INSTALLATION INSTRUCTIONS Pressure Balancing Valve Valve Body No. 1-684 as used with Shower Fittings

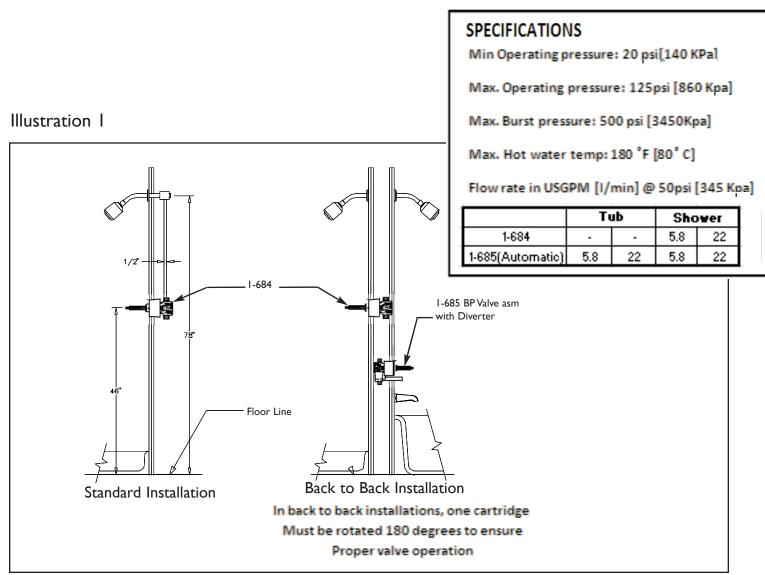
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Description

This value is precision engineered to provide satisfactory performance provided it is installed and operated in accordance with our recommendations contained in these instructions. In order to fully enjoy the comfort, safety and the reliability of this value, be certain to familiarize yourself with these instructions.

Operation

The pressure balancing cartridge contained in this valve compensates for pressure fluctuations in the water supply system through a spool and sleeve pressure balancing mechanism. The outlet temperature will change by no more than a mere $\pm 2^{\circ}$ F (1°C) with a 50% drop in either the hot or cold water pressure. Even if the coldwater pressure fails completely, the anti-scald design will reduce the flow rate to a safe level ensuring reliable protection against scalding. The built-in check valves prevent cross flow between the hot and cold supplies.



NWP-1-684

Before you begin

Make sure value is securely fastened to studs. Be sure to remove trim items, handles, escutcheons and plates before installation. Wrap carefully and store until finished wall is completed.

Install the valve by positioning the 1/2" shower outlet in the up position. Finished wall must be within dimensions shown on the chart below.

On tiled wall surfaces, grouting must be either flush or raised for proper sealing of the cover plate.

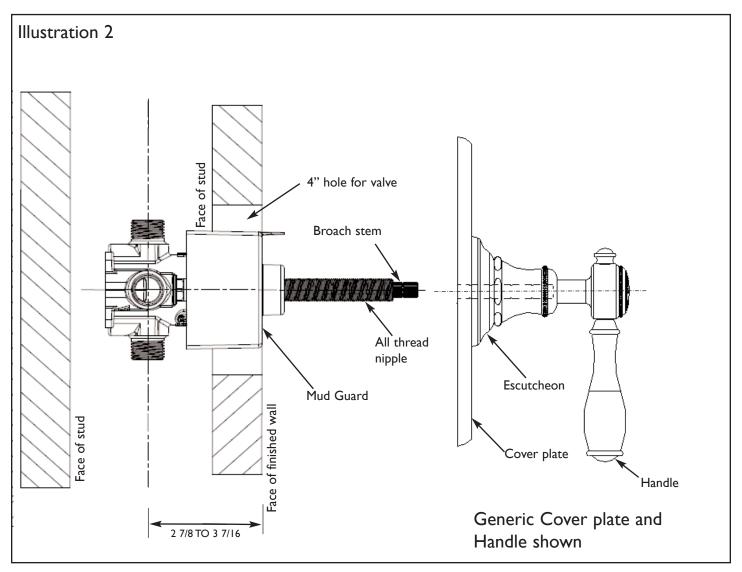
IMPORTANT: It is not necessary to remove the cartridge from the valve during **NORMAL** soldering operations using propane-butane gas. **DO NOT USE OXYGEN-ACETYLENE**. When soldering CxC connections, do not solder within 4" of valve port. Open the stop valves when soldering inlets.

To test pipe joints, pressurize both hot and cold inlets.

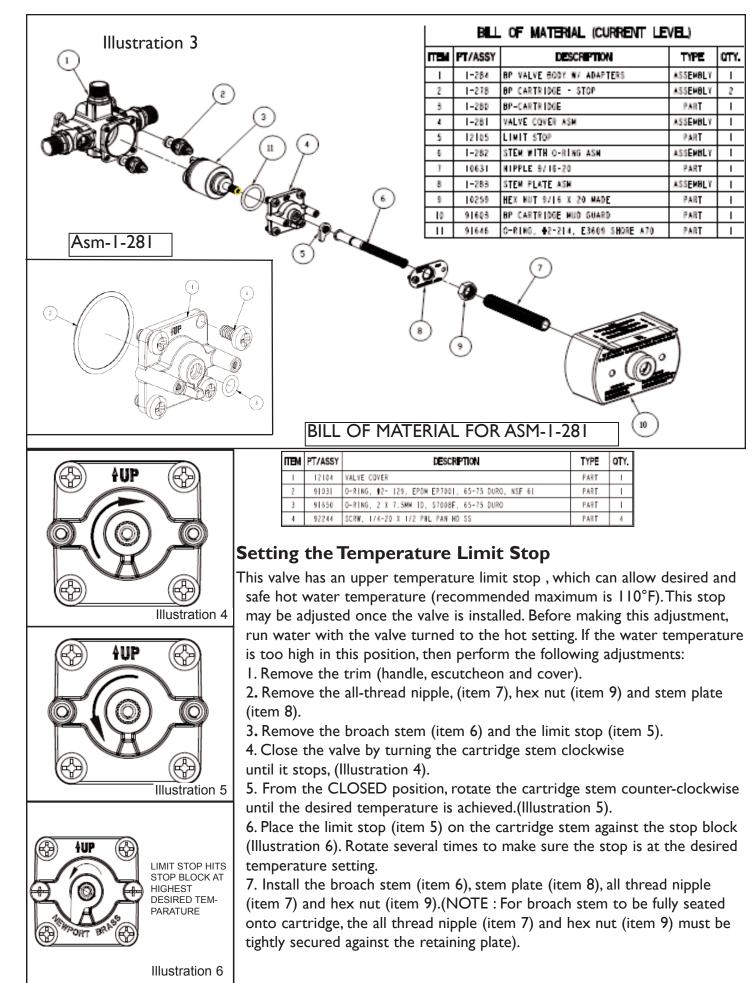
Installing Trim

Place cover plate on valve stem and slide into position. Install escutcheon/bonnet trim and mark the all-thread nipple, (Item 7) where excess needs to be trimmed.

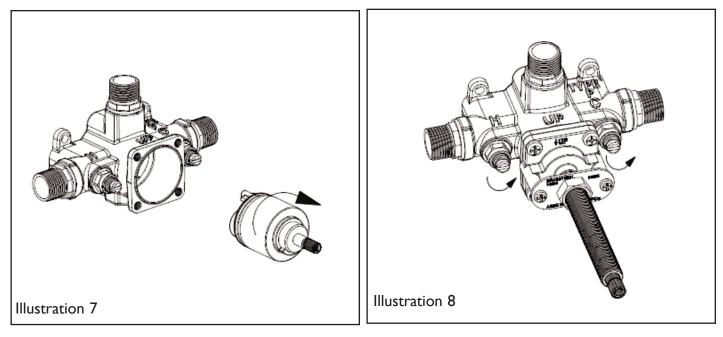
Remove escutcheon/bonnet trim and cut all-thread nipple 1/16" less than indicated mark to prevent exposure of nipple threads. NOTE: Do not cut stem, (Item 6), or all-thread nipple until finished wall is complete and a dimension check of handle and escutcheons/bonnet trim is done. (Stem is grooved at 1/2" intervals) Cut stem at least 1/2" past the end of the cut all-thread nipple. Final stem length may vary based on individual handle base insertion. Reinstall escutcheon/bonnet trim and handle. Secure handle into place by tightening the handle setscrew or tightening the bonnet, depending on handle construction. Turn on water supply to check for leaks.



NOTE: Dimensions shown are from the inlet ports to the finished wall.



* WARNING - Never try to stop dripping by applying extreme force or overtightening the handle.		
MALFUNCTION	CAUSE	REMEDY
Opening immediately to hot water.	Hot and cold water supplies have been con- nected in reverse.	Rotate cartridge 180 degrees.(Illustration 7)
Water drips after shutting off the valve.	Residual water in valve and piping.	Allow approximately 3-8 minutes to drain.*
Water leak from valve	O-ring seal on the inlet of the cartridge is faulty or seat assembly is damaged.	Check the O-ring & seat for cuts or overheating damage during installation. Replace if neces- sary.
Water insufficiently hot.	Adjustable handle position stop incorrectly set.	Refer to the instruction on "Setting Temperature Limit Stop".
Valve body too deep into wall.	The measured rough in or finished wall sur- face is incorrect.	Reset the valve.
Diverter will not stay on during shower.	Not enough backpressure between shower- head and diverter valve.	Ensure a 2.0GPM flow ewstrictor is mouted at the shower head.
No or low flow of hot or cold water.	Either the hot or cold side is not fully pressur- ized.	Verify that the service stops for both the hot and cold are fully open(turn counterclockwise) and pressurized (Illustration 8).
	Debris caught inside the inlet of the cartridge.	Remove the cartridge (See Page 3). If debris is lodged in the inlet of the cartridge The debris can be removed with a straightened paper clip or fine wire. Gently insert the wire and move it in a circular motion to dislodge any debris.



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