

Fig 5

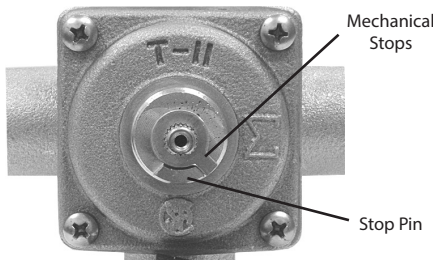


Fig 6

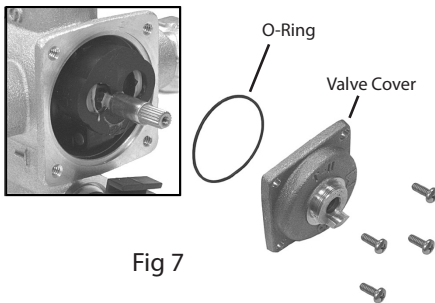


Fig 7

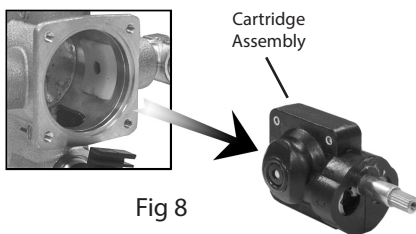


Fig 8

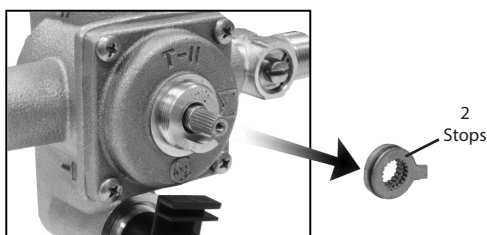


Fig 9

■ The valve body is equipped with service stop valves. Close the hot and cold water supplies.

■ Pay close attention to location setting of the mechanical stops (5 and 6). The thick mechanical stop (5) regulates cold temperature, while the thin top mechanical stop (6) regulates the hot temperature.

■ Remove the mechanical stops, which are below the cap nut in the center of the valve.

■ Loosen the four corner screws (6) and remove the valve cover (7) with the O-ring (7). The cartridge assembly is now exposed.

■ Pull the cartridge out. Do not damage the O-ring seals.

■ Reverse the cartridge 180° by turning it upside down. Place it into the valve body. Two alignment pins located on the rear of the cartridge must sit in the locating holes within the valve body. Notice position of hot ("H") and cold ("C") markings on the cartridge to assure the correct reversal in relation to the back-to-back installation.

■ Put the O-ring on the valve cover. Make sure the surface of the valve cover, on which the O-ring will sit, and the O-ring are both clean.

■ Position the valve cover with stop pin facing down. Seat the cover to the body. Do not pinch the O-ring. The assembly should fit together with a minimum of pressing force.

■ Tighten up the cover screws, first lightly and diagonally, and then more firmly.

■ Close the valve by turning the cartridge stem clockwise. Position the mechanical stops as shown in figure 6 over the cartridge stem and push it into place. Thread on the cap nut and the stem extension with All Thread; then you are ready for the trim.

Trouble Shooting - Pressure Balancing Valve

Malfunction	Cause	Remedy
Shower control opening through hot.	Hot and Cold water supplies have been connected in reverse.	Rotate cartridge as described in “Back-to-back Installation”.
Tub Filler or shower head drips after shutting off the valve.	Water remains in the piping column to the shower head (this is normal).	Allow approx. 3-5 min. to drain column, or turn lever on diverter to the tub fill position*.
	Incorrect setting of the mechanical stop(s) against the stop pin causing a partially opened cartridge.	Reset the mechanical stop as described in figure 6 previously.
	O-ring seal on the inlet of the cartridge is faulty.	Check the O-ring for cuts or damage and replace if necessary.
Shower insufficiently hot.	Adjustable handle position stop incorrectly set.	Reset handle position.
		Check hot water source temperature setting.
No flow of hot or cold water.	Either the hot or the cold side is not fully pressurized.	Be sure service stops are both wide open and system is fully pressurized.
	Debris caught inside the inlet of the cartridge.	Remove cartridge and flush out or remove any debris lodged inside the valve or inlet screens.
	Valve could be too deep in the wall.	Install stem extension kit.
Valve body too deep in wall.	The measured rough-in or finished wall surface is incorrect.	Install stem extension kit.

*** NOTE: At no time try to stop dripping by applying extreme force when closing the valve!**

Maintenance

This cartridge is designed for minimum maintenance in normal domestic use. If a malfunction occurs then this will probably necessitate a complete cartridge replacement. The cartridge contains no internally serviceable parts! Contact your installer or dealer.

To Clean trim, simply wipe gently with a damp cloth. Many household cleaners contain mild abrasives or chemicals and should never be used for cleaning decorative faucets.

Specifications and Dimensions

Min. operating pressure:	20 psi (140 kPa)	Our valves meet the requirements of the following organizations: CSA B-125 ANSI A112.18.1M ASSE 1016
Max. operating pressure:	145 psi (1000 kPa)	
Max. test pressure:	500 psi (3450 kPa)	
Hot and cold water inlets:	1/2" IPS or CxC	
Shower outlet:	1/2" IPS or CxC	
Tub outlet:	1/2" IPS or CxC	
Flow capacity:	5 USGPM @ 50 psi 19 l/min @ 345 kPa	