



QR version

Hi

Thank you for your purchase. My SPUNDit has been well received with more than 3000 units sold world wide - all handcrafted. I have perfected it with version 2.0 which has built-in pressure indicator (*the color bar on the clear adjustment tube so you can calibrate the color with the pressure gauge*) and can be disassembled for cleaning and sanitizing in case of contamination with krausen. It's really a spunding tool that can do just about everything for pressure brewing... and do so elegantly. It's also upgradable with new diaphragm and stronger spring for higher pressure. Version 3.0 may include digital fermentation tracking using temperature, pressure and FERMonitor's sonic data. All cool stuff!

Since you are seasoned homebrewer, I only need to point out a few key points:

1. The output port is on the Airtrol valve. The auxiliary port is behind the pressure gauge.
2. Please do not over tighten for risk of cracking the 1/8" NPT ports (4 turns max.)
3. Fill the included miniature FERMonitor blow-off bottle half full. Watch when the bubbles start/stop and the pressure gauge while adjusting the PRV knob to set the pressure inside your fermenter. This is only possible with SPUNDit. You'll love it.
4. You can finger-mount SPUNDit with its knurled 1/4" swivel flare. The pressure gauge is mounted on its side so you can read on either left or right.
5. The adjustments are very fine, so you have to make many turns to get the desired settings. CW to increase and CCW to decrease the tank's pressure. The ends of the adjustments where you feel a strong resistance. *Each rotation increases/decreases pressure by approximately 1.5 psi.*
6. *Please be sure to have plenty of head room in your fermenter so krausen can't get in the SPUNDit. However, it's now possible to clean out the diaphragm valve if krausen got inside.*
7. Disassembling & cleaning procedure:
  - a) **DO NOT unscrew/remove the PRV main housing.** You may break its threaded ports.
  - b) Turn the adjustment CCW to 0 to relieve the spring tension.
  - c) Unscrew/remove the 4 screws on the clamp face to remove the adjustment housing.
  - d) Remove the diaphragm to clean it and the PRV housing with warm water & Star San.

The pressure gauge is suitable for gas and liquid so you can flush the SPUNDit main body with warm water and Star San before reinstalling the diaphragm on the PRV. **Be careful and do not over tighten the 4 black screws to strip the threads on the housing. Remember it's the O-ring that makes the seal - not the hard plastic. All you need is to slowly and evenly bring the hard surfaces to barely touch each other on all sides - no need to over tighten the screws!!!**

I appreciate any feedbacks and suggestions. It's a work-in-progress and you are a part of it. Your questions are always welcome. Please share your experience with others.

*You now own the best spunding tool in the world. It's built like a fine racing bicycle that can always be rebuilt and upgraded for life. You probably can pass it to your grand kid.*

Thank you & Cheers!

Trong Nguyen - hacker | inventor | maker | brewer

PS: The PRV of our SPUNDit is now used in Ford Motor Company's ventilators for treating Covid-19.

## USEFUL TIPS:

1. The stainless steel disconnect is nice but it does not engage on the post as smoothly as the plastic one. To overcome this annoyance and to keep the O-ring on the post lasts longer, please moisten the rubber O-ring with water or, better yet, Star San solution before engaging/mounting the stainless steel disconnect. It's also helpful to twist the disconnect slightly while pushing it down onto the post.
2. To make the auxiliary port more convenient to use, I created a silicone PLUG KEEPER so you don't have to worry about losing the plug. Such a simple solution, but I could not find it everywhere so I made it. And, being silicone which is stretchable and has no memory, it can be used on many things and different plugs. You can also neatly wrap it around the plug and it stays wrapped. So neat!
3. You can use SPUNdIt to pressure-ferment 2 fermenters at the same time by hooking the 2nd fermenter to the auxiliary port. And you will not to lose the plug with my Plug Keeper. I have all necessary tubing and hardware for this.
4. Start at **green bar** (on the clear adjustment housing) to get about 4-5 psi after yeast pitching and to void sucking water from the miniature FERMonitor as the yeast consume oxygen during propagation phase. Turn the adjustment knob CCW all the way to dead stop to release the pressure to open your fermenter for dry hopping. Afterward, turn the knob to **yellow bar** to pre-set to about 15 psi for the rest of the fermentation. Use your FERMonitor to calibrate your pressure gauge.
5. To remove the plug or the FERMonitor from the push-to-connect fitting, pull back the retaining collar (**blue** on the auxiliary port and **black** on the output port) with the forefinger and thumb of one hand and pull out the plug/tube. To reconnect, just push the plug/tube in until it stops.
6. Last but not least. Be a big brew brother and tell your brew buddies about SPUNdIt and how much you love it. Thanks!



## INSTRUCTIONS FOR **miniature FERMonitor** as used with SPUNDiT

I am including this complementary **miniature FERMonitor** so you can have more fun with your SPUNDiT.

Just fill 1/2 full with **water** & insert the 6mm OD fitting of the miniature FERMonitor to the OUT port of SPUNDiT and watch the gas bubbles to fine tune your SPUNDiT adjustments. The bubbling starts when your SPUNDiT adjustment matches the pressure inside your fermenter. To increase pressure inside your fermenter, turn the knob on SPUNDiT clockwise and watch the gauge reading as the bubbling starts again. To decrease the pressure, turn the knob counter-clockwise and the bubbling will be fast and then settled back to normal pace when the pressure matches the setting on SPUNDiT. You can make fine & precise adjustment more easily with a FERMonitor.

1. It's a lot of fun to watch the bubbling behaviour during fermentation to monitor the progress of your brew. If you're fermenting with a Fermentasaurus or a clear fermenter, you can correlate the turbulence of your fermenting wort, the pressure reading and the bubbling activities.
2. The bubbling behaviour would also let you know when fermentation is done .
3. To do keg purging, you could either connect from:
  - a. SPUNDiT outlet to Liquid-OUT post of the keg being purged and its Gas-IN post to FERMonitor
  - b. Gas-IN post of your fermenter to Liquid-OUT of the keg being purged and its Gas-IN port to SPUNDiT
4. For closed transfer from fermenter to receiving keg:
  1. Pressurize your fermenter & the receiving keg.
  2. Connect Liquid-OUT post of fermenter to Liquid-OUT post of the receiving keg and SPUNDiT on its Gas-IN post.
  3. Lower the head pressure of the receiving keg by turning the SPUNDiT's adjustment knob down (counter-clockwise) and watch the beer flows by the bubbling activities of the FERMonitor. You have total control of how slow/fast the transfer is by playing with your SPUNDiT. Increase the receiving keg's head pressure to slow down the flow as the keg is getting full to avoid over foaming.
5. To do counter-pressure bottling, connect:
  1. CO2 source to Gas-IN post of your keg and pressurize it to 2-5 PSI
  2. Liquid-OUT post of fermenter to IN port of your bottle filler
  3. SPUNDiT to exhaust port of your bottle filler (via the auxiliary port or the 1/4" FFL)
  4. Turn SPUNDiT's adjustment knob down (counter-clockwise) to control the filling process with the least foaming.

Hope you enjoy your **miniature FERMonitor**. Fermenting beer/wine has never been so fun!

Please call or email with questions or comments and share your thoughts with your brewing buddies. We need all the help we can get to popularize this concept. And your feedbacks as early adopters are greatly appreciated.

Thank you.

Trong Nguyen  
hacker | inventor | maker | brewer  
trong@homebrewerLAB.com  
+1 (916) 997-6703

## How to install the Collar Clamp

Being so small, the collar clamp is strong but fragile and breaks easily under stress during screwing if done incorrectly. The 4 screws need to be screwed in slowly in small sequential steps at a time to avoid exerting uneven lateral stress on the collar clamp. Remember, it's **the O-ring that does the sealing** - not the hard plastic components. The collar clamp only needs to barely touch the valve main body to squeeze the O-ring in place. So, please do not over-tighten the screws unnecessarily and ruin the 4 holes on the valve main body. The O-ring lasts a long time. I include one O-ring along with 2 collar clamps in a clear package. Please tape this package on a wall or vertical surface so you can see and find it when you need it. Do not put it in a draw because it will disappear!

Oh! one more thing, the tiny brass screw on the knob gets lost very easily and almost impossible to find locally. If you lost it, you could use a flat blade screw driver to make the adjustment until you find another knob with 1/4" shaft.

### Steps to replace the collar clamp or O-ring:

1. Relieve the adjustment spring pressure by turning the knob ccw until it stops
2. Remove the knob from the adjustment housing. Be mindful of the tiny brass screw - it loves to hide!
3. Unscrew the 4 black screws and carefully separate the collar clamp from the body. You may have to tilt it slightly outward on the far edge (from the pressure gauge)
4. Remove the collar clamp to remove the O-ring
5. Roll a new O-ring down the adjustment housing tube
6. Place the old and/or new collar clamp on the adjustment housing tube and gently and even push it over the O-ring. Use your thumb and forefinger of one hand to keep it there
7. Place the spring back in the tube. *I forget doing this (put the spring back in place) all the time and had to remove and redo everything.*
8. Align the collar clamp on the face of the main body and use the thumb and forefinger of the other hand to hold it in place (against the main body) while inserting the 4 screws (with the now free hand) and slowly screw them down as described above so it barely touches the main body. Remember, tiny small turns of the screw driver at a time and do it in sequence on the 4 screws.
9. Enjoy your **SPUNDit**. You got the best spunding valve!

