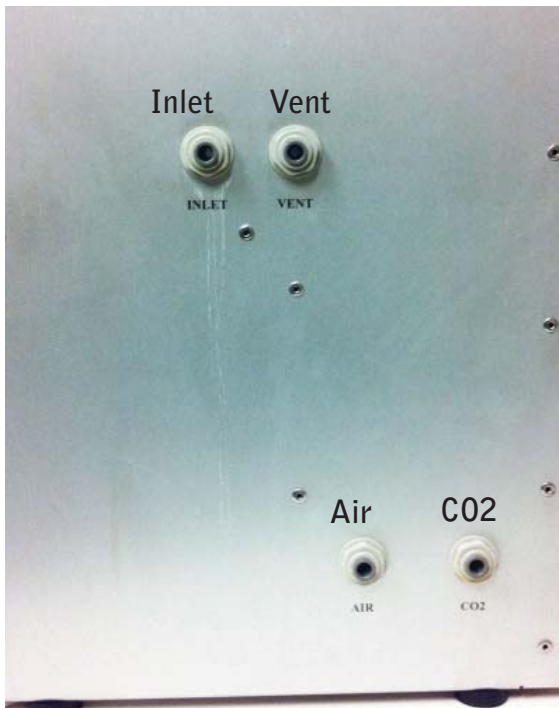
10. Pneumatic Ram - The pneumatic ram actuates the bottle and foot rest and are activated when the filling sequence begins

3 Setting Up Your Filler and Filling Your First Bottle

Required Equipment

1. XF2500 Bottle Filler
2. Pressurized CO2 Tank and Tubing
3. Air Compressor and Tubing (an additional CO2 tank can be used or a 'Y' fitting from your CO2 tank)
4. Outlet Container and Tubing

Figure 1



Connect the air/CO2 and inlet from the keg tubing to their respective attachment points shown in Figure 1. (Some air/CO2 and liquid will come out of the vent in operation. The tube labeled Vent leading to a catch container should be connected at the Vent port to collect any liquid.)



Figure 2

- | | |
|--------------------------|---|
| 1. Air Compressor | 5. Pressurized Keg |
| 2. CO2 Tank | 6. Line to “Inlet” input on Filler |
| 3. CO2 Regulator | 7. CO2 line to “CO2 input on Filler |
| 4. CO2 Line to Keg Inlet | 8. Compressed are line to “Air” input on Filler |

Your filler is factory set for 30 psi keg pressure and 25 psi bottle pressure.

The recommended operating pressures for the CO2 and air compressor are listed to the right. Please keep in mind that varying temperatures and product properties will mean that adjusting the pressures will be necessary for your product. You are encouraged to adjust these pressures carefully until you find a combination that works for your product and bottling environment.

Air: 30 psi recommended

CO2: 30 psi recommended

Warning: Please follow the recommended settings of the equipment you are using. Exceeding manufacture recommended settings may result in injury to self and others, as well as damage and/or failure of the machine.

Please see page 5, “Adjusting Pressures” to set pressures outside the recommended settings.

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Operating Procedures

Step By Step

1. You will first want to unpack your filler from the shipping box and spread the components out on a large flat surface. You will want to make sure that you also have the following:
 - i. CO2 tank with regulator and connecting tubes (we recommend a wye as well, see setup diagram for details).
 - ii. Air compressor and hookup tubings
 - iii. A small (.5 liter or so) catch container for collecting vented liquid
2. Place your filler on a flat surface where you plan to bottle, ensuring that you have access to a standard wall outlet or extension cord. Place the liquid and CO2 tanks, as well as the air compressor, nearby.
3. Begin by plugging the provided power cord into your machine, and then plug it into the wall. Now is a good time to make sure that when you turn the machine on, the green power switch lights up. The fill switches on the front of the machine should glow red.
4. Toggle the fill switches and make sure that they are red in the down position, and green in the up position. Waiting a few seconds after flipping the fill switch to the up position should result in the green fill lights also activating.
5. Once you are sure that you have power to the machine, flip all switches to their down or off positions.
6. Plug the hose from your liquid container into the port marked "Inlet" on the left side of the machine using one of the provided ¼" barbed fittings. See "Adjusting Pressures" on page 5.
7. Plug one end of the provided 4' x ¼" tube into the port marked "Vent" on the left side of the machine, and place the other end into your catch container.
8. Plug your air compressor into the port marked "Air" on the left side of the machine using one of the provided ¼" barbed fittings. Your filler is factory set for 30 psi keg pressure and 25 psi bottle pressure. See "Adjusting Pressures" on page 5.
9. Plug your CO2 tank into the port marked "CO2" on the left side of the machine using one of the provided ¼" barbed fittings.
10. Once you are sure that all components are plugged in correctly, you can open the valves on your tanks and turn the air compressor on.
11. Turn on your machine by flipping the power switch on the right side of your machine so that it is lit up. Your fill switches should now glow red.
12. You are now ready to place a bottle on your machine. Using your right hand, slide a bottle up onto the stopper and hold in place.

13. With your left hand, pull the bottle foot rest up to the bottom of the bottle.
14. Still holding the bottle in your right hand, take your left hand and flip the fill switch to the left of your bottle to the on position (it should light green). You should feel the bottle foot rest engage, and it should now be safe to release the bottle with your right hand.
15. After a few seconds, you should see the fill light activate and liquid will begin to flow. Repeat steps 12-14 for the other spout.
16. Once the green fill light deactivates, firmly grip the bottle in your right hand and press it up against the stopper.
17. With your left hand, press and hold the pressure release button to the left of the bottle. You will see the pressure gauge drop to zero. Once it has reached 0 psi, pull the bottle off the stopper. A slight twisting action may help with removing the bottle.
18. Congratulations, you have now filled your first bottle using the XF2500 Filling System!

Adjusting Pressures

Should your filler need to be adjusted from the preset recommended settings, follow the steps listed below. Adjusting the pressure takes some coordination, so it is recommended that you read through and understand all of the following steps before attempting this.

1. Follow steps 1-11 outlined in the setup instructions, setting the keg and CO2 pressures to your required values rather than to the recommended settings.
2. Using two fingers, turn the bottle pressure adjustment knob counterclockwise until it becomes difficult to turn. Using too much force may damage the valve.
3. Follow step 12-14 outlined in the setup instructions. Once the bottle foot rest is engaged, quickly switch to turning the bottle pressure adjustment knob clockwise while watching the bottle pressure gauge until the desired internal pressure is reached. The goal is to reach the desired value before the purge process ends, see note below for details. This value should be roughly 5 psi lower than the keg pressure, but the optimal value for your needs may vary.

NOTE: You will only have a few seconds to adjust the pressure during the gas purge process before the liquid begins filling. It is more difficult to accurately adjust the machine once liquid starts flowing, so it is recommended that you follow steps 16 and 17 in the setup instructions to cancel the filling process, and repeat step 3 in this guide until the desired pressure is reached.

4. Once you have reached the desired internal bottle pressure as indicated on the bottle pressure gauge, it is recommended that you fill 1-3 test bottles to ensure the desired results have been achieved. Small adjustments can be made using the same steps as above.
5. Repeat process on other spout.

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Trouble Shooting

If at any time you have issues with the setup or adjustment of your XF2500 bottle filling machine, or any other questions about filling your product, please contact us at the number listed at the front of this manual. We are always happy to assist you.

Premature Shut Off

The XF2500 is a Level Fill machine, meaning when liquid touches a spout and probe, it will automatically shut off. If moisture is allowed to collect between the spout and the probe, the filler will shut off prematurely, stopping the fill or not allowing the fill to begin at all, which is characterized by the green LED fill indicator light to flash quickly and stay off as the machine senses a full bottle is in place.

Dry the area between the spout and the probe with a clean towel or use the compressor to air dry. Once completely dry, the fill will resume. Isopropyl Alcohol is very good for cleaning and is fast drying.

Excessive Foaming

Excessive foaming is usually the result to the keg pressure not being high enough, or the indicated pressure on the filler gauge is too low. The difference between the keg pressure and the counter pressure indicated on the filler should be around 5 psi. The higher the pressure, the more the CO₂ will stay in solution.

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Cleaning

Cleaning your XpressFill is quick and easy, and is the single most important maintenance you can administer to ensure long life and solid performance from your filler. Please use extreme caution when using any cleaning product.

For general cleaning, we highly recommend a product called PBW by Five Star Chemicals. It is safe, fast, and effective, and our customers have been happy with the results. To clean your XpressFill, begin by flushing your filler with 2 gallons of plain warm (not boiling) water from a pressurized keg, which is pressurized with air. Follow that with a 3-gallon mix of PBW cleaner, and let the PBW sit inside your filler for a few minutes in order to do its cleaning job. Follow the cleaning with a sanitizer.

For sanitizing, we recommend Saniclean, from the same manufacturer. Saniclean has low-foaming characteristics, is highly effective, and completely food grade if diluted correctly per the manufacturer's instructions. Use the sanitizer with about 3 gallons of water, and follow the steps according to the manufacturer's instructions. After sanitizing, flush your filler with 2 gallons of warm water. Before storing your XpressFill filler, make sure you get all water out of the flow path. Allow to run until pressurized keg with cleaning solution is empty and runs dry, blowing the remaining water out of the filler vent.



1. Cleaner to "Inlet" and "Sensor / Gas Probes"
- 2 & 3. Tubing connecting to "Probes and Vent"
4. Hose from Keg
- 5 & 6. Tubing connecting to "Spouts"
7. Tubing connecting to "Catch Container"
8. Tubing from "Vent" to "Catch Container"