SANTEC
FLUID IMAGINATION

3/4” THERMOSTATIC

SANTEC has the right to make necessary design changes when applicable.
***Illustration may not depict actual products**

Rev. 10.03.22

Rough

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS, OR IMPROPER OPERATION, MAY DAMAGE THE VALVE AND VOID THE WARRANTY.

IMPORTANT: Do not remove the control spindle cover until instructed. Accidentally turning the control spindle will change the temperature setting, which is pre-callibrated from the factory.

Remove the large plastic mud guard from valve. DO NOT discard plastic mud guard.

Install the tub plug into the bottom outlet. Leave it unplugged if including a tub spout. For details and diagrams of different shower/tub schemes, see the Installation Options section.

Completely flush the lines of all dirt and debris (metallic shavings, flux, etc.) prior to installing the thermostatic valve to the supply lines.

IMPORTANT: DO NOT SOLDER DIRECTLY TO THE VALVE. THIS WILL DAMAGE THE SERVICE/CHECK STOPS AND THE TEMPERATURE CONTROL ELEMENT. USE TEFLON TAPE OR PLUMBER'S PIPE COMPOUND TO SECURE ALL CONNECTIONS TO THE VALVE.

Connect the HOT water supply to the left inlet of the valve (RED) and COLD supply to the right inlet of the valve (BLUE). See Diagram A.

Secure valve position in the wall using min/max adjustment limits. For backset measurements see Diagram B.

Connect the top outlet pipe to shower connections and bottom outlet pipe to tub spout (depending on the shower/tub scheme chosen).

Remove the plastic control spindle cover and install the Temperature Limiter with the "red mark" positioned exactly at 12 o'clock. Remember to not turn the control spindle while installing the Temperature Limiter.

Re-install the large plastic mud guard back onto the valve and do not remove it until trim arrives.

Trim

Parts Breakdown

1. Plate
2. Lock Nut
3. Sleeve
4. Silicone Washer
5. Dial
6. Screw
7. Handle Assembly
8. Set Screw
9. Allen Key

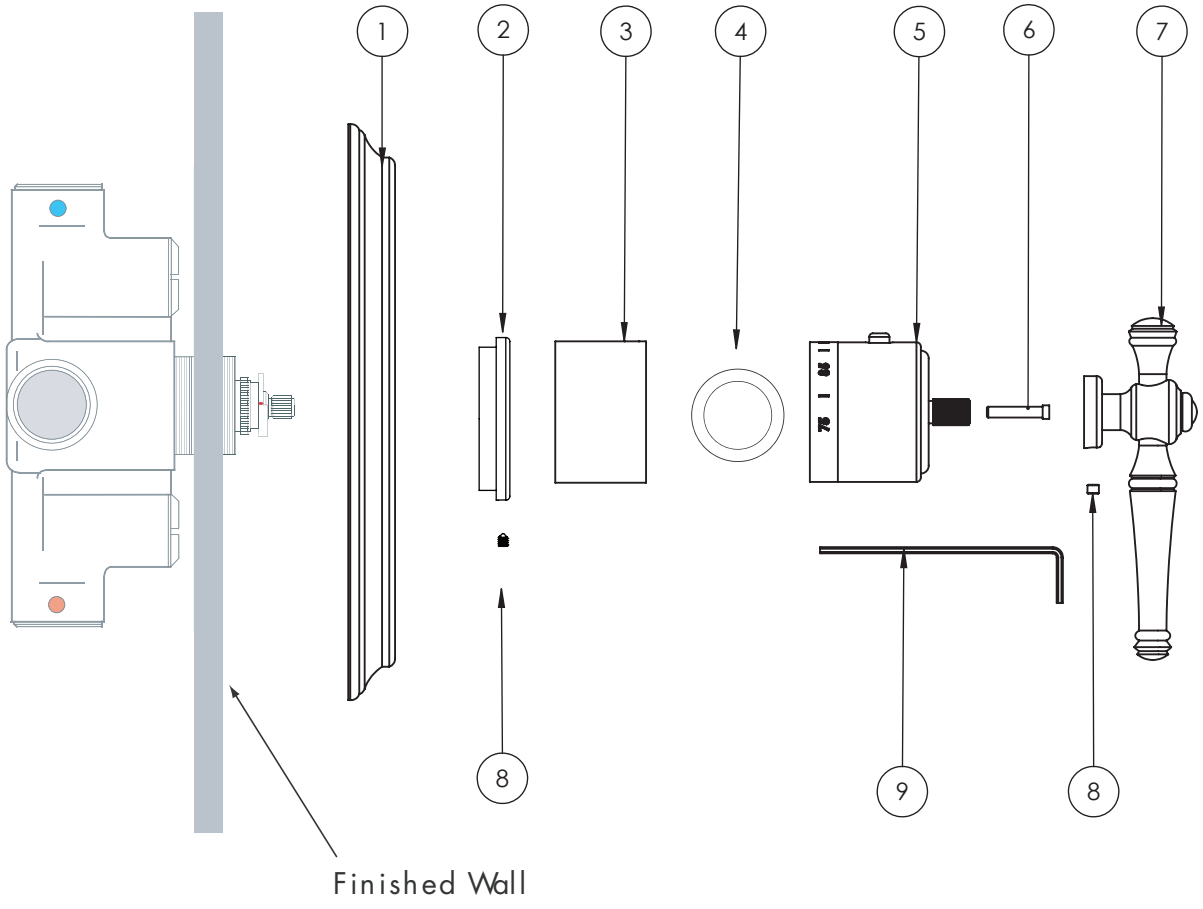


Diagram A

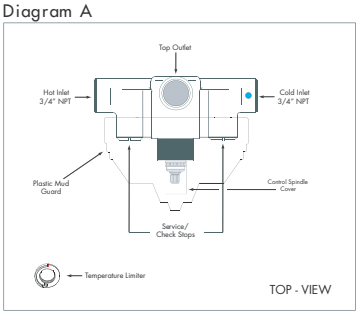
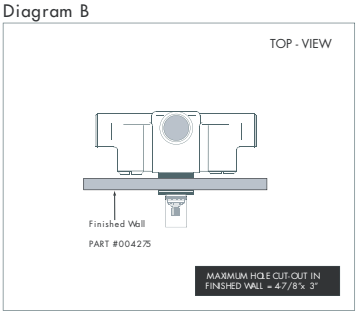
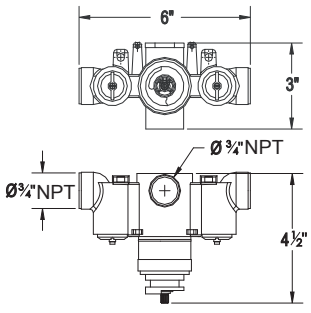
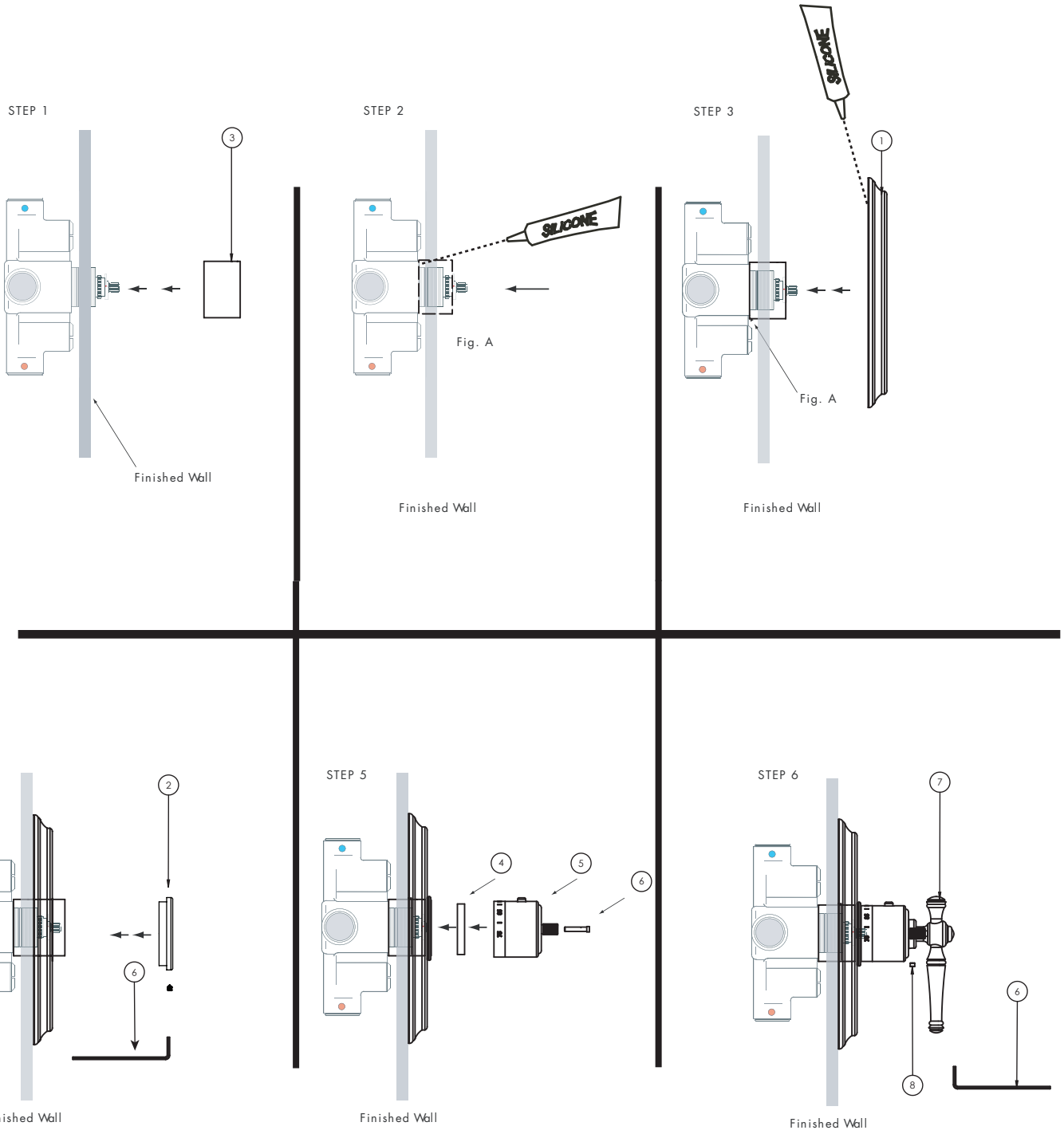


Diagram B





Trim Visual Installation



Trim

Installation

IMPORTANT: Do not turn control spindle. Accidentally turning the control spindle will change the temperature setting, which is pre-callibrated from the factory.

Remove plastic mud guard.

STEP 1: Slip the sleve onto the valve.

STEP 2:Place silicone caulk around the lower perimeter of where the sleeve meets the valve (Fig. A). Then push back until sleeve is flush against the valve.

STEP 3: Place silicone caulk around the rear perimeter of the trim plate and slip the trim plate over the installed sleeve.

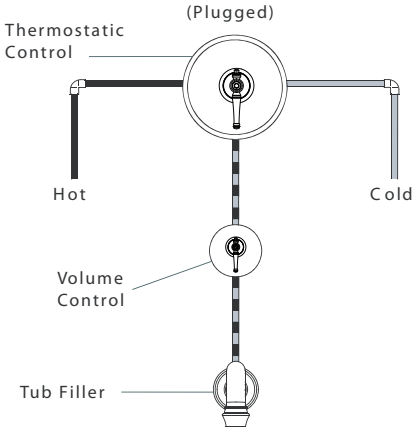
STEP 4:Slip the flange over the sleeve and onto the plate and tighten set screw with provided allen wrench.

STEP 5:Making sure that the button is exatly at the 12 o'clock position, align the dial over the sleeve and valve control spindle. Insert scerw into dial and tighten just firm enough to allow the dial to turn freely. Do not overtighten.

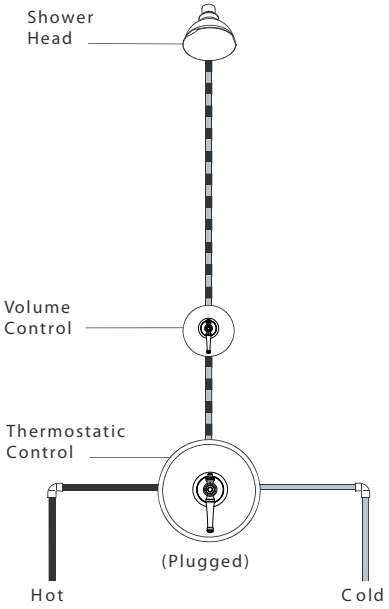
STEP 6: Now that the sleeve, plate, and dial are installed, place the handle assembly onto the dial. Secure the handle with the set screw and tighten using the provided allen wrench.

Installation Options

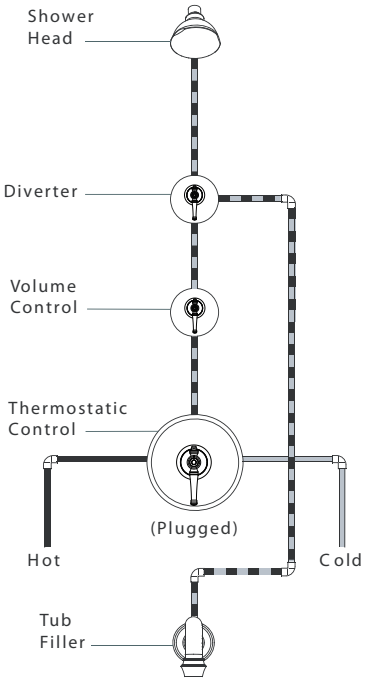
Tub Filler



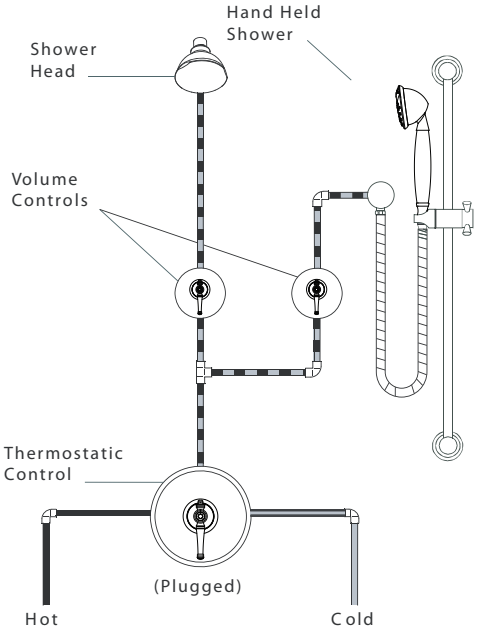
Shower



Shower & Tub Filler

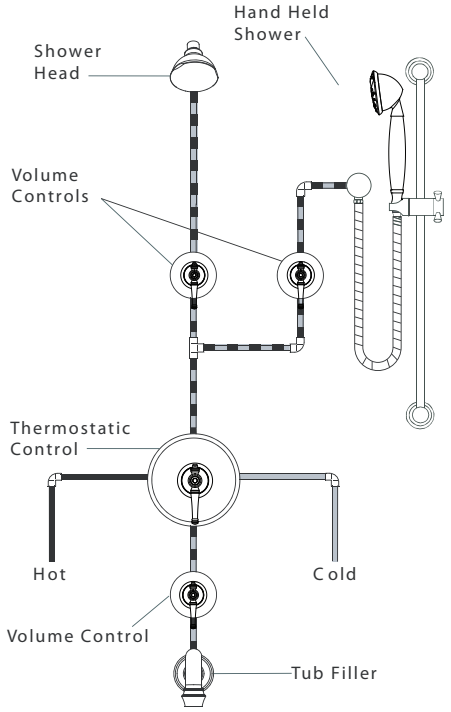


Shower & Hand Held

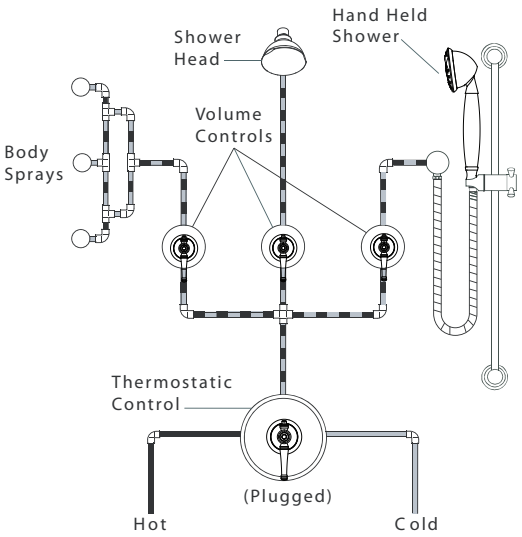


Installation Options

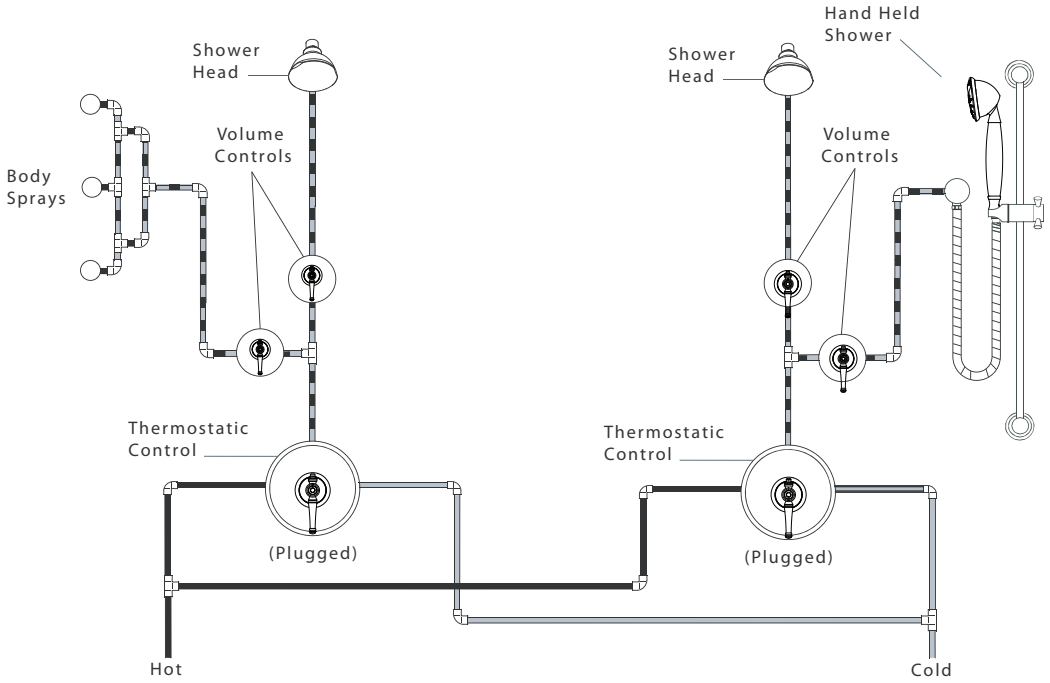
Shower, Tub Filler & Hand Held



Shower, Hand Held & Body Spray



2 Showers, Hand Held & Body Spray

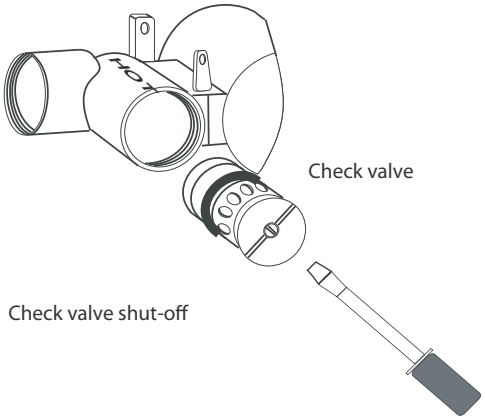


Maintenance

Filter Cleaning

DURING THE INSTALLATION OR THROUGH THE YEARS OF USE, DEBRIS AND IMPURITIES MAY CLOG THE FILTERS IN THE BOTH INLETS, CAUSING THE WATER TO BE RESTRICTED OR DECREASED CONSIDERABLY.

Please follow these instructions to clean the filters:



Shut off the water supply.

Remove the dial cap, screw, and dial.

Remove remaining assembly by carefully applying a plumber's wrench to the outside of the sleeve and turn counter-clockwise.

Remove nut from sleeve and then remove the plates from the wall.

Flush the debris with water. If necessary, soak in a 50/50 mix of white vinegar/water until all dirt is dissolved.

Oil the O-rings with vegetable oil and wipe the housing with a wet cloth before reassembling.

Reinstall the valves.

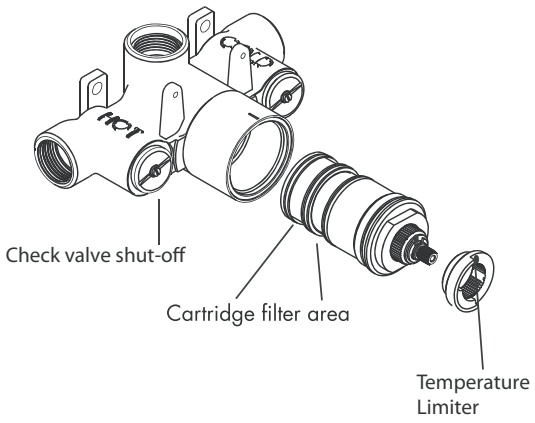
To fully open the water flow through the valve, make sure the check valve shut off mechanism is fully open (Turn the mechanism counter-clockwise to increase the water flow).

Maintenance

Cartridge Cleaning

AFTER YEARS OF USE, IMPURITIES AND LIME SCALE CAN RESTRICT THE WATER FLOW.

Please follow these instructions to clean the cartridge:



Remove the dial cap, screw, and dial.

Remove remaining assembly by carefully applying a plumber's wrench to the outside of the sleeve and turn counter-clockwise.

Remove nut from sleeve and then remove the plates from the wall.

Shut off the water line by turning the check valve shut off mechanism clockwise. Make sure that both hot and cold sides are closed.

Gently remove the cartridge using a 24MM wrench or an adjustable wrench.

Wash the filter under running water. If necessary, soak in a 50/50 mix of white vinegar/water until all dirt is dissolved.

Oil the O-rings with vegetable oil and wipe the housing with a wet cloth before reassembling.

Carefully reassemble the cartridge.

Open the water flow by turning the check valve shut off mechanism counter-clockwise and check water flow.

If the water flow is normal, reassemble the trim (see "Trim" section for installation and proper positioning of the thermostatic settings).

Specifications

General Characteristic

SANTEC thermostatic valves are suitable for most water heater systems, provided that it is installed correctly.

Low pressure storage heaters are not recommended for this application.

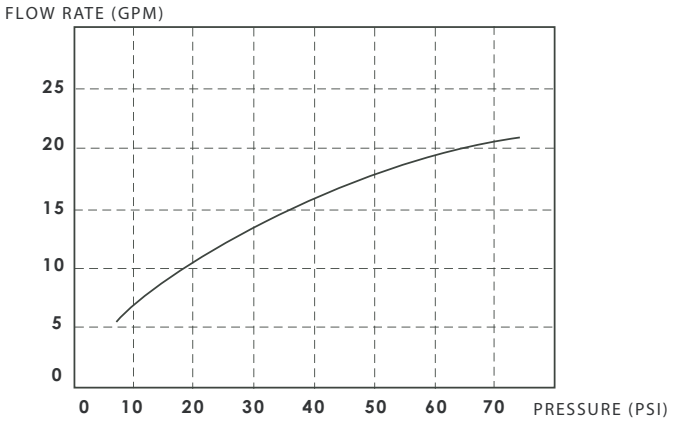
NOTE. This valve model does not have an integral volume control. Separate volume control units are required.

Specifications

Temperature

Maximum temperature	185 °F
Temperature dial range	50 °F to 149 °F
Temperature limiter	set at 100 °F

Flow rate chart



Operation Pressure

Minimum	1.45	PSI
Maximum	72.5	PSI

NOTE. For pressure greater than 75 PSI, a pressure reducing valve is required.