

VERTICAL CRYOGENIC STORAGE TANK - CO₂

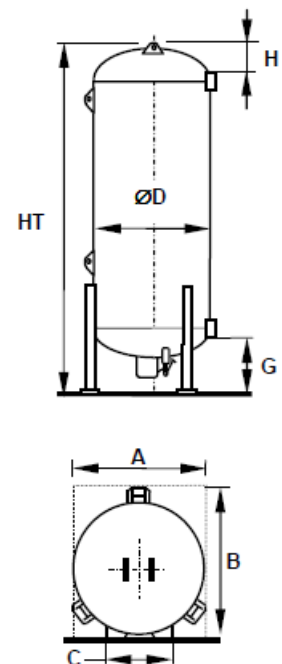
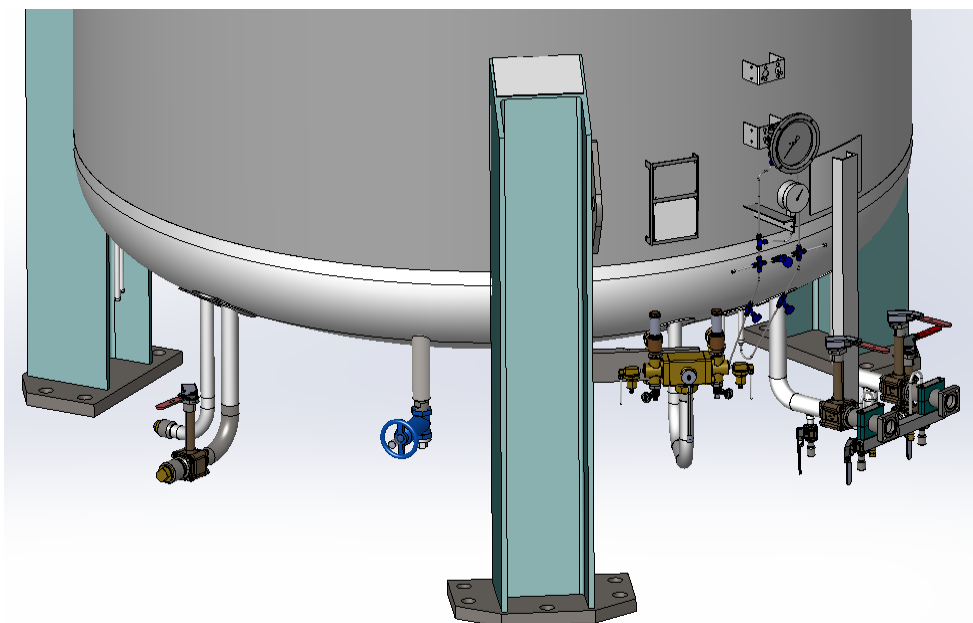
USA STOCK



CRYOLOR ASIA PACIFIC introduces the latest generation vacuum insulated cryogenic tank, the **RCIA Céline 3**, for Liquid Carbon dioxide service with **Stainless steel** inner vessel. Available in a range of sizes with a Maximum Allowable Working Pressure of **350 psig** (≈ 24 bar), **RCIA Céline 3** is designed in accordance with **ASME Section VIII Division 1 + Mandatory appendix-44 (cold stretch) with 'U' stamp**.

Moreover, the support legs used in the Céline 3 range are calculated **to resist high winds and earthquakes according to IBC code Zone 0 to Zone 4**.

- **A maximum use of Stainless steel** - Only WorldTank uses as much stainless steel in its construction to guarantee the lowest life cycle costs - valves, interconnecting piping, PR coil and all welded connections are stainless steel.
- **Components selected for their operational reliability** - mono-bloc pressure building economizer - regulator, safety system with dual relief valves and burst discs as standard, stainless steel valves.
- **Reduced overall operational costs** - optimized pipework layout with fewer connections minimize potential leaks and facilitate operation & servicing, filling assembly isolation valves as standard, proven painting techniques guarantee years of care-free operation.



Disclaimer: The image shown above is just a representation of the tank, The actual product may vary on its appearance and size.

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TYPE	RCIA 06 (6 TON)		RCIA 14 (14 TON)		RCIA 30 (30TON)		RCIA 50 (50 TON)	
Gross capacity (liters / USG) *	6150	1625	12570	3321	28040	7407	47530	12556
Net capacity (liters / USG) *	5658	1495	11564	3055	25797	6815	43728	11552
Empty weight (kg / lbs)	4600	10141	7100	15653	13000	28660	21200	46738
Weight full Carbon dioxide (kg / lbs) - CO ₂	11282	24873	20757	45762	43466	95827	72843	160591
Daily Evaporation rate CO ₂ (%)	0.086		0.075		0.060		0.045	
∅ Diameter (in / feet)	86.6 / 7.2						111.8	9.3
HT height (in / feet)	165.3	13.8	267.7	22.3	462.2	38.5	454.5	37.9
H (in / feet)	20.4 / 1.7						25.6	2.13
G (in / feet)	41.5 / 3.5				38.6 / 3.2		43.3	3.6
A (in / feet)	88.6 / 7.4				90.5 / 7.5		118.1	9.8
B (in / feet)	96.4 / 8				98.4 / 8.2		131.9	11
C (in / feet)	49.0 / 4.1						60.2	5

* Manufacturing tolerance : ± 4%

Note: Trycock level is 92%.

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REFERENCE	DESCRIPTION	SIZE		VALVE	
		06 & 14 MT	30 & 50 MT	MANUFACTURER	MODEL NUMBER
BV	Vacuum pump down connection	-	-	-	-
C8, C9	Connections for pressure buildup unit	1 1/2"		-	FNPT threaded with Male plug
C10	Add. Liquid withdrawal connection	-	1 1/2"	-	FNPT threaded with Male plug
C11	Connection for Auxiliary Vapor	1 1/2"		-	FNPT threaded with Male plug
FC1 & FC2	Bottom & top filling coupling	1 1/2"	2"	-	SS Mueller flange with groove
HV1	Filling liquid	1 1/2"	2"	Jamesbury	9FBX3600XTB
HV2	Filling gas	1 1/2"	2"	Jamesbury	9FBX3600XTB
HV5	Full trycock	1/2"		Jamesbury	9FBX3600XTB
HV6	Liquid use	1 1/2"	2"	Jamesbury	9FBX3600XTB + Extended stem JV SE-095
HV7	Vacuum isolation valve	1 1/2"		Saunders	2205-S-11R-E2 / 2205-S-11R-CV
HV8	Vacuum probe isolation valve	1/8"		Hoke	4551-F2B-1/8"
HV9	Level gauge manifold, Gas	OD 1/4"		Parker / Swagelok	4A-V4LR-SS-C3 / SS-1RS4-SC11
HV11	Level gauge manifold, Liquid				
HV12	3 way diverter	3/4"	1 1/4"	Herose	Type 06512
HV14 & HV15	Vent valve for safety tree	1/4"		Generant	FNV-4 MFB-X
HV17	Purge valve	1/2"		Jamesbury	9FBX3600XTB
HV18	Purge valve	1/2"		Jamesbury	9FBX3600XTB
HV20	Auxiliary Vapor	1 1/2"		Jamesbury	9FBX3600XTB
HV22	Pressure building - Gas	1 1/2"		Jamesbury	9FBX3600XTB + Extended stem JV SE-095
HV23	Pressure building - Liquid	1 1/2"		Jamesbury	9FBX3600XTB + Extended stem JV SE-095
HV24	Additional Liquid withdrawal	-	1 1/2"	Jamesbury	9FBX3600XTB + Extended stem JV SE-095

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REFERENCE	DESCRIPTION	SIZE		VALVE	
		06 & 14 MT	30 & 50 MT	MANUFACTURER	MODEL NUMBER
LI1	Mechanical liquid level gauge	-		WIKA	MODEL: 712.15.160
PI1	Mechanical pressure gauge				
HV10	Level gauge manifold, Equalizer				
PSE3	Annular space pressure relief	-		Cryolor	-
PSV1 & PSV2	Vessel safety relief valve(SRV)	1/2"	1"	Herose	Type 06388
PSV3	Thermal relief valve	1/4"		Generant	CRV-250B-K-350
PCV3A, B	Back pressure regulator	1/4"		Generant	BPR-250 I-D-O2
RC	Refrigeration coil	1/2"		Cryolor	-
RR	Liquid use connection	1 1/2"	2"	-	FNPT threaded with Male plug
VJ	Vacuum gauge / sensor	1/8"		Teledyne Hastings	DV-6-R

Note:

- This technical specification is purely an indication, It can't be considered as a contractual document.
- This technical specification is subject to change without prior intimation.