Hydro Test Guide

FermZilla Tri-Conical 27L & 55L | Hydro Test Guide

This instruction sheet contains vital information that is related to safely performing a hydro test of a FermZilla tank which is past its Hydro Test date. It is vital that you read this instruction sheet
from front to back before performing this test!

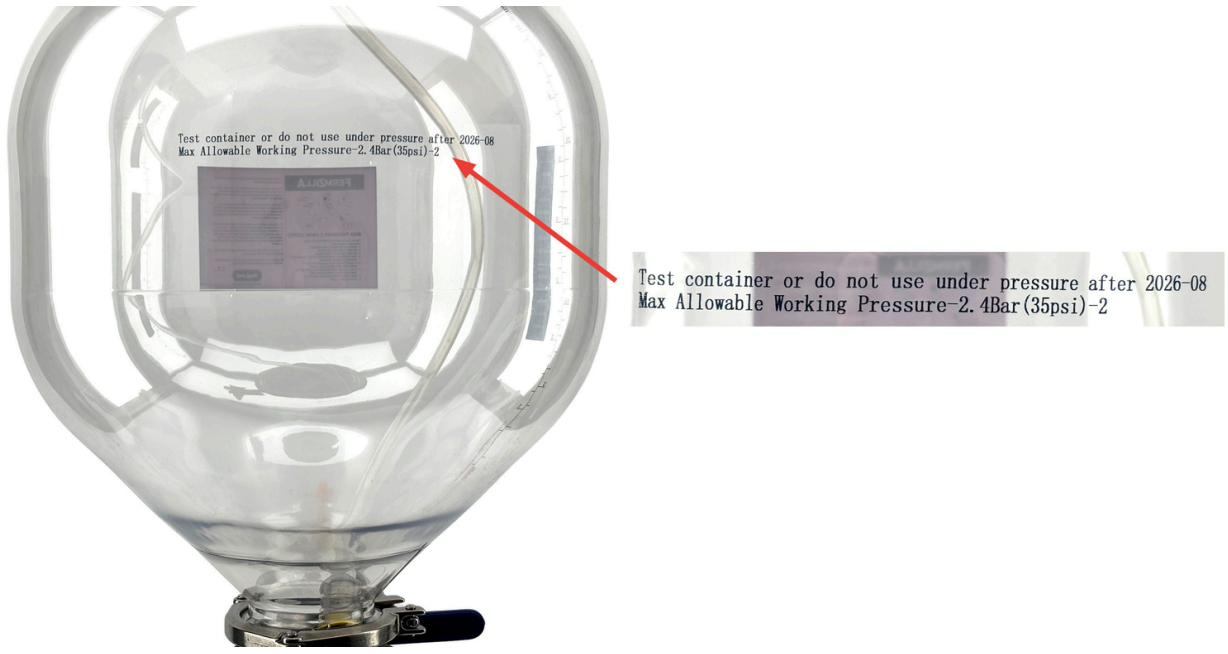
THIS IS FOR YOUR OWN SAFETY

Hydrotesting is a simple process that anyone can do at home with relatively basic tools and equipment.

If you have any doubts in the process or do not have time to do the hydrotest then once the tank has
expired you should not continue to use the tank under pressure. Replacement new tanks can be
purchased from KegLand Distributors

Determining if your tank requires hydro testing

All FermZillas have a Date Stamp on the tank body as below



Date Stamp | FermZilla

This date is the date after which the tank needs to be Hydro Tested before using under pressure.

NOTE: If you are not using the FermZilla under pressure then it does not require hydrotesting.

IMPORTANT INFORMATION ABOUT THE DATE STAMP

The Date Stamp on the FermZilla tank is 24 months after the manufacture date. This is a good guide as to when the tank requires hydro testing.

However, if the FermZilla has been correctly stored in the original, unopened carton then it is not required to Hydro Test until 24 months from the date of purchase.

The tank will remain in 'as new' condition when stored correctly in an unopened carton as it is not exposed to UV or chemicals etc.

Please make a note of the date of purchase of the FermZilla and **ensure it is Hydro Tested 24 months from the date of purchase**

Hydro Testing Process

Do not perform the Hydro Test with an empty tank

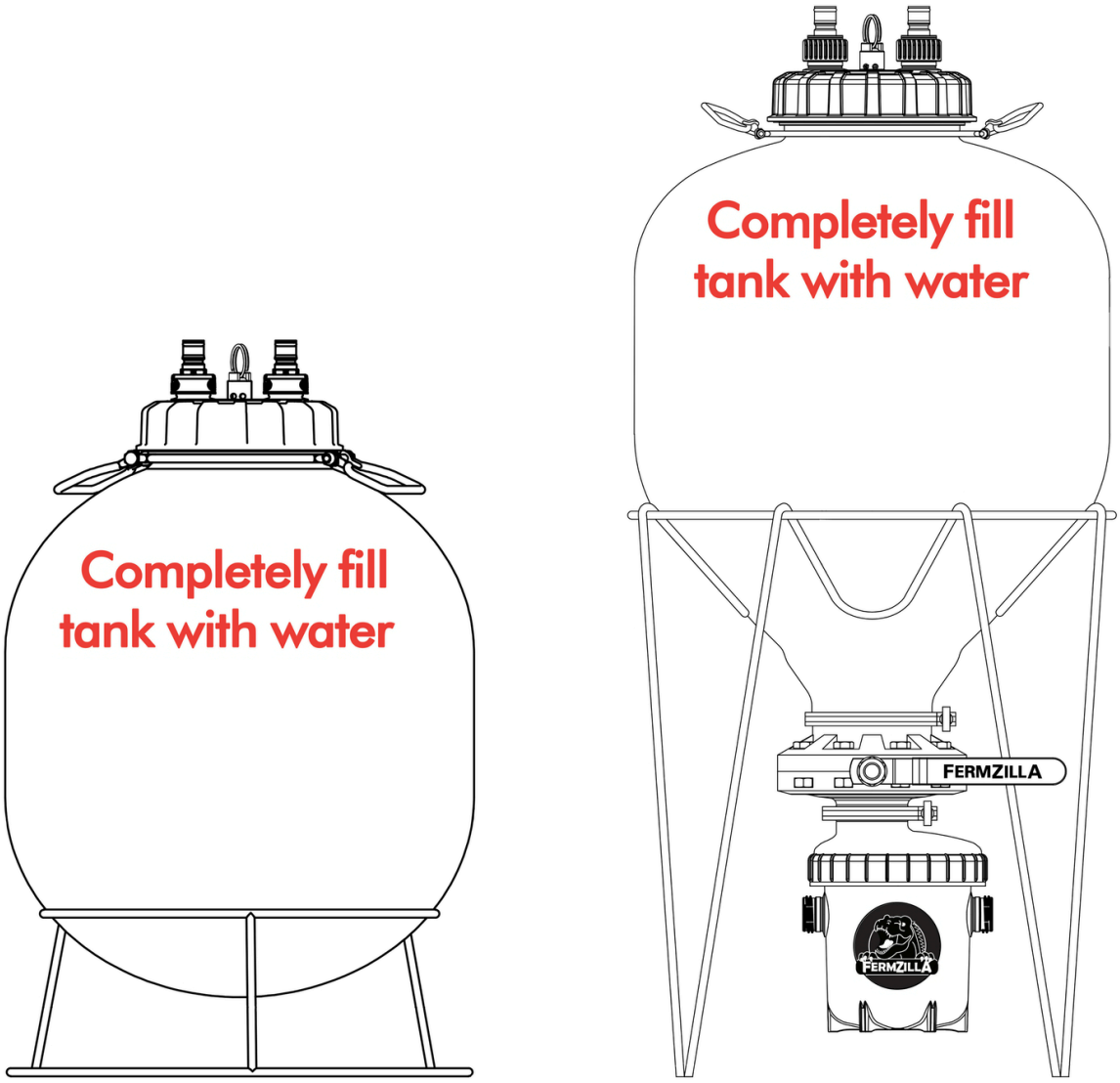
Fill the tank with water to the brim before testing.

The reason it is important to fill the tank with water when testing is because water is incompressible. This means in the event that the tank fails the test the resulting rupture will be safe. If the tank is filled with compressible gas such as CO2 then the failure will have significantly more stored energy and the resultant failure can be much more dangerous.

Thus it is important to completely fill the tank with water prior to testing

1. Assemble the FermZilla (if required). Fill the tank to the brim with water
2. Remove the red 2.5bar PRV from the FermZilla lid and replace with a grey 6.5bar PRV ↗. **NOTE**: Ensure this PRV is swapped back for the red 2.5bar PRV immediately the test is complete. DO not operate the FermZilla with the incorrect PRV installed

3. Once the FermZilla is filled with water and the lid in place, slowly apply pressure to the tank. It is important to apply pressure in a controlled manner. There are two methods to apply pressure in a controlled manner



Fill FermZilla tank completely with water prior to testing

Mains Water Pressure Testing

1. Connect mains pressure water to a length of 6.35mm EVABarrier with an inline regulator and liquid disconnect. You can use a KL13888 duotight - 6.35mm (1/4'') x 3/4 inch BSP Thread Female ↗ to connect to a 3/4" tap outlet, or a KL17756 6.35mm Diverter Valve 1/2" BSP ↗ to connect to a standard under sink outlet

2. Use a short length of KL42789 Black Lightshield 6.35mm EVABarrier ↗, a KL26918 6.35mm Inline Regulator ↗ and a KL24235 6.35mm duotight Disconnect - Liquid ↗ to make a mains connected water line with inline regulation and a liquid disconnect to attach to the liquid post on the FermZilla
3. Connect a KL11532 duotight 0-150psi push in gauge ↗ to a KL20756 8mm duotight Disconnect - Gas ↗. This will be used on the FermZilla to accurately measure the pressure in the tank
4. Ensure the Inline Regulator is set to 0psi - the yellow knob should be turned all the way anticlockwise. Connect the liquid disconnect to the liquid post of the FermZilla.
5. Connect the gas disconnect and gauge to the gas post of the FermZIlla
6. Slowly turn the yellow handle of the Inline Regulator until the pressure reaches 4 bar (60psi). Confirm this pressure on the gauge attached to the gas post of the FermZilla. **Note: It is normal for the FermZilla tank to swell in size and stretch during the hydro test**
7. Once 4 bar has been reached, stop increasing pressure. Leave everything connected for 1 minute. Remove the liquid disconnect (connecting the tank to mains pressure water). Inspect the FermZilla tank. **If the tank has not failed then the FermZilla has been successfully passed the Hydro Test and does not need testing for a further 24 months**
8. **If there are any visible cracks or damage, or if the tank ruptures then the Hydro Test has failed and the tank will need to be replaced**

Hydro Test - Mains Water Setup

Water Pressure Transfer from Cornelius Keg

1. Fill a Cornelius Keg and the FermZilla to be tested completely with water
2. Connect the Cornelius Keg to a regulated gas source such as a KL01489 2.6kg ↗ or KL01496 6kg CO2 cylinder ↗ and and a KL07429 MK4 Type 30 Regulator ↗
3. Ensure the line out from the regulator is terminated with a gas disconnect such as a KL20756 8mm duotight Disconnect - Gas ↗
4. Ensure the regulator is set to 0psi - the knob should be turned all the way anticlockwise
5. Daisy chain the Cornelius Keg from the Liquid (Out) Post of the keg to the Liquid Post of the FermZilla to be tested using a length of EVABarrier and 2 x Liquid Disconnects. A length of KL06224 4mm x 8mm EVABarrier ↗ and 2 x KL20749 8mm duotight Disconnects - Liquid ↗ is ideal for this
6. Connect a KL11532 duotight 0-150psi push in gauge ↗ to a KL20756 8mm duotight Disconnect - Gas ↗. This will be used on the FermZilla to accurately measure the pressure in the tank. Connect the gas disconnect and gauge to the gas post of the FermZIlla
7. Slowly and in a controlled manner adjust the regulator until the pressure reaches 4 bar (60psi). Confirm this pressure on the gauge attached to the gas post of the FermZilla. Ensure that water is being transferred into the FermZilla, not gas. **Note: It is normal for the FermZilla tank to swell in size and stretch during the hydro test**
8. Once 4 bar has been reached, stop increasing pressure. Leave everything connected for 1 minute. Remove the liquid disconnect connect the keg to the FermZIlla. Inspect the FermZilla tank. **If the tank has not failed then the FermZilla has been successfully passed the Hydro Test and does not need testing for a further 24 months**
9. **If there are any visible cracks or damage, or if the tank ruptures then the Hydro Test has failed and the tank will need to be replaced**

Hydro Test - Cornelius Keg Setup