A) INSTALLATION THROUGH WALL WITH SERVICE STOPS OR CHECKSTOPS.

1. Cut finished hole in wall 6” (152 mm) max. diameter.
2. Install plaster mask/mounting bracket over body of valve, and line up holes with the holes on the valve body tabs.
3. Finish wall flush with plaster mask front.
4. Remove and discard plaster mask.

B) INSTALLATION FOR FIBERGLASS, METAL OR PLASTIC ENCLOSURES.

1/16” (1.6mm) to 1/8” (3.2mm)

1. Cut finished hole in enclosure to 5” (127 mm) max. diameter.
2. Break away plaster mask from mounting bracket, discard plaster mask and install mounting bracket over valve body. Line up holes of mounting bracket with the holes on the valve body tabs.
3. Install escutcheon and dial plate over enclosure by securing with screws furnished.
4. Apply foam pointer gasket to wall flange. Mount wall flange to the valve body with the vandal proof wall flange screws provided.
5. We recommend to seal the flange to the wall with silicone to prevent water from penetrating the wall.

C) INSTALLATION WITHOUT SERVICE STOPS OR CHECKSTOPS

1. Cut finished hole in wall to 4” (102mm) max. diameter.
2. Break away mounting bracket from plaster mask and discard mounting bracket. Install plaster mask over valve body
3. Finish wall.
4. Remove and discard plaster mask.

INSTALLATION INSTRUCTIONS

1. Determine what type of installation will be utilized.
   b. Thin wall installation with mounting bracket
   c. Valve only installation with plaster-guard (service stops or check stops are recommended)

2. Install hot to the left inlet and cold to the right inlet (see H and C

3. Thread sealant, or solder flux must be used sparingly. After installation, flush pipes thoroughly (remove internal parts if necessary), to eliminate debris that may become lodged on the working parts of the valve.

4. Shower only applications require the bottom outlet to be plugged, tub only applications require the top outlet to be plugged. A tub diverter is required for tub/shower combinations.

5. Apply foam pointer gasket to wall flange. Mount wall flange to the valve body with the vandal proof wall flange screws provided.

6. We recommend to seal the flange to the wall with silicone to prevent water from penetrating the wall.

7. Check high temperature limit stop (see instructions, page 2).

8. Attach the knob to the valve stem using the vandal proof pointer screw (19834) with loctite #242 and washer (244). Turn knob clockwise to “OFF” on the dial plate.

I. "Ligature resistant" disclaimer

NOTE: This product has been designed to reduce the likelihood that it can be used as a mechanism for hanging.

II. "Not a substitute" disclaimer

This product IS NOT A SUBSTITUTE for the evaluation, treatment or appropriate supervision of persons at risk of suicide.

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OPERATION

The PAM-II® is a pressure-actuated water-mixing valve, which will compensate for changes in the pressure of hot and cold supplies and maintain bathing temperatures. The easy to read dial with directional indicators help to eliminate confusion as to where the handle should be located for a particular temperature. Turn the knob counter-clockwise from the “OFF” position through the BLUE (or COLD) area on the dial plate, the shower is on and the temperature is cold. As the handle enters the lighter RED area, shower temperature becomes progressively WARMER until the high temperature limit is reached in the full RED (or HOT) position. To turn OFF, move handle back in clockwise direction to the “OFF” position.

SERVICING INSTRUCTIONS

1. Remove knob (5455) and wall flange (6111) (See DWG 1).
2. Turn off hot and cold supplies using checkstops.
3. Temporarily place escutcheon pointer on spline and turn LEFT to maximum “HOT” position. Unscrew cover and remove complete interior assembly (See DWG 4).
4. If the valve will not shut off (ie. It drips), replace PV-8-1 upper packaging, PV-2 lower packaging, and inspect upper and lower valve seats in PV-3 sleeve (DWG 5).
5. If the valve will not mix properly, piston in PV-CR-2 control rod group may be sticking due to some deposit of foreign matter (DWG 5). To free piston,
   a. Tap either end of control rod against a wooden surface or hit with a plastic mallet.
   b. Remove PV-2 packing and screw and tap piston loose with a small drift pin.
   c. Submerge lower end of PV-CR-2 control rod group in a non-corrosive cleaning solution and flush with clean water.

NOTE: Before reinserting assembly in valve (with cover gasket) make sure escutcheon pointer has been turned LEFT to the maximum RED (“HOT”) position.

!!! WARNING !!!

THIS VALVE IS EQUIPPED WITH AN ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FACTORY SET AT APPROXIMATELY 110°F (43°C) WITH AN INCOMING HOT WATER SUPPLY TEMPERATURE OF 135°F. THE VALVE WHEN TURNED TO FULL HOT MAY DELIVER WATER IN EXCESS OF 110°F, AND THE HIGH TEMPERATURE LIMIT STOP MUST BE RESET BY THE INSTALLER, (SEE BELOW).

TO RESET HIGH TEMPERATURE LIMIT STOP (DWG 2.):

1. Remove knob (5455). Loosen 1355 stop screw, until it is flush with cover.
2. Replace pointer and turn to left or right until the valve is delivering the highest temperature of 110°F (43°C) or LOWER and remove pointer.
3. Tighten 1355 Stop Screw.
4. Reinstall knob counter clockwise pointing to the extreme RED (“HOT”) position, shut valve off.

IMPORTANT! TEST THE NEW HIGH TEMPERATURE SETTING USING A DIAL THERMOMETER TO MAKE CERTAIN IT IS AS DESIRED. HOT WATER IN EXCESS OF 110°F IS DANGEROUS AND MAY CAUSE SCALDING!!.

REMEMBER!! THIS IS A CONTROL DEVICE WHICH MUST BE CLEANED AND MAINTAINED ON A REGULAR BASIS (SEE MAINTENANCE GUIDE AND RECORD MGR-1000).
### SERVICING INSTRUCTIONS

#### SYMPTOMS

| PACKINGS & O'RINGs | 1. Leak at handle.  
|                   | 2. Valve will not shut off completely.  
|                   | 3. Valve is difficult to pull apart.  
|                   | 4. Leak at stop screw.  
| CONTROL ROD GROUP | 5. Valve delivers either all hot or all cold water, or will not mix consistently.  
| INSERTED SEAT     | 6. After replacing packings and O-rings, valve will not shut off completely.  
| CHECKSTOPS, STOPS | 7. Supplies cannot be shut off completely.  
|                   | 8. Leak at checkstop (or stop) bonnet or stem.  

#### KIT REQUIRED:

- **PACKINGS & O'RINGs**: Kit 1/ST/N
- **CONTROL ROD GROUP**: Kit R/67
- **INSERTED SEAT**: PV-3, PV-16 (2) (also PV-45 if ¼” hex tool not available).
- **CHECKSTOPS, STOPS**: Kit 13, 5, 6, or 7 above for repair kits.

#### PARTS INCLUDED:

- **PACKINGS & O'RINGs**: PV-2, PV-4B, PV-8-1, LVC-16B, 01358, 01356, PV-16 (2)
- **CONTROL ROD GROUP**: 01358, PV-CR-2, PV-3, PV-16 (2)
- **CHECKSTOPS, STOPS**: SEE DWG # 5, 6, or 7 ABOVE FOR REPAIR KITS

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