

551 SERIES CRYOGENIC VAPOR VENT



CONCOA 551 Series Cryogenic Vapor Vents (also called keep-fulls) automatically release boil-off gas from liquid cylinders, ensuring safe, consistent LN₂ and cryogenic gas delivery in lab and industrial systems. 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 a tube style bayonet inlet connection or a pipe inlet connection with or without an attached electrical heater. The heater increases the temperature of the cryogen and expels it as vapor, preventing ice formation and condensation. 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.

Typical Applications

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



551 2104-01-1 shown

Heater and heater guard shown

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

Optional 1/2 in Tube-style Bayonet or Pipe Inlet Design permits use with a wide range of 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

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

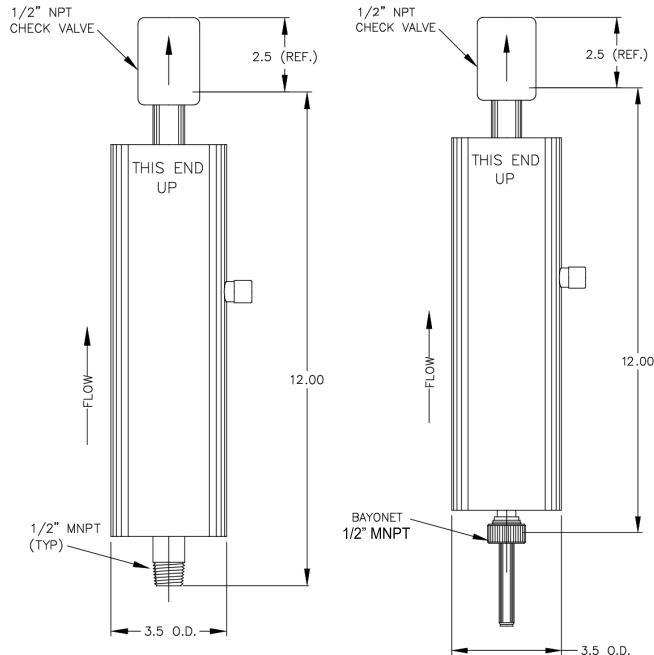
Electric Heater (5512104): 375-watt

Power Cord (5512104): 110 VAC

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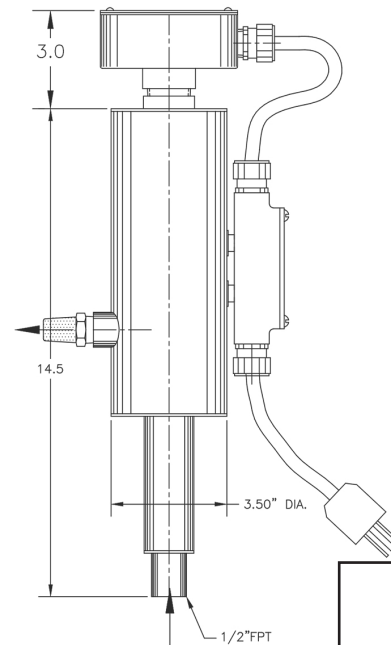


Installation Dimensions

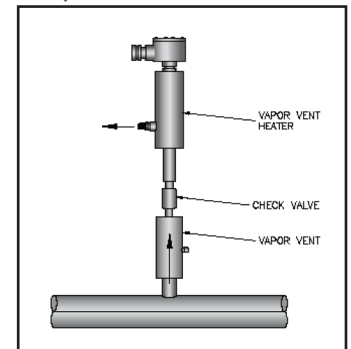


1/2" MNPT pipe connection

1/2" in tube style bayonet connection



vapor vent with 375-watt heater



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 features 1/2" MNPT pipe connection, 375-watt heater, and 110v power cord
5512105-01-1	Heater guard accessory for cryogenic vapor vent with heater (5512104)