

All Cryovents come with CSM renowned customer service, from conceptual design to implementation, and are backed by a one year warranty

CryoVent

Electronic

The Electronic Cryovent is a high-capacity keepful device designed to remove excess vapor from cryogenic piping systems when the liquid stops flowing, ensuring that your cryogenic system is always filled with liquid. It is modular and pre-engineered for easy installation and flexible arrangement in any piping system.

Cryovent

The Electronic Cryovent is installed to enhance the liquid delivery performance of a piping system. Under normal operational circumstances, the liquid in the system is constantly vaporizing into gaseous nitrogen due to a constant heat leak. If the accumulated gas in the pipeline is not removed, it will block the liquid flow to the use points. The Electronic Cryovent plays an important role in removing the gas from the pipeline by automatically venting it to the atmosphere.

The Electronic Cryovent uses an electronic (Liquid Level) control principle. It allows only gas/vapor to vent while retaining the liquid medium in the pipeline. This ensures that quality liquid is readily available at all times in the pipeline, improving the liquid delivery efficiency. The Electronic Cryovent is maintenance-free and requires no field adjustments.

Typical Applications

- This device functions as both a gas venting and pre-cooling device in a vacuum-jacketed piping system
- It is suitable for use with inert gases such as liquid nitrogen and argon. Optional CFOS cleaning is available for oxygen service

Features and Benefits

- The cryovent is available with either bayonet or pipe threaded termination
- It uses a bayonet connection to facilitate future expansion of the piping system
- The cryovent ensures consistent and efficient liquid supply from bulk storage to the end application
- It maintains the liquid level in the piping system at all times

Related Products:

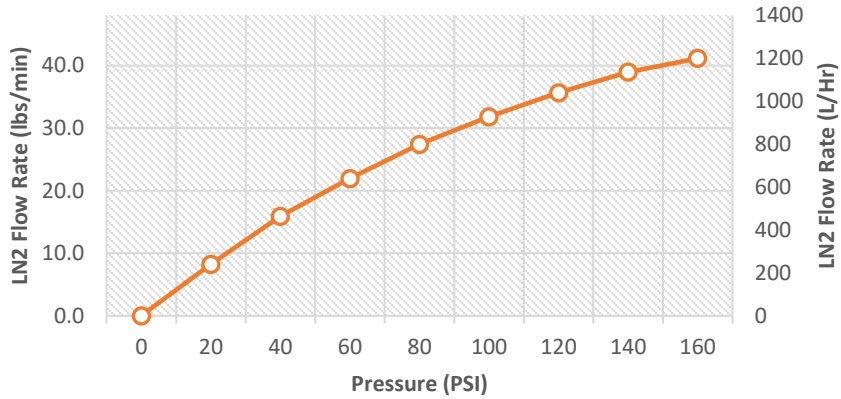


Vent Heater

Electronic Cryovent Specifications

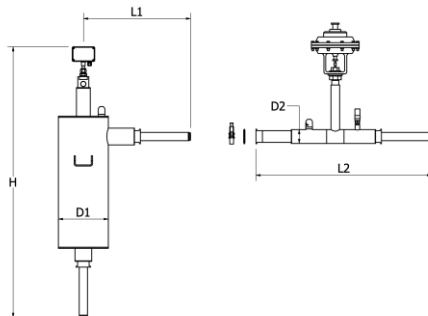
Cryovent Model	CV10E
Capacity	2.7 gal (10L)
Control Principle	Electronic/Liquid Level
Venting Capacity	150 Nm ³ /hr (Theoretical Max)
Orifice Size	Variable Orifice
Insulation	Static vacuum with Multi-Layer Insulation; or Dynamic vacuum
Cleanliness Level	Cleaned oil and grease-free Oxygen clean on request
Maximum Operating Pressure MAWP	200 psig (13.8 bar)
Material Construction	Stainless Steel Series 300
Standard Testing	Dimensional Check He leak checked 1 x 10 ⁻⁹ cc/s
Optional	Pneumatic pressure test, Vacuum retention testing, LN2 cold shock, pre-material certs., X-ray, ASME B31.3 certification, CFOS cleaning for O2 services

CV10E Flow Rate



Dimensions

Model	H	L1	L2	D1	D2
CV10E-B-C10M	46.6" (1183mm)	18.4" (469mm)	30.3" (770mm)	8.6" (219mm)	2.3" (60mm)



Electronic Cryovent