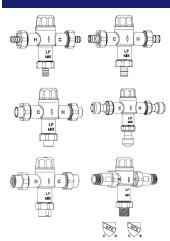




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THERMOSTATIC MIXING VALVE





Outlet Temperature Range Temperature, Hot Supply Temperature, Cold Supply Temperature Stability(nominal) Temperature Differential (between Hot Supply and Outlet Temperature)

Hydrostatic Pressure: Permitted Supply Pressure Variation: Flow rate @ 45PSI Pressure Loss:

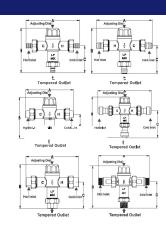
Flow Rate Minimum Flow Rate Maximum 80-120° F (27-49°C) 180°F max (82°C) 40-80° F (4-27°C) ±5°F(±2.8°C)-See Note 1 (1/2") ± 10°F (11°)-See Note 2. (3/4") ± 10°F (11°C)-See Note 2.

150 PSI MAX. ±20% - See Note 3 (1/2") 9GPM (3/4") 11 GPM 0.5 GPM (1/2") 10GPM 6006

(1/2')10gpm@ 60psi pressure loss (3/4")12gpm@ 60psi pressure loss

Notes:

- 1. As tested In accordance with ASSE 1070.
 2. 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.
 3. Maximum permitted variation in either supply pressure in accordance of the outlet temperature to within 4.5 of Exposers.
- order to control the outlet temperature to within ±5 ⋅F. Excessive changes in supply pressure may cause changes in outlet temperature.that exceeds ±5° F.



Valve Dimensions:

DIMENSIONS	A	В	С
1/2" 1807 PEX	5.5" (140mm)	4.5" (116mm)	2.7" (70mm)
3/4" 1807 PEX	5.5" (140mm)	4.5" (116mm)	2.7" (70mm)
1/2" 1960 PEX	5.7" 9147mm)	4.7" (119mm)	2.9" (73mm)
3/4" 1960 PEX	6.2" (157mm)	4.9" (124mm)	3" (78mm)
1/2" SOLDER	5.1" (131mm)	4.4" (111mm)	2.6" (66mm)
3/4" SOLDER	5.7" (146mm)	4.7" (119mm)	2.3" (73mm)
1/2" PUSHFIT	7" (179mm)	5.3" (135mm)	3.5" (90mm)
3/4" PUSHFIT	7.6" (193mm)	5.6" (142mm)	3.8" (96mm)
1/2" F-NPT	5.4" (136mm)	4.4" (113mm)	2.7" (68mm)
3/4" F-NPT	6" (153mm)	4.8" (123mm)	3" (76mm)
1/2" M-NPT	5.8" (148mm)	4.8" (123mm)	3" (77mm)
3/4" M-NPT	5.8" (148mm)	4.8" (123mm)	3" (77mm)

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 property is the most common cause of system difficulties.

. Commission the valve:

Every valve Is factory-set to a nominal temperature of 1 OS'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.

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Check:

- heck:
 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
 orotherforms)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.

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.

Hot water out Thermostatic mixing valve Mixed water Boiler Pressure relief valve Cold water inlet

CHECKING/ SERVICING THE VALVE

- We recommend that the valve is checked at least once per year to ensure its continued function. For installations with poor or unknown water quality, or other adverse supply conditions, it may be necessary to check the valve at more frequent intervals.

 The temperature should be checked at the same outlet as used for commissioning in the first instance. If the temperature is more than 5°F from the commissioning temperature, refer to Trouble shooting guide on the table sheet below.
- There may be some variations in the temperature of the water from the thermostatic mixing valve due to seasonal temperature variations in the cold water supply.
 If the water supply is of poor quality, a filter or strainer should be fitted to the system.

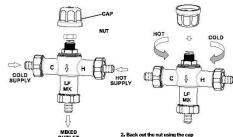
TEMPERATURE ADJUSTMENT

- Prior to setting the valve it is necessary for the hot water source to be switched on and delivering hot water at the designated temperature.
- Test the mixed water temperature at the nearest outlet being supplied by the valve. This should be opened to allow a flow rate of 1 to 1.5 gpm (4 to 6 l/min).

 A thermometer must be used at the nearest outlet to the
- valve to ensure the correct mixed water temperature is
- · Allow the water to run for at least one minute to ensure the mixed water temperature has settled.

 To adjust the mixed outlet temperature of the valve,
- correct and standard operation is repulred, Referto diagram3.

 After adjustment replace the cap to lock the valve h position and prevent tampering.



nut on top of the vain

ature turn anti-clockwise.

Diagram 2 - Valve Adjustment

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THERMOSTATIC MIXING VALVE

Troubleshooting Guide

FAULT/ SYMPTOM	CAUSE	SOLUTION
The deal red milited water temperature cannot be obtained or valve is difficult to sat.	Inlattamperaturea era not within specific limita. Hot and cold supplies are reversed.	Ensure inlet temperatures are within the specified limits for iha valve. Refit the valve with Hot/Cold aupplies fitted to the correct connections.
Mixed temperature unstable or changing overtime.	Fluctuating supply pressures.	Install pressure regulating valvea on both hot and cold supplies.
Eitherfull hot or full cold water flowing from outlet fixture.	Valve is incorrectly set. Hot and cold supplies are reversed .	Adjust mixedtemperature as required. Refit the valve with Hot/Cold suppiles fitted to the correct connections.
4. Noflowfromthe valve outlet.	Hot or cold water supply failure. Filter is blocked.	Restore inlet supplies and check mixed temperature . Clean filter.
5. Flow rate reduced or fluctuating .	Fluctuating supply pressures. Fliter la blocked.	Install pressure regulating valves. Clean filter.
6. Mixed water temperature does not change when temperature adjuster is altered.	Hot and cold supplies are reversed.	Refit the valve with Hot/Cold aupplies fitted toth1 correct connections.
7. Valve is noisy.	Excessive water velocity. Valve sized incorrectly.	Reduce watervalocity (best achieved by fitting a pre, Hure ra9ulatin9 valve). Check valve specifications and ensuNt the appropriate valve ia u H d for required flow.

Installer, please provide the following information and leave these instructions with the client:
Installed By:
Date:
Pressure At the Valve:
PSI
Mix Temperature:

_______°F

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