SPEAKMAN COMPANY
S-1590 Sentinel Mark II Showerpac Exposed Anti-Scald Balanced Pressure Shower- Installation, Operation, & Maintenance Instructions

DESCRIPTION
Speakman Sentinel Mark II Showerpac exposed anti-scald balanced pressure shower. 18 gauge stainless steel outer shielding. Stainless steel self-draining soap dish. Chrome plated brass lever handle. Adjustable temperature limit stop. Brass valve body. Integral spring check stops. Piston type pressure balancing/ceramic regulating cartridge assembly with built-in check valves. Concealed integral mounting lugs. S-2292 showerhead with flow control device reduces flow to 2.5 GPM/9.46 LPM maximum to meet existing ASME A112.18.1/CSA B125.1 Standard. ½” copper tube inlets for through the wall or dropped from ceiling connections. Vandal-resistant construction. Valve only meets ASME A112.18.1/CSA B125.1 & ASSE 1016 standards.

SPECIFICATIONS
SUPPLY: ½” COPPER TUBE SWEAT INLETS
FLOW RATE: 2.5 GPM/9.46 LPM MAX. (SHOWERHEAD)
SHIPPING WEIGHT: 14.5 LBS

OPTIONS

<table>
<thead>
<tr>
<th></th>
<th>1 - S-2251 Showerhead</th>
<th>4 - S-2220-AF Showerhead</th>
<th>7 - S-2291-AF Showerhead</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 - S-2252-AF Showerhead</td>
<td>5 - S-2270-AF Showerhead</td>
<td>LH - Less Showerhead</td>
</tr>
<tr>
<td></td>
<td>3 - S-2253-AF Showerhead</td>
<td>6 - S-2288-AF Showerhead</td>
<td>LSD- Less Soap Dish</td>
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</table>

INSTALLATION INSTRUCTIONS

Important- Read these instructions before installing the unit. See the “Roughing-in Measurements” for correct installation dimensions. Maximum water pressure: 125 PSI static; minimum water pressure: 20 PSI flowing; maximum hot supply temperature: 160° F; minimum cold supply temperature: 40° F. Use a suitable sealant on all threaded connections. Unit’s inlet supplies are ½” copper tube.

1) Remove the complete unit from the box. Remove the shield assembly from the valve unit by removing the screw above the showerhead elbow and the screw near the dial cap. Save the two (2) screws.
2) Determine the horizontal position of the valve unit. Determine the floor to showerhead height for the unit from the recommended head heights on the roughing-in measurements.
3) Holding the valve unit against the finished wall in the proper position, mark the location of the top mounting bracket holes (2) and the bottom mounting bracket hole (1). Remove the unit from the wall and install any mounting anchors (not provided), as required by the room’s wall construction.
4) Positioning the unit against the wall, secure top mounting bracket screws (2) (not provided). Secure bottom mounting bracket screw (1) (not provided).
5) Connect the supply lines to the inlets of the unit. Supply lines must be on 4-13/16 centers. If the unit has top supply lines they must also be 17/32 from center of lines to the finished wall. Do not secure top supply lines to the wall or ceiling until the completed Showerpac unit with the shielding has been installed.
6) With a screwdriver, make sure the valve’s integral stops are fully opened. Place handle on the valve spindle and rotate counter clockwise (OFF). Remove the handle, turn both water supplies on, and check supply line connections for leaks.
7) To limit the maximum hot water temperature the valve delivers, adjust one of the valve’s two temperature limit stop (TLS) plates (See Figure #1). The other TLS plate is used as a stop plate in the OFF position, so someone cannot damage the internal parts of the valve by forcing the handle in the OFF position. Slip the
retaining o-ring and the TLS plate towards the end of the spindle. With the handle, open the valve clockwise to the maximum desired hot water temperature. Position the TLS plate so it contacts the lug on the valve bonnet and therefore restricts the clockwise rotation of the handle (See Figure #1). Slip the retaining o-ring back into the groove of the spindle. Turn off the valve and remove the handle.

8) Attach bottom soap dish or bottom cover plate (less soap dish option) to the shield with three (3) 3/8 long screws provided. Make sure the back edge of the plate is flush with the side edges of the shield. Tighten screws with the 1/8 Allen wrench provided. If unit does not use a vertical pipe cover (VPC-2), attach top cover plate to the shield same as above. Unit with a VPC-2 does not use the top cover plate.

9) Attach shield assembly to the valve unit by positioning showerhead elbow of the shield with the top flange o-ring of the valve unit and the lower large hole of the shield with the dial cap of the valve unit. Slide shield into place against the finished wall. Secure the shield to the unit with the three (3) screws provided. Use the 3/8 long screw for the top mounting hole above the showerhead elbow and the two (2) 1-1/4 long screws for the lower mounting holes near the dial cap. Tighten the screws with the Allen wrenches provided.

10) Apply pipe thread sealant or tape to the showerhead elbow threads of shield. Attach the showerhead to the elbow. Wrench tighten.

11) Properly position the handle in the OFF position and secure with the ½ long screw provided.

12) Turn the valve on and check the showerhead connection for leaks. Turn the valve off.

### BACK-TO-BACK INSTALLATION

On this type of installation, the balancing/regulating cartridge must be rotated 180° on the valve on which the hot & cold inlets are reversed. Refer to Figure #2 for the proper positioning of the balancing/regulating cartridge.

1) Turn off the water supplies at the valve’s integral stops. To get to the stops, insert a screwdriver into the access holes of the bottom soap dish or cover plate. With the valve in the OFF position, remove the handle and the shield assembly.

2) Removed the TLS plates and the retaining o-ring from the valve spindle. Remove the (4) valve bonnet screws. Carefully remove the bonnet. Remove the balancing/regulating cartridge from the valve body by
pulling on the valve spindle or the blue cap of the cartridge. Make sure the lower rubber quad rings (2) are properly installed in bottom of the cartridge and not in the valve body.

3) Reposition the balancing/regulating cartridge per Figure #2. Push cartridge into valve body.

4) Make sure the large bonnet o-ring seal is installed and seated properly in the valve body. Reassemble the valve bonnet, making sure the “UP” on the bonnet is in the up position. Tighten the (4) bonnet screws. Turn the water supplies back on and check the valve for leaks. See Step #7 of the installation instructions for the adjustment instructions for the two TLS plates. Reassemble the remaining parts in the reverse order of disassembly.

**FIGURE 2**

![Diagram of STANDARD INSTALLATION and BACK TO BACK INSTALLATION](image)

**OPERATION INSTRUCTIONS**

**Important** - Both hot and cold water supplies must be FULL on for the valve to operate properly. Make sure the valve’s water supplies and integral stops are fully opened.

Rotate the valve handle clockwise to the desired temperature. To shut the valve off, rotate the handle counter clockwise.

**MAINTENANCE** (CARE and CLEANING)

The shower valve is washerless and requires no routine maintenance. The valve uses a cartridge that has a piston type balancing module & a ceramic regulating module. There are no seat washers or packing to repair. For servicing the valve, see the instructions below. The polished chrome and brushed stainless steel finish of your SPEAKMAN Showerpac unit can be cleaned by using mild soap and warm water. Dry immediately with a soft, clean cloth for best results.

**SERVICE INSTRUCTIONS**

1) Turn off the water supplies at the valve’s integral stops. To get to the stops, insert a screwdriver into the access holes of the bottom soap dish or cover plate. With the valve in the OFF position, remove the handle and the shield assembly. Removed the TLS plates and the retaining o-ring from the valve spindle. Remove the (4) valve bonnet screws. Carefully remove the bonnet. Remove the balancing/regulating cartridge from the valve body by pulling on the valve spindle or the blue cap of the cartridge. Make sure the lower rubber quad rings (2) are properly installed in bottom of the cartridge and not in the valve body.
2) Replace the necessary parts with new parts. When replacing the balancing/regulating cartridge, make sure that the rubber quad-rings (2) are properly installed in the recesses on the bottom of the cartridge. These quad-rings seal over the hot & cold holes inside the valve body. When replacing the cartridge, refer to Figure #2 for proper positioning of cartridge.

3) Make sure the large bonnet o-ring seal is installed and seated properly in the valve body. Reassemble the valve bonnet, making sure the “UP” on the bonnet is in the up position. Tighten the (4) bonnet screws. Turn the water supplies back on and check the valve for leaks. See Step #7 of the installation instructions for the adjustment instructions for the two TLS plates.

4) Reassemble the remaining parts in the reverse order of disassembly.
**PARTS LIST**

<table>
<thead>
<tr>
<th>PART OR GROUP NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>RPG49-0126</td>
<td>BONNET O-RING</td>
</tr>
<tr>
<td>RPG05-0718</td>
<td>BONNET, SCREWS (4), &amp; O-RING REPAIR GROUP</td>
</tr>
<tr>
<td>RPG03-0371-RC</td>
<td>STANDARD VALVE SPINDLE, WASHERS (2), &amp; O-RINGS (2) REPAIR GROUP</td>
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<td>RPG49-0076</td>
<td>SPINDLE O-RING REPAIR GROUP (4 O-RINGS PER BAG)</td>
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<td>RPG05-0846</td>
<td>BALANCING/REGULATING REPAIR CARTRIDGE (COMPLETE w/SPINDLE)</td>
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<tr>
<td>RPG49-0005</td>
<td>LOWER QUAD RINGS (2) FOR BALANCING/REGULATING CARTRIDGE</td>
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<tr>
<td>RPG04-0367-PC</td>
<td>HANDLE REPAIR GROUP w/SCREW</td>
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