



Weldless Ball Valve, Plug & Thermometer Installation for AMCYL Beer Brewing Kettles

Weldless Ball Valve Installation:

1. Start the weldless fitting installation with the ball valve assembly first for ease of accessibility on future steps.
 - Apply Teflon tape to one side of the threads (the side that will be outside the kettle) on the included threaded nipple.
 - Use 5-6 full rotations of tape on the threads to ensure a leak-proof seal.
2. Attach the ball valve to the threaded nipple by threading it on hand tight.
 - When attached, pass the threaded nipple through the bottom port of the kettle until the ball valve is in contact with the other wall.
3. While holding the ball valve/threaded nipple assembly in place from the outside of the kettle, take the included red round silicone O-ring and put it around the threading of the nipple on the inside of the kettle. Push the o-ring on until it is in direct contact with the inside wall of the kettle and threads are visible inside of kettle.
4. Take the stainless steel lock nut (with grooved side inward) and thread this in and onto the threaded nipple on the inside of the kettle.
 - While still holding the ball valve in place, tighten the lock nut until the silicon o-ring is compressed and the ball valve feels secured on the outside of the kettle.

Plug Installation: (**Note, the plug is used when no thermometer used, skip if using thermometer)

1. These directions are very similar to the valve installations instructions above except you need to make sure you use a ¼" Teflon tape on threads because you don't have much thread to work with (you can use ½", but fold it in half). We actually use ¼" on all of these parts.
2. You have one extra washer with this plug. It is a white washer that goes in the front between plug and front of kettle wall (vs red washer which goes on the inside as with the valve instructions above).

Thermometer Installation:

Again, you repeat the steps used for the valve, but with some extra parts. Once again apply 5-6 rotations of Teflon tape to the threads of thermometer.

1. Pass through the open probe/threads through the upper kettle port and into the kettle. This installation uses two extra parts from the valve. It has a metal washer that goes in the very front (directly behind thermometer valve on the shaft) followed by a white washer.
2. Hold the thermometer in place and at the desired viewing position while placing the silicon o-ring around the threads on the inside of the kettle.
3. Use the included stainless steel lock nut (grooved side inward) and thread on until the o-ring is compressed and the thermometer feels secure.

Final Test:

Fill the brewing kettle with water to the anticipated usage levels to test for leaks. If a leak is found, first try tightening the lock nut(s) further from the inside of the kettle. Otherwise, the Teflon tape may need to be re-applied and tested again for leaks.