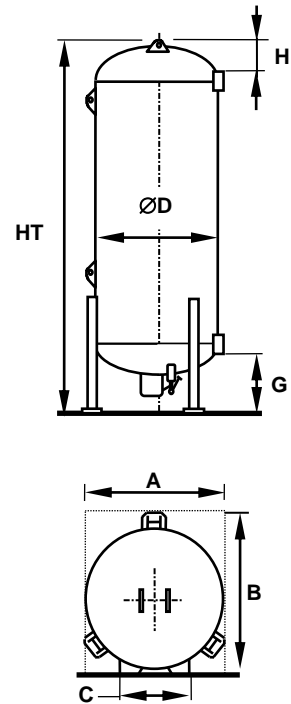
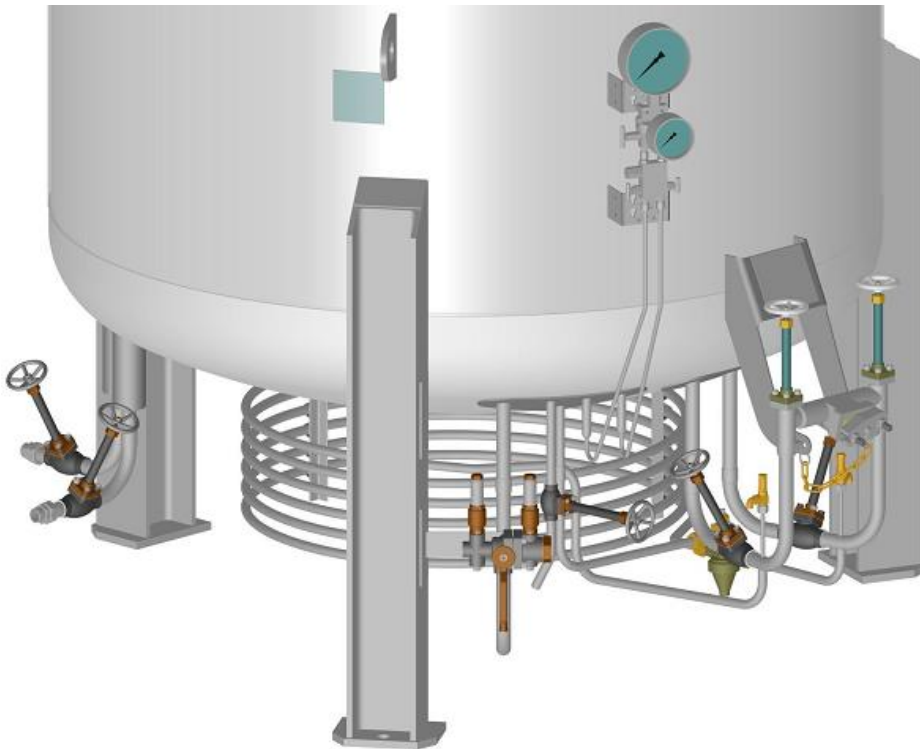


CELINE 3 Vertical Cryogenic Storage Tank

CRYOLOR introduces the latest generation vacuum isolated cryogenic tank, the **Céline 3**, for liquid nitrogen, oxygen or argon service. Available in a wide range of sizes with a Maximum Allowable Working Pressure of 17 bar (\approx 250 psig), **Céline 3** is designed in accordance with the European Pressure Directive **2014/68/EU** and EN 13458. Moreover, the support legs used in the Céline 3 range are calculated **to resist high winds and earthquakes (Eurocode 1 and 8 and UBC zone 3)**.

- **The widest range of standard options** : introduced by CRYOLOR, our innovative modular design using prefabricated piping modules, allows the basic model to be customized to satisfy virtually all possible technical requirements.
- **A maximum use of Stainless steel** : Only Céline 3 uses as much stainless in its construction to guarantee the lowest life cycle costs - valves, interconnecting piping, PR coil and all welded connections are stainless.
- **Components selected for their operational reliability** - mono-bloc pressure building economizer - regulator, safety system with dual relief valves and burst discs as standard, stainless 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.



Type	C3	C6	C10	C21	C27	C33	C53	C63
Gross capacity (liters) *	3 210	5 490	9 445	21 770	28 450	33 160	52 280	61 990
Net capacity (liters) *	3 050	5 216	8 973	20 682	27 028	31 502	49 666	58 891
Daily evaporation rate O ₂ (%)	0,45	0,32	0,26	0,22	0,20	0,18	0,15	0,13
Empty weight (kg)	2 800	3 700	5 100	9 200	11 300	13 600	19 100	21 900
Weight full Nitrogen (kg) - LIN	5 266	7 917	12 355	25 922	33 153	39 070	59 256	69 515
Weight full Oxygen (kg) - LOX	6 280	9 651	15 338	32 798	42 138	49 543	75 768	89 093
Weight full Argon (kg) - LAR	7 048	10 965	17 597	38 005	48 944	57 475	88 274	103 922
Continuous flow rate for 8 hours at 8 bar (Nm ³ /h)	500	500	500	2 000	2 000	2 000	2 000	2 000
Ø Diameter (mm)	1 900	1 900	2 200	2 200	2 200	2 840	2 840	2 840
HT height (mm)	3 490	4 790	5 130	9 430	11 760	8 880	12 700	14 670
H (mm)	480	480	575	520	520	650	650	3 660
G (mm)	925	925	1 055	980	980	1 100	1 100	1 100
A (mm)	2 200	2 200	2 250	2 300	2 300	2 950	2 999	2 999
B (mm)	2 200	2 200	2 450	2 500	2 500	3 300	3 350	3 350
C (mm)	1 100	1 100	1 245	1 245	1 245	1 530	1 530	1 530

* \pm 4%

CELINE 3

Vertical Cryogenic Storage Tank

REF	NOMENCLATURE	ND
W1-W11	Bottom filling valve	ND25<C21
W2-W21	Top filling valve	
S3-S4	Line safety valve	1/4"
E4	Filling connection (ISO FLANGE)	ND40
S1	Inner vessel safety valve	1/2"
DR3	Inner vessel protection device	
IR	3-way valve	ND20
M1	Pressure indicator	
N1	Level indicator	
RI	Low shut-off valve	
RE	Equalizer valve	
RS	High shut-off valve	
W41	Full trycock valve	ND15
DR1	Outer vessel protection device	ND70
DR2	Outer vessel protection device	ND70
BV	Vacuum connection	
F1	Filter	
RMP	Pressure building coil	
W8	Liquid withdrawal valve	ND25<C21
BR	Withdrawal connection	
RPE	Regulator - economizer	ND40≥C21
CV1	Check valve	
BR1-BR2	Pressure coupling	1/4" NPT

REF	OPTIONS	ND
OP0101 Overfilling protection valve		
S5	Line safety valve	1/4"
V97	Overfill valve	
OP60xx Adaptator / customer filling coupling		
Customer filling coupling		
OP1301 Economizer or isolating valve		
V5	Globe valve with check	ND15
S7	Line safety valve	1/4"
OP2301 Filling assembly with check valve & purge		
S8	Line safety valve	1/4"
P	Purge valve	
CAR	Check valve	
OP2501 Vent valve		
V21	Vent valve	ND15
OP0401 Pressure building coil isolation valve		
S6	Line safety valve	1/4"
V2	Pressure building coil isolating valve	ND15
OP0501 Liquid analysis connection		
Pa	Liquid analysis valve	ND15
Ra	Quick connection	
OP0601 Vacuum measuring device		
VV	Vacuum isolation valve	1/8"
VJ	Vacuum thermocouple connection	1/8"
OP0901 Liquid withdrawal valve		
W9	Liquid withdrawal valve	ND25<C21
RR	Withdrawal connection	

FLOW DIAGRAM

