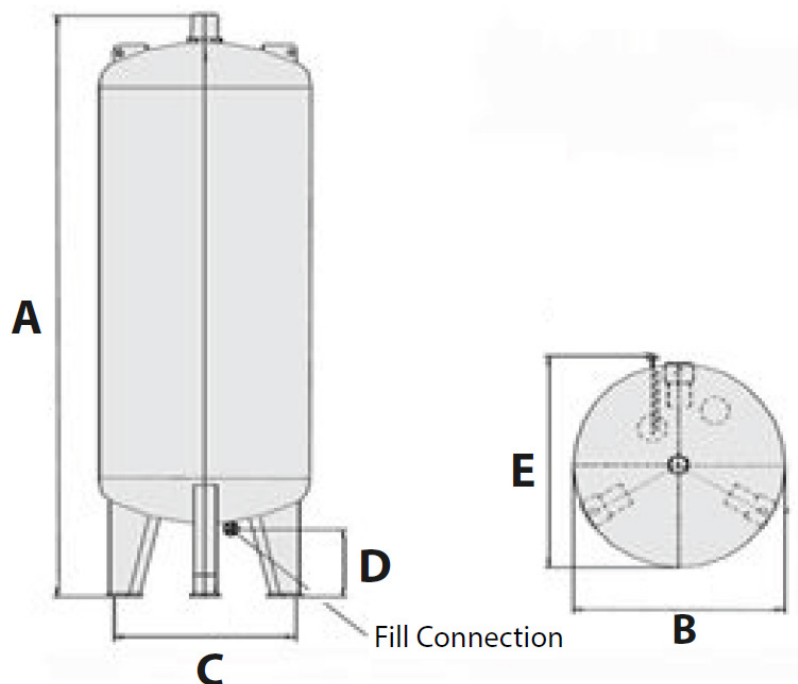


Lox Storage Tank

- LOX tanks are stationary, vacuum-insulated pressure vessels and consist of an inner and an outer pressure vessel.
- The inner vessel, designed for the storage of low-temperature, liquefied oxygen is manufactured out of cold-stretched material (stainless steel 1.4301).
- The outer vessel is manufactured out of carbon steel.
- The space between the inner and outer vessel is filled with perlite, a grained insulation material and is evacuated up to a pressure of below 100 microns in a warm state (20°C). In addition, a molecular sieve ensures, by means of absorption, the improvement and long-term stability of the vacuum during the operation of the tank.
- An automatic regulation system helps maintain the working pressure and minimizes losses in case of lower withdrawal rates (economizer function).
- The density of the welding seams is subjected to a leak test with helium, which secures long-term durability of the vacuum.
- Paint finish:
 - Sandblasting: SA 2 1/2, DIN559281
 - Primer: HEMPAPRIME Multi 500 45953 (190µm)
 - Top coat: Hempaxane Classic 55000

Services

- Oxygen



Type	SCS	2,0	2,6	3,1	3,7	4,8	5,3
Part Number		2212 0215 50	2212 0215 51	2212 0215 52	2212 0215 53	2212 0215 54	2212 0215 55
Pressure	bar	18.5	18.5	18.5	18.5	18.5	18.5
Gross capacity*	liter	2100	2600	3100	3700	4800	5300
Net capacity (95%)*	liter	1995	2470	2945	3515	4560	5035
Daily Evaporation Rate (O ₂)	%	0,35	0,33	0,32	0,30	0,28	0,28
Pressure building capacity at N ₂ in Nm ³ /h/8h	12bar	260	260	260	260	260	260
	8 bar	400	400	400	400	400	400
	2 bar	1400	1400	1400	1400	1400	1400
Total Height A	mm	3460	3910	4430	4880	5880	6430
Diameter B	mm	1600	1600	1600	1600	1600	1600
Foot Hole Circle C	mm	1500	1500	1500	1500	1500	1500
Fill flange height** D	mm	500	500	500	500	500	500
Width E	mm	1650	1650	1650	1650	1650	1650
Weight empty	kg	1935	2190	2640	2760	3310	3615

Type	SCS	6,4	7,0	9,7	11	12	16	20
Part Number		2212 0215 56	2212 0215 57	2212 0215 58	2212 0215 59	2212 0215 63	2212 0215 60	2212 0215 61
Pressure	bar	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Gross capacity*	liter	6400	6900	9700	10900	12100	15600	20300
Net capacity (95%)*	liter	6080	6555	9215	10355	11495	14820	19285
Daily Evaporation Rate (O ₂)	%	0,28	0,27	0,22	0,21	0,19	0,19	0,19
Pressure building capacity at N ₂ in Nm ³ /h/8h	12bar	260	260	530	530	800	530	530
	8 bar	400	400	820	820	1240	820	820
	2 bar	1400	1400	2900	2900	4400	2900	2900
Total Height A	mm	7400	7950	5900	6250	5490	8270	10240
Diameter B	mm	1600	1600	2200	2200	2500	2200	2200
Foot Hole Circle C	mm	1500	1500	2000	2000	2300	2000	2000
Fill flange height** D	mm	500	500	500	500	550	500	500
Width E	mm	1650	1770	2350	2350	2520	2350	2350
Weight empty	kg	4200	4550	5905	6275	6840	8250	10045

Type	SCS	23	28	32	35	41	45	50
Part Number		2212 0215 62	2212 0215 64	2212 0215 65	2212 0215 66	2212 0215 67	2212 0215 68	2212 0215 69
Pressure	bar	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Gross capacity*	liter	22700	28500	31800	35100	41600	45400	50500
Net capacity (95%)*	liter	21565	27075	30210	33345	39520	43130	47975
Daily Evaporation Rate (O ₂)	%	0,18	0,16	0,16	0,16	0,16	0,14	0,14
Pressure building capacity at N ₂ in Nm ³ /h/8h	12bar	530	800	800	800	800	800	800
	8 bar	820	1240	1240	1240	1240	1240	1240
	2 bar	2900	4400	4400	4400	4400	4400	4400
Total Height A	mm	11410	10430	11500	12600	14570	10700	11570
Diameter B	mm	2200	2500	2500	2500	2500	3000	3000
Foot Hole Circle C	mm	2000	2300	2300	2300	2300	2800	2800
Fill flange height** D	mm	500	550	550	550	550	550	550
Width E	mm	2350	2520	2520	2520	2520	3015	3015
Weight empty	kg	11065	13410	14510	15890	18170	19920	21820

Type	SCS	55	60	65	75	81
Part Number		2212 0215 70	2212 0215 71	2212 0215 72	2212 0215 73	2212 0215 74
Pressure	bar	18.5	18.5	18.5	18.5	18.5
Gross capacity*	liter	55600	60800	65900	76200	81300
Net capacity (95%)*	liter	52820	57760	62605	72390	77235
Daily Evaporation Rate (O ₂)	%	0,14	0,13	0,14	0,13	0,13
Pressure building capacity at N ₂ in Nm ³ /h/8h	12bar	800	800	800	800	800
	8 bar	1240	1240	1240	1240	1240
	2 bar	4400	4400	4400	4400	4400
Total Height A	mm	12670	13540	14640	16610	17710
Diameter B	mm	3000	3000	3000	3000	3000
Foot Hole Circle C	mm	2800	2800	2800***	2800 ***	2800 ***
Fill flange height** D	mm	550	550	550	550	550
Width E	mm	3015	3015	3025	3025	3025
Weight empty	kg	23455	25445	27060	30315	31850

Notes: * Geometric volumes may deviate in consequence of the cold stretching process

** Flange DN40

*** SCS 65, 75 & 81 – fitted with 4 legs