BEHAVIORAL SAFETY

INNOVATION NEVER RESTS

LIGATURE RESISTANT SHOWER PANEL #SV725

Installation, Operation & Maintenance Instructions

This recessed mounted shower panel reduces ligature risk normally associated with standard systems. The product features a ligature resistant shower valve and shower head. The back panel is easily mounted through multiple side and rear mounting holes, accepting fasteners appropriate for the structure behind the unit.
Designed to fit existing 4" cavities, and composed of stainless steel with exposed surfaces in a powder coated white finish. All corners are welded and ground for secure mounting.
Overall dimensions of panel are 8"W x 42"H x 3-3/4"D.

Specifications

- Cabinet materials are 304 stainless steel
- All exposed finish surfaces are powder coated
- Front panel anchored to mounting frame at 6 points with tamper resistant stainless steel screws
- Front panel includes flanged edge to provide flush mounting
- Ligature resistant chrome plated shower head with adjustable spray angle
- Ligature resistant chrome plated shower valve with pressure balance technology
- Valve is accessible from the front for ease of maintenance
- Mounting frame has multiple location holes built in for ease of mounting (mounting screws not included)
- Water can be supplied either vertically from top or horizontally from behind the frame
- Product installation dimensions allow for ADA compliance

Certifications

- ADA Compliant
- This product is tested to meet:
  - UPC
  - CUPC
  - ASME A112.18.1-2012 /CSA B125.1-12
  - ASSE 1016

Care & Cleaning

Your new product is designed for years of trouble-free performance. Keep it looking new by cleaning it periodically with a soft cloth. The use of harsh chemicals and abrasives on any of the custom finish products may damage the finish and void the product warranty. Please be sure to only use approved cleaners.

Waiver & Disclaimer

This waiver-disclaimer is attached to and made a part of the written contract to purchase these products for use in psychiatric and correctional facilities. Such fixtures and products are purchased to reduce the risk of self-imposed death or injury to patients or clients in such facilities, but are NOT represented as able to prevent such death or injury.

Behavioral Safety Products, LLC ("BSP") has not, and will not represent or warrant to the purchaser shown in this contract ("Purchaser") that its fixtures and products will prevent death or injury in any case whatsoever.

BSP makes no express or implied warranty with respect to the preventative quality of its products, but merely represents that the use of such products tends to reduce deaths and injuries by patients or clients who are subject to meticulous screening processes and diligent supervision on the part of the facility housing them.

Purchaser acknowledges the foregoing disclaimer and waives any and all claims against BSP as to express or implied warranties of fitness for any purpose whatsoever.

IMPORTANT

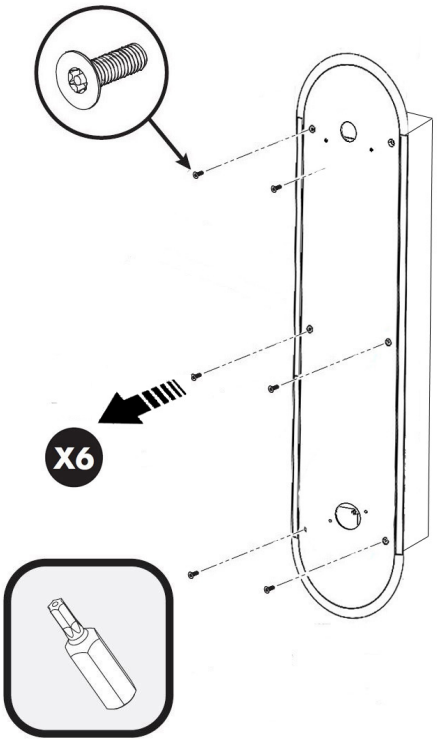
- Be sure to read instructions thoroughly before beginning installation.
- Be sure to have properly adjusted the temperature limiting stop (TLS) as outlined in this instruction manual.
- Inspect all connections after installation of the valve and shower head.
- The shower valve has an operating range of 20-80 psi.
- Ensure the panel has been installed plumb and level into to the wall.

Tools and Supplies

Installation Instructions

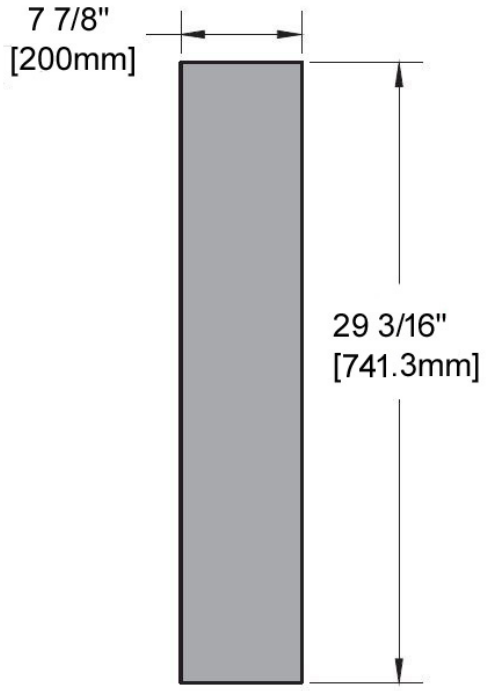
Note: Two person installation is recommended.

1. Remove front panel from the frame by removing the six mounting screws on the front using the supplied Torx bit.



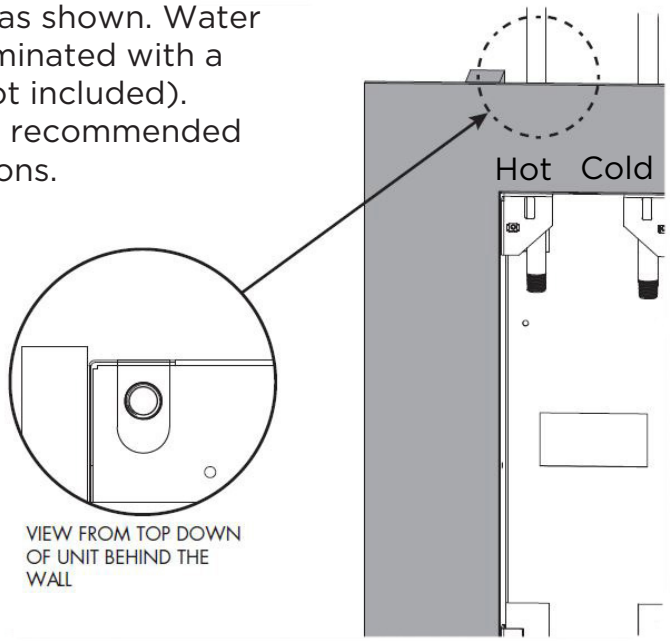
2. Measure and cut the hole in wall surface where the frame is to be installed. Ensure proper mounting structure is present within the wall to support the shower panel while in use, and add blocking where necessary.

   Don't forget to check the rough in diagram and local codes for ADA compliance to be sure the mounting height is correct for your facility.



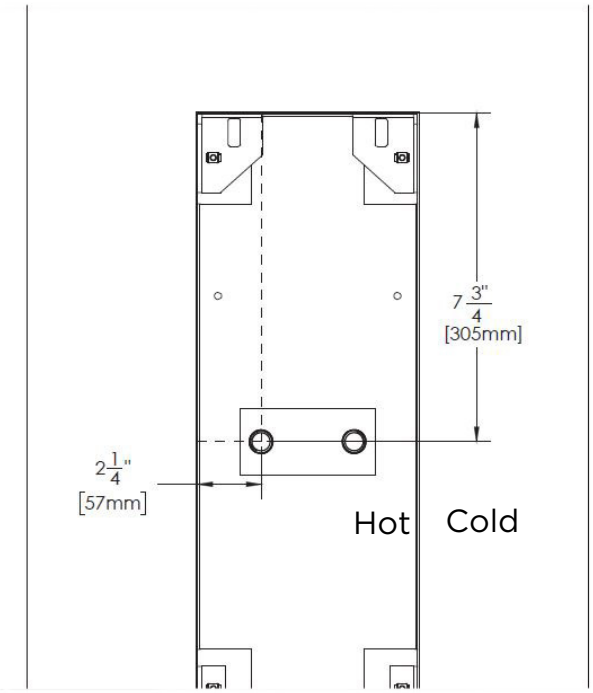
Note: The shower panel is capable of accepting incoming water supplies from either above or behind the frame. Choose the appropriate rough in according to your site conditions.

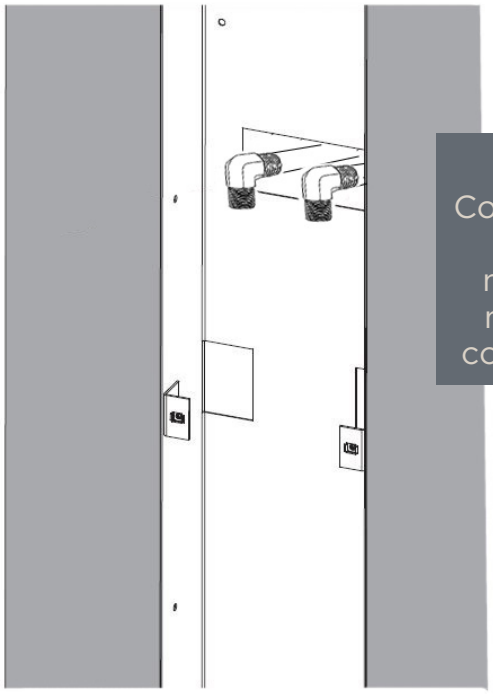
3A. **For top entry inlet supplies:** Plumb in water supplies from top as shown. Water supply lines must be terminated with a ½" NPSM male fitting (not included). Thread sealant or tape is recommended on all threaded connections.



Note: Contractor to supply necessary male inlet connections.

3B. **For rear entry inlet supplies:** Plumb in water supplies from the back of the frame as shown. Water supply lines must be terminated with a 90° ½" NPSM male fitting (not included). Thread sealant or tape is recommended on all threaded connections.

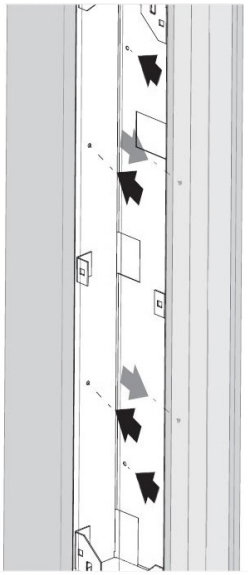




Note: Contractor to supply necessary male inlet connections.

4. **Mount the frame within wall opening**:

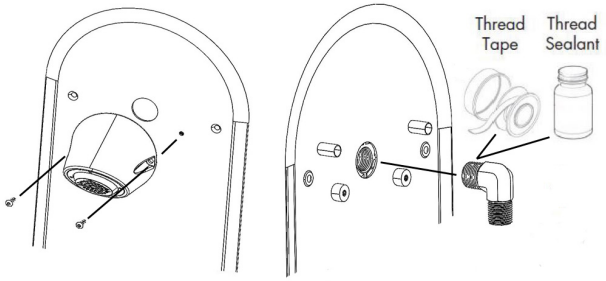
   The front surface of the frame body should be flush to 1/4" below the finished outer wall surface when mounted.
   Secure the frame with your chosen mounting hardware to the wall structure, using the four side and four back mounting holes.



Note: Mounting hardware is not included with the shower panel kit. Ensure you acquire mounting hardware intended for your mounting structure and that it can support the shower panel in use.

5. **Install Shower head to the front panel:**

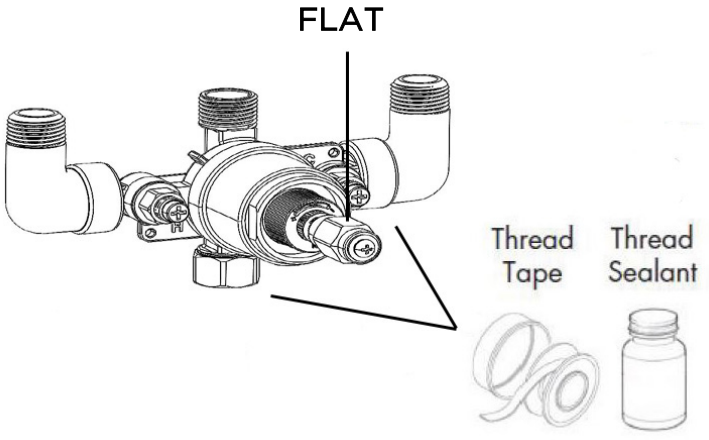
   Install the shower head to the front panel using the tamper resistant screws provided. Then add the provided 90° male/male elbow to the back of the shower head positioned as shown.



Important: Use thread sealing tape or liquid pipe thread sealant on the shower head to elbow connection to prevent leaks.

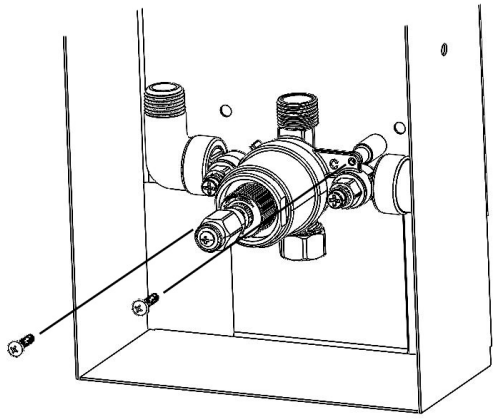
6. Configure the shower valve as shown by adding the female/male 90° elbows to the side outlets then add the cap to the bottom outlet, and the hex nut to the front of the spindle.

   Be sure there is a flat on top of the hex nut when the spindle is turned all the way to the left.



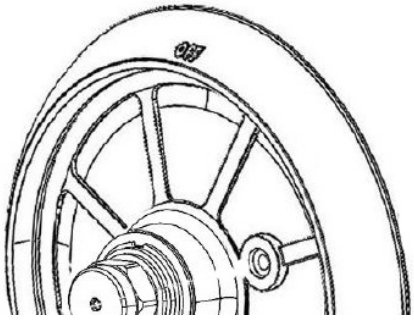
Important: Use thread sealing tape or liquid pipe thread sealant on the elbow to valve connection, and the cap to valve connection, to prevent leaks.

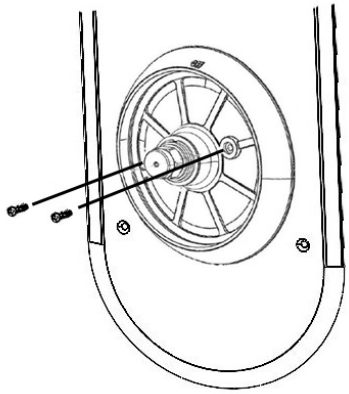
Once assembled, secure the valve to the back of the frame using the 3/4" long screws provided.



7. Place the wall plate over the hole on the front panel. Orient the wall plate so the "OFF" marking is at the top position as shown below. Secure wall plate to the front panel with the 1" Phillips screws provided.

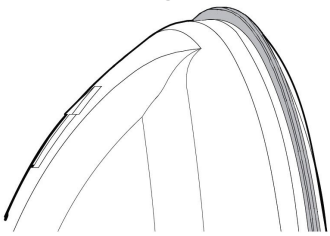
"OFF" marking on top



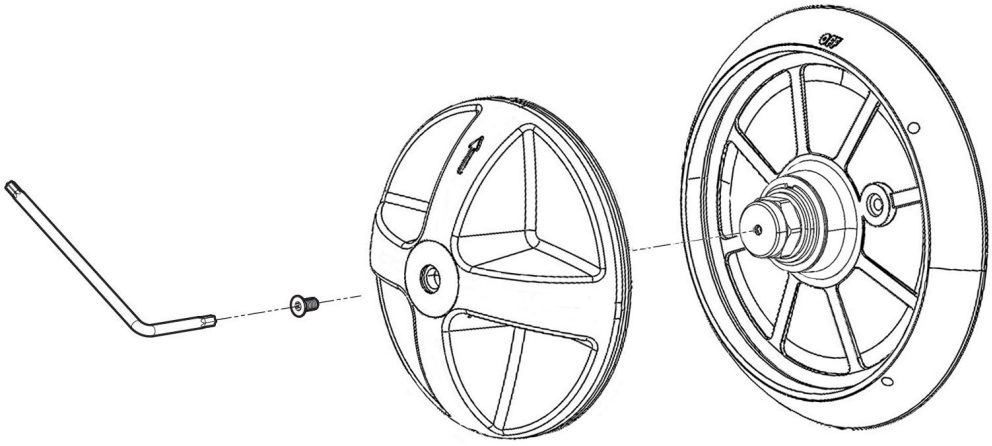


8. Verify that the friction ring is properly seated into the friction ring groove of the handle.

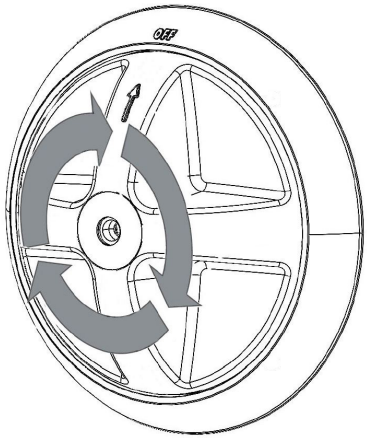
Friction ring



9. Install the handle assembly over the wall plate splined shaft. Secure with the pin-type torx screw using the supplied key wrench.



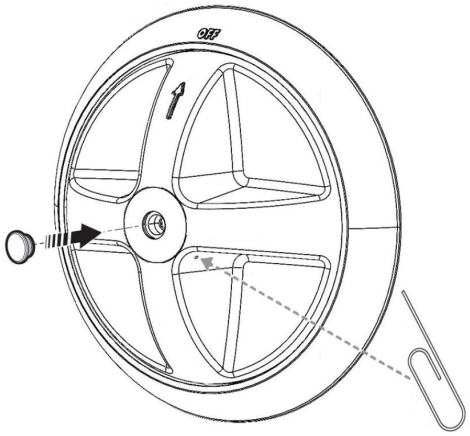
10. Verify that the handle rotates smoothly.



11. Insert screw cover with o-ring installed, into recess of handle.

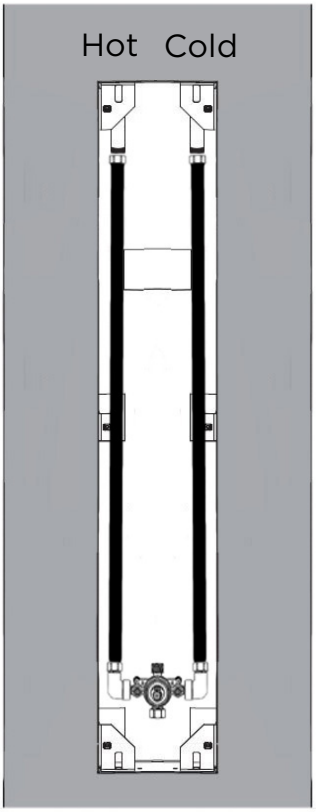
MAINTENANCE NOTE

To remove the screw cover for maintenance, insert a paper clip or similar item into the access hole within the handle assembly as shown.



12. **Connect the water service:**

Make the water connection to the shower valve by installing the provided hoses from the hot and cold water service to the shower valve.

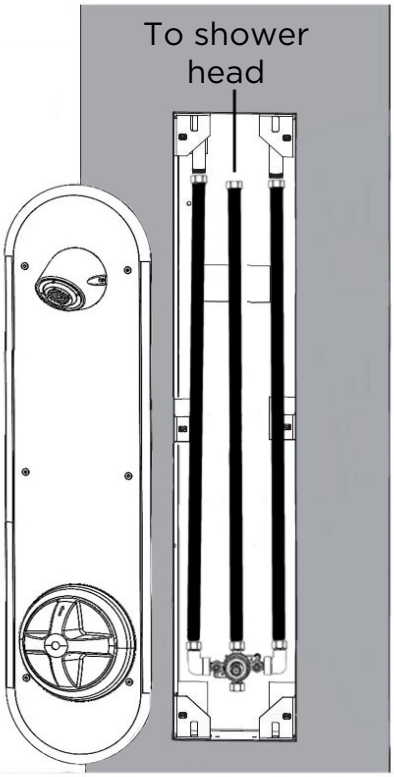


Note:
Add a loop to the hose between connections if needed, to take up slack.

12A. Install the hose for the connection from the valve to the shower head.

It is easiest for 2 people to make the shower panel water connection to the shower head.

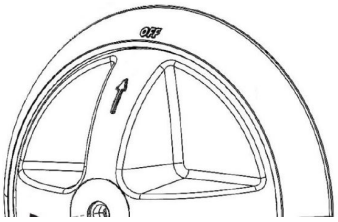
The 1st person should hold the front panel of the cabinet in close proximity to the frame. The 2nd person should make the water connection from the shower valve to the back of the shower head.

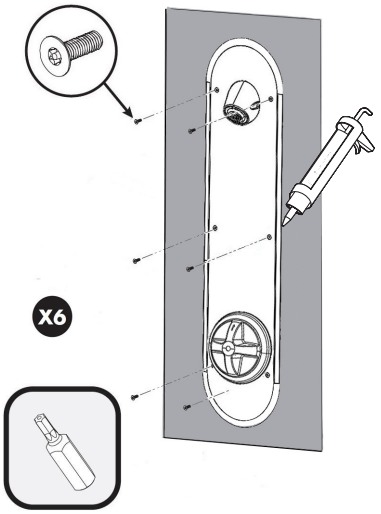


IMPORTANT:
Turn on the water supplies and check for leaks before proceeding to the next step.

13. **Be sure the hex nut on the valve is turned all the way to the left and the arrow on the handle is pointing up,** then install the front panel to the frame using the six (6) screws removed in step 1 with the included Torx bit.

Arrow pointing up



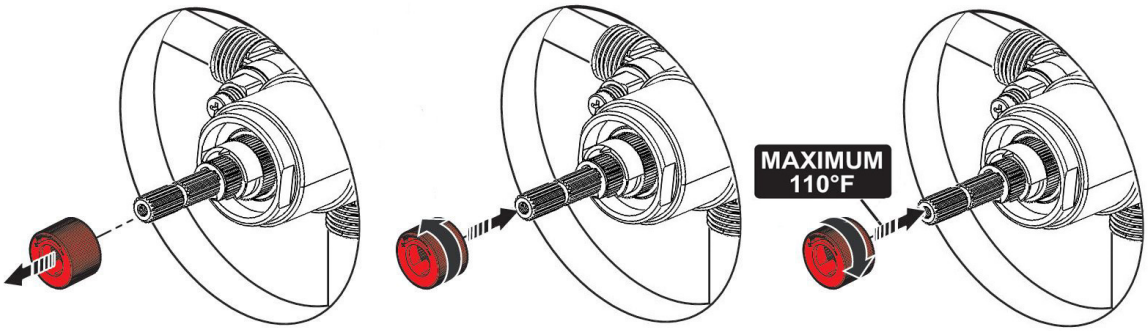


IMPORTANT: After installation BSP recommends the edge of the shower panel be caulked with pick-resistant caulk to seal the edge and prevent tampering.

14. **Adjusting the temperature limit:**

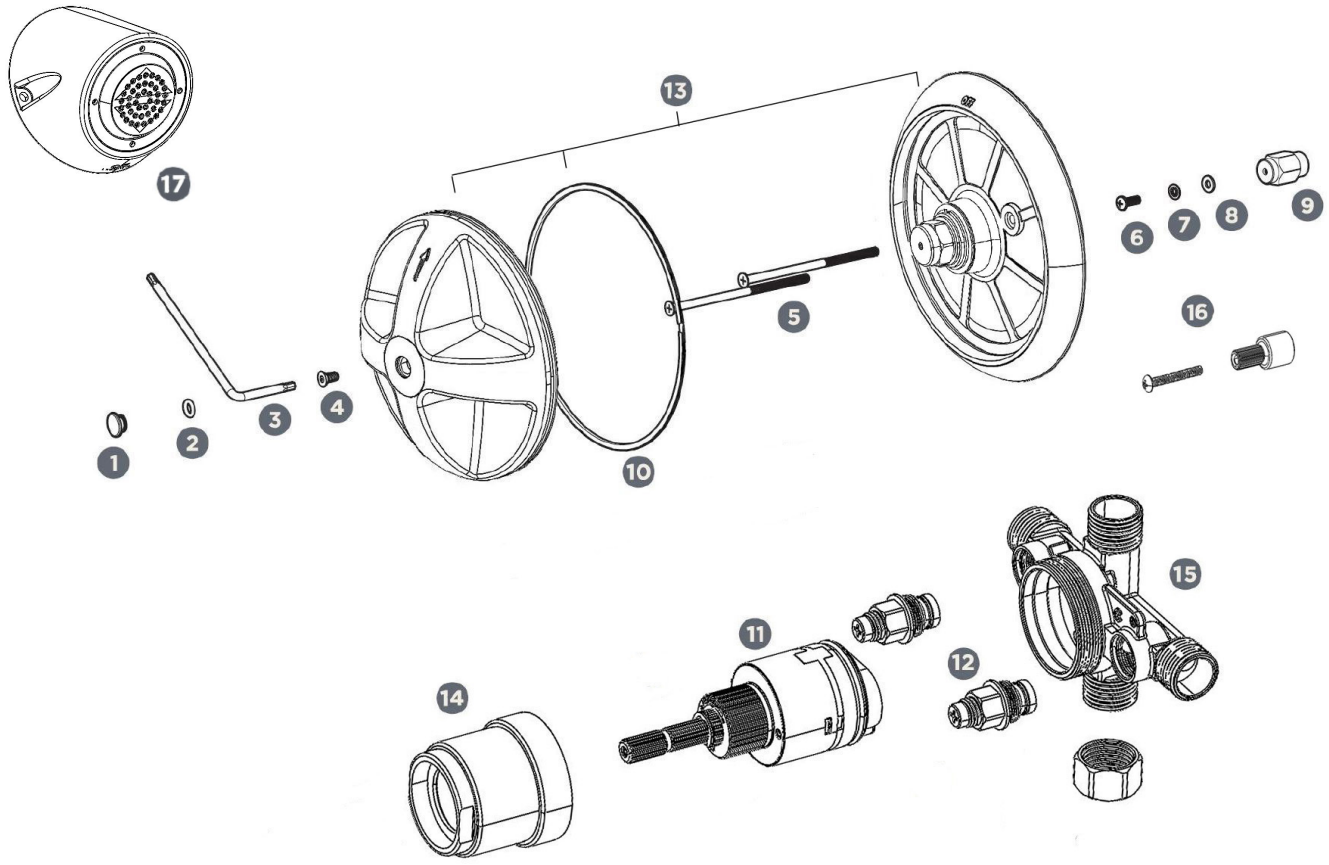
The maximum outlet temperature setting adjustment (TLS) has been factory set at 110 °F. ***If you wish to adjust the limit*** of the maximum outlet temperature that the valve delivers, adjust the valve's temperature limit stop (TLS) collar by following the steps below:

With the water supplies "On" and the valve in the "Off" position, remove the (RED) TLS adjustment collar from the cartridge.



- For *Colder* setting, adjust the temperature limiting collar in a counter-clockwise direction and slide it back to the splined section of the cartridge until fully seated. Rotate the valve spindle clockwise to check if desired outlet temperature is achieved. If not, repeat the procedure.
- For *Hotter* setting, adjust the temperature limiting collar in a clockwise direction and slide it back to the splined section of the cartridge until fully seated. Rotate the valve spindle clockwise to check if desired outlet temperature is achieved. If not, repeat the procedure.
- Once desired outlet temperature is achieved, rotate the spindle counter-clockwise to the "Off" position.

SV725 Repair / Replacement Parts



Item	Part No.	Description
1-2	RPG-SV240-1	Screw cover with o-ring
1-9	RPG-SV240-2	Valve trim mounting hardware
10	RPG-SV240-3	Valve trim handle friction ring
11	RPG-SV240-4	Pressure balance valve cartridge
12	RPG-SV240-5	Valve stop repair kit
13	RPG-SV240-6	Handle and trim ring repair kit
14	RPG-SV240-7	Cartridge nut repair kit
15	RPG-SV240-8	Valve body repair kit
16	RPG-SV240-9	Hex shaft extension repair kit
17	SH340	Shower head

Service Instructions

Caution- Any repair or servicing of the valve may effect the maximum outlet temperature setting of the valve. After working on the valve, make sure the maximum outlet temperature is set to the recommended setting of 110 °F.

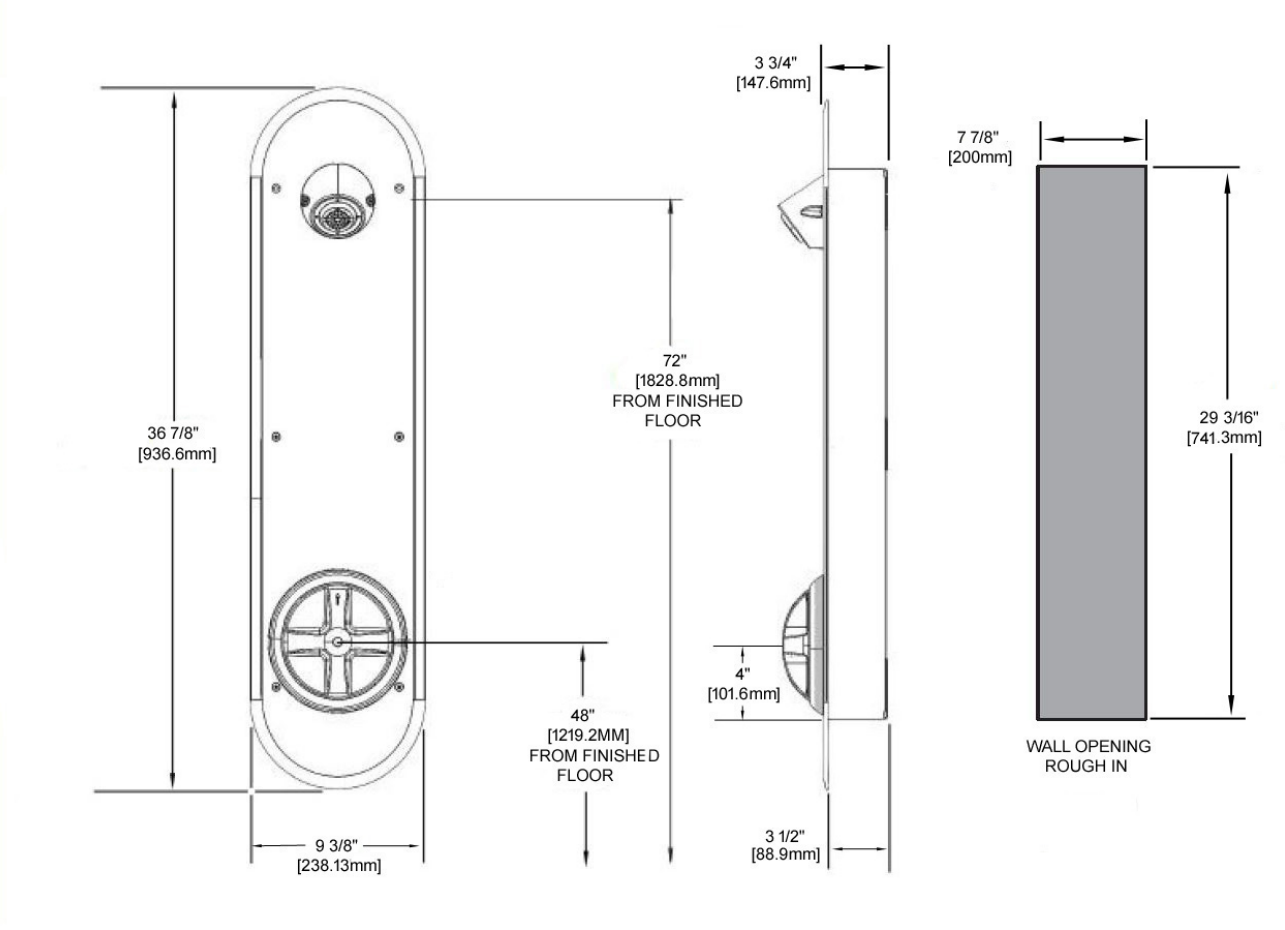
Pressure Balance Cartridge Removal

1. Remove trim from valve. Close the valve check stops of the valve by turning the stop spindles clockwise.
2. With the valve in the "OFF" position, remove the retaining nut by unthreading with slip joint pliers (refer to step 4).
3. If necessary, remove the cartridge from the valve body by pulling on the valve spindle of the cartridge. Verify that the lower cartridge seal is in place within the valve cartridge, and has not fallen into, or stuck to the valve body.
4. Replace the pressure balance cartridge if necessary. When replacing the pressure balance cartridge, verify that the lower cartridge seal is properly installed in the recess on the bottom of the cartridge. This lower cartridge seal is positioned over the HOT & COLD inlet waterways of the valve body.
5. Reassemble the retaining nut by threading it into the valve body with slip joint pliers. Final torque should be 88-106 in*lb. Important- adjust the valve's maximum outlet temperature to the recommended setting of 110 °F. See temperature limit stop adjustment steps within this document.
6. Open the valve check stops of the valve by turning the stop spindles counter-clockwise. Check valve for leaks.
7. Reassemble the trim parts.

Valve Check Stop Parts Removal

1. Remove trim from valve. Shut off HOT and COLD water supply lines to the inlets of the valve.
2. Unscrew the stop's retaining nut using a socket wrench equipped with a 9/16" (14mm) deep well socket. Carefully remove the retaining nut and spindle, spring, and poppet assembly. Clean and/or replace the necessary parts. Reassemble the parts, reversing the above procedure. Final torque should be 70-106 in*lb. Repeat procedure on the other stop.
3. Turn on the HOT and COLD water supply lines. Check for leaks.
4. Reassemble the trim parts.

Rough In Diagram



NOTES:

COMPLIANCE:

ASME A112.18.1/CSA B125.1
ASSE1016/ASME A112.1016/CSA B125.16

CONNECTIONS:

Hot/Cold Inlets: ½" NPSM Female

*Contractor to supply necessary male inlet connections.