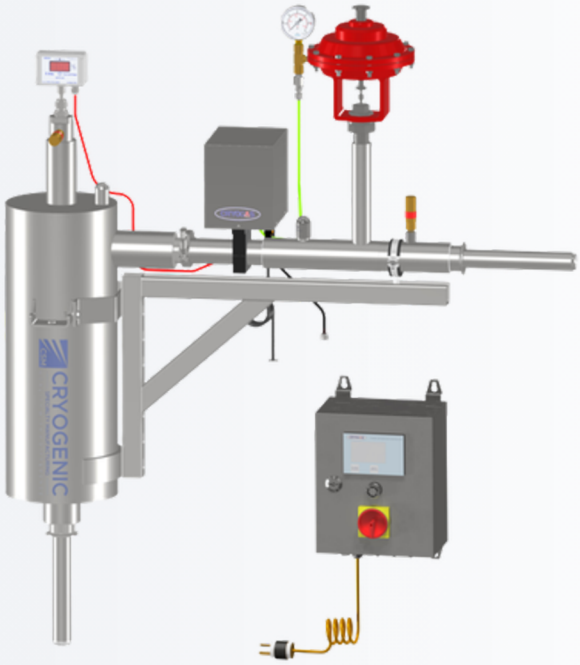


CryoVent

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 or 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.

All CryoVent comes with CSM renowned customer service, from conceptual design to implementation, and are backed by a 5-years Vacuum Warranty, and 1-year Defect Warranty.

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

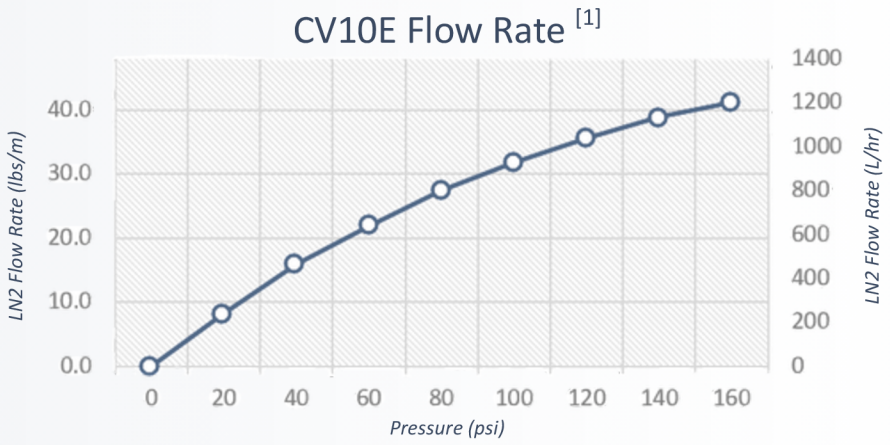
- The CryoVent is available with either bayonet or pipe threaded termination
- It uses a bayonet connection to facilitate future expansion of the piping system
- The CryoVent ensures consistent and efficient liquid supply from bulk storage to the end application
- It maintains the liquid level in the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

Related Products:

Vent Heater

Electronic CryoVent Specifications

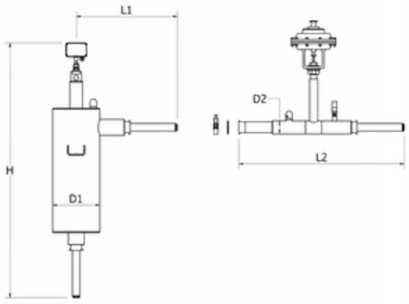
Model	CV10E
Vessel Capacity	2.7 gal (10 L)
Control Principle	Electronic / Liquid Level
Max. Venting Capacity	150 Nm^3/hr
Orifice Size	Variable Orifice
Insulation	Static / Dynamic Vacuum
Cleanliness Level	Cleaned, oil and grease-free
Maximum Operating Pressure	200 psi (13.8 bar)
Material Construction	Stainless Steel Series 300
Standard Testing	Dimensional Check He Leak Checked @ 1 x 10^{-9} cc/s
Optional	Pneumatic Pressure Test, Vacuum Retention Testing, LN_2 Cold Shock, Pre-Material Certs., X-ray Inspection, ASME B31.3 Certification, CFOS Cleaning for O_2 Services



[1] Depending on liquid supply quality or liquid storage saturated pressure, i.e. gas & liquid mixture ratio. Larger saturation results in lesser liquid flow output

Electronic CryoVent Dimensions

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



All dimensions provided are for indication purposes only and may not accurately represent the actual product dimensions. Please contact us for updated and actual measurements.

CRYOGENIC SPECIALTY MANUFACTURING
Email: info@csm-cryogenic.com