VS HIGH PRESSURE BULK STATIONS

The VS High Pressure Bulk Stations are engineered for superior performance, durability and value for liquid nitrogen, oxygen or argon service. These High Pressure Tanks are all designed to ASME code and utilize many of our standard VS Series features.

Advanced insulation technology provides longer holding times, and the continuing development of insulation systems has resulted in unsurpassed performance. Our composite insulation is a lightweight system offering superior performance compared to Perlite or Super-Insulation and is easier to maintain, offering longer product hold times.

The standard 400 psig (27.6 bar) tank is available in 900 - 15,000 gallon (3,407 - 56,781 liters) models, and the standard 500 psig (34.5 bar) tank is available in 900 - 6,000 gallon (3,407 - 22,712 liter) models. Other sizes of both models are available upon request.

Each tank comes with fully functional, mounted pressure-building systems. Remote pressurebuilding systems with higher withdrawal rates are available upon request.

PRODUCT HIGHLIGHTS

- All welded stainless steel piping modules
- Heavy duty bronze valves with extended bonnets
- Valve bonnet uniformity to reduce spare parts inventory
- Highest grade components for low to zero maintenance
- Separate pressure building and economizer regulators are standard on all 400 and 500 psig (27.6 and 34.5 bar) units
- High performance safety system with dual relief valves and rupture disks supplied as a standard
- Interchangeable gauge systems with a choice of analog or digital telemetry capable systems are available with flexible stainless steel interconnecting lines



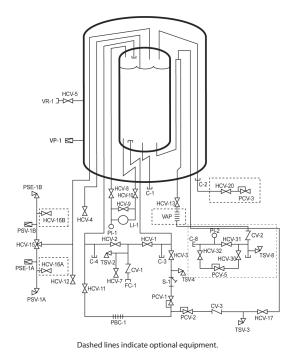


Innovation. Experience. Performance.

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Model	VS 900NC	VS 1500NC	VS 3000NC	VS 6000NC	VS 9000NC	VS 11000NC	VS 13000NC	VS 15000NC
Gross Capacity (gal / liters)	929/3517	1585/5999	3158/11954	6075/22997	9447/35767	11480/43457	13513/51152	15545/58844
Nominal Capacity (gal / liters)	845/3197	1509/5714	3037/11495	5841/22112	9084/34387	11145/42188	13119/49661	15093/57133
Working Pressure (psig / bar)	400 / 27.6 500 / 34.5	400 / 27.6	400 / 27.6	400 / 27.6	400 / 27.6			
Diameter (in / mm)	66/1676	66/1676	86/2184	86/2184	114/2896	114/2896	114/2896	114/2896
Height (in / mm)	134/3404	188/4776	228/5791	382/9703	347/8814	406/10312	465/11811	525/13335
Weight (lbs / kg)	6000/2720 6700/3040	8400/3810 9500/4310	16400/7439 18300/8301	29700/13472 33000/14969	44800/20330	53700/24360	62700/28450	72200/32660
Flow Capacity (SCFH / Nm³ per hr)	5200/137 3100/82	5900/155 3600/97	6400/168 3800/100	7900/208 4700/124	7500/197	8100/213	8600/226	14400/378
*NER (%/day in O ₂)	.45	.33	.25	.15	.10	.10	.10	.10

* NER = Nominal Evaporation Rate



Nomenclature					
C-1	Connection, Aux Liquid	HCV-32	Valve, Outlet Houseline		
C-2	Connection, Aux Vapor	LI-1	Level Indicator, Inner Vessel		
C-3	Connection, Secondary Aux Liq	PBC-1	Pressure Building Coil,		
C-4	Connection, Secondary		Inner Vessel		
	Aux Vapor	PCV-1	Pressure Control Valve,		
C-8	Connection, Customer Houseline		Inner Vessel		
CV-1	Check Valve, Fill	PCV-2	Pressure Control Valve,		
CV-2	Check Valve, Houseline		Economizer		
CV-3	Check Valve, Economizer	PCV-3	Pressure Control Valve,		
FC-1	Connection Fill		Econo Vent		
HCV-1	Valve, Bottom Fill	PCV-5	Pressure Control Valve,		
HCV-2	Valve, Top Fill		Houseline		
HCV-3	Valve, PB Inlet	PI-1	Pressure Indicator, Inner Vessel		
HCV-4	Valve, Full Trycock	PI-2	Pressure Indicator, Houseline		
HCV-5	Valve, Vacuum Gauge Tube	PSE-1A	Pressure Safety Element,		
HCV-7	Valve, Fill Line Drain		Inner Vessel		
HCV-8	Valve, LI-1 Vapor Phase	PSE-1B	Pressure Safety Element,		
HCV-9	Valve, LI-1 Equalization		Inner Vessel		
HCV-10	Valve, LI-1 Liquid Phase	PSE-3	Pressure Safety Element,		
HCV-11	Valve, PB Outlet		Outer Vessel		
HCV-12	Valve, Vapor Vent	PSV-1A	Pressure Safety Valve,		
HCV-13	Valve, Vaporizer Inlet		Inner Vessel		
HCV-15	Valve, Safety Relief Selector	PSV-1B	Pressure Safety Valve,		
HCV-16A	Valve, Test		Inner Vessel		
HCV-16B	Valve, Test	TSV-2	Thermal Safety Valve, Fill		
HCV-17	Valve, Economizer	TSV-3	Thermal Safety Valve, PB Circuit		
HCV-20	Valve, Economizer Vent	TSV-8	Thermal Safety Valve,		
HCV-30	Valve, Inlet Houseline		Houseline		
HCV-31	Valve, Bypass Houseline	VAP	Vaporizer Product Withdrawal		
VP-1	Vacuum Port	VR-1	Vacuum Readout, Outer Vessel		

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