

VSCO₂

VERTICAL BULK STATIONS

Our VS-CO₂ Series of Bulk Carbon Dioxide Storage Tanks continues our pioneering of user-friendly engineered products. This design series offers strength and durability in an all-welded outer container, while maintaining lower life-cycle costs. Utilizing our composite insulation system along with superior vacuum technology, we are able to offer:

- An ultra-low heat leak, eliminating the need for a costly refrigeration system in most applications.
- No costly down time to refurbish water-soaked or deteriorated foam insulation.

Every VS-CO₂ pressure vessel is manufactured, tested and stamped in accordance with the latest edition of the ASME Boiler and Pressure Vessel Code, Section VIII, Division I, using SA612 normalized steel. Our VS-CO₂ Bulk Stations are equipped with an internal cleaning system operated externally, eliminating the need for costly manways.

PRODUCT HIGHLIGHTS

- Stainless-steel piping for greater strength and durability
- Stainless steel ball valves standard on all fill and process lines
- Minimum number of piping joints, reducing potential piping leaks and maintenance costs
- CGA fill and return fittings with drain valves standard on all models
- Optimum piping design results in flexible equipment connection
- Dual regulator system standard, eliminating any safety concerns
- Pressure Building and Vaporizer options available, inquire with Chart for more details
- Interchangeable gauge systems with a choice of analog or digital telemetry capable systems are available with flexible stainless-steel interconnecting lines
- Refrigeration systems including internal coil available as options

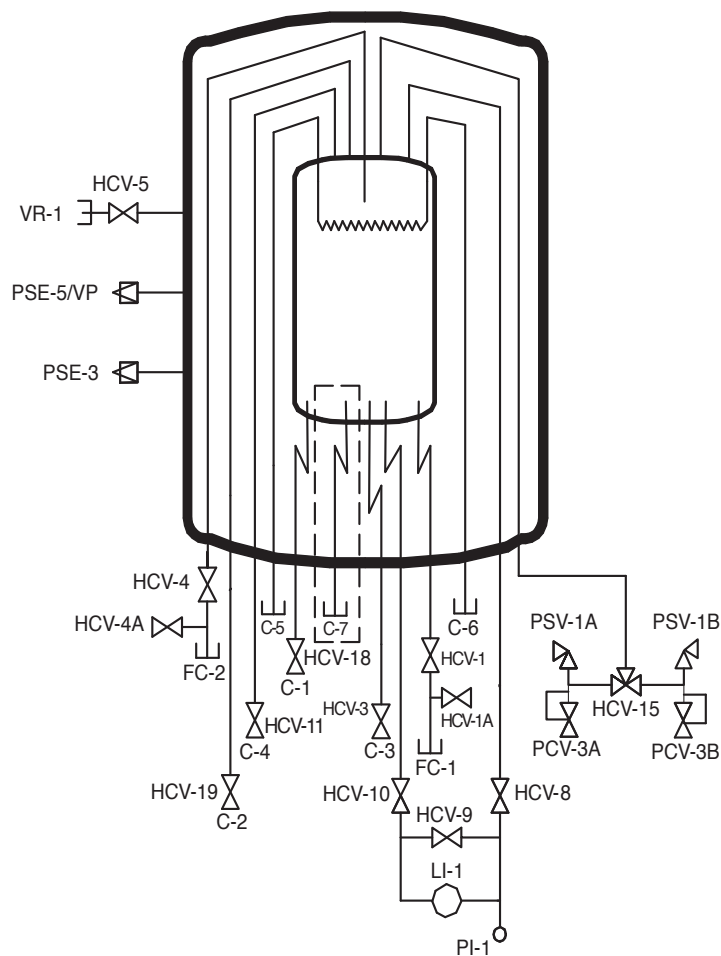


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Model	Gross Capacity		Net Capacity		MAWP*	Height	Diameter		NER %/day in CO ₂				
	Ton	(Tonne)	Ton	(Tonne)			PSIG	(bar)		in	(mm)		
6 Ton	6.8	(6.2)	6.4	(5.8)	350	(24.1)	188	(4,775)	68	(1,728)	9,400	(4,270)	.15
14 Ton	13.2	(12.0)	12.6	(11.4)	350	(24.1)	228	(5,791)	86	(2,184)	17,400	(7,900)	.08
30 Ton	31.1	(28.2)	29.6	(26.9)	350	(24.1)	287	(7,290)	114	(2,900)	39,600	(17,970)	.05
50 Ton	48.1	(43.6)	45.8	(41.5)	350	(24.1)	406	(10,312)	114	(2,900)	56,900	(25,810)	.04

* MAWP – Maximum Allowable Working Pressure ** Tare Weight



Nomenclature

C-1	Connection, Auxiliary Liquid
C-2	Connection, Auxiliary Vapor
C-3	Connection, PB Liquid
C-4	Connection, PB Vapor
FC-1	Connection, Fill
FC-2	Connection, Vapor Return/Full Trycock
HCV-1	Valve, Bottom Fill
HCV-1A	Valve, Drain
HCV-3	Valve, PB Liquid
HCV-4	Valve, Vapor Return/Full Trycock
HCV-4A	Valve, Drain
HCV-5	Valve, Vacuum Gauge Tube
HCV-8	Valve, LI-1 Vapor Phase
HCV-9	Valve, LI-1 Equalization
HCV-10	Valve, LI-1 Liquid Phase
HCV-11	Valve, PB Vapor
HCV-15	Valve, Safety Relief Selector
HCV-18	Valve, Auxiliary Liquid
HCV-19	Valve, Auxiliary Vapor
LI-1	Level Indicator, Inner Vessel
PI-1	Pressure Indicator, Inner Vessel
PCV-3A	Pressure Control Valve, Econ Vent
PCV-3B	Pressure Control Valve, Econ Vent
PSE-3	Pressure Safety Element, Outer Vessel
PSE-5/VP	Pressure Safety Element, Otr Ves., Vac Port
PSV-1A	Pressure Safety Valve, Inner Vessel
PSV-1B	Pressure Safety Valve, Inner Vessel
VR-1	Vacuum Readout, Outer Vessel

<i>Refrigeration Option</i>	
C-5	Connection, Auxiliary Refrigeration
C-6	Connection, Auxiliary Refrigeration
<i>Dashed Line Represents Additional Line (Standard on 30/50 Ton Only)</i>	
C-7	Connection, Secondary Auxiliary Liquid