

551 SERIES CRYOGENIC VAPOR VENT



CONCOA's 551 Series Cryogenic Vapor Vents (also called keep-fulls) keep the liquid flowing in a vacuum-insulated pipe system by allowing the boil-off gases to vent while maintaining the liquid. Installing a cryogenic vapor vent provides the most reliable way of keeping liquid nitrogen "on demand" close to the point of use. Cryogenic Vapor Vents are available with an attached electrical heater to stop ice formation and prevent condensation on the floor and ceiling. The heater increases the temperature of the cryogen and expels it as vapor. This configuration eliminates the necessity for insulation or vent piping in a large discharge area. When ordering the Cryogenic Vapor Vent with heater configuration (5512104), CONCOA strongly recommends ordering the system heater guard protective enclosure.



551 2104 shown

Typical Applications

- Vacuum Insulated Piping Systems and Containers
- Liquid Nitrogen Systems
- Vacuum-jacketed Piping Systems

Features

Mechanical Float Valve requires no electrical or pneumatic assistance

Vacuum-insulated Float Assembly prevents frost and ice build-up

Check Valve in Outlet Connection provides unobstructed flow in one direction to protect piping system

Optional 1/2 in Tube-style Bayonet or Pipe Inlet Design permits use with a wide range of setups, whether existing or new installations.

Vapor Vent with Heater eliminates condensation and ice build-up on piping and fixtures

Internal Thermostat on Heater limits temperature and prevents thermal runaway

Optional System Heater Guard Accessory minimizes accidental contact with hot heater element (for use with 5512104)

Materials and Specifications

Exterior Casing: 304 Stainless steel

Capacity: 1000 BTU/hr

Max Working Pressure: 150 PSIG (10 BAR)

Max Proof Pressure: 250 PSIG (15 BAR)

Outlet Connection: 1/2 in FNPT

Helium Leak Integrity: 1×10^{-8} scc/sec

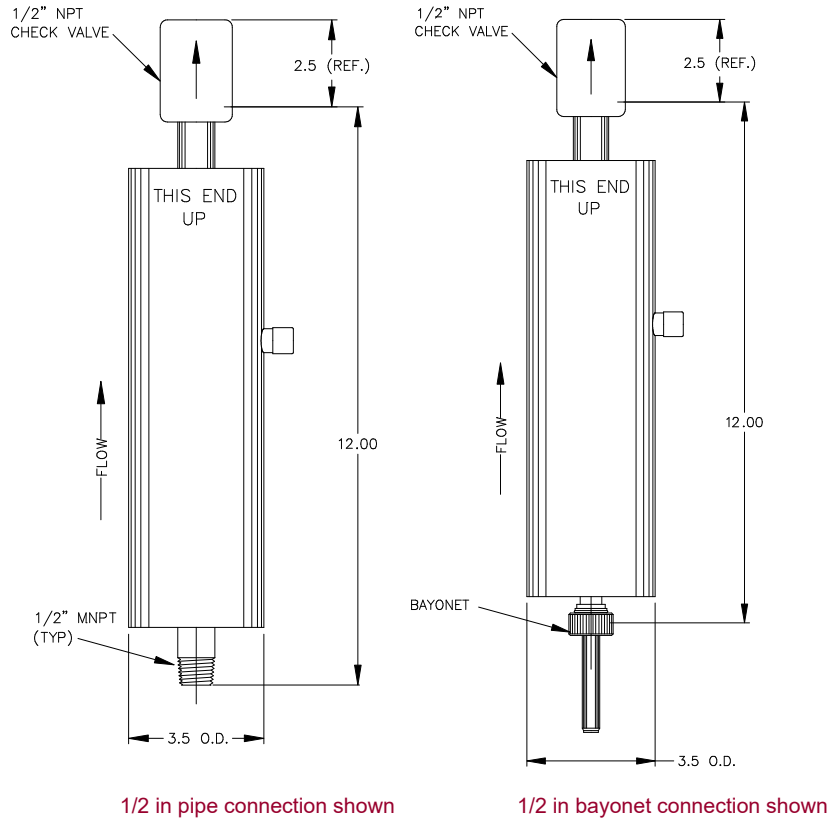
Electric Heater (5512104): 375-watt

Power Requirements (5512104): 120 VAC (50 – 60 Hz)

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Installation Dimensions



Ordering Information

Part No.	Description
5512100-01-1	Vacuum insulated cryogenic vapor vent with 1/2" MNPT pipe connection
5512101-01-1	Vacuum insulated cryogenic vapor vent with 1/2" MNPT tube-style bayonet connection
5512104-01-1	Vacuum insulated cryogenic vapor vent with 375-watt heater, 110v power cord, and 1/2" MNPT pipe connection
5512105-01-1	Heater guard accessory for cryogenic vapor vent with heater (5512104)