VS HIGH PRESSURE

HIGH PRESSURE BULK STATIONS

Chart's VS High Pressure Bulk Stations are engineered for superior performance in high pressure applications. To support these demands, the VS High Pressure Bulk Station comes standard with a larger pressure-building regulator and coil. For more demanding applications with higher withdrawal rates, a remote pressure-building system is available.

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 (3,218 - 57,008 liters) models, and the standard 500 psig (34.5 bar) tank is available in 900 - 6,000 gallon (3,218 - 21,842 liter) models. Other sizes of both models 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

CHART

Innovation. Experience. Performance.

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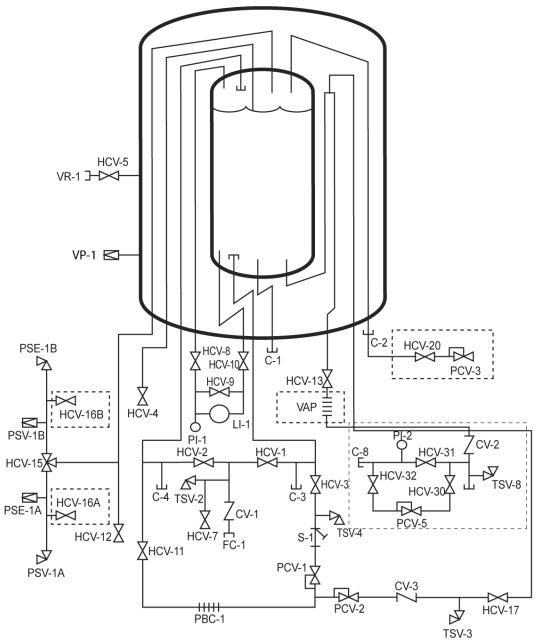
Model	Gross Capacity Gal	Gross Capacity Liters	Nominal Capacity Gal	Nominal Capacity Liters	MAWP* psig	MAWP* bar	Diameter in	Diameter mm	Height in	Height mm	Weight** lbs	Weight** Kg	Flow Capacity*** SCFH	Flow Capacity*** Nm^3/hr	NER %/day in O_2
VS 900SC	940	3,558	850	3,218	400 500	27.6 34.5	66	1,676	136	3,454	5,100 5,800	2,313 2,631	5,200 3,100	137 82	.45
VS 1500SC	1,640	6,208	1,580	5,981	400 500	27.6 34.5	66	1,676	196	4,978	7,600 8,700	3,447 3,946	5,900 3,600	155 97	.35
VS 3000SC	3,150	11,924	3,030	11,470	400 500	27.6 34.5	86	2,184	228	5,791	15,100 15,100	6,849 6,849	6,400 3,800	168 100	.25
VS 6000SC	6,010	22,750	5,770	21,842	400 500	27.6 34.5	86	2,184	383	9,728	27,000 27,100	12,247 12,292	7,900 4,700	208 124	.15
VS 9000SC	9,360	35,431	8,990	34,031	400	27.6	114	2,896	348	8,840	38,900	17,645	7,500	197	.10
VS 11000SC	11,410	43,192	10,960	41,488	400	27.6	114	2,896	407	10,338	46,700	21,183	8,100	213	.10
VS 13000SC	13,470	50,989	13,060	49,437	400	27.6	114	2,896	466	11,837	55,100	24,993	8,600	226	.10
VS 15000SC	15,520	58,750	15,060	57,008	400	27.6	114	2,896	525	13,335	63,400	28,758	14,400	378	.10

* MAWP - Maximum Allowable Working Pressure. ** Weights are for ASME design. *** Flow capacity rating down to a 20% contents level with a maximum fall of in tank operating pressure of 15 psi (1 bar). (NER) = Nominal Evaporation Rate



Dashed lines indicate optional equipment.

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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