Introduction
The Power Soak Systems water tempering valve system provides a simple method for filling the wash and sanitize tanks of the Power Soak continuous motion washing machine. The water valve tempering system consistently controls the water temperature for optimum results and code compliance. When used in conjunction with a chemical dispensing system, it ensures proper wash and sanitize conditions.

The system consists of two adjustable mixing valves mounted in a bracket under the sink or drain board. Some options have fittings made specifically for passing through the backsplash, others for connection to a single tap faucet. In order to work properly, the valves must be plumbed and tested at the time of installation.

Four installation drawings (3 sheets for each drawing) are included in this document. The drawing and sheet numbers are located in the lower right hand corner of the drawing title block. Select the drawing that matches the type of installation for the tempering valve application. Due to the variety of locations that are possible for the faucet connections, the length of some tubing sections will have to be determined by the installer.

Installation Instructions
1. These instructions are only intended for installation of the water valve tempering system on a Power Soak unit. Refer to the installation instructions of the appropriate unit for all instructions outside of the tempering system.
2. Assemble the tempering valve assembly as shown on sheet 3 of the drawing that matches the installation. The adjustment knobs should be protruding through the bracket under the engraved labels “WASH” and “SANITIZE”.
3. Install the tempering valve bracket on the bottom of the unit using the cap nuts found on the mounting studs.
4. Install the pass-through fittings or faucets, using a small amount of caulk or silicone sealant to seal the flange face to the backsplash.
5. Plumb the faucets, pre-rinses, and mixing valves (as shown in drawing) to the hot and cold water supply. Be sure the cold and hot connections are made to the tempering valves as noted on the valve body or sheet metal mounting bracket.
6. Plumb the discharge of the SANITIZE tempering valve to the pass-through fitting or single tap faucet that feeds the sanitize tank and the discharge of the WASH tempering valve to the pass-through fitting or faucet that feeds the wash tank.
7. Complete the installation of the Power Soak unit including anchoring the Power Soak and pre-rinse risers to the wall.
8. Connect the hot and cold water utilities to the Power Soak water valve tempering system.

   Before turning on the water to the system, install the chemical dispensing equipment or cap the 45 degree backsplash pass-through fittings. (Cap is not provided by Power Soak)

10. Turn on the water utilities that supply the unit and inspect for leaks.

11. Adjust the tempering valves to the desired temperature. Suggested fill temperatures are “WASH” 112°F and “SANITIZE” 75°F.
    Note: the units with the pass-through fitting can be set without chemical dispensing equipment installed by attaching a hose to the mixed water outlet.
    a. Turn on the water supply and measure the temperature of the mixed water.
    b. Adjust the knob on the mixing valve until the mixed water is the appropriate temperature. To turn the knob, use a 3/32” Allen wrench to unscrew the fastener in the center of the knob at least 1/4” and pull the knob out at least 1/4”. Turn the knob clockwise for cooler temperature, or counter clockwise for warmer temperature.
    c. When the adjustment is complete, push in on the knob and tighten the screw in the center of the knob. Turn off (single tap faucet) or cap (pass-through) the discharge of the valve and repeat the process for the other valve.

Drawing Reference:

33976 Under sink with pass-through connections.
37573 Under sink with single tap faucet connections.
37578 Under counter with single tap faucet connections.
37625 Under counter with pass-through connections

NOTE: The drawings show machines that have a “left to right” work flow. Machines that have a “right to left” work flow will be a mirror image of the drawings.
NOTES:

1. THE LOCATION OF THE FAUCET DETERMINES THE LENGTH OF THE HORIZONTAL COPPER TUBES THAT RUN ALONG THE BACK WALL FOR CONNECTING THE VERTICAL SECTIONS OF TUBING.

2. THE COLOR CODING OF THE WATER LINES IS DONE ON THIS DRAWING TO MAKE IT EASIER FOR THE ASSEMBLER TO FOLLOW THE ROUTING OF EACH CONNECTION.
   - BLUE: COLD WATER SUPPLY
   - RED: HOT WATER SUPPLY
   - LIGHT BLUE: SANITIZER MIXING VALVE OUTPUT
   - PINK: WASH TANK MIXING VALVE OUTPUT

3. THE PARTS LIST IS SHOWN ON SHEET 2

Power Soak Systems
933 E 104th St. Suite 130
Kansas City, MO 64131
Ph: 816-222-2400 FAX: 816-222-2419

PLUMBING DIAGRAM FOR 1/2" MIXING VALVES

DRAWING NO. 37573
REVIEW

DRAWN BY R Powers ON 9/5/2013

SHEET SIZE: B NOT TO SCALE SHEET 1 OF 3

FILE LOCATION: D: \PLANS\POWER SOAK\PLUMBING\37573 - 1.5" HYDRAULIC IRON RINSE SYSTEM.pdf
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   - RED: HOT WATER SUPPLY
   - LIGHT BLUE: SANITIZER MIXING VALVE OUTPUT
   - PINK: WASH TANK MIXING VALVE OUTPUT

3. THE PARTS LIST IS SHOWN ON SHEET 2
FRONT VIEW
(Power Soak and all plumbing not shown)

REAR VIEW
(Power Soak not shown)

NOTES:
1. The location of the faucet determines the length of the horizontal copper tubes that run along the back wall for connecting the vertical sections of tubing.
2. The color coding of the water lines is done on this drawing to make it easier for the assembler to follow the routing of each connection. Blue: Cold Water Supply; Red: Hot Water Supply; Light Blue: Sanitizer Mixing Valve Output; Pink: Wash Tank Mixing Valve Output.

Power Soak Systems
900 E. 10th Street, Suite 139
Kansas City, MO 64131
Phone: 816-223-2400, Fax: 816-223-2410

Drawing No: 37625
Drawing By: R Powers on 9/5/2013

Sheets Size: B, Not to Scale
MIXING VALVE ASSEMBLY
(ITEM 3 FROM SHEET 2)

MIXING VALVE ASSEMBLY (EXPLODED)

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1. THE LOCATION OF THE FAUCET DETERMINES THE LENGTH
   OF THE HORIZONTAL COPPER TUBES THAT RUN ALONG THE
   BACK WALL FOR CONNECTING THE VERTICAL SECTIONS OF TUBING
2. THE COLOR CODING OF THE WATER LINES IS DONE ON THIS
   DRAWING TO MAKE IT EASIER FOR THE ASSEMBLER TO FOLLOW
   THE ROUTING OF EACH CONNECTION
   BLUE: COLD WATER SUPPLY
   RED: HOT WATER SUPPLY
   LIGHT BLUE: SANITIZER MIXING VALVE OUTPUT
   PINK: WASH TANK MIXING VALVE OUTPUT
3. THE PARTS LIST IS SHOWN ON SHEET 2
Power Soak and Produce Soak are registered trademarks of Cantrell Industries, Inc. The Produce Soak design and concept are fully patented.