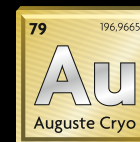


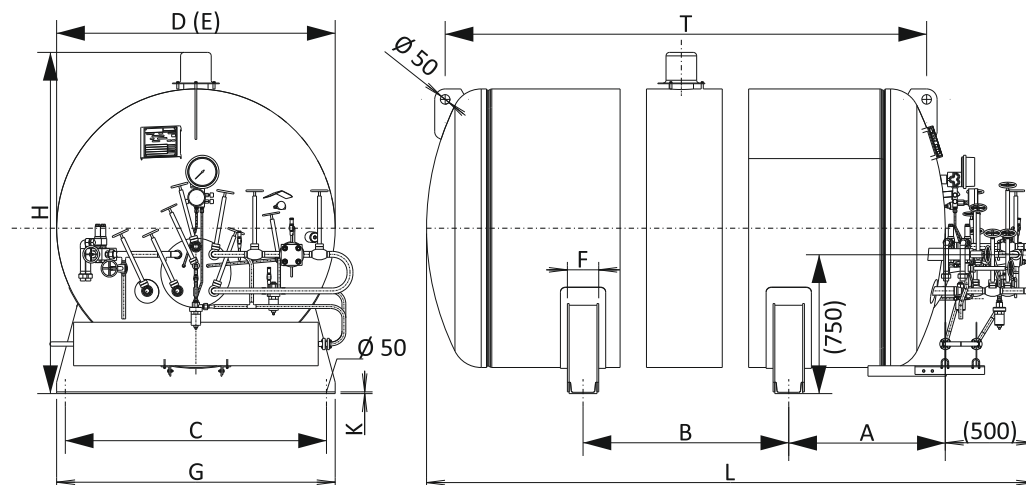
Technical Data of the HSCS cryogenic bulk tank line

Specification Standard Pressures (MAWP)

18.5 bar – 22.0 bar – 37.0 bar



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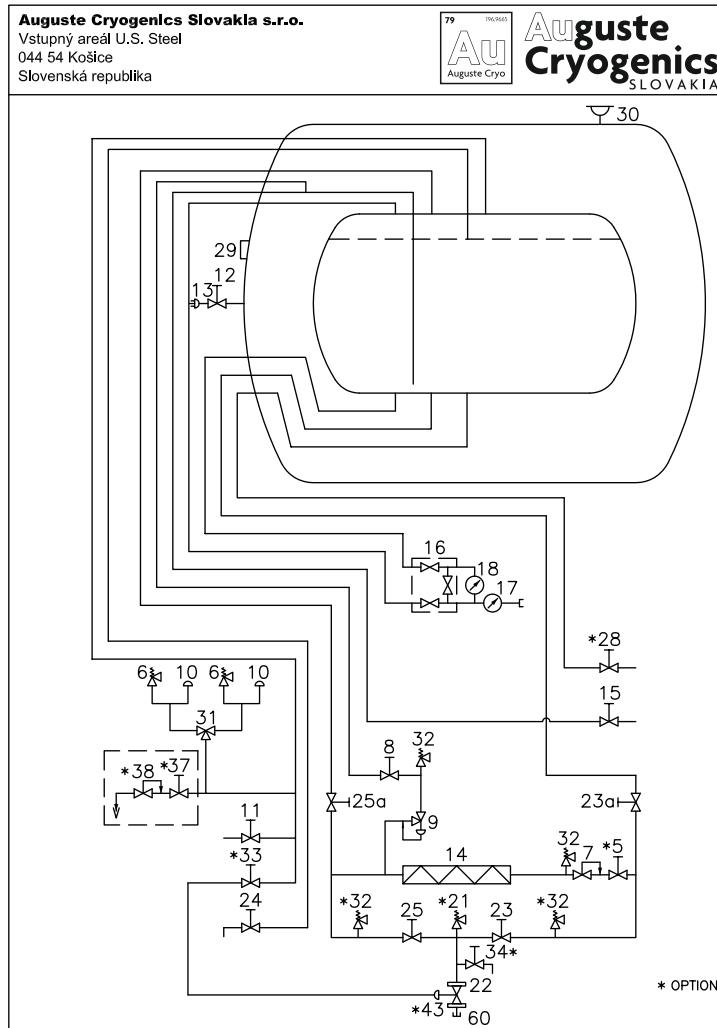
General Specifications of the HSCS Cryogenic bulk tank line	
Outer vessel	Carbon steel
Inner vessel	Stainless steel
Insulation	Vacuum Perlite or multilayer Super Insulation
Cleaning	For oxygen service
Pressure range	Standard MAWP* from 18,5 to 37 bar
Coating	Blasted ground (to SA 2 1/2, DIN 559281) HEMPAPRIME Multi500 45953 (190 µm) HEMPAXANE Classic 55000 (90 µm)

* individual MAWP customizations available on request

Type		2200	3300	4000	5000	6100	10000	11000	12000	13400	17000	20000	28000	32000	37000	41000	50000	60000	100000
Volume ¹ (l)	gross	2040	3130	3730	4750	5830	9700	10880	12030	12150	16800	19170	26900	31810	35090	40000	50500	60830	104300
	net (95%)	1940	2975	3540	4510	5540	9215	10340	11430	11540	15960	18210	25555	30220	33335	38000	47975	57790	99085
Average loss rate/day		0,48	0,45	0,36	0,38	0,32	0,28	0,26	0,24	0,23	0,23	0,21	0,18	0,17	0,15	0,14	0,13	0,13	0,12
Pressure building capacity at given pressure (Nm ³ /h/8h)	12 bar	260	260	530	260	260	530	530	530	800	530	530	800	800	800	800	800	800	800
	8 bar	400	400	820	400	400	820	820	820	1240	820	820	1240	1240	1240	1240	1240	1240	1240
	2 bar	1400	1400	2900	1400	1400	2900	2900	2900	4400	2900	2900	4400	4400	4400	4400	4400	4400	4400
Dimensions (mm)	A	800	815	233	855	890	990	1050	1155	1600	1610	1390	1775	1775	1750	2275	2520	3120	4255
	B	1500	2400	1225	4000	4800	3200	3600	3800	3200	5000	6500	6200	7700	8800	9000	6000	7000	6000
	C	1500	1500	1700	1500	1500	1700	1700	1700	1900	1700	1700	1900	1900	1900	1900	2260	2260	2800
	D	1600	1600	2200	1600	1600	2200	2200	2200	2500	2200	2200	2500	2500	2500	2500	3000	3000	3600
	E	1600	1600	2200	1600	1600	2200	2200	2200	2500	2200	2200	2500	2500	2500	2500	3150	3150	3800
	F	180	180	250	180	180	250	250	250	250	250	250	250	250	250	250	300	300	400
	G	1600	1600	1900	1600	1600	1900	1900	1900	2000	1900	1900	2000	2000	2000	2000	2480	2480	3000
	H	1960	1960	2350	1960	1960	2570	2570	2570	2870	2570	2570	2870	2870	2870	2870	3460	3460	3900
	K	10	10	10	10	10	15	15	15	15	15	15	15	15	15	15	20	20	20
	L	3240	4530	3230	6210	7080	5700	6200	6610	5750	8720	9780	10250	11750	12800	14050	11540	13740	15000
	T	2600	3890	2365	5570	6440	4905	5400	5815	4910	7925	8985	9410	10910	11960	13210	10550	12750	6000
Net weight (kg)	18,5 bar	2250	3000	2250	3950	4500	6700	7150	7600	9000	10150	11500	15100	16900	18700	23500	25800	30900	41500
	22,0 bar	2300	3100	---	4100	4700	7200	7700	8100	9500	11000	12600	16100	17900	19900	24900	27400	32800	44500
	37,0 bar	2650	3550	---	4800	5500	8600	9200	9700	11700	13100	15000	20000	22300	24800	30200	32300	38330	-

¹ Volumes can deviate as consequence of the cold stretching process. | All specifications subject to change without prior notice.

General flow diagram of Auguste Cryogenics HSCS line



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POS.	DESCRIPTION	DETAILS
5	Shut-off valve in pressure building system	DN20 K
6	Main safety valve	1/2"-1"
7	Pressure building regulator	
8	Shut-off valve in pressure reducing system	DN15 L
9	Pressure reducing regulator (economizer)	
10	Inner tank bursting head	1/2"
11	Vent valve	DN20 K
12	Vacuum probe valve	DN6
13	Vacuum probe	
14	Pressure building vaporizer	
15	Product withdrawal valve	DN40 L
16	Three valve manifold	DN3
17	Pressure gauge	
18	Liquid level indicator	
21	Section safety valve	1/4"
22	Fill connection	DN40
23	Liquid phase fill valve	DN40 L
23a	Liquid phase service valve	DN40 L
24	Over flow valve	DN15 L
25	Gas phase fill valve	DN40 L
25a	Gas phase service valve	DN40 L
28	Additional liquid withdrawal valve	DN40 L
29	Evacuation connection	2"
30	Vacuum bursting disc for outer tank	4"
31	Change over valve	DN15
32	Section safety valve	1/4"
33	Vent valve	DN15 K
34	Purge valve	DN15 K
37	Shut-off valve for process protection	DN15 K
38	Pressure reducing regulator for process protection	
43	Safety isolating valve	DN40
60	Filling adapter	

K = short spindle
L = long spindle

Auguste Cryogenics Slovakia s.r.o.

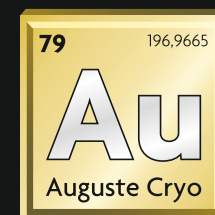
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