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SPECIFICATION SHEET *SIMPLICITY*Ô

Thermostatic Water Mixing Valve

Features

- The Single System SIMPLICITY™ Mixer provides a cost-effective thermostatic hot water mixing valve for systems with high capacity requirements.
- The Dual System SIMPLICITY™ Mixing Valve provides system redundancy, which allows continued hot water service at all times. System redundancy allows flexible maintenance schedules; eliminating costly overtime maintenance.
- All SIMPLICITY™ mixers are provided with soft-seat check valves and union ball valves for ease of installation.
- The SIMPLICITY's™ design dramatically reduces repair kit costs.



SIMPLICITY™ Mixer -- Dual System

Operation

The Towle-Whitney SIMPLICITY™ Thermo-static Water Mixing Valve is designed for use on commercial systems with circulators and aquastats.

The SIMPLICITY™ mixer is designed to allow proper valve sizing for water flow in the range of 7.5– 10 feet per second which results in sufficient flow and pressure to reduce build up of rust and scale, keeping the valve clean and reducing failure.

SIMPLICITY[®] Thermostatic Hot Water Mixing Valve



The Simplicity Mixer ASSE 1017 Dual Control can be used to replace other hot water mixers.

The Simplicity design is extremely dependable and eliminates the problems associated with multiple moving parts found in other designs. Hot water is very aggressive so Simplicity offers you a simple one-part system. Some mixers have a multitude of moving parts that get gummed up and stick. When dealing with hot water, this is dangerous and should be avoided.

- The Simplicity Mixer's dual control allows complete service in-line without shut down.
- The cartridge style thermostat makes repair quick and easy.
- The Simplicity's union end ball valves allow isolation of the upper and lower units. By separating the two mixers, you are able to perform independent temperature adjustment.
- The Simplicity Mixer is shipped with a 1" MDF water resistant backing board painted flat black mounted with uni-struts.
- Meets ASSE 1017 approvals.
- Custom sizes are available.
- Easy to calculate the cross-reference and order—technicians available at 800-807-9827.

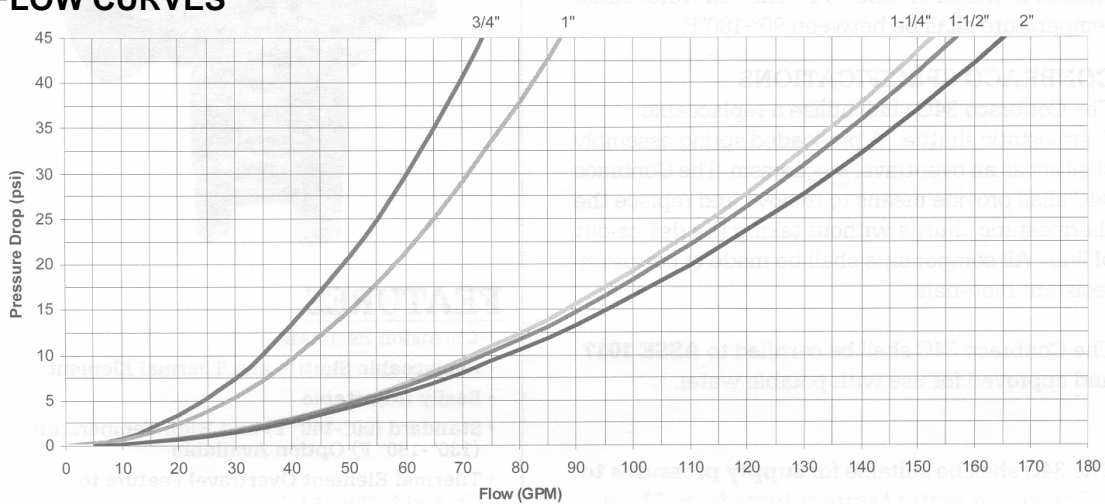
SIMPLICITY[®] Thermostatic Hot Water Mixing Valve

SPECIFICATIONS

The Towle-Whitney SIMPLICITY[™] Thermo-static Water Mixing Valve meets ASSE 1017. Flexible design options allow the SIMPLICITY[™] to be fabricated to your specifications, delivered pre-assembled and fully tested to meet all state and local codes.

The SIMPLICITY[™] temperature actuated mixing valve is approved to control water temperature in domestic potable hot water systems from the hot water source. The SIMPLICITY[™] mixer will supply mixed water between 90° and 140°F with a hot water inlet range between 120° and 180°F. The cold-water range shall be from 41° to 70°F with a hot water inlet temperature at least 20°F higher than the outlet temperature. The maximum working pressure shall be 125 PSI. The SIMPLICITY[™] single and dual mixers shall be ASSE 1017.

FLOW CURVES



CROSS REFERENCE

- Single System SIMPLICITY[™] mixers meet ASSE 1017 and replaces High Low systems which meet ASSE 1017.
- Dual System SIMPLICITY[™] mixers meet ASSE 1017 and replace High Low systems with redundancy for continued hot water service even under service and repair.
- SIMPLICITY[™] mixers can be used to replace: the Watts N-170 and Powers devices.

REQUIREMENTS

- Circulator and aquastat requirement begins at 100 feet developed length. Consult factory for water systems without circulators.



SIMPLICITY[™] Mixer -- Single System

SIMPLICITY[®] Thermostatic Hot Water Mixing Valve

CHARACTERISTICS AND MATERIALS

VALVE BODY	<ul style="list-style-type: none">• Cast Bronze Body
RETAINER	<ul style="list-style-type: none">• Brass (3/4" – 1")• Cast Bronze (1 1/4" – 2")
ADJUSTING SCREW	<ul style="list-style-type: none">• Brass (3/4" – 1")• Stainless Steel (1 1/4:" – 2")
SHUTTLE	<ul style="list-style-type: none">• Noryl
THERMAL ELEMENT	<ul style="list-style-type: none">• Bronze/Stainless Steel
RETURN SPRING	<ul style="list-style-type: none">• Stainless Steel
OVER-TRAVEL SPRING	<ul style="list-style-type: none">• Stainless Steel
O-RINGS	<ul style="list-style-type: none">• Buna-N

SINGLE SYSTEMS - HIGH CAPACITY COMMERCIAL

MODEL	
3/4"	TW S-1075
1"	TW S-1100
1 1/4"	TW S-1125
1 1/2"	TW S-1150
2"	TW S-1200

DUAL SYSTEMS - HIGH CAPACITY COMMERCIAL

MODEL	
3/4"	TW S-2075
1"	TW S-2100
1 1/4"	TW S-2125
1 1/2"	TW S-2150
2"	TW S-2200