



# Submittal Data Information

## Tempering Valves

101-041

Effective: September 1, 1995

Supersedes: SD 100-2.8 dated October 1, 1982

Job: \_\_\_\_\_ Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_ Rep: \_\_\_\_\_

ITEM NO.	MODEL NO.	

### CAUTION

Taco Valves are not to be used to provide "anti-chill" or "anti-scald" service. Taco Tempering Valves are not designed to compensate for system pressure fluctuations and should not be used where more sophisticated pressure-compensating temperature controls are required.

### PURPOSE:

Taco Tempering Valves reduce hot water supply temperature, by mixing cold water with hot water at the source, to 120°F-160°F (adjustable) for domestic hot water distribution. Since the water temperature in the hot water supply pipe is lowered, transmission heat losses are reduced. Taco Tempering Valves also lengthen the delivery time of hot water from a storage tank or automatic hot water heater. Thus, less waste of hot water and reduced transmission losses result in energy savings.



Nos. 508, 526

### FEATURES:

- Powerful Non-Liquid Thermostatic Element
- External Adjustment
- Corrosion Resistant Construction
- Sweat Connections
- Thermostatic Element Easily Replaced Without Removing Valve

### SPECIFICATIONS:

- All Bronze, Brass and Stainless Steel Construction
- Maximum operating temperature: 200°F (116°C)
- Maximum working pressure: 125 PSI (861 kPa)

PRODUCT NO.	SIZE CONNS.	TYPE CONNS.	TYPE ADJUSTMENT	RATINGS	TEMP. RANGE	MAX. SUPPLY TEMP.	LENGTH	SHIP WT. LBS.
				GPM				
508	1/2"	Sweat	External	6	120°-160°F	200°F	33/4"	.5
526	3/4"	Sweat	External	12	120°-160°F	200°F	33/4"	1.0

### OPERATION

When actuated by hot water, just enough cold water is allowed to enter the valve to produce the desired temperature.

If the hot water entering the valve is at, or below, the setting, no cold water can enter the valve.

The Taco Tempering Valve automatically adjusts itself to deliver the water temperature for which it is set. This is accomplished by an ingenious thermostatic element of a non-liquid material, hermetically sealed, which expands with changes in temperature. The special material used in this element successfully avoids the use of bellows, bimetals, or volatile liquids. It has been field-tested for over 30 years in more than a million installations. The element operates with a force powerful enough to crush most foreign substances entering the valve.



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