



Cryo Vents & Heaters

A cryo vent (also called a keepfull or vapor vent) keeps liquid flowing in a vacuum-jacketed pipe system by allowing the boil-off of gases to escape, but not the liquid. Vapor vent heaters warm the exhaust gas to eliminate condensation and ice build-up on piping and fixtures.



K2041 & K2042 Cryogenic Vapor Vents



*K2041 Cryo Vent
Male Pipe Connection*



*K2042 Cryo Vent
Male Bayonet Connection*

Cryocomp offers the vacuum insulated cryo vent in two versions, the K2041 with a 1/2" pipe inlet and the K2042 with a 1/2" tube-style bayonet inlet. The pipe inlet design can be installed in any liquid nitrogen system and the bayonet design can be designed into a vacuum insulated piping system for a more efficient interface. The Cryocomp cryo vent is a fully mechanical system requiring no electrical or pressure assistance.

H1300 & H1500 Vapor Vent Heaters

The model H1300 and model H1500 vent heaters install on any liquid nitrogen keepfull device to stop ice formation and prevent condensate on floor and ceiling tiles. There is no need for insulation or vent piping in a large room discharge area. The heaters are electrical devices that increase the temperature of the cryogen and expels it as vapor. The gas/liquid mixture enters the vent heater assembly where, through use of an internal heater, it is vaporized and vented to outside safe area. Both the model H1300 (375 watt) and H1500 (500 watt) vapor vent heaters are available in 110 VAC or 220 VAC configurations. Cryocomp strongly recommends that all heaters have the available "System Heater Guard" protective mesh enclosure installed to prevent injury.

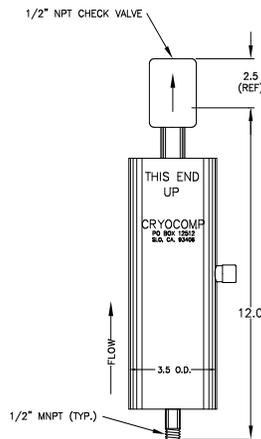


Vapor Vent Heater & Heater Guard

Technical Data

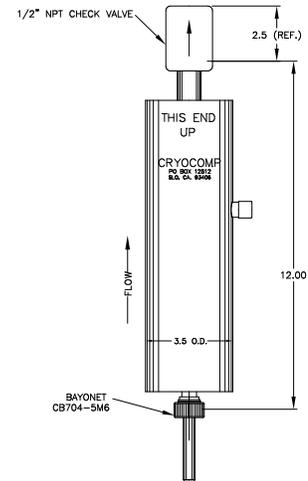
Cryo Vents (Vapor Vents)

- 150 PSIG MAWP, 225 PSIG Proof Pressure.
- Use In Liquid Nitrogen Service Only.
- Capacity: Approx. 1000 BTU/hr.
- Cryo Vent Should Be Located At The High Point Of The Piping System.
- Install In Vertical Position Only.
- Check Valve on Top.
- Mechanical Float-Valve, No Electrical or Pneumatic Source Required.
- Model K2041: 1/2" NPT Connection Fitting.
- Model K2042: 1/2" x 6" CBT Bayonet Fitting.



K2041

Vacuum Insulated
Liquid Level Keepfull w/ 1/2" Male
Pipe Connection



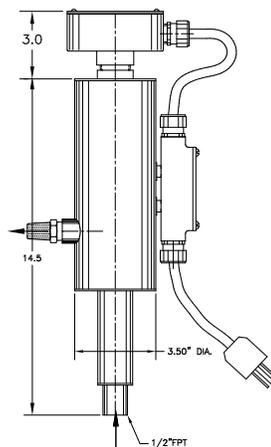
K2042

Vacuum Insulated
Liquid Level Keepfull w/ 1/2" Male
Bayonet Connection Mating

Vapor Vent Heaters

- 375 or 500 Watts Models.
- 110 VAC or 220 VAC Options.
- 1/2" FPT Inlet and Outlet.
- Over Temp Switch Included.
- Line Cord Provided.

To Avoid Injury: Cryocomp strongly recommends the H-100-HS Heater Guard be purchased and installed with a Vapor Vent Heater.



H1300

375-Watts Vapor Vent Heater / 110 VAC

H1300-220

375-Watts Vapor Vent Heater / 220 VAC

H1500

500-Watts Vapor Vent Heater / 110 VAC

H1500-220

500-Watts Vapor Vent Heater / 220 VAC

Installation Notes

The purpose of a cryo vent (also called keepfull and vapor vent and a host of other names) is to vent vapor and keep liquid close to the point of use/outlet. Cryo Vents discharge boil-off gas and maintain liquid at some place in the system usually far away from the liquid supply. These devices must be vertical, above the pipe section and should be installed at a high point where gas would gather in the system.

