



## PVST Series

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Purifica Vertical 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 **oxygen service**, according to EN 12300.

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

PVST series are available in capacity between 3,000-80,000 litres with pressures of 18, 22 and 37 bar.

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

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

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

PVST Series is equipped with 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 vertical storage tank series is widely used in various industries, **including healthcare, food processing, manufacturing, defence and aerospace industry etc.**

PVST 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 PVST series.



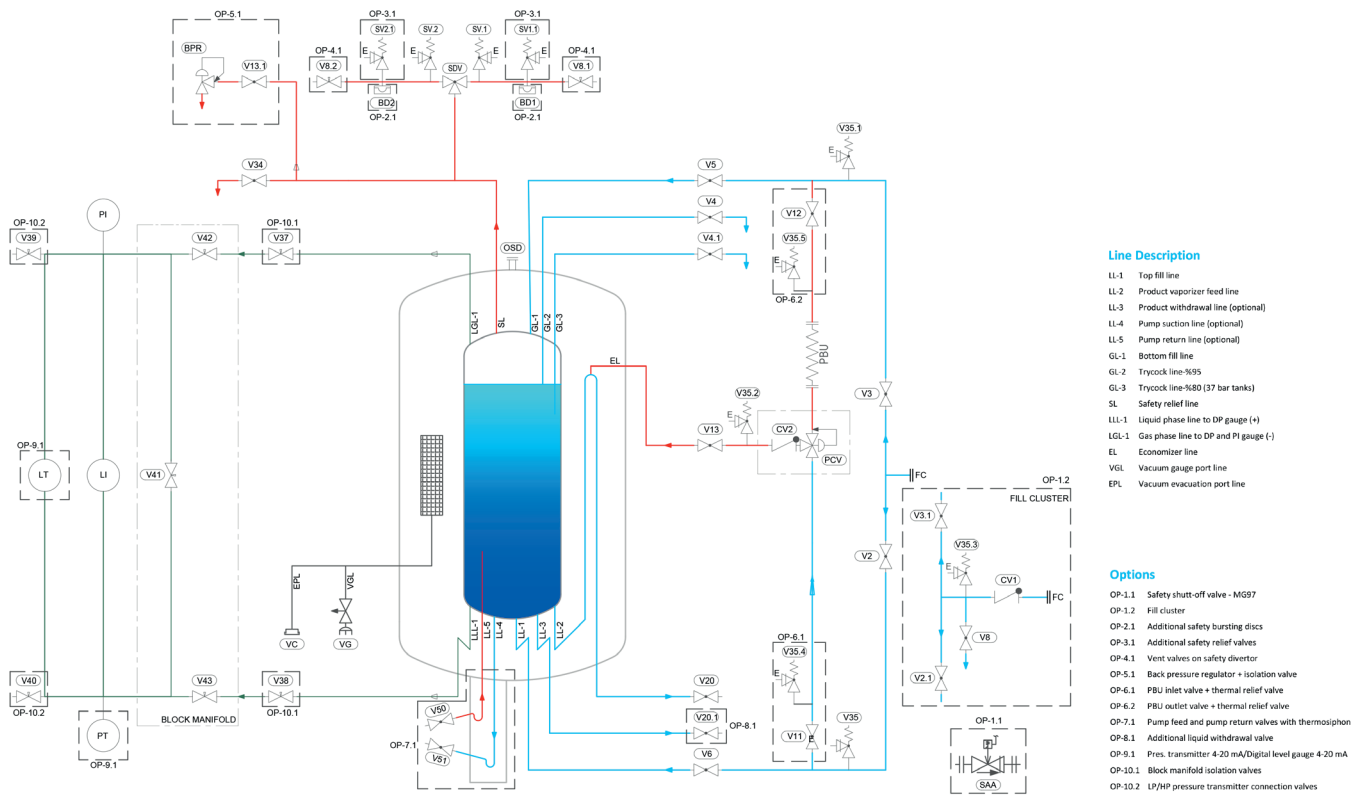
Type	Unit	PVST3	PVST6	PVST9	PVST10	PVST17	PVST21	PVST25	
Gross Volume	m <sup>3</sup>	3,39	6,15	8,91	9,62	16,99	21,20	25,41	
Volume (%95 Filling)	m <sup>3</sup>	3,22	5,84	8,46	9,14	16,14	20,14	24,14	
Storage Capacity LIN <sup>1</sup>	Kg	2608	4724	6841	7390	13049	16282	19516	
Storage Capacity LOX <sup>1</sup>	Kg	3680	6666	9653	10428	18413	22976	27538	
Storage Capacity LAR <sup>1</sup>	Kg	4495	8143	11792	12738	22492	28066	33640	
Storage Capacity LCO <sub>2</sub> <sup>2</sup>	Kg	3344	6059	8773	9477	16734	20881	25028	
Discharge Capacity LOX <sup>3</sup>	Nm <sup>3</sup> /h	280	280	280	420	420	420	420	
Discharge Capacity LCO <sub>2</sub> <sup>3</sup>	Nm <sup>3</sup> /h	120	120	120	180	180	180	180	
Normal Evap. Rate (NER) LOX <sup>4</sup>	18 bar	%/day	0,38	0,37	0,33	0,31	0,3	0,26	
	22 bar	%/day	0,4	0,38	0,34	0,33	0,31	0,28	
	37 bar	%/day	0,42	0,39	0,36	0,34	0,32	0,3	
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				
Empty Weight	18 bar	Kg	3100	4250	5300	5700	8450	10000	11400
	22 bar	Kg	3200	4450	5600	6000	8900	10500	11950
	37 bar	Kg	3650	5150	6500	7000	10700	12700	14600

#### Notes:

1) Filling ratio 95%, 1 bara      2) Filling ratio 95%, densitiy 1037 Kg/m<sup>3</sup>

# Benefits:

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



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
16388	20072	23741	28633	33525	24398	32055	37841	46385	54029	60717
23125	28322	33500	40403	47306	34428	45231	53396	65452	76238	85676
28249	34597	40922	49354	57787	42056	55253	65226	79953	93129	104658
21017	25741	30446	36720	42994	31290	41109	48529	59486	69289	77867
560	560	560	560	560	700	700	700	700	700	700
240	240	240	240	240	360	360	360	360	360	360
0,22	0,21	0,2	0,18	0,17	0,19	0,18	0,12	0,15	0,14	0,13
0,24	0,22	0,21	0,2	0,19	0,2	0,19	0,17	0,16	0,15	0,15
0,25	0,24	0,23	0,22	0,21	0,22	0,21	0,19	0,18	0,17	0,17
Ø2500					Ø3000					
8300	9800	11300	13300	15300	8150	10150	11650	13900	15900	17650
2500					3000					
2780					3280					
10350	12000	13950	16000	18150	13900	16600	19000	23100	26100	28600
10900	12600	14600	16750	19000	15150	18250	20700	24500	35400	30750
12900	14900	17300	20000	22750	18200	22100	25100	29800	33800	37200

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



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