

PVSC02 Series

Purifica Vertical CO₂/N₂O Storage Tank Series

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We designed state-of-the-art liquid Cryogenic storage tanks with cutting-edge technology and premium quality materials according to EN 13458. Other international standards and codes are available upon request. **ASME, AS1210, EAC, CODAP etc.**

Tanks are cleaned in accordance with food service.

Moreover, the legs used in the PVSC02 Series are calculated to resist high **wind, snow loads and earthquakes** according to international codes and standards.

PVSC02 series are available in capacity between 3,000-80,000 litres with pressures of 22 bar.

Purifica Vertical Cryogenic Carbon-dioxide Storage Tank series, are specially designed to provide a safe, reliable, and efficient storage solution for liquid gases such as especially **carbon dioxide and nitrous oxide**.

The tank series is made of high-quality steel such as stainless steel to ensure durability and resistance to very low temperatures.

Upon request, a carbon steel inner vessel is available optionally.

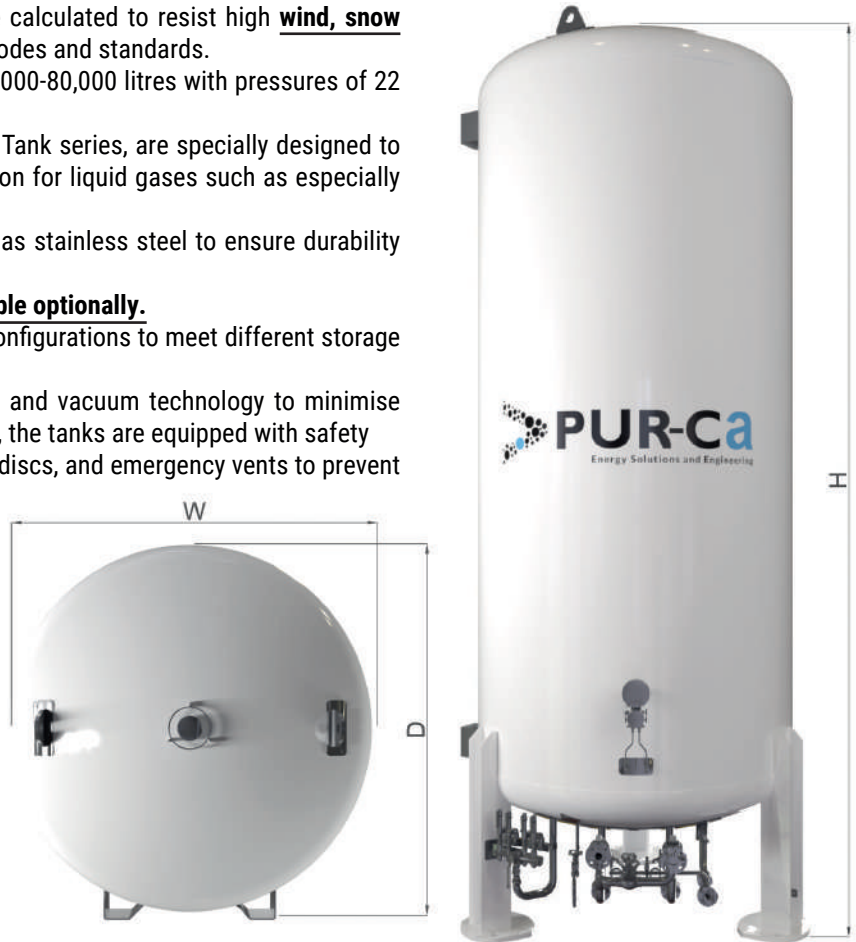
PVSC02 Series are available in various sizes and configurations to meet different storage needs.

PVSC02 Series has advanced insulation materials and vacuum technology to minimise heat transfer and prevent vaporisation. Additionally, the tanks are equipped with safety accessories such as pressure relief valves, rupture discs, and emergency vents to prevent overpressure of the stored gases.

The cryogenic type vertical Carbon dioxide storage tank series is widely used in various commercial and industrial applications, such as in the **medical, food and beverage industry etc.** Where it is used for the carbonation of soft drinks and beer, welding and fire extinguishers.

PVSC02 Series provide reliable and cost effective solutions for the storage of liquid gases.

If you are looking for a reliable, safe and cost effective storage solution for your liquid gases, you should definitely consider the PVSC02 series.



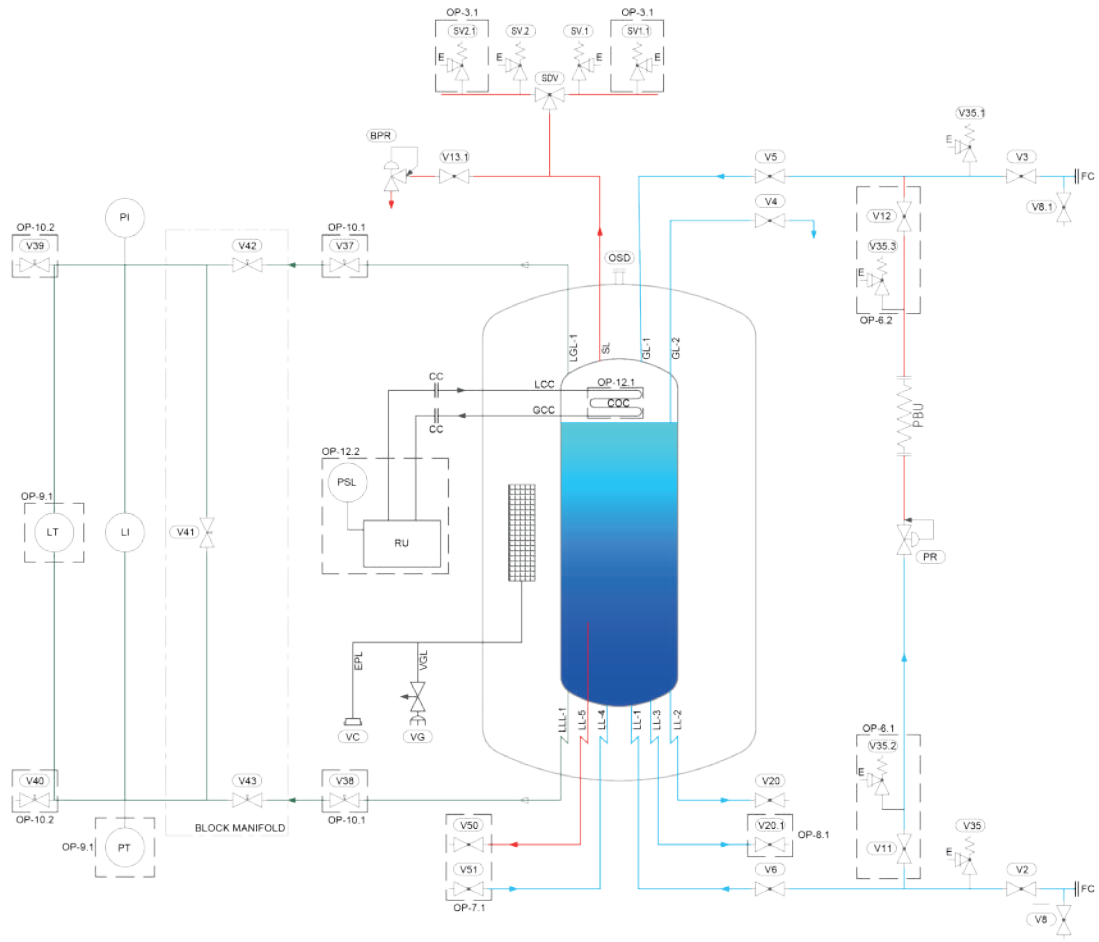
Type	Unit	PVST3	PVST6	PVST9	PVST10	PVST17	PVST21	PVST25
Gross Volume	m ³	3,39	6,15	8,91	9,62	16,99	21,20	25,41
Volume (%95 Filling)	m ³	3,22	5,84	8,46	9,14	16,14	20,14	24,14
Storage Capacity LCO ₂ ²	Kg	3344	6059	8773	9477	16734	20881	25028
Discharge Capacity LCO ₂ ³	Nm ³ /h	120	120	120	180	180	180	180
Diameter (ØD)	mm	Ø1800			Ø2100			
Height (H)	mm	3900	5900	7900	6025	9525	11525	13525
Overall Width (W)	mm	2050			2100			
Overall Depth (D)	mm	2150			2380			
22 bar	Kg	3200	4450	5600	6000	8900	10500	11950

Notes:

2) Filling ratio 95%, denstiy 1037 Kg/m³

Benefits:

- 1 Low Maintenance
- 2 Safe and Secure
- 3 Energy Efficient
- 4 Longevity



Line Description

- LL-1 Top fill line
- LL-2 Product withdrawal line
- LL-3 Product withdrawal line (optional)
- LL-4 Pump suction line (optional)
- LL-5 Pump return line (optional)
- GL-1 Bottom fill line
- GL-2 Trycock line-#95
- SL Safety relief line
- LLL-1 Liquid phase line to DP gauge (+)
- LGL-1 Gas phase line to DP and PI gauge (-)
- VGL Vacuum gauge port line
- EPL Vacuum evacuation port line
- LCC Refrigeration liquid input line (optional)
- GCC Refrigeration gas output line (optional)

Options

- OP-3.1 Additional safety relief valves
- OP-6.1 PBU inlet valve + thermal relief valve
- OP-6.2 PBU outlet valve + thermal relief valve
- OP-7.1 Pump feed and pump return valves
- OP-8.1 Additional liquid withdrawal valve
- OP-9.1 Pres. transmitter 4-20 mA/Digital level gauge 4-20 mA
- OP-10.1 Block manifold isolation valves
- OP-10.2 LP/HP pressure transmitter connection valves
- OP-12.1 Condensing coil
- OP-12.2 Refrigeration unit + pressure switch

PVST22	PVST26	PVST31	PVST37	PVST44	PVST32	PVST42	PVST50	PVST60	PVST70	PVST80
21,33	26,13	30,91	37,27	43,64	31,76	41,73	49,26	60,38	70,33	79,04
20,27	24,82	29,36	35,41	41,46	30,17	39,64	46,80	57,36	66,82	75,09
21017	25741	30446	36720	42994	31290	41109	48529	59486	69289	77867
240	240	240	240	240	360	360	360	360	360	360
Ø2500					Ø3000					
8300	9800	11300	13300	15300	8150	10150	11650	13900	15900	17650
2500					3000					
2780					3280					
10900	12600	14600	16750	19000	15150	18250	20700	24500	35400	30750

3) With standard PBU at 0,7xMAWP and 8 hours operating time 4) 1 bara pressure, 15 °C A.T. Vacuum < 5x10⁻² mbar



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