

Ligature Resistant Shower Handle, Escutcheon Plate & Valve #SV230

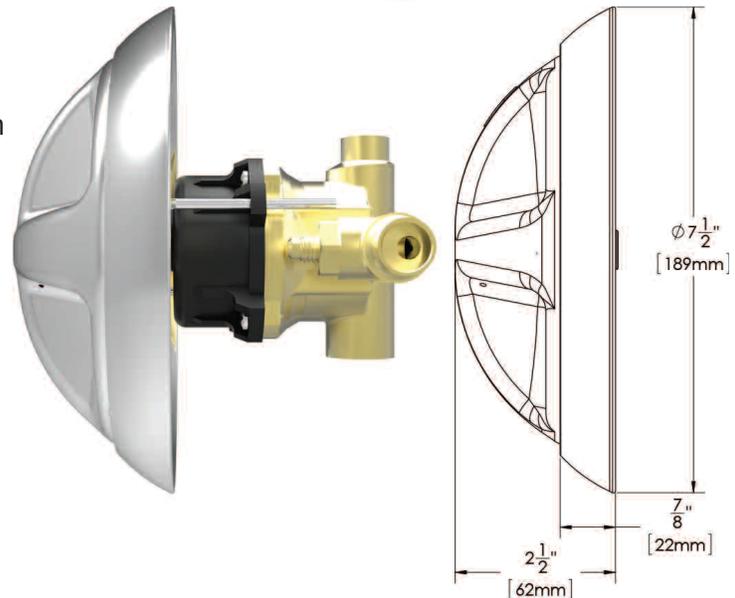
Technical Guide

Description:

BSP has designed and developed this suicide resistant shower valve, handle & escutcheon plate expressly to prevent injury by ligature. This can be readily seen by the integral handle and escutcheon plate. One of its many unique design components includes an x-pattern handle that incorporates recesses deep enough to turn without using pinch and grasp. The built in anti-friction ring also enhances ease of turn between the handle and escutcheon plate. These features insure both ligature resistance and ADA compliance are maintained.

Features:

- ADA compliant, easy grip, ligature resistant handle
- ASSE 1016 & UPC approved shower valve
- Anti-friction ring maintains tight fit with smooth handle operation
- Redundant sealing to prevent moisture migration
- Escutcheon plate & handle with variable rough-in
- Valve body with integral stops
- Anti-scald mechanism
- Adjustable temperature limit stop
- Brass valve body, zinc handle & escutcheon plate with polished chrome finish
- Piston type pressure balancing/ceramic, regulating cartridge assembly with built-in check valves
- Can be installed back to back
- Roughing-in template included
- Four port valve with ½" female copper sweat inlets and shower outlet
- ½" NPT female tub outlet
- Maximum operating water pressure: 80 PSI static
- Minimum operating water pressure: 20 PSI flowing
- Maximum operating water temp: 140° F
- Minimum operating water temp: 40° F



Certifications:

- Meets ASME A112.18.1-2012/CSA B125.1-12 & ASSE 1016-2011 standards. ADA Compliant
- Use a suitable sealant on all threaded connections and when soldering it is recommended to remove the integral stop valve parts
The valve rough-in adjustments are 3" to 3-1/2" from the finished wall to the centerline of the hot & cold inlets of the valve body

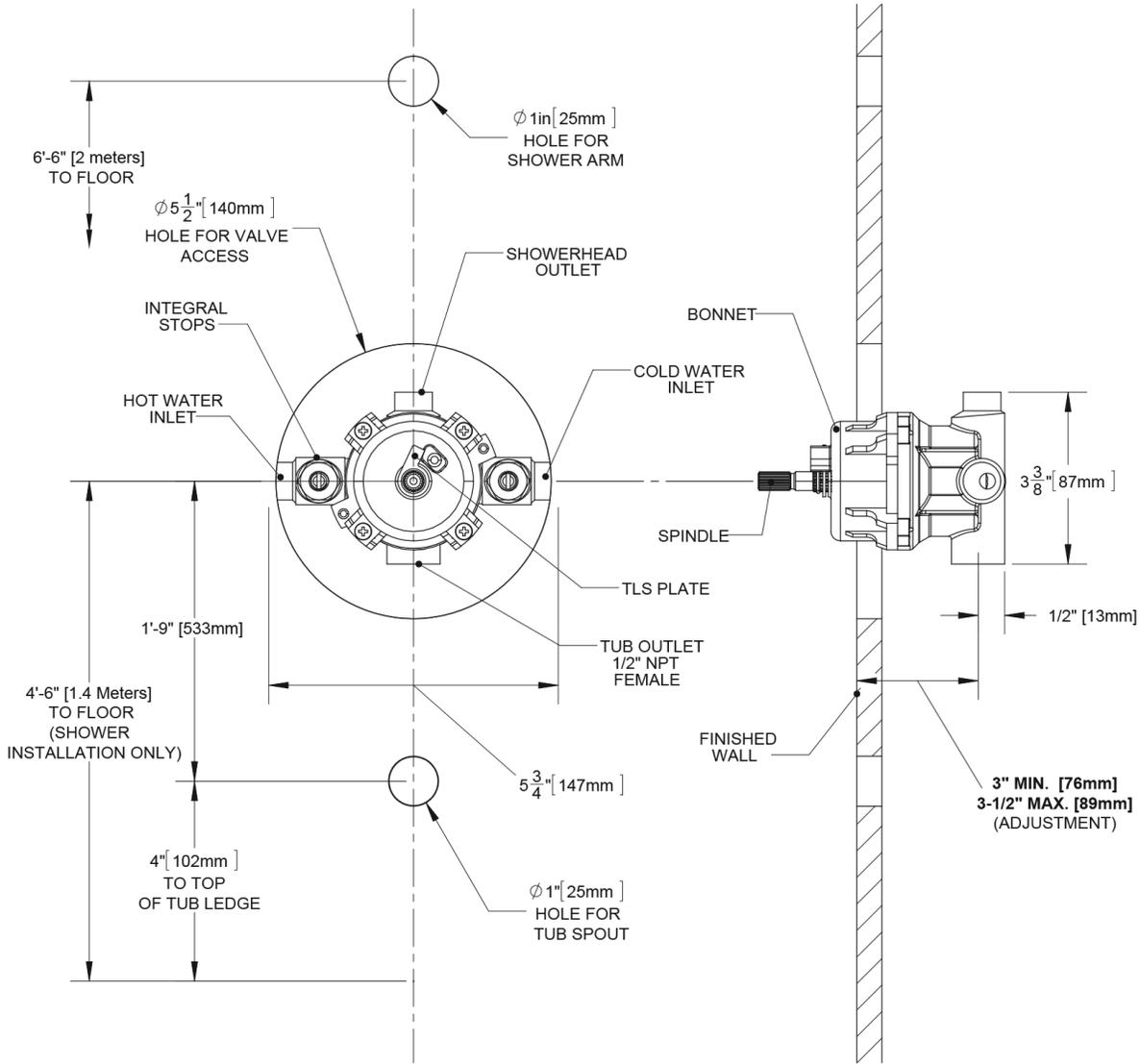


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Combining Experience with Technology

ROUGH IN DIMENSIONS



NOTES:

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SPECIFIED AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.

UNLESS OTHERWISE SPECIFIED ALL INLETS AND OUTLETS ARE 1/2" FEMALE COPPER SWEAT.

FOR ADA MOUNTING LOCATIONS, CONSULT ADAAG, ANSI A117.1, AND STATE REGULATIONS.

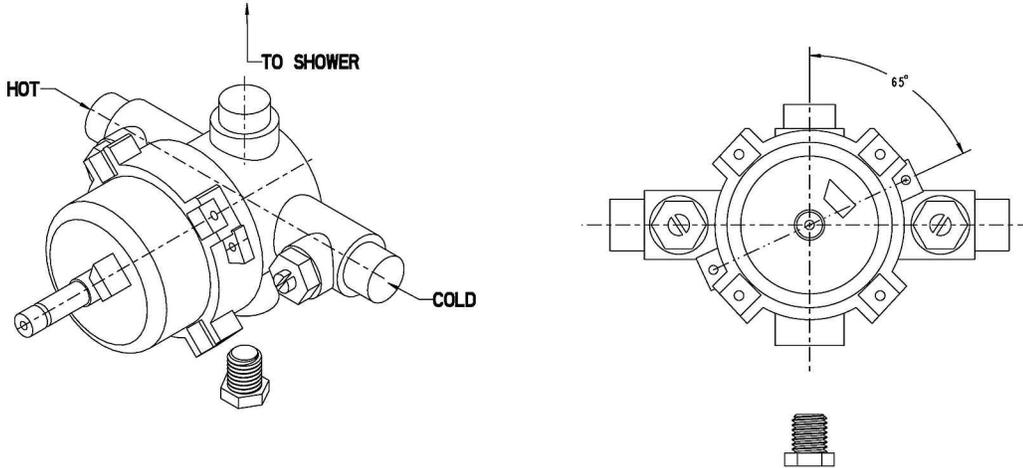


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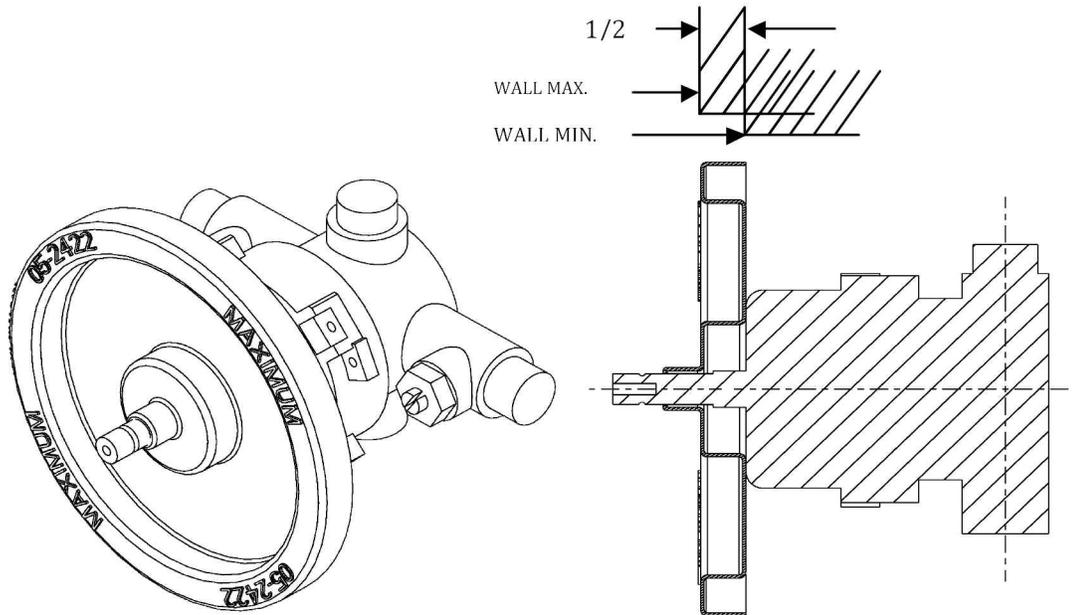
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IMPORTANT!

The valve spindle must be mounted perpendicular to the wall both horizontally and vertically and fastened off securely, for proper function. This is critical to the installation. If not installed properly, the Handle will drag on the outer Escutcheon Plate mounted to the wall, limiting the product life.



Plug the bottom port with the pipe plug 1/2"-14 NPT and position the Valve inside the wall. Before soldering the pipes, align the valve spindle as shown below

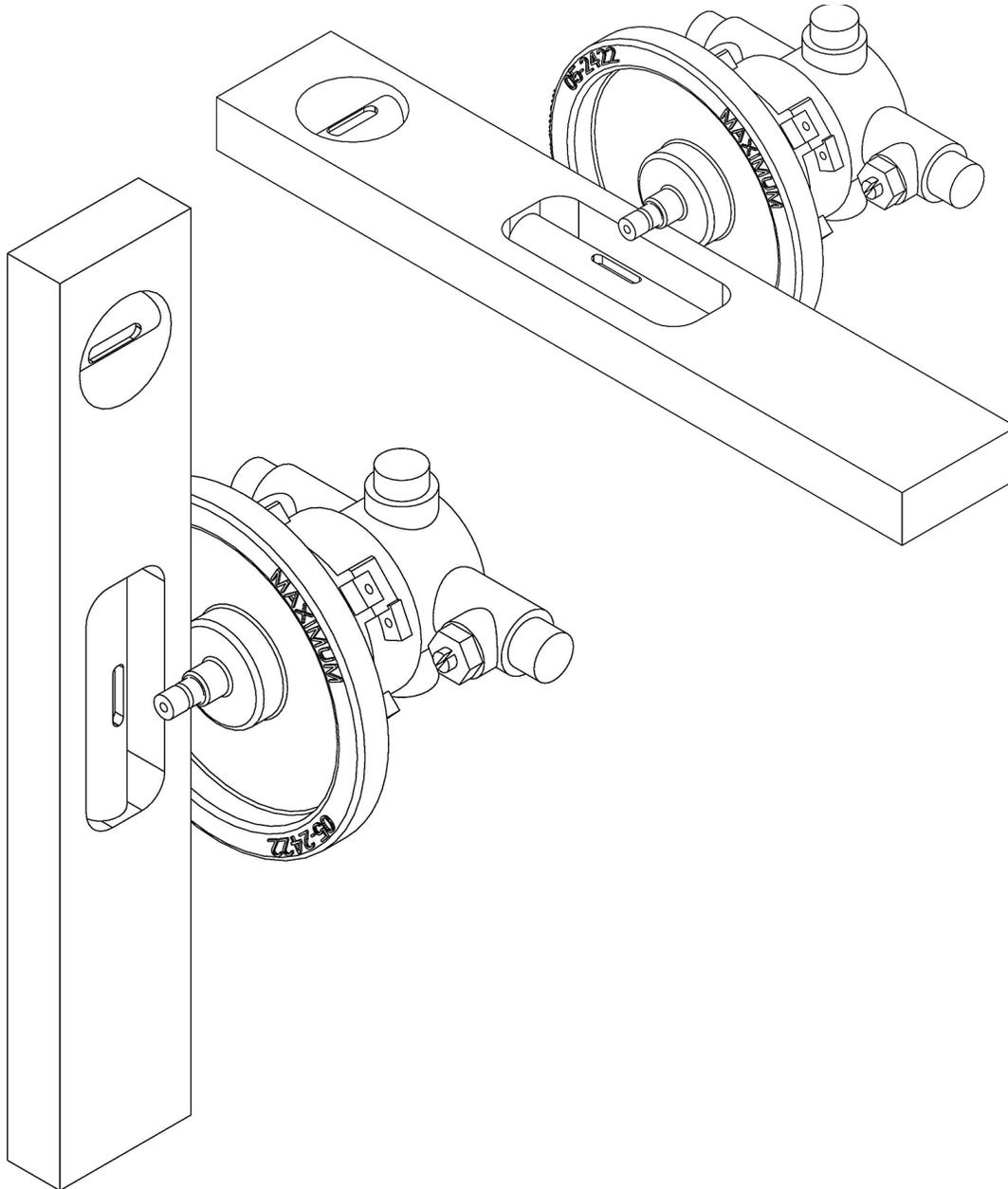


Insert the Template 05-2422 onto Valve spindle until full contact with the valve body. Adjust the Valve so that the template is flush with the wall within 1/2" as shown.



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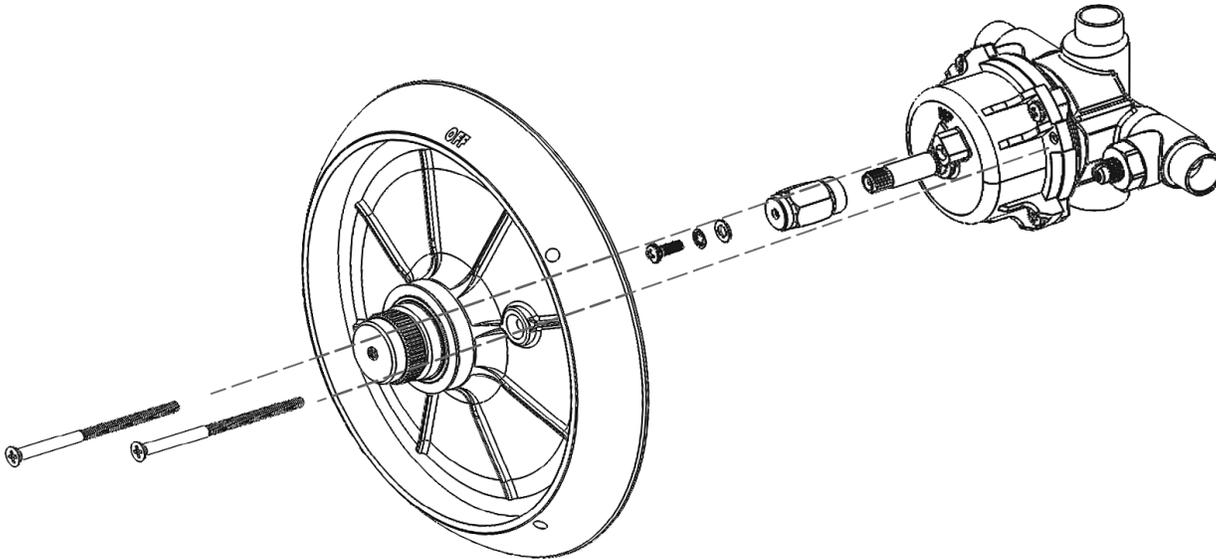


It is CRITICAL to have the Valve Spindle perpendicular in both planes to the wall for proper functioning. Check in both Horizontal and Vertical Planes for Template to be square to the wall with a LEVEL or straight beam.

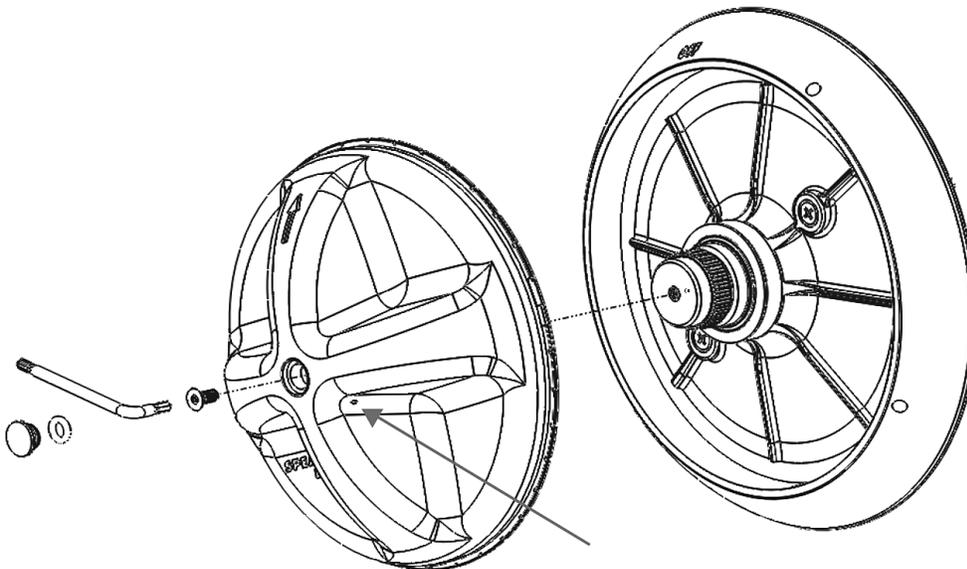
When the valve spindle is perfectly 90° to the wall in both directions, take out the template and solder the pipes. Recheck with template after soldering if it is still perpendicular to the wall.

NOTE: See IMO Valve installation document.

Make sure that sealant or caulk was applied on the wall plate groove around the circumference of the Plate. Take the template off the Valve spindle and fasten the Plastic Hexagonal adapter. Slide the Wall plate and fasten with the long screws onto Valve. Tighten the screws with equal force but do not over tighten.



NOTE: See IMO Wall Plate Installation



Make sure that the Friction Ring is properly seated into handle groove.

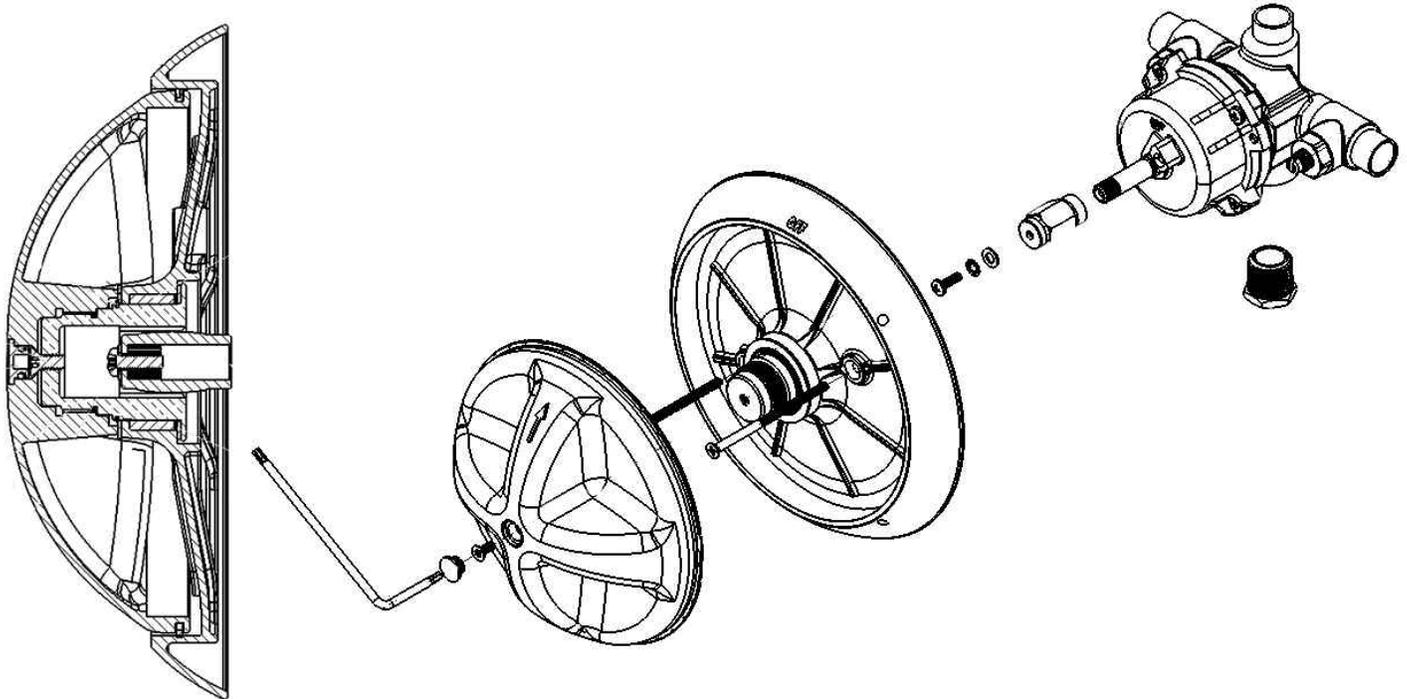


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Insert Handle, aligning the arrow to top when valve spindle is turned all the way to the left in off position. Fasten the handle onto spindle with the screw and spring washer. Push in the screw Cover with the O-Ring into handle.

To take the screw cover off, use a paper clip or .040" wire to push through the handle hole placed at 45° (at 4 o'clock) under the right Handle Rib.



Care and Cleaning:

1. Periodically the Shower Plate will require some minor maintenance to keep it performing at peak performance.
2. The polished chrome finish of your Handle and Wall Plate should be cleaned using mild soap and warm water. Dry immediately with a soft, clean cloth for best results.
3. NEVER use abrasive cleaners, chemicals, alcohol or other solvents. They may damage the surfaces of the non-chrome plated finishes.

Waiver and 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") as the seller and Speakman Co. as the manufacturer of these products have 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 and Speakman Co. make 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 such deaths and injuries by patients 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 and Speakman Co. as to express or implied warranties of fitness for any purpose whatsoever.



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Questions and Answers:

- Q. How does the Shower Plate Handle work?
- A. The handle has an arrow pointing upward to the OFF position. When handle is rotated clockwise, at the BLUE dot opens the cold water. Moving toward the red dot, the hot water way is opened gradually, offering different degrees of warm water, up to all the way hot when arrow is at the RED dot.
- Q. Is the Hot water adjustable?
- A. Yes, the amount of hot water supplied could be limited by adjusting the TLS plate (Temperature Limit Stop Plate) so that the amount of hot water is reduced in the mixture with the cold water. To adjust the TLS plate, see the IOM 92-G20-2027
- Q. What about water conservation?
- A. The Shower Valve would depend upon the shower head mounted which determines the flow rate at exit.
- Q. Can the water temperature at the Showerhead be adjusted?
- A. Yes, by turning the handle between cold and hot.
- Q. Does the Valve keep a constant preset Hot water?
- A. No, the valve is only pressure compensating but not Temperature Thermostatic Mixing Valve. The hot water should be regulated by the building supply line.
- Q. What is the Shower Plate maintenance?
- A. Only a light rinsing and wiping is required to eliminate drip stains, fingerprints and soap spots and to restore the beauty of the Wall Plate.
- Q. The chrome finish on my Wall Plate seems to be deteriorating. What can I do to prevent this from happening?
- A. Many commercial cleaning products contain harsh chemicals and abrasives. These products should not be used on any chrome plated plumbing products. Please refer to the Care & Cleaning section of this manual for manufacturer's recommendations.
- Q. Is there a way to adjust the flow of water?
- A. No, the Shower Plate only opens or closes the cold and hot water, and mixes them in a convenient proportion to satisfy your needs. The water flow is determined by the Showerhead used.
- Q. If I call a plumber to come and install this Shower Plate and Valve, will they know enough to hook it up?
- A. Our installation diagrams are very easy to be followed. We are supplying two IOM's that shows how to install the Valve in the wall and how to install the Shower plate and Handle that activates it.
- Q. What is different about this Ligature Resistant Shower Plate compared to other regular Shower Plates?
- A. This AL Shower Plate has a bigger rounded handle that prevents ligature. For this reason it requires a very good centering and plumbing onto the wall. See the installation instructions in this technical guide.
- Q. How do I take off the Handle to replace the Plastic Friction Ring?
- A. First use a paper clip or a .040" wire to push the screw cap out and access the tamper-proof screw in the middle of the handle. The .060" hole is under the handle rib at a 4 o'clock position. Then you need to use the Pin-in-Torx Wrench supplied (or a Pin-in-Torx Bit T15 from your tool box) to open the special tamper proof screw.