Series N170
Master Tempering Valves for Hot Water Distribution Systems

ASSE 1017 Listed
Retrofit and New Installations
Commercial, Institutional, Industrial

watts.com
Introducing Watts' New Generation of Master Tempering Valves

The Series N170 thermostatically blends hot and cold water ensuring safe delivery throughout domestic hot water distribution systems in commercial, institutional and industrial facilities. Five brand new models meet a broad range of capacity and budget requirements.

We’ve Improved the N170’s All Around Performance....

- ASSE 1017 listing and CSA B125.3 compliance ensure safe, consistent performance over time.
- Broader temperature range eliminates the need for low temperature models. The M3 model operates safely over a range of 90–180°F (32°-82°C)
- Vastly improved low flow control (as low as 3.0 gpm, 11 lpm) for applications where minimum flow performance is critical
- Approach temperature (hot water inlet – mixed outlet) of 5°F (3°C) provides maximum mixed outlet temperature for installations where hot water is generated at lower temperatures
- Now offered with checkstops and integrated filters for new installations as well as without for retrofit installations

.... While Maintaining These Critical Features

- Rough-in dimensions are identical for direct replacement with M2 model installed base
- Solid bronze construction provides years of dependable service
- Paraffin thermostat provides precise temperature control and powerful response to temperature changes
- Five valve sizes and capacities handle a broad range of tempering requirements

Watts, the most respected name in commercial plumbing and leading innovator in water tempering technology has dramatically improved the performance of its large capacity thermostatic valve line, the Series N170. The new N170-M3 now carries the ASSE 1017 seal, boasts a new compact exterior and features re-engineered internals for enhanced safety, superior performance and extended reliability.
ASSE 1017

Entitled "Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems", the American Society of Sanitary Engineering’s 2003 revision is intended for mixing valves that are installed at the hot water source. More specifically:

• ASSE 1017 does not require valves to compensate for pressure changes, only temperature
• Temperature control is determined by valve capacity at a 10psi differential. The lower the flow, the tighter the control required
• Low flow control is critical when determining the proper valve size. Understand the minimum flow requirements of a project prior to final valve selection
• ASSE 1017 valves are to be used in conjunction with tempering valves that are listed to any of the ASSE point-of-use standards including to ASSE 1016 (Watts USG/MMV/L111), ASSE 1069 (MMV/L111) or ASSE 1070 (USG/MMV/L111).

Engineered from the Inside for Superior Performance and Reliability

1. Lockable, vandal-resistant temperature adjustment for increased safety.
2. Powerful paraffin-based thermostat for precise temperature control.
3. Solid bronze casting for durability
4. Polysulfone internals resist excessive heat, liming and corrosion
5. Single seat design ensures tight shutoff if cold water supply pressure is lost.

Multi-Directional Mounting

The new N170-M3 features multi-directional mounting which allows the M3 model to be mounted as shown without effecting performance. This provides greater installation options for new projects. Rotatable, union checkstops (optional) can be rotated 360° as well.
From Four To One

By significantly improving performance and materials, Watts has consolidated the number of models per size from four to one. The M3’s single temperature range replaces the M2’s high and low temperature models. Polysulfone internal components, with a heat deflection temperature of 345°F (174°C), maintain their properties over a wide temperature range and eliminate the need for the special Teflon® disc found on the M2’s HT series.

Teflon® is a registered trademark of the E.I. DuPont de Nemours & Company.