



Odd Ball Industries Mfg. Co., Inc.  
PO Box 376 · Greenlawn, NY 11740  
Ph: (631) 754-0400 / Fx: (631) 925-5347  
www.oddballindustries.com

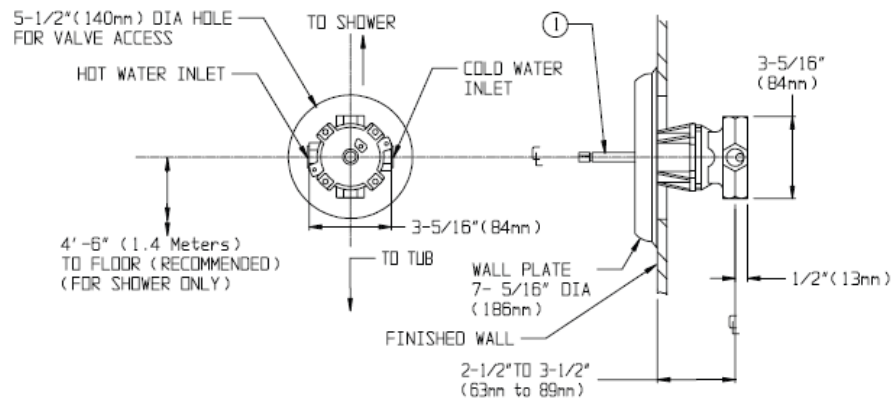
## Installation of SP-10 Shower Mixing Valve

**Warning:** This product is ligature-resistant only when properly installed. A loosened fixture can easily be tied to. Any product which can be removed can be used as a weapon!

### Directions:

1. Plumb in the valve using the valve manufacturer's installation instructions, keeping in mind that the stem should be as perpendicular as possible to the wall and protruding as far as possible from the wall.

### ROUGH-IN MEASUREMENTS



2. Position the valve manufacturer's stainless steel wall plate with the stem fitting through the hole.

3. Place 4" OD handle receptor plate on top of the wall plate, and secure both plates with the flat head screws provided.

4. Place the Teflon gasket against the handle receptor plate with the stem fitting through the hole.



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5. Coat the stem with Never-Seez Mariner's Choice or equivalent being careful to avoid getting any on the inside threads where the handle screw goes. (Never-Seez products can be purchased from the transmission houses that sell bearings and pillow blocks. They are made by Bostik; 800-523-2678).

6. Push the handle onto the stem until it hits the gasket and plate. The handle has been designed to fit on the stem by hand or with the least bit of tapping with a rubber mallet. (Striking the handle too hard will crack the Regulating Module inside the valve.)

7. Try to turn the handle. If it is too difficult, back the handle out slightly<sup>1</sup>. Try it again. Repeat until the handle turns easily.

*Note:* The handle must be almost tight against the gasket and plate. If it is too loose, something could possibly be secured between the handle and plate from which a hanging could result.

8. You will need an 8-32 flat head stainless steel screw<sup>2</sup> of appropriate length to secure the handle to the stem. THIS SCREW IS NOT PROVIDED. Ensure that the selected fastener can withstand substantial torque without slippage. This is important if the handle ever needs to be removed.

9. Apply Loctite 220 or equivalent to the initial threads of the screw. Do not over-tighten or the handle will bind.

*Note:* If you choose to use Loctite 220, make sure you read "Directions for use for assembly and disassembly". The Loctite should be applied only to the threads of the screw that engage the threads of the stem. Try not to get it on the jack screw handle threads.

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<sup>1</sup> If you have difficulty backing out the handle, use a long 1/4-20 screw to function as a jack bolt.

<sup>2</sup> Tamper proof fasteners are strongly recommended. The selection of a particular size and type of tamper proof fastener should be made in conjunction with a facility manager, because it depends upon factors such as construction materials and institutional standards.