



SUBMITTAL : ECO-FPVKT-CL12

Freeze Protection Valve Kit



Job Name	Location
Purchaser	Engineer
Submitted to	Reference ☐ Approval ☐ Construction ☐
Unit Designation	Schedule #

ECO-FPVKT-CL12	
Performance	
Valve Fully Open Temperature	34°F (1°C)
Valve Medium Open Temp	37°F (3°C)
Valve Fully Closed Temperature	39°F (4°C)
Valve CV	0.57
Nom Flow @ 45Psi Pressure	0.13 GPH
Valve open, 23°F Ambient	
Nom Flow @ 45Psi Pressure	0.26 GPH
Valve open, -4°F Ambient	
Working Water Temperature	32 to 190°F (0 to 88°C)
Working ambient Temperature	-22 to 140°F (-30 to 60°C)
Physical Data	
Barrel material	Brass
Threaded Connection	1/2" MNPT
Location	Outdoor or Indoor
Weight per CL12 Valve	3/4lb = 12oz

Construction

Valves shall be constructed from a Brass body with a combination of Brass and Stainless Steel internal components (Springs)
Valve shall be suitable for Exterior or Indoor Installation

Sensing

A fast actuating thermal element shall be used in each valve.
When the water temperature in the 1/2" Cold or Hot water piping to the GS5 Heat Pump falls below 37°F the valve opens to prevent the water from freezing.
As the water temperature increases the valve will begin to close until it is fully closed when the water temperature is 39°F

Installation

Supplied kit shall consist of 2 Valves, one valve will be installed on the 1/2" Cold Water Inlet piping & one valve on the 1/2" Hot Water Supply piping to and from the GS5 Heat Pump and the Storage Tank or Piping Manifold

CL12 Freeze Protection Valve has 2 male 1/2" MNPT piping connections

The CL12 valves should be installed so that they are both in a vertical down position to the piping or because the space between the piping may not allow the vertical installation of the CL12, each CL12 valve shall be angled out up to a maximum diagonal angle of 45° to the Cold and the Hot Water piping to the GS5 Heat Pump

Care shall be taken to ensure drained water from the CL12 Freeze Protection valve shall not cause a slip/fall hazard

Application

Valve kit shall be utilized to provide power outage freeze protection for the GS5 Heat Pump unit(s) installed at the home or building



ECO2 Systems LLC, PO Box 1358, Walled Lake MI 48390, Tel : 1-844 726 3262

www.eco2waterheater.com

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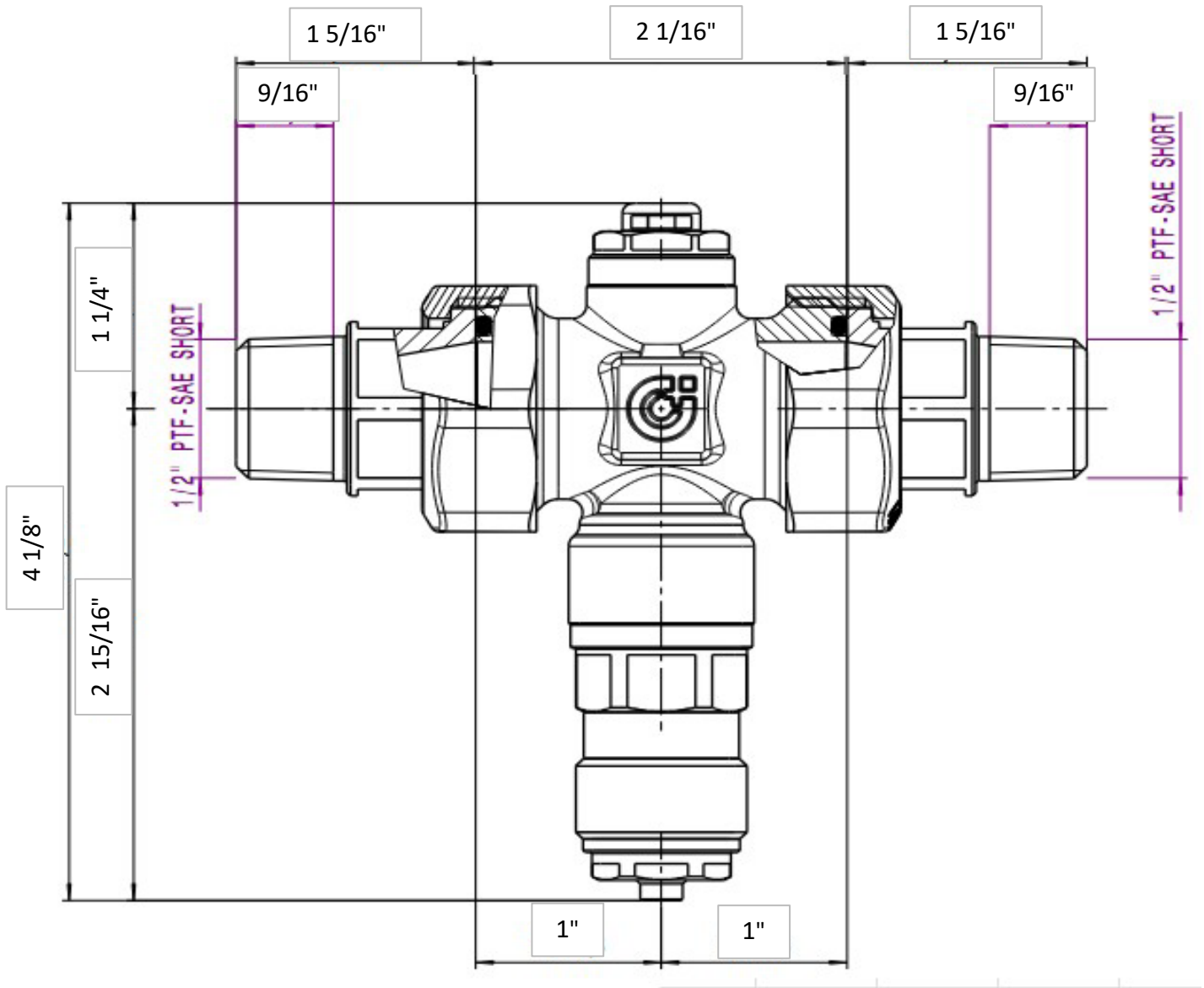


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ECO-FPVKT-CL12 Valve Dimensions



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