

## MP4 Thermostatic Valve 1/2"



### Description

- High performance in-Wall Thermostatic Water Mixer for Commercial Applications

- Heavy Brass Construction

- Non-corrosive Materials

#### Cartridge:

- Wax Element

- Long life polymer construction

- 1/2 " built in Check Valves and Service Stops

- Temperature Control with Acrylic Handle and Adjustable Safety Stop

### Flow Rate

Minimum: 2.0 GPM

at 45 PSI: 13.8 GPM

|     |     |     |     |     |     |     |      |      |      |      |      |      |
|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| PSI | 3   | 5   | 10  | 15  | 20  | 25  | 30   | 35   | 40   | 45   | 60   | 80   |
| GPM | 2.0 | 4.7 | 6.2 | 7.2 | 8.6 | 9.7 | 10.8 | 11.9 | 12.7 | 13.8 | 16.4 | 19.2 |

### Certification

ASSE Standard 1016 - Temperature variation +/- 1.7°C (3°F) at flow rate 2.0GPM to 10.0GPM

ASME/ANSI A112.18.1

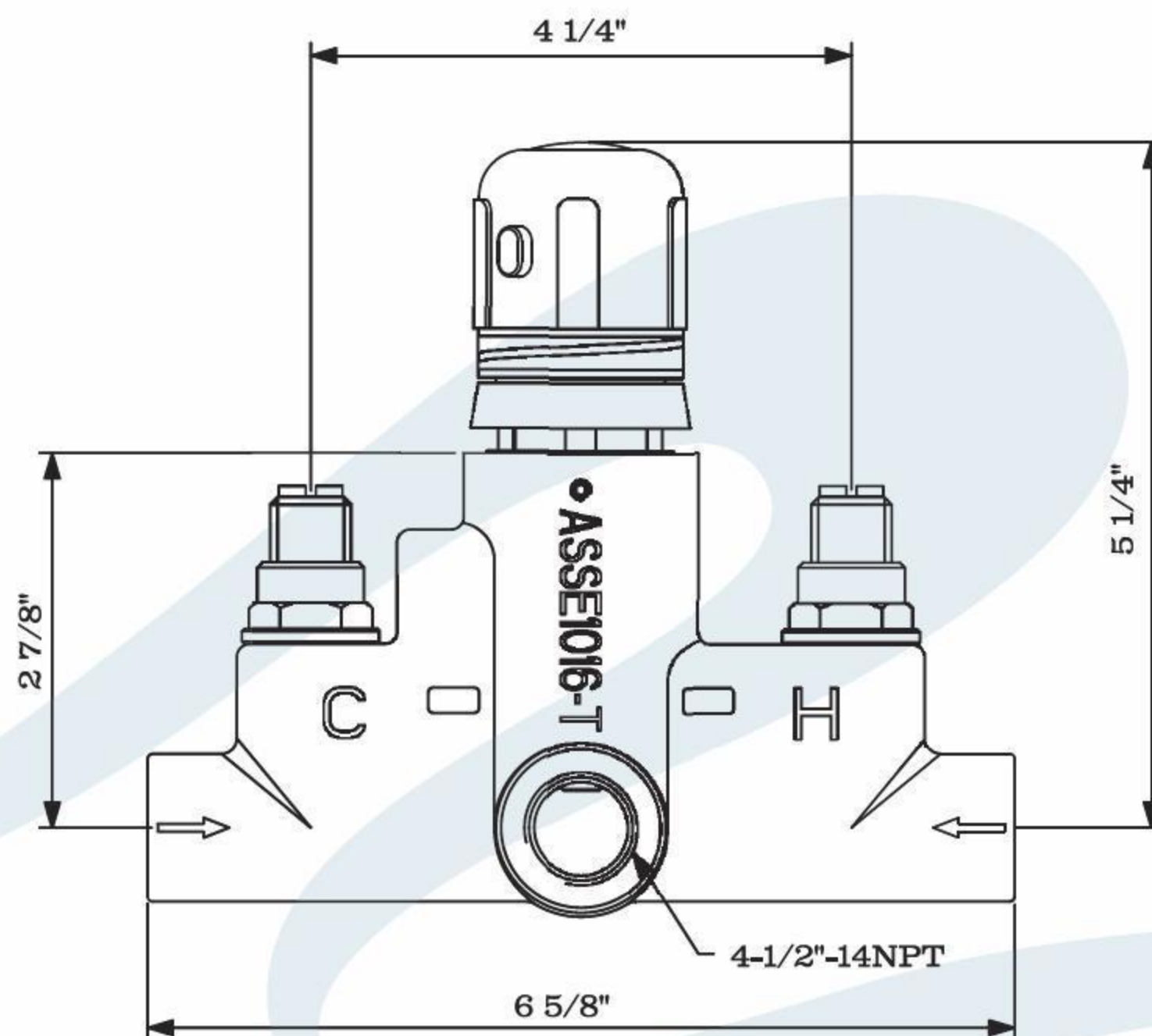
## MP4

### Thermostatic Valve 1/2"

#### Detailed Description

|  |  |
|--|--|
| Max. Operating Pressure:                 | 125 PSI  |
| Recommended Flow Pressure:               | 12-75 PSI                                      |
| Test Pressure:                           | 500 PSI  |
| Max. Hot Water Temperature:              | 80°C (176°F)                                   |
| Max. Outlet Temperature                  | 49°C (120°F)                                   |
| Adjustable Safety Stop:                  | Recommended Setting: 38°C (100°F)              |
| Hot Water differential from mixed water: | Plus 2°C (3.6°F)                               |
| Hot Water Marks:                         | Red / H  |
| Cold Water Marks:                        | Blue / C                                       |
| Maximum Flow Rate:                       | 13.8 GPM @ 45 PSI                              |
| Minimum Flow Rate:                       | 2.0 GPM  |
| Temperature variation                    | +/- 1.7°C (3°F) at flow rate 2.0GPM to 10.0GPM |
| Body Configuration:                      | See Overview Drawing                           |
| Top and Bottom outlets                   |  |

#### Technical Specifications



## MP4

### Thermostatic Mixing Valve 1/2 inlet

#### INSTALLATION INSTRUCTIONS

Valves should be installed by a licensed plumbing contractor in accordance with local codes and plumbing practices.

1. Select a suitable location for the valve, keeping in mind accessibility for subsequent adjustment and servicing.
2. Flush all supply piping thoroughly.
3. Close both hot and cold water supply valves upstream of valve location and allow remaining water to exit the system. Ensure that the water supply pipes are clean and free of foreign objects.
4. Connect hot and cold water supply to inlets marked H and C respectively. Connect mixed water outlet. The connections are 4 - 1/2"-14NPT. Keep stop valves closed

**Note: Sweat soldering the connections should NOT be done under any circumstances. The high temperatures involved can seriously damage and/or destroy the thermostatic cartridge.**

5. Open cold water supply valve and check for leaks in the connection. If leaks are observed, tighten connection as required. If no leaks are found, slowly open stop valve on MP4 and check again for leaks. Repeat procedure for hot water supply side.
6. Open fixture and allow water to flow for 1-2 minutes.

#### TEMPERATURE ADJUSTMENTS

1. The thermostatic mixer outlet temperature is factory set according to the scale found on the ring of the handle. Also, it is factory set not to exceed 38°C or 100°F in normal operation without depressing the red safety button.
2. If a warmer temperature (to a maximum of 49°C or 120°F) is desired, depress the red button while simultaneously turning the handle counter clockwise.
3. If, for some reason, the temperature of the mixed water does not correspond precisely to the temperature scale on the ring, the following adjustment procedure can be followed to correct the setting:
  - A. Carefully lift off the cap on the handle with a fine screw driver or similar prying tool. Be careful not to scratch the handle and cap during this step.
  - B. With a suitable Phillips screw driver, unscrew the screw under the cap.
  - C. Gently pull off the handle from the valve stem. Be sure to leave the inner black ring in place on the valve with the white dot up.
  - D. Turn on the water flow and measure the temperature of the water with a small, straight thermometer.
  - E. Adjust the temperature of the mixed water by slightly turning the valve stem by hand, either clockwise to lower the temperature or counter clockwise to raise it. Only very little valve stem movement is required to change the temperature of the mixed water.
  - F. When the temperature of the mixed water is exactly 38°C or 100°F, push the handle back onto the valve stem making sure the red safety stop and the white dot on the inner, black ring are lined up in a straight line.
  - G. Re-install the handle screw and cap.

## MP4

### Thermostatic Valve, 1/2" inlet

#### PARTS LIST

| # | Description                    | Part Number |
|---|--------------------------------|-------------|
| 1 | Handle kits, CP                | 01-128      |
| 2 | Nut, 1-7/16"-20UNF             | 02-183      |
| 3 | Thermostatic Cartridge, Vernet | 04-140      |
| 4 | Stop/Check Valve Assy.         | 01-129      |
| 5 | Brass Valve,                   | 02-181      |
| 6 | Nut, 1/2"-14 NPT               | 02-182      |
| 7 | Set Screw, M4 x 2.0 hex. x 8 L | 08-054      |

