



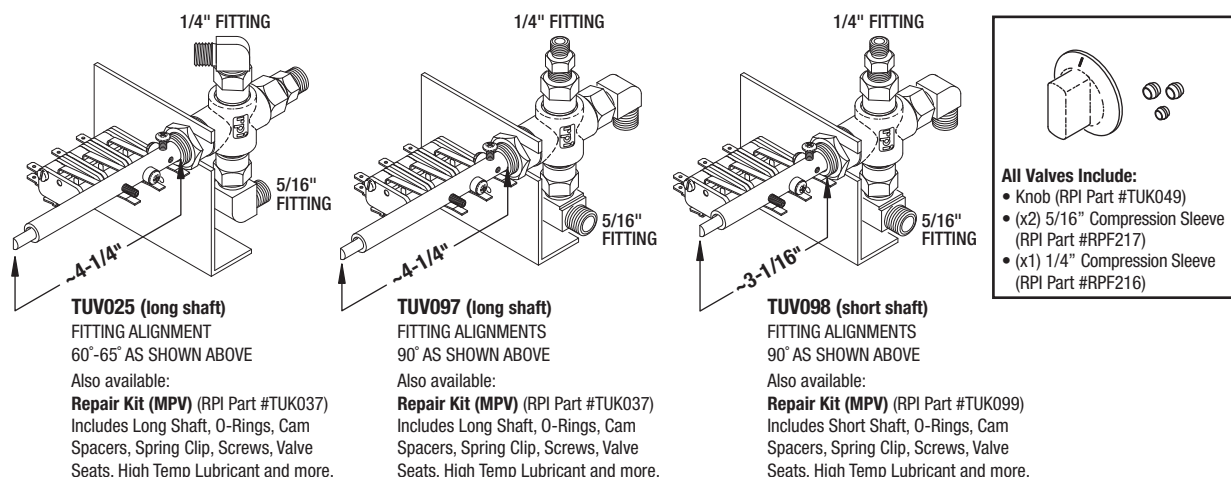
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## TUV025, TUV097 & TUV098 MULTI-PURPOSE VALVE ASSEMBLY INSTALLATION INSTRUCTIONS & WIRING DIAGRAMS

**IMPORTANT NOTE:** ValueKlaves manufactured with the Multi-Purpose Valve on the right side of the machine utilized either the *Long* or *Short* Shaft versions. If you have any questions regarding which valve to use, please contact RPI Technical Support at 800-221-9723, x135 or email techsupport@rpiparts.com.



- 1) Unplug the power cord from the wall circuit.
- 2) Remove the machine's outer cover.
- 3) Drain the water from the water reservoir.
- 4) Turn the knob of the Multi-Purpose Valve to "Sterilize - STE". Remove the knob and note the position of the switch levers with reference to the flat on the shaft. All switches should be in the "non-depressed" or "open" position – refer to "Microswitch Operation" Table, **Figure 1**.
- 5) Unscrew and remove the three copper water/steam lines that connect the reservoir and chamber to the Multi-Purpose Valve.
- 6) Unscrew and remove the two (2) bolts that secure the Multi-Purpose Valve to the machine base.
- 7) The Multi-Purpose Valve is no longer held in place and can be removed from the frame. Rotate the valve so that you can note the proper position of the wires on the microswitches. This is important to note for reinstallation. Refer to the **Wiring Diagram** in **Figure 2** on the reverse side of this page.
- 8) Remove the Multi-Purpose Valve from the machine.
- 9) Place the knob on the shaft of the new Multi-Purpose Valve and rotate to the "Sterilize - STE" position – the same position in which the old Multi-Purpose Valve was set to in Step #4. Remove the knob.

10) Reconnect all of the wire connections to the microswitches. The microswitches on the new Multi-Purpose Valve may be a different style than the ones on the old Multi-Purpose Valve, so take note of the "Common", "Open" and "Closed" positions when rewiring. Based on model, refer to the corresponding **Wiring Diagram** in **Figure 2** on the reverse side of this page.

11) Position the new Multi-Purpose Valve in place and reconnect the three (3) copper water/steam lines. Take care not to cross thread the compression fittings. Refer to **Figure 1**.

12) Reinstall the two (2) bolts that anchor the Multi-Purpose Valve to the machine base.

13) Install the new Knob (RPI Part #TUK049).

14) Turn the Multi-Purpose Valve in a clockwise direction to make sure it rotates smoothly and verify that the valve cannot be rotated counter-clockwise.

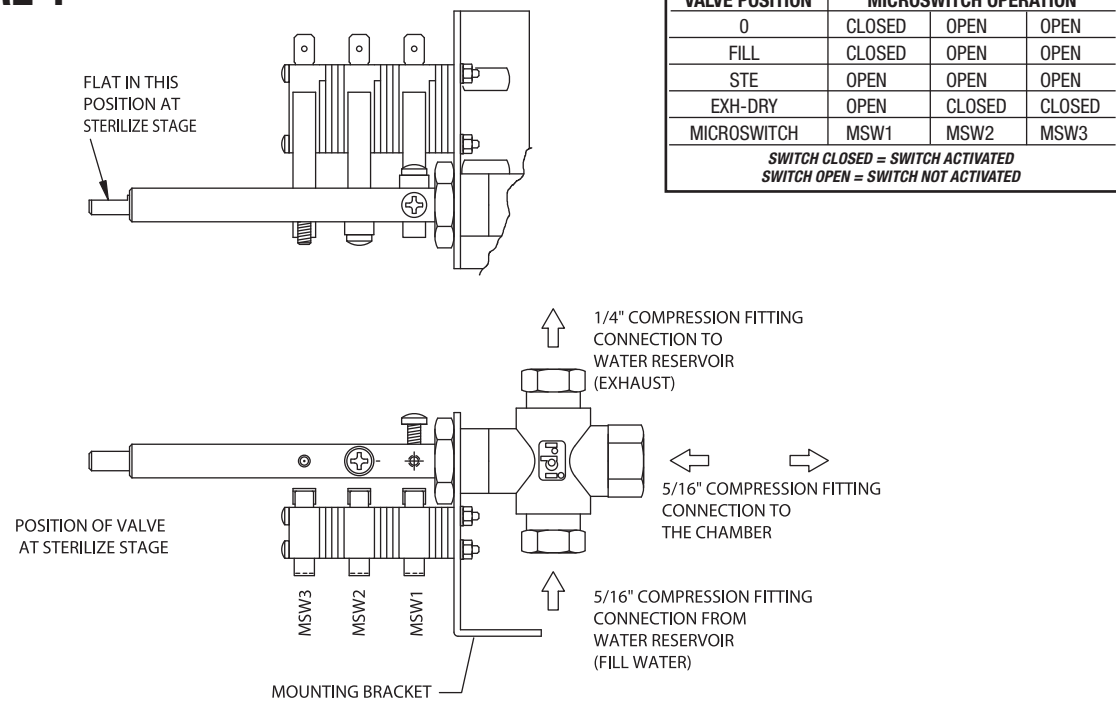
15) Fill the water reservoir with water. Plug the power cord into the wall circuit and run the machine through a normal cycle looking for leaks at all fittings and connections.

**If no leaks are detected**, proceed to step #16.

**If leaks are detected**, unplug the sterilizer and pull the Safety Relief Valve to release the pressure in the chamber. Verify the integrity of the connection and, if necessary, replace fittings using 5/16" Sleeves (RPI Part #RPF217) and 5/16" Compression Nuts (RPI Part #RPF221) or 1/4" Sleeves (RPI Part #RPF216) and 1/4" Compression Nuts (RPI Part #RPF220) as required. Do a final check to insure that all connections to the microswitches are still intact. Plug the power cord into the wall circuit. Run complete cycles to insure that all plumbing connections are leak free.

16) Unplug the power cord. Replace the machine's outer cover. Plug the power cord into the wall circuit. Run the machine through at least one more complete cycle.

**FIGURE 1**



## FIGURE 2 WIRING DIAGRAM

### Schematic of Current Tuttnauer Models 2340M/MK & 2540M/MK

Although the schematic below applies to the current 2340M/MK & 2540M/MK Models of Tuttnauer sterilizers, it can be used as a reference for all of the other manual models as well. Variations to the wiring of manual models is common among Tuttnauer sterilizers. For a list of the variations that might be encountered when servicing these sterilizers, **see the listing below.**

#### Variations Between Tuttnauer M/MK/MKV Wiring

- Single vs. Dual Circuit Breakers
- Circuit Breaker(s) or Fuse
- Wiring of Thermostat (Manual or Automatic reset)
- Single or Dual Thermostat
- Wiring of Heat Light or Dry Light
- With or without Door Switch
- Number of Heating Elements required

VALVE POSITION	MICROSWITCH OPERATION		
0	CLOSED	OPEN	OPEN
FILL	CLOSED	OPEN	OPEN
STE	OPEN	OPEN	OPEN
EXH-DRY	OPEN	CLOSED	CLOSED
MICROSWITCH	MSW1	MSW2	MSW3
<b>SWITCH CLOSED = SWITCH ACTIVATED SWITCH OPEN = SWITCH NOT ACTIVATED</b>			

