

Operating Instructions





ii | XPRESSFILL Systems LLC

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.

Safety Warnings

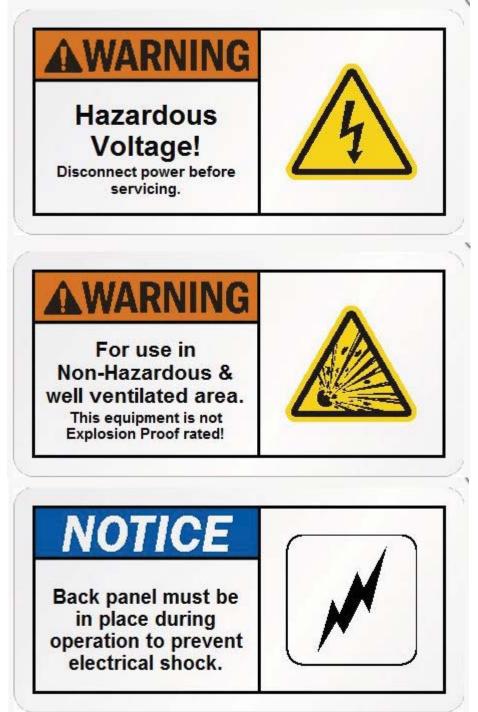


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1 Introduction

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.

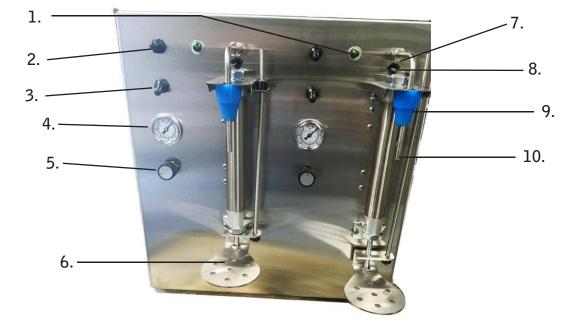
This guarantee does not apply to damage resulting from normal wear and tear, accident, abuse, negligence or shipping. The guarantee will be rendered invalid if the customer has made repairs or alteration to the machine without first consulting XpressFill Systems LLC.

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



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

2. Fill Switch - The three (3) position fill switch turns the fill cycle on (up position), turns the fill cycle off but maintains a seal (center position), and releases the bottle supporting foot rest after the bottle pressure has been safetly released (down position).

3. Pressure Release Switch - This switch electrically activates a pressue release valve to release the pressure inside your bottle. It will be used at the end of each fill sequence or in an 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 starting a new filling session and during cleaning. **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. Larger Spout - This spout is used for the gas flush and filling sequences.

8. Smaller 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

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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 input labeled Vent leading to a catch container should be connected at the Vent port to collect any liquid.)

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Figure 2

- **1.** Air Compressor
- 2. CO2 Tank
- 3. CO2 Regulator
- 4. CO2 Line to Keg Inlet

- 5. Pressurized Keg
- **6.** Line to "Inlet" input on Filler
- 7. CO2 line to "CO2 input on Filler
- 8. Compressed are line to "Air" input on Filler

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.

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 tubingsiii. 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. Attach the support legs by sliding the legs between the enclosure and the rubber feet. The support legs should extend forward, however if you extend them out the back you need to clamp them to the flat surface.
- 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.
- 4. Once you are sure that you have power to the machine, flip all switches to their down or off position. This includes all Fill Switches and all Pressure Release Switches.
- Plug the hose from your liquid container into the port marked "Inlet" on the left side of the machine using one of the provided 3/8" barbed fittings. See "Adjusting Pressures" on page 5.

- 6. 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.
- Plug your air compressor into the port marked "Air" on the left side of the machine using one of the provided ¼" barbed fittings. See "Adjusting Pressures" on page 5.
- **8.** Plug your CO2 tank into the port marked "CO2" on the left side of the machine using one of the provided ¼" barbed fittings.
- **9.** 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.
- **10.** Turn on your machine by flipping the power switch on the right side of your machine so that it is lit up.
- 11. You are now ready to place a bottle on your machine. While pressing down on the Bottle Foot Rest, place a bottle on the Bottle Foot Rest and allow the Bottle Foot Rest to lift the bottle towards the Stopper. The bottle does not seal yet, let it rest in place near the stopper.

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- 12. While the bottle is in place, turn on the Fill Switch to the full up position. This begins the fill cycle: first the bottle will purge for a few seconds, then the foot will lift and the bottle will pressurize for a few seconds. When the fill begins, the LED at the top of the machine will light and the fluid solenoid will open. If no liquid is flowing, adjust the bottle interior pressure. Adjust the knob counter clockwise (open) to the desired flow rate. If the flow is too fast, you may adjust the bottle interior pressure knob clockwise (close) to slow down the flow rate.
- **13.** When the fluid has reached the desired level, the fill light will go out and the fluid solenoid will close. Place the fill switch to the center position which will deactivate the

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fill light and solenoid circuit. In the center position the Bottle Foot Rest is still engaged.

14. While the Bottle Foot Rest is still engaged, turn on the Pressure Release Switch (UP). This allows the bottle to depressurize. Place the fill switch to the full down position and the Bottle Foot Rest will disengage, allowing you to remove the bottle for capping. After removing the bottle and before you place your next bottle on the machine, turn off the Pressure Release Switch (DOWN).

Congratulations, you have now filled your first bottle using the XF2500 Filling System!

Note: You can use the silicone surgical tubing included to fill from the bottom of the bottle or even halfway to the bottom.

Adjusting Pressures

Should your filler need to be adjusted, 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.** 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. This value should be roughly 5 psi lower than the keg pressure, but the optimal value for your needs may vary.
- 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.

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, too high fluid temperature 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 CO2 will stay in solution.

6 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 lowfoaming 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.

See diagram on following page.



Attach cleaning hoses as pictured above. Tubing and connectors are supplied in the power cord bag.

- 1. Flip the Fill/Flush switch to flush mode (Rocker switch located left of machine).
- 2. Place bottles under spouts.
- 3. Turn on the main power switch (Green rocker switch located right side of the machine).
- 4. Turn on spout switch, full on position all the way up. Turn on the Pressure Release Switch (UP) to allow flushing through the vest area.
- Also, turn the pressure release knob on top, counter clockwise to open up the valve for fast flow.
- 5. Let solution fill the bottle completely and allow it to run for a while after full.
- 6. Turn the spout switch to the middle position (stop fill).
- 7. Turn on the spout switch again all the way up (This runs the purge cycle again and allows the CO2 flow path to be cleaned as well). Repeat step 7 a few times.
- 8. When satisfied with the cleaning put the Fill/Flush switch back to Fill mode (down).
- 9. Turn off the Fill Switch completely (down). This will allow you to remove the bottle and empty it of the remaining cleaning solution. Also turn off the Pressure Release Switch (down)
- 10. This is the end of part one of the two part process for cleaning your machine.



Attach cleaning hoses as pictured above. Tubing and connectors are supplied in the power cord bag.

- 1. Turn on main power switch with bottles in place (Green switch located right side).
- 2. Make sure the Pressure Release Switch is in the off position (down).
- 3. With gas line on turn on spout switch and allow gas to flow through the filling system.
- 4. Turn spout switch to middle position, and then back up to full on position. Repeat this several times to fully allow the purge path to ventilate.
- 5. Turn the release pressure knob at top of machine clockwise to close valve about half way, approximately ten turns.
- 6. Turn on the Pressure Release Switch for maximum ventilation through the flow path.
- 7. When you are satisfied with the results, turn off both the Fill Switches and Pressure Release Switches (down) and then you can remove the bottles.
- 8. Turn off the air/gas supply and remove all the hoses.
- 9. Turn off the machine.