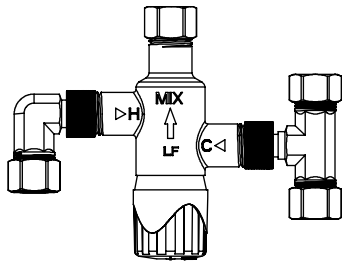


INSTALLATION MANUAL



File NO. 4884
ASSE 1070 Approved

PERFORMANCE RATING

Minimum supply pressure:	20 PSI (125 kPa)
Min. HW inlet/outlet temperature differential:	10° F
Max. HW/CW pressure differential:	20%
Hot inlet temperature:	120° F - 200° F (49° C - 93° C)
Cold inlet temperature:	38° F - 80° F (3.3° C - 27° C)
Outlet temperature control:	80° F - 120° F (27° C - 48.9° C)
Maximum pressure:	150 PSI (10.3 bar)
Flow rates:	0.5* - 3.2gpm

*Must use recirculation loop for < 1.0gpm flow

Notes:

- As tested in accordance with ASSE 1070.
- This is the minimum difference required between the valve outlet temperature and the hot supply temperature to ensure shut-off of outlet flow in the event of cold supply failure, in accordance with ASSE 1070.
- Maximum permitted variation in either supply pressure in order to control the outlet temperature to within $\pm 5^\circ$ F. Excessive changes in supply pressure may cause changes in outlet temperature that exceeds $\pm 5^\circ$ F.

FITTING THE VALVE

- The mixed water outlet from the valve should be used to supply outlets used primarily for personal hygiene purposes.
- It is recommended that the valve is installed as close as possible to the point of use; however, it may be fitted anywhere on the hot water supply pipe.

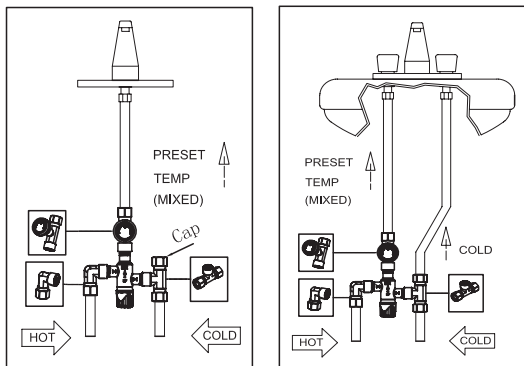


Diagram 1 - Typical Installations

IMPORTANT

Failure to comply with all aspects of these instructions may result in unsafe performance. All installations must comply with relevant state and local authority requirements.

Flush the system thoroughly before fitting the valve.

It is CRITICAL that all debris is flushed from the pipework prior to installing the valve. Not flushing the system properly is the most common cause of system difficulties.

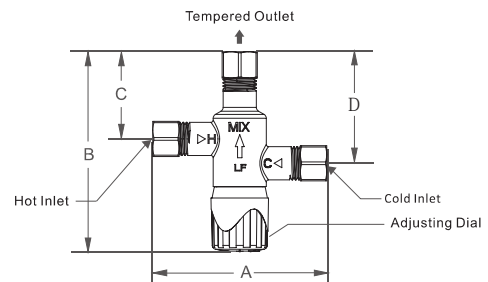
Commission the valve.

Every valve is factory-set to a nominal temperature of 105°F. Every valve must be adjusted on-site to ensure correct delivery of the desired mixed water temperature, as installation conditions can vary from site to site.

Check:

- Measure and note all site parameters (pressure, temperature, etc.) and check against the specifications of the chosen valve if the site conditions are outside those specified for the valve then they must be rectified prior to installing the valve.
- Valve MUST NOT be subjected to heat during installation as this may damage the valve internals.
- Valve MUST NOT be fitted on steam-supplied systems, but to water systems only.
- Valve MUST NOT be frozen. If the valve is installed in a situation where freezing is a possibility, then suitable insulation must be fitted to prevent damage to the valve.
- DO NOT use excess thread sealant (in liquid, tape or other forms) as this may cause the valve to fail.

Leave a copy of these instructions with the client for future reference. **Recommend to the client that the valve be checked annually to ensure its continued function.**



Dimensions	A	B	C	D
3/8"	3" (77mm)	3.5" (90mm)	1.5" (39mm)	2" (50mm)

Diagram 2 - Valve Dimensions

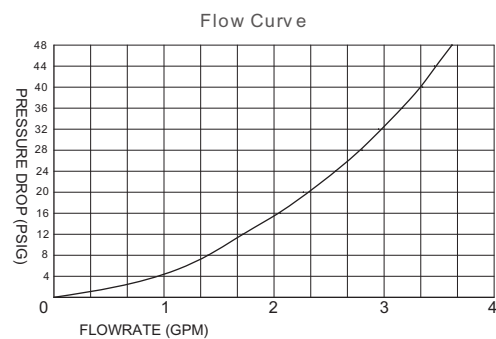


Diagram 3 - Flow Characteristics