

# 551 SERIES

## Cryogenic Vapor Vents

CONCOA's 551 Series Cryogenic Vapor Vents (also called Keepfull devices) 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 maintaining "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 condensate on the floor and ceiling. The heater increases the temperature of the cryogen and expels it as vapor. This eliminates the need for insulation or vent piping in a large discharge area. CONCOA recommends the System Heater Guard be used in conjunction with the Cryogenic Vapor Vent with Heater configuration.

### Typical Applications

Maintain liquid level in vacuum insulated piping systems and containers

Pipe inlet allows easy addition to any liquid nitrogen system

Gas venting device and pre-cooling device in vacuum-jacketed piping systems



5512100-01-1 shown

### Features

**Liquid Nitrogen Keepfull**

Use with Nitrogen service only

**Capacity**

1000 BTU/hr.

**Mechanical Float-Valve**

No electrical or pneumatic source required

**Install in Vertical Position Only**

Brass check valve on top

**Optional 1/2-inch MNPT Bayonet Inlet**

Facilitates system expansion

**SV9 Pump Out Port**

3 to 9 PSIG Relief Pressure

**Vapor Vent Heater (5512104)**

Includes over temperature limit switch

### Materials

**Exterior Casing**

304 stainless steel

**Internal Wetted Materials**

304 stainless steel

**Check valve**

Brass

**Fully Insulated**

Vacuum barriers

### Specifications

**Maximum Working Pressure**

150 PSIG (10 BAR)

**Maximum Proof Pressure**

225 PSIG (15 BAR)

**Inlet Connection**

1/2" MNPT or  
1/2" MNPT bayonet

**Outlet Connection**

1/2" FNPT

**Helium Leak Integrity**

$1 \times 10^{-8}$  scc/sec

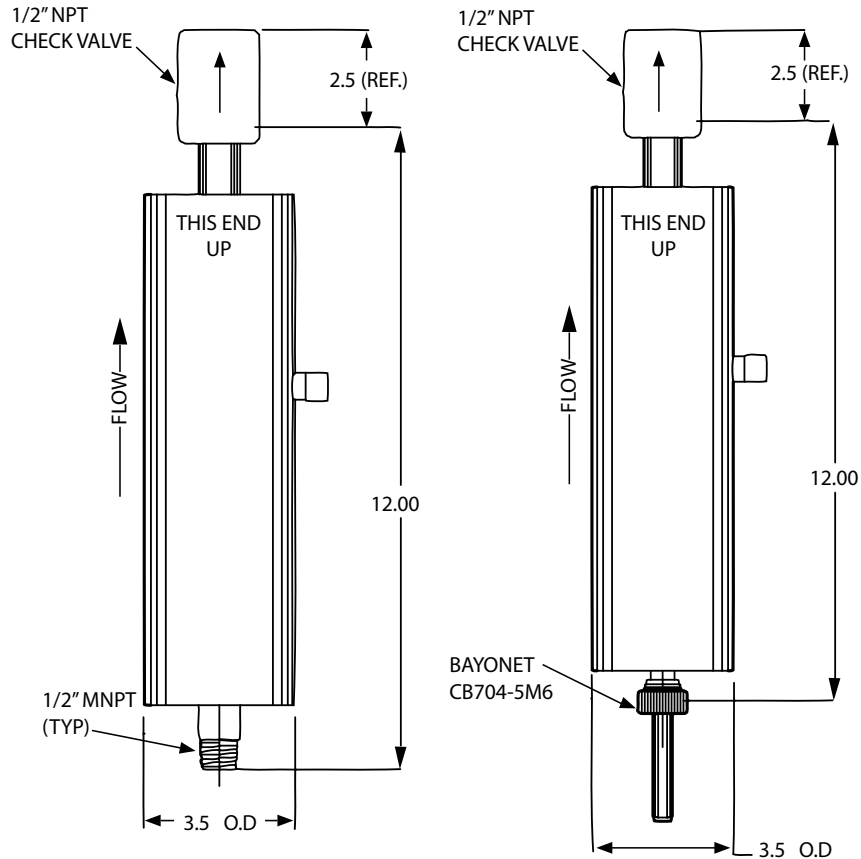
**Electric Heater (5512104)**

375-Watt

**Power Requirements (5512104)**

120 VAC (50 – 60 Hz)

## Installation Information



DISTRIBUTION SYSTEMS

## Ordering Information

Order No.	Description
5512100-01-1	Vacuum insulated cryogenic vapor vent, 1/2" MNPT inlet connection
5512101-01-1	Vacuum insulated cryogenic vapor vent, 1/2" MNPT bayonet connection
5512104-01-1	Vacuum insulated cryogenic vapor vent with 375-watt heater and 110v power cord, 1/2" MNPT inlet connection
5512105-01-1	System heater guard for cryogenic vapor vent with heater (5512104)