ISD Hardware Co., Ltd.

Feature of products equipment with the thermostatic valve

Ⅰ. *Presenting from being burned safety design*

1. When there's running out of the cold water, the hot water will be immediately stopped and the special safety device will be automatically activated and protecting the user from being burned by the hot water. It's particularly suitable for the old person and the children.

2. The additive internal automatic water temperature-balancing device will effectively prevent the sudden changing of the water temperature. It's your best choice for the safety sake.

3. The equipped red protection button is situated at the mark 38℃ of the thermometer.

Ⅱ. *Production with the precision technique*

4. The special material（TeflonR） coating processed appearance of the internal piston axis can effectively prevent the adhesives of the calcium and water spots；and avoid the happenings of the discontinuous actions and the jam phenomenon.

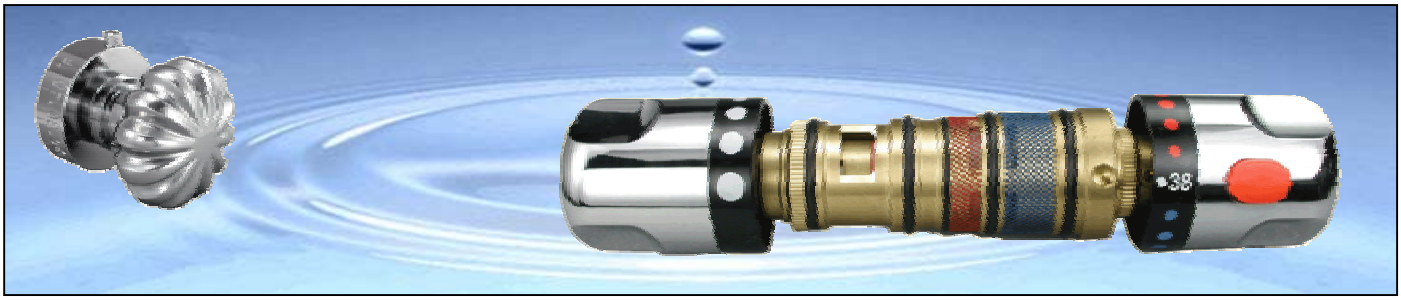
5. Every product equipped with the thermostatic valve is strictly tested by the precision computerized equipment. Therefore, the temperature can be precisely controlled between± 2℃.

Ⅲ. *Easy maintenance and wide availability*

6. The easy replaced cassette type internal thermostatic valve is equipped and protected by the dual-filter nets. It's convenient for any replacement and cleaning.

7. It's available for the electric water heater, the solar energy water heater and the gas water heater.

8. The temperature can be set at will. The controlling of the water temperature is stable, safe and comfortable.



ISD Hardware Co., Ltd.

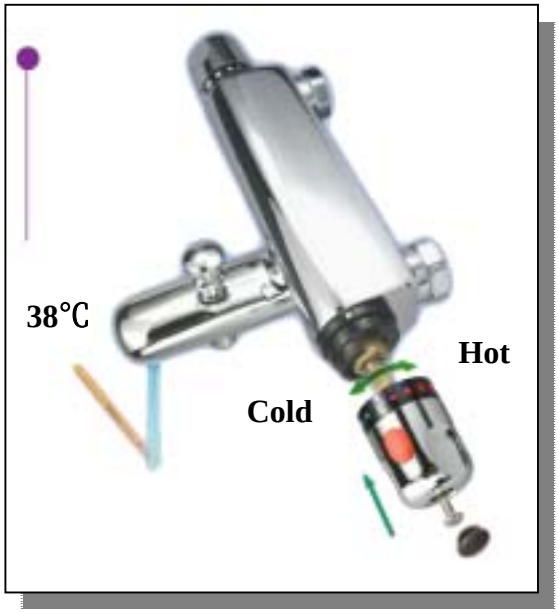
Diagram of Temperature Reset by Oneself

In the occasion of installation, there is a possibility of inconsistency in between graduation and actual water temperature at outlet caused by the differentia of water pressure and type of outlet fixture.

Please following the steps as below for regulation.

Setp Ⅰ-
We recommend that：Under the general operating circumstance, it's the most comfortable when it's operated under the ideal standardized water pressure 2-4.

Setp Ⅱ-
Carefully unload the screw and the handle with a screwdriver by turning to the left.



SetpⅢ-
Measure the temperature of the processed water with the thermometer. The water temperature to take 38℃-40℃ as the criterion.
⊙ Adjust the temperature by turning the adjustable bar to the right if overheats.
⊙ Adjust the temperature by turning the adjustable bar to the left if it was below the basic temperature.
Once the adjustment was done, tightly to screw the handle with the screw then to install the small cover.

ISD Hardware Co., Ltd.

Technical Data of Thermostatic Components

Our developed output thermostatic component has been confined to temperature at 38±1℃
with strictly inspection and test before consignment.

Following diagrams are given for assistance to consumers of appropriate and safe utilization of our thermostatic component products.

A.

Hydraulic pressure adjustment			
Min. Hydraulic Pressure	1 bar	Max. Hydraulic Pressure	5 bar
Recommended Hydraulic pressure	2 bar ~ 4 bar	Adequate Hydraulic Pressure for Natural Gas	2 bar ~ 4 bar
Remarks	In the event of low pressure under 1 bar an enhanced pressure pump is required; or to the contary, a reduced valve is vital if the pressure over 6 bar.		

B.

Temperature setting for the water heater	
Gas water heater	41℃ ± 2℃
Electric water heater	38℃ ± 2℃
Solar energy water heater	38℃ ± 2℃

C.

Inlet water temperature setting		
Hot Water	Highest temperature	70℃
	Recommended temperature	60℃ ~ 65℃
Cold Water	Lowest temperature	15℃
	Recommended temperature	20℃ ~ 25℃
Tolerance of Temperature		± 2℃
Attentions	Water temperature over 80℃ shall break down thermostat.	

D.

Obviation of Conceivable Breakdown	
1. There is no streamed water from either Hot or Cold outlet.	Please install anti-backflow valve. If the valve has been installed, please check if it is still functional.
2. Actual measured temperature of outflow shows differently from the given calibration on handle.	Please check if the position is correct of joint section for hot water supply and cold water supply.
3. Water supplied in unstable temperature	※ Please observe if the enhanced pump is installed separately in both water supply line or just installed solely in either pipeline. Either method of installation will cause imbalance of water pressure. ※ Principally to select the one that provides stablility of water supply pressure is the best choice, presently we recommend enhanced pump for the application.
4. Water flow of outlet became feeble	※ Please check if there is any choke up by limescale, fur or other obstructer inside of water pipe that cause piston of the component out of function. ※ Please verify if the water supply in sufficient pressure.
5. Please scrutinize water pressure and temperature if they are all coinciding with the figures and condition of the diagram given above to prevent any contingency.	
6. If you intend to adjust by yourself the thermostatic component for temperature regulation, please refer to attach illustration to progress accordingly. However, this application is feasible only under the circumstance of secure safety.	

Your Suggestions：