

Auguste Cryogenics

Product Portfolio

Auguste Cryogenics is an internationally renowned manufacturer of pressure vessels and containers for cryogenic, liquefied gases.

For decades our European operations have designed and hand crafted these products for the global market. With our manufacturing facility in Košice, Slovakia and distribution center in Husum, Germany, Auguste Cryogenics has continuously shaped the worldwide cryogenics industry and continues the tradition of practices and intellectual property for which the company was built. At the same time, we take pride in investing in our employees and in innovative solutions for tomorrow.

- Auguste Cryogenics products are characterized by their high technical standard and their reliability. Our portfolio includes:**
- Vertical and horizontal bulk tanks from 2,000 to 250,000 litres capacity for use in industry (LIN, LOX, LAR, LCO₂, LN₂O) and in the energy sector (LNG, LH₂).
 - Stationary and transportable microBulk tanks from 750 to 5,000 litres capacity.
 - Liquid cylinders with capacities from 70 to 240 litres for different operating pressures.
 - Stainless steel cryobiological freezers for the safe and economical long-term storage of larger sample quantities.
 - Aluminum Dewars from 2 to 175 litre capacity for storage and safe transport of sample material in liquid nitrogen.
 - Specially engineered vessels for a large variety of purposes, designed and built to the needs and demands of our clients.
- Our cryogenic vessels can be designed to fit the every aspect of applications for the energy, medical and industrial markets.



CONTACTS

We can provide you with a solution for every aspect of your cryogenic liquefied gas storage needs - please do not hesitate to contact the specialists in our sales team.

www.augustecryogenics.com



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ADDRESS

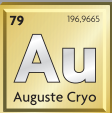
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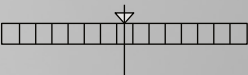


Auguste Cryogenics

PRODUCT

Stationary, vacuum-insulated pressure vessels for the storage of cryogenic liquefied gases

Stationary, vacuum-insulated pressure vessels for the storage of cryogenic liquefied gases



More information | www.augustecryogenics.com

AC SCS CRYOGENIC BULK TANKS

Engineered equipment for your industrial liquefied gas storage application

Auguste Cryogenics SCS Cryogenic Bulk Tanks are high performance bulk tanks that can be used for a broad spectrum of applications. Available in sizes from 2,000 up to 250,000 liters with maximum allowable working pressures between 18.5 to 37 bar (individual customizations are available), all vessels are built to our customer’s requirements and specifications.

Features of the AC SCS Cryogenic Bulk Tank line include:

The vessels’ inner space is filled with high quality insulating material – perlite or multilayer superinsulation wrap – and then evacuated to the point where virtually zero atmosphere remains. The integrity of the welded joints is checked by leak-testing, using a helium mass spectrometer. This insures long-term vacuum integrity. In addition, sieve material absorbs any off-gassing or moisture that develops over time thus offering highly superior vacuum performance throughout the vessels’ extensive working

- Superior Auguste Cryogenics GOLD Standard vacuum technology for highest thermal performance with exceptionally low evaporation rates.
- All stainless steel piping for strength and corrosion resistance.

AC SCS Tanks for industrial applications are stationary, vacuum-insulated pressure vessels for storage of cryogenic liquefied gases such as nitrogen (N₂), oxygen (O₂), argon (Ar), carbon dioxide (CO₂), nitrous oxide (N₂O) and ethene (aka ethylen, C₂H₄).



life. Auguste Cryogenics grants a 5 year warranty on the Auguste Cryogenics GOLD Standard vacuum. AC SCS Cryogenic Bulk Tanks as well as the other products from our portfolio have been in use all around the world for decades and offer the highest quality and reliability. Our 22,000m2 production facility is ISO:9001 certified and in compliance with the European Pressure Equipment Directive 2014/68/EU (PED) or to the majority of the pressure vessel codes used in the global marketplace.

- In-house design and construction of pressure-building vaporizers with aluminum fin tubes.
- All stainless steel leg support positions, ergonomically designed for compact footprint and easy as well as safe access to front mounting points.

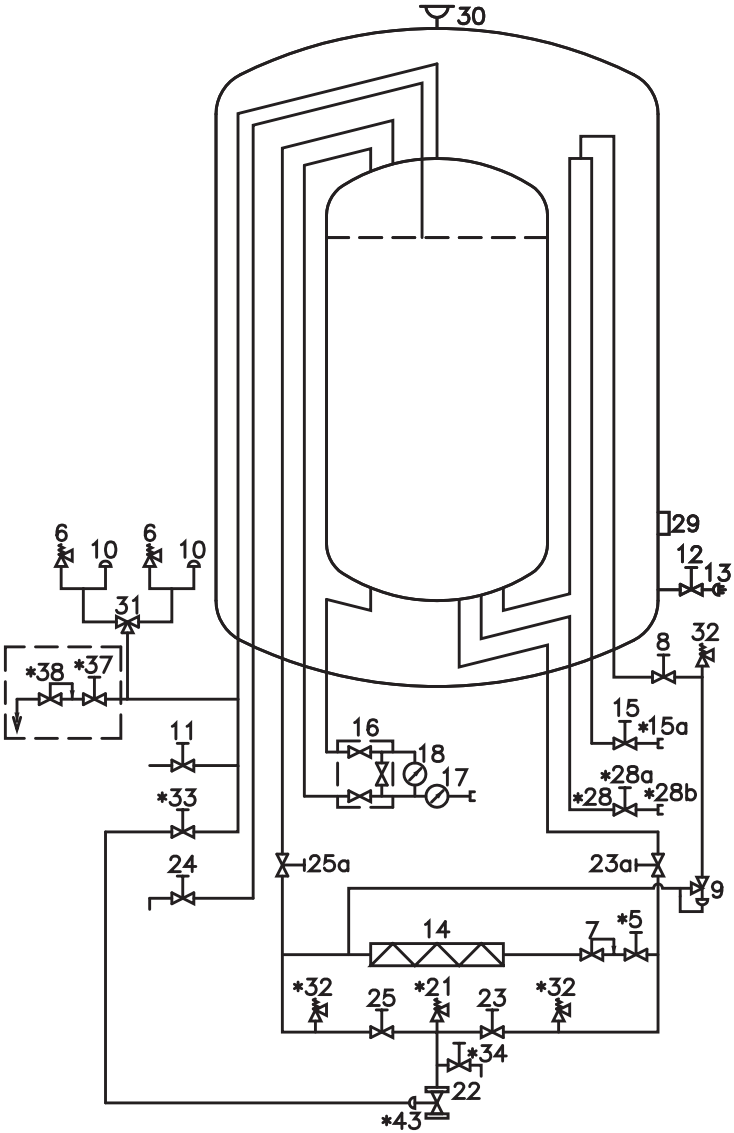
Based on decades of experience in designing and building, carefully selected components and outstanding build quality guarantee a high degree of reliability and longevity of each vessel. The low evaporation rate and the ergonomic layout of instruments and controls ensure economical and simple operation.

All our tanks are optimized to meet all applicable safety and seismic requirements. They comply with all major international and associated regional design codes. Depending on the customer’s needs, the AC SCS tanks are available in vertical and horizontal configurations. Individual piping and customized connection layout is available, allowing for easy access and operation while providing maximum protection to operating personnel and equipment.

All AC SCS Cryogenic Bulk Tanks are designed and built on the principle of superior vacuum integrity and complete thermal insulation. They consist of an inner and an outer vessel. The inner vessel, which is suspended concentrically in the outer vessel, is used for storage of cryogenic liquefied gases and is manufactured from stainless steel. The outer container is made from carbon steel.

TECHNICAL DATA

Standard flow diagram – i0088-09



Pos.	Description	Details
5*	Shut-off valve in P - B system	DN20 K
6	Main safety valve	1/2" - 1"
7	Pressure building regulator	
8	Shut-off valve in pressure reducing system	DN15 K
9	Pressure reducing regulator (economizer)	
10	Inner tank bursting head	1/2"
11	Vent valve	DN20 L
12	Vacuum probe valve	DN6
13	Vacuum probe	
14	Pressure building vaporizer	
15	Product withdrawal valve	DN25 L
15a*	Screwed coupling of product withdrawal	
16	Three valve manifold	DN3
17	Pressure gauge	
18	Liquid level indicator	
21*	Section safety valve	1/4"
22	Fill connection	DN40

Pos.	Description	Details
23	Liquid phase fill valve	DN25 L
23a	Liquid phase service valve	DN25 L
24	Over flow valve	DN 15 L
25	Gas phase fill valve	DN25 L
25a	Gas phase service valve	DN25 L
28*	Additional liquid withdrawal line	
28a*	Valve at add. liquid withdrawal line	DN25 L
28b*	Screwed coupling of add. liquid withdrawal	
29	Evacuation connection	2"
30	Vacuum bursting disk for outer tank	4"
31	Change over valve	DN15
32*	Section safety valve (some as option)	1/4"
33*	Service valve for Safety shut off device	DN15 K
34*	Purge valve	DN15 K
37*	Shut-off valve for process protection	DN15 K
38*	Pressure red. regulatorfor process prot.	
43*	Safety shut-off device	DN40

*Option, K - short spindle, L - long spindle