

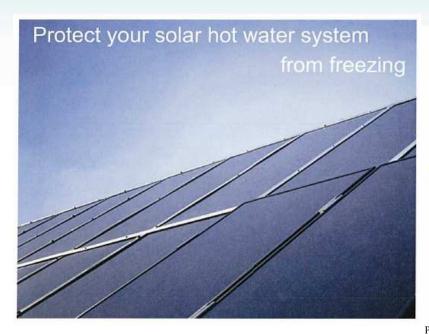
Solar Hot Water Freeze Protection Valve

Solar Collector and Exposed Piping Anti-Freeze Solution

Keep your solar collectors and exposed pipes from freezing with the Kodiak solar freeze protection valve.

This Kodiak product contains a thermal actuator that opens the valve when the temperature approaches freezing and re-closes it upon warm up. This is a continuous process of modulation; cold water is discharged an replaced by warmer water preventing panel and piping freeze up.

Our valve has a patented feature which prevents the seizing of the thermal actuator; a common problem among other freeze protection valves offered by our competition.





Part#: KC4500-00-00 (35F Discharge) Part#: KC4505-00-00 (35F Discharge) Part#: KC4500-01-00 (45F Discharge) Part#: KC4505-01-00 (45F Discharge)

Product Features

- Discharge Temperature set to 35F and 45F
- Internal Filter Screen
- UV Stabilized body material
- FDA and NSF listed materials
- 100 psi maximum operating pressure
- Complete mechanical operation

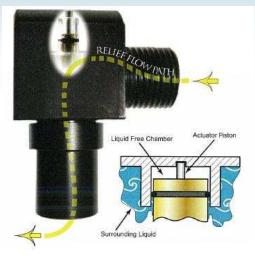
- Small size for easy install
- Tamper resistant design
- Corrosion resistant materials
- Non-electric function
- Screen protected anti-insect discharge port
- Anti seize feature ensuring longevity and durability

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Solar Hot Water Freeze Protection Valve

Introducing the world's first and only non-electric freeze protection valve designed specifically for solar hot water systems that will not seize over time due to corrosion.

A patented liquid tight piston chamber inside of the valve prevents any liquid from coming into contact with the piston responsible for opening and closing the valve eliminating a common problem among our competitors.



Easily installed on all Solar Hot Water Systems

- ♦ Discharge Temperature set to 35F and 45F
- ♦ Internal Filter Screen
- ♦ UV Stabilized body material
- ♦ FDA and NSF listed materials
- ♦ 100 psi maximum operating pressure
- ♦ Complete mechanical operation
- ♦ Small size for easy install
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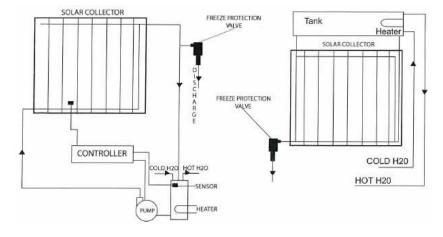
Easily installed on all Solar Hot Water Systems

Protect Your Investment, And Eliminate the Risk of Freeze Damage

Installation Instructions

Operating and Installation Criteria

- Proper location of valve on solar system is crucial; fluid must pass through the collectors and piping before flowing through the valve.
- The valve must be installed in a location where it is exposed to the coldest ambient temperature; avoid any external heat sources such as vents and pumps. External heat sources will give the valve a false ambient temperature causing malfunction, and potential system freeze.
- Proper function of the valve requires system pressure of 10-100psi
- The valve must be installed on exit side of the system to prevent freezing of the collectors.
- Do not insulate the valve, or any surrounding piping that has flowing liquid.
- When tightening threads do not exceed 50 in/lbs or torque, any rate higher may result in damage to the valve's threads and/or entire systems
- It is mandatory use thread sealing material on the valve threads prior to installation to prevent potential leaking.



Instruction:

- 1.Ensure the valve ports are free of debris before proceeding with installation
- 2. Apply thread sealing material to valve threads.
- 3. Depressurize solar system, to prevent any potential scalding during installation.
- 4. Thread valve into system taking caution not to cross thread the valve, as this will permanently damage the valve.
- 5. Make sure not to over torque the valve during installation; do not exceed 50 in/lbs.
- 6. Pressurize solar system, evacuate any air within the system if necessary



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Solar Hot Water Freeze

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