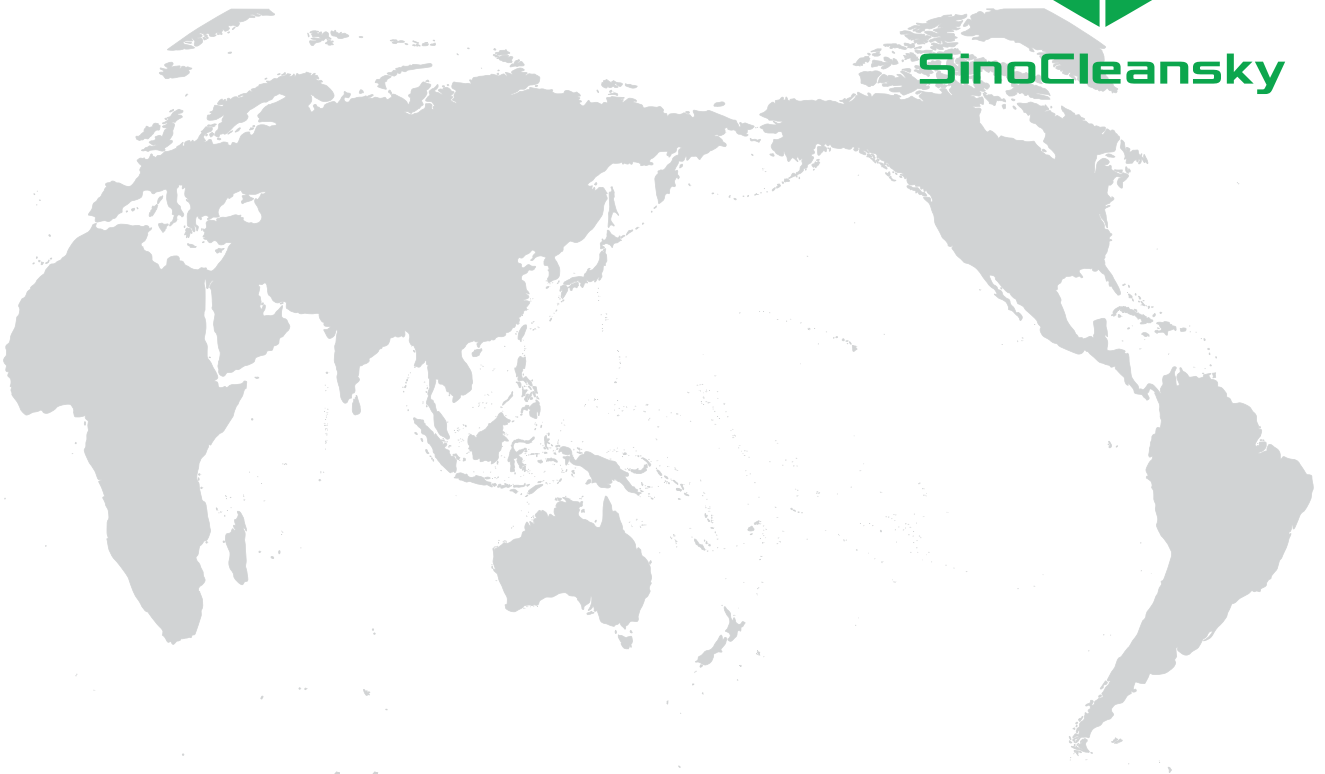




SinoCleansky



# 中国华科

SinoCleansky

*Industrial Gases Container & Solution*



北京华科天洁科技有限责任公司  
BEIJING SINOCLEANSKY TECHNOLOGIES CORP

## Company Profile >>>

Beijing SinoCleansky Technologies Corp is a leading manufacturer of industrial gas equipment and an integrated provider of solutions in industrial gas, energy, medical, welding & cutting, fire-fighting, water treatment, nitrogen purging and other applications, offering a one-stop-supply with wide range of gas equipment, as well as customized service.

Since 2006, SinoCleansky has been focusing on the industrial gases industry, and developing its professional teams, manufacturing facilities and supply chain network. SinoCleansky headquarter is located in Beijing, and factories in Beijing Economic Circle and Yangtze River Delta. Thanks to its mass production and technology, SinoCleansky is committed to becoming your lifetime partner for industrial gases.

### SinoCleansky key product lines

Jumbo Tube Skid/Container/Trailer;  
T75 & T50 ISO Tank Container;  
Victank microbulk tanks;  
Cryogenic Equipment, incl cylinders, storage tanks, transport tankers;  
High pressure gas cylinders, incl steel, aluminum, and composite cylinders;  
Welded cylinders for liquid chlorine, FM200, acetylene, etc.;  
ASU & PSA solutions, Industrial gas filling stations solutions, etc.

SinoCleansky gas equipment is in accordance with the most stringent international standards, incl ISO, ASME, TPED and etc., approved and certified by international inspection authorities which ensure a long-term safe and reliable use, with a good industry reputation.

SinoCleansky, gas container and solution!

## 公司简介 >>>

北京华科天洁科技有限责任公司是一家专注于气体设备和能源装备的专业技术公司。秉承专业服务，依靠优秀团队，立足中国制造，覆盖国际市场。

华科公司致力为国际市场提供优良的中国产品和技术：

- 工业气体设备：气瓶，储罐，设备和工程；
- CNG /LNG/ NGV：产品，系统，服务；
- 相关专用设备与技术。

自2006年成立以来，华科公司为全球工业气体和天然气行业客户提供了可靠的产品和方案，同时还服务于焊割、医疗、消防、水处理等众多行业客户。

华科公司以“让天空更洁净”为使命，立志成为全球用户的最优中国设备供应商。华科人专业专心，以优秀服务和优良产品，成为客户的终身伙伴。海纳百川，追求卓越。华科天洁愿与国内外广大客户和供应商真诚携手，长期合作！

# SinoCleansky , Gas Container & Solution

## ◆ Mission:

To make our sky cleaner!

## 使命：

让天空更洁净！

## ◆ Vision:

To be an excellent partner  
in global industrial sectors.

## 愿景：

立志成为全球  
工业领域的卓越合作伙伴。

## ◆ Value:

Service foremost;  
Pursuit of excellence;  
Being deeply grateful in  
all relationships.

## 价值观：

服务至上，  
追求卓越，  
感恩图报。



Reliability & Efficiency

Professional

Service **2**

certified company

[www.sinocleansky.com](http://www.sinocleansky.com)



SinoCleansky  
Gas Container & Solution

## Jumbo Cylinder ( MEGC Container Skid Trailer )

“Ideal Solution for CNG and Industrial Gases Storage and Transportation”



Jumbo cylinder produced as per ISO11120, DOT, or ASME standard, with TPED approval. Jumbo tube container with ADR, IMDG and RID certificate, and inspection report issued by BV, LRS, TUV or equivalent international third-party.

### Application

SinoCleansky jumbo cylinder skid / container / trailers are widely used for ground stationary storage and intermodal transportation.

The filling medium include CNG and various industrial gases such as Hydrogen, Argon Nitrogen, Helium, Purified Gas, Compressed Air, etc.



### Features of SinoCleansky high-pressure jumbo gas cylinder

- Heat-spinning technology;
- Walking beam continuous heat treatment;
- Large-size structure and fewer valves, tubes and joints;
- Concise design, less maintenance on site;
- Lower weight of design;
- Additional gas-filling devices.





LOX  
LIN  
LAR  
LCO  
LNG



SinoCleansky  
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### Popular Type for Industrial Gas and Hydrogen and CNG

Model No.	SCS0825CS-40F-559	SCS0925CS-40F-559	SCS1025CS-40F-559	SCS1125CS-40F-559	SCS1225CS-40F-559	SCS1225CS-20F-559
Cylinder quantity	8	9	10	11	12	12
Working pressure/MPa	25	25	25	25	25	25
Cylinder size/mm	OD559x17.4x10975	OD559x17.4x10975	OD559x17.4x10975	OD559x17.4x10975	OD559*17.4*10975	OD559*17.4*5400
Steel type	4130X	4130X	4130X	4130X	4130X	4130X
Working temperature	-50-65°C	-50-65°C	-50-65°C	-50-65°C	-50-65°C	-50-65°C
Equipment weight /KG	25752	28721	31490	34259	37028	19632
Water volume/M <sup>3</sup>	17.68	19.89	22.1	24.31	26.52	12.6
Filling gas volume /NM <sup>3</sup>	5569	6265	6961	7657	8353	3969
Total weight/KG	29730	33197	36462	39728	42995	22467
Skid/Trailer dimension	12192x2438x1400	12192x2438x1890	12192x2438x1890	12192x2438x1890	12192x2438x2000	6058x2438x2000

★ For Hydrogen, the jumbo tube working pressure can be 20mpa, other data will be adjusted according to Hydrogen Embrittlement.

### Light Type for Industrial Gas and CNG

Model No.	SCS0825CS-40F-559	SCS0925CS-40F-559	SCS1025CS-40F-559	SCS1125CS-40F-559	SCS1225CS-40F-559	SCS1225CS-20F-559
Cylinder quantity	8	9	10	11	12	12
Working pressure/MPa	25	25	25	25	25	25
Cylinder size/mm	OD559*14.8*11570	OD559*14.8*11570	OD559*14.8*11570	OD559*14.8*11570	OD559*14.8*11570	OD559*14.8*4950
Steel type	4142	4142	4142	4142	4142	4142
Working temperature	-50-65°C	-50-65°C	-50-65°C	-50-65°C	-50-65°C	-50-65°C
Equipment weight /KG	24240	27020	29600	32180	34760	17580
Water volume/M <sup>3</sup>	19.6	22.05	24.5	26.95	29.4	12.792
Filling gas volume /NM <sup>3</sup>	6174	6945	7717	8489	9261	4029
Total weight/KG	28650	31981	35112	38243	41375	20480
Skid/Trailer dimension	12192x2438x1400 (skid)	12192x2438x1890 (skid)	12192x2438x1890 (skid)	12192x2438x1890 (skid)	12192x2438x2000 (skid)	6058x2438x2000 (skid)

Remark: 1、The data of filling gas volume, loading weight and total weight is based on CNG.

2、The above specifications are only for our typical types. The more accurate & detailed parameters and technical drawings are available upon request.

### Shipment





SinoCleansky  
Gas Container & Solution



# Cryogenic ISO tank container

“We SinoCleansky specialize in designing and manufacturing cryogenic tank container since year 2006 with rich experience”



## Product Features

- 📦 Technology: Super-vacuum multi-layer insulation
- 📦 Application: LOX , LIN , LAr , LCO<sub>2</sub> , LN<sub>2</sub>O , LNG storage and transportation
- 📦 Standard: ASME, GB150, EN13530 and other international standards
- 📦 Lloyd's Register CSC Certificate, BV Certificate and CCS Certificate

## Specifications

Capacity: 10ft, 20ft, 40ft, with various capacities.

Working pressure: 0.8MPa, 1.6MPa, 1.8MPa, 2.2Mpa, 2.3MPa, etc

## Typical types

Standard	Main Specification	Filling medium	Working pressure	Water capacity	Material Inner / outer vessel
ASME	T75-20FT-8BAR	LOX / LIN / LAr (LNG optional)	0.8MPa	21.7 M <sup>3</sup>	SA-240M 304/Q345R
ASME	T75-20FT-16BAR	LOX / LIN / LAr / LNG / LC <sub>2</sub> H <sub>4</sub> / LC <sub>2</sub> H <sub>6</sub>	1.6MPa	21 M <sup>3</sup>	SA-240M 304/Q345R
ASME	T75-20FT-22BAR	LOX / LIN / LAr / LCO <sub>2</sub> / LN <sub>2</sub> O	2.2MPa	21 M <sup>3</sup>	SA-240M 304/Q345R
ASME	T75-20FT-23BAR	LOX / LIN / LAr / LCO <sub>2</sub> / LN <sub>2</sub> O	2.3MPa	21.1M <sup>3</sup>	SA-240 304/Q345R
EN13530	T75-20FT-18BAR	LOX / LIN / LAr (LNG optional)	1.8MPa	21.7 M <sup>3</sup>	1.4315/Q345R
EN13530	T75-20FT-22BAR	LOX / LIN / LAr / LCO <sub>2</sub> / LNG LN <sub>2</sub> O / LC <sub>2</sub> H <sub>4</sub> / LC <sub>2</sub> H <sub>6</sub>	2.2MPa	21.4 M <sup>3</sup>	1.4315/Q345R
GB	T75-20FT-22BAR	LCO <sub>2</sub>	2.2MPa	21.6 M <sup>3</sup>	WH590E/Q345R
ASME	T75-40FT-8BAR	LNG (with emergency shut-off valve)	0.8MPa	45.7 M <sup>3</sup>	SA-240M 304/Q345R



LOX  
LIN  
LAR  
LCO  
LNG



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## Customized service

- With or without pump
- Chinese pump or France Cryostar pump, USA Smith pump
- Dedicated or versatile for filling



Operation box with pump



Without pump



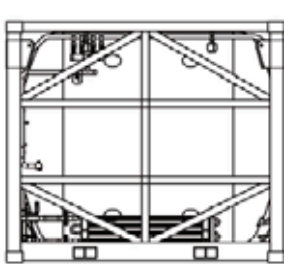
Vaporizer(PBU)



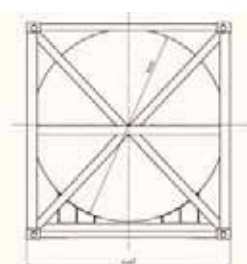
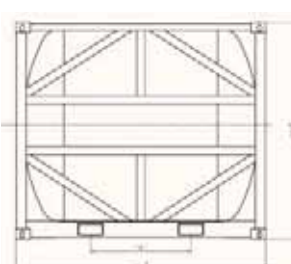
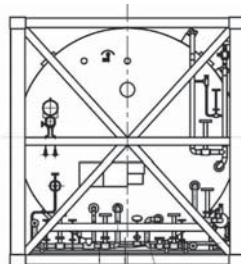
valves

## Customized ISO Tank for Nitrogen purging application:

- Off-shore 10ft ISO tank with DNV approval: 2000gallon, DNV2.7-1, fully certified;
- On-land LiN transport tank as per ASME: 2000gallon & 3000gallon, for both transport & storage;
- Customization available.



Off-shore 2000gallon, DNV2.7-1



On-land 2000gallon & 3000gallon



SinoCleansky  
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# Cryogenic Cylinder

“SinoCleansky’s vast array of models offer everything you need to transport, store and dispense liquefied gases safely and securely”



## Product Features

- 📦 Technology: high-vacuum multi-layer insulation
- 📦 Application: LOX, LIN, LAR, LCO<sub>2</sub>, LNG storage and transportation.
- 📦 Standard: DOT-4L, EN1251, GB24159, ASME, and other international standards
- 📦 High-performance super insulation
- 📦 Minimum product vapor loss
- 📦 Convenient storage and transportation
- 📦 Customized vaporization coils provide constant gas flow rates

## Product Introduction

Manufacturing standards: DOT-4L, EN1251, GB (Chinese standard), etc.

Water capacity: 175L - 1000L

Working pressure: 1.37MPa, 1.59MPa, 2.02MPa, 2.3MPa, 2.4MPa, 2.88MPa, 3.45MPa, etc.

## Typical types (Vertical)

Standard	Type
GB24159	DPL450-175L/195L/210L-1.37 MPa
GB24159	DPL450-175L/195L/210L-2.3 MPa
GB24159	DPL450-175L/195L/210L-2.88 MPa
GB24159	DPL450-175L/195L/210L-3.45 MPa
GB24159	DPL450-232L-1.37 MPa
GB24159	DPL450-232L-3.45 MPa

Standard	Type
EN1251	EN160HP(175L-2.4 MPa)
EN1251	EN180HP(197L-2.4 MPa)
EN1251	EN200HP(216L-2.4 MPa)
DOT-4L	CT160HP(175L-2.02MPa)
DOT-4L	CT180HP(195L-2.02MPa)
DOT-4L	CT200HP(205L-2.02MPa)
DOT-4L	CT240HP(250L-2.02MPa)





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## Big capacity popular types ( Vertical / Horizontal optional )

Standard	Type
GB24159	DPL700-410L-1.37Mpa Vertical
GB24159	DPL700-500L-1.37Mpa Vertical
GB24159	DPL700-410L-2.3Mpa Vertical
GB24159	DPL710-500L-2.3Mpa Vertical
GB24159	DPW650-410L/500L-1.59Mpa Horizontal
GB24159	DPW650-500L-2.5Mpa Horizontal
GB24159	DPW650-500L-3.45Mpa Horizontal
GB24159	DPL900-1000L-2.5 MPa Vertical



## Customized Model Case

Manufacture standard: GB24159

Water capacity: 410L to 500L

Working pressure: 1.37MPa, 1.59MPa, 2.3MPa, 3.45MPa

Filling Medium: LOX / LIN / LAr / LCO<sub>2</sub> / LNG

Vaporization: ≤40Nm<sup>3</sup>/h



## Detail pictures



Vaporizer



Name card



Valves



Pressure gauge

## Shipment





SinoCleansky  
Gas Container & Solution



## SinoCleansky Helium Dewar

SinoCleansky Ultra Helium Dewars are designed and built for reliable transport. They are light, maneuverable and durable, while providing superior thermal performance. The unique neck tube design provides proven support during transportation. The outboard caster base provides maximum stability in a compact design.

Available in sizes ranging from 30 to 1000 liters. The Ultra Helium Dewars are suitable for air transport (IATA conforming) with the optional absolute pressure relief valve. All models are 100% non-magnetic for Magnetic Resonance Imagery (MRI) service.

### Product Introduction

- Technology: High-vacuum multi-layer insulation plus cold shield design
- Manufacturing Standard: ASME
- Water Capacity: 36L, 66L, 110L, 275L, 550L, 1074L, etc
- Valve and Meters: Apollo, Generant, Wika, etc

### SinoCleansky Helium Dewar Features

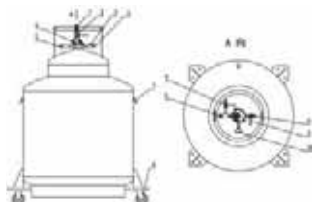
- Higher performance super insulation:
  - High-vacuum multi-layer insulation plus cold shield design ensure lowest Helium vapor loss.
  - High Effective vacuum maintenance technology and 3-year vacuum guarantee shows high quality and no worry for the longtime usage.
- High-level configuration:
  - Configure international famous brand for the valves and meters.
- Complete specifications
  - Wide range of options for the effective capacity: from 30L to 1000L.
  - Personalized Customized
- Reasonable Design
  - Lightweight but rugged construction secures frequently transport and liquid filling.
  - The Large-size full-diameter ball valve allows various size of standard transfer hose, include the biggest one 3/4"(19mm).
- Easy operation:
  - The standard valve and extraction liquid mouth are installed on the top of the dewar, which bring a great convenience for the user.
- Widely Application:
  - 100% non-magnetic design makes it perfectly applied in nuclear magnetic resonance (NMR).
  - Customized absolute relief valve allows the application for air transport.





SinoCleansky  
Gas Container & Solution

## Configuration table



- 1.Extraction liquid mouth
- 2.Extraction liquid ball valve
- 3.V type Embrace hoop
- 4.Auxiliary safety valve
- 5.Main relief valve
- 6.Two stage safety valve
- 7.Stealth shake handhandle
- 8.Castor
- 9.Main vent ball valve
- 10.Pressure gauge

Type	Typical Types							
	Unit	SCS- HD 30	SCS- HD 60	SCS- HD 100	SCS- HD 250	SCS- HD 400	SCS- HD 500	SCS- HD 1000
Capacity								
Full volume	L	36	66	110	275	440	550	1074
Effective volume	L	30	60	100	250	400	500	1000
Performance								
Evaporation rate	%/day	2.75	1.75	1.25	1.0	1.0	1.0	0.5
Main relief valve relief pressure	Psi/Bar	10/0.7						
Two stage relief valve relief pressure	Psi/Bar	12/0.8						
Auxiliary relief valve relief pressure	Psi/Bar	1/0.07						
Dimension								
Outer diameter	mm	508	606	606	856	1108	1108	1310
Height	mm	1227	1311	1541	1685	1643	1792	2008
Castor number	mm	4	4	4	4	4	4	4
Castor size	mm	100	100	100	125	125	125	150
Cervical canal diameter	mm	36.2	36.2	36.2	73.6	73.6	73.6	73.6
Extraction liquid tube diameter (MXM)	mm	12.7	12.7	12.7	19	19	19	19
Extraction liquid tube diameter (MIN)	mm	9.5	9.5	9.5	12.7	12.7	12.7	12.7
Extraction liquid tube depth	mm	832	902	1132	1320	1267	1417	1632
Vent Connection (MNPT)		1/2"						
Weight								
Tare weight	Kg	59	94	108	185	236	256	480
Full weight load	Kg	62	101	233	216	286	318	605
Remark: 1.The depth of the suction pipe is measured from the top flange to the bottom of the inner bottom head 2.Airworthy models specs to be provided.								

## Accessories

Various kinds of Valves, Transfer Hose and Cryenco to Linda Bayonet Adapt meet your kinds of liquid Helium application requirement. Customization available.





SinoCleansky  
Gas Container & Solution

## SinoCleansky Biobank Tank (Cryogenic Freezer) -180 °C ~ -190 °C Vapor phase in LiN Tank

### Product introduction

Cryogenic freezer provides a storage capacity of 20,000 ~ 94,000 vials at 1.2ml/2.0ml. Biological samples are stored safely at a low temperature of - 180 °C ~ - 190 °C. Cryogenic freezer's excellent vacuum performance ensures long-term and effective safe storage of biological samples. Also, Handy Cryogenic freezer (HCF series) is available, the container can realize automatic opening and closing the cover, reducing the manual work of container operators. The rotation of inner turntray is controlled by electric motor and selected rack can be turned to the tank neck window. And freezing rack can be lifted by elevator also.



Cryogenic Freezer



Handy Cryogenic Freezer (Auto)

### Product features

- Biological samples are stored in vapor environment - 180 °C to - 190 °C, avoid possible cross infection from biological samples.
- Ergonomic design, integrated with two tier steps for easy operation, and retractable.
- 10 inch touchscreen, display and control the real-time running status inside the freezer.
- Special pipeline design, By-Pass vents reducing inner tank temperature turbulence.
- Double inlet valves, avoid LiN overcharge.
- Auxiliary lifting elevator is optional, preset installation position.
- Pt temperature sensor.
- The whole system can be equipped with iPoint™ cloud control system.

### Innovative functions (HCF models)

- Turntray is controlled by rotation and positioning, and it is easy to find the freezing rack.
- Electric lifting elevator, easy to lift the freezing rack.
- One button automatic cover opening without manual operation.



LOX  
LIN  
LAR  
LEO  
LNG



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Gas Container & Solution

## Typical Types

Model	Unit	CF200	CF400	CF800	CF940
		HCF200	HCF400	HCF800	HCF940
<b>Overall Dimension</b>					
Total height	mm	1764	1781	1806	1961
First step height	mm	300	250	285	285
Height from the first step to the tank neck	mm	1107	1186	1156	1331
Second step height	mm	/	470	570	570
Height from the second step to the tank neck	mm	/	966	871	1046
Outer diameter	mm	880	1160	1530	1530
Internal working diameter	mm	750	1030	1400	1400
Internal effective height	mm	755	755	755	910
Diameter of neck opening	mm	330	458	623	623
<b>Capacity</b>					
Max storage capacity of vials	EA	19500	41600	80925	93375
Number of freezing racks with 100 cells	EA	14	30	60	60
Number of freezing racks with 25 cells	EA	4	8	9	9
Number of layers of freezing racks	Layer	13	13	13	15
<b>Installation</b>					
Total capacity	L	481	925	1755	2004
Liquid nitrogen capacity (Below turntray)	L	62	157	327	327
Liquid nitrogen consumption	L/d	8	9	12	12
Liquid nitrogen supply		22 Psi			
Power supply		AC220V 50Hz			
<b>Shipment</b>					
Total weight of equipment	Kg	305	455	710	780
Overall dimension (LxHxW)	mm	980x880 x1764	1740x1160 x1781	1749x1530 x1806	2083x1530 x1961





SinoCleansky  
Gas Container & Solution



## Cryogenic Storage Bulk Tank

“One-stop solution of all sizes of liquid gases tanks”

We SinoCleansky specialize in development and production cryogenic tank since year 2006, with rich experience. The products are widely used in the LNG and other liquid industrial gas stationary storage, including LOX, LIN, LAr, LCO<sub>2</sub>, etc.

SinoCleansky cryogenic tanks are equipped with high-vacuum multi-layer insulation or vacuum perlite insulation. To provide high-performance equipment, we make a series of stringent tests, including automatic welding process, X-ray and ultrasonic tests, vacuum production and testing, hydraulic tests, leak test for inner vessel, etc.

### Cryogenic tank

Type: vertical, horizontal

Manufacture standard: GB, ASME, EN

Capacity 10M<sup>3</sup> – 1000M<sup>3</sup>

Working pressure: 0.8MPa, 1.6MPa, 2.2MPa, 2.4MPa, etc

Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG



### Production pictures





LOX  
LIN  
LAr  
LCO<sub>2</sub>  
LNG



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## Typical model

Standand	Volume	Working Pressure	Medium
ASME/GB	10M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	10M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	15M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	15M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	20M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	20M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	30M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	30M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	50M <sup>3</sup>	8bar	LOX/LIN/LAr
ASME/GB	50M <sup>3</sup>	16bar	LOX/LIN/LAr
ASME/GB	10M <sup>3</sup>	22bar	LCO <sub>2</sub>
ASME/GB	15M <sup>3</sup>	22bar	LCO <sub>2</sub>
ASME/GB	20M <sup>3</sup>	22bar	LCO <sub>2</sub>
ASME/GB	30M <sup>3</sup>	22bar	LCO <sub>2</sub>
ASME/GB	50M <sup>3</sup> , 60M <sup>3</sup> , 120M <sup>3</sup> , 150M <sup>3</sup> , 200M <sup>3</sup> , 300M <sup>3</sup> , and more	8bar	LNG

ASME standard with or without U stamp .

With third party test reports :  
Factory test reports .

With international brand valves or Chinese brand valves.

Custom-made service for labels and name plates.

The warranty period for valves and gauges is one year. The warranty period for storage tank vacuum and painting is three years.

We provide one-stop solution for our clients, and supply customized cryogenic equipment, incl vaporizer and pump.

## Shipment





SinoCleansky  
Gas Container & Solution



# Cryogenic Transport Tanker

We keep devoting ourselves to the development and production of cryogenic liquid transport equipment. The products are widely used in the LNG and other liquid industrial gases storage and transport.

## Portable Cryogenic Tank (PCT)

Manufacture standard: ASME  
Capacity: 1M<sup>3</sup>, 2M<sup>3</sup>, 3M<sup>3</sup>, 4M<sup>3</sup>, 5M<sup>3</sup>, 7M<sup>3</sup>, etc.  
Working pressure: 1.6MPa, 2.5MPa  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Insulation: High-vacuum multi-layer insulation.



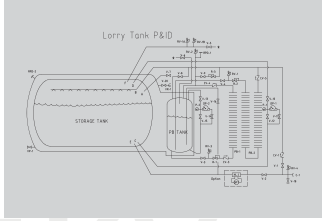
## Cryogenic Road Tanker (without chassis, without pump)

Manufacture standard: ASME  
Capacity: 3M<sup>3</sup> - 20M<sup>3</sup>.  
Working pressure: 1.6MPa, 2.2MPa, 2.4MPa, etc  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Insulation: High-vacuum multi-layer insulation.



## Cryogenic Road Tanker with PB tank (without chassis)

Cryogenic Road Tanker with PB tank (without chassis)  
Manufacture standard: ASME  
Capacity: 3M<sup>3</sup> - 20M<sup>3</sup>.  
Working pressure: 1.8MPa  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Insulation: High-vacuum multi-layer insulation.



## Cryogenic Road Tanker with pump (without chassis)

Manufacture standard: ASME  
Capacity: 3M<sup>3</sup> - 20M<sup>3</sup>.  
Working pressure: 0.4MPa  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Insulation: High-vacuum multi-layer insulation.



## MicroBulk Delivery Systems (with pump & flowmeter)

Insulation: High-vacuum multi-layer insulation.  
Volume: 1057-5283 gal / 4-20M<sup>3</sup>  
Discharging pressure: 0.8-3.5MPa / 0.8-1.6MPa  
Medium: LOX, LIN, LAr, LCO<sub>2</sub>, LNG  
Note: We only provide loading part of lorry tanker, without chassis and head.





LOX  
LIN  
LAR  
LCO<sub>2</sub>  
LNG



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### Cryogenic Semi-trailer for industrial Gas LOX,LIN,LAr

NO	NAME	LOX Semi-trailer		LIN Semi-trailer		LAR Semi-trailer	
1	Model No	SCS-GB-27.39M <sup>3</sup> -0.3MPA		SCS-GB-37.2M <sup>3</sup> -0.3MAP		SCS-GB-22.8M <sup>3</sup> -0.3MAP	
2	Total Volume	27.39M <sup>3</sup>		37.2M <sup>3</sup>		22.8M <sup>3</sup>	
3	Effective Volume	25.47M <sup>3</sup>		34.6M <sup>3</sup>		21.2M <sup>3</sup>	
4	Working Pressure	0.3MPA		0.3MPA		0.3MPA	
5	Loading Medium	LOX		LIN		LAR	
6	Desdign Code	GB(Chinese Standard)		GB(Chinese Standard)		GB(Chinese Standard)	
7	Main Material	Inner Vessel	S30408	Inner Vessel	S30408	Inner Vessel	S30408
		Outer Vessel	Q345R	Outer Vessel	Q345R	Outer Vessel	Q345R
8	Design Temperature	-196/50°C		-196/50°C		-196/50°C	
9	Isolating Type	High Vacuum Multilayer Insulating		High Vacuum Multilayer Insulating		High Vacuum Multilayer Insulating	
10	Total Net Weight	10940KG		12080KG		10445KG	
11	Dimensions	12065×2520×3455mm		12720×2520×3700mm		11950×2520×3290mm	

### Cryogenic Semi-trailer for LCO<sub>2</sub>

NO	NAME	PARAMETERS
1	Model No	LCO <sub>2</sub> Semi-Trailer
2	Design Volume	29.7M <sup>3</sup>
3	Working Pressure	2.2Mpa
4	Loading Medium	LCO <sub>2</sub>
5	Design Code	GB (Chinese Standard)
6	Main Material( Inner Vessel)	WH590E
7	Design Temperature	-40/+50°C
8	Isolating Type	Foam
9	Total Weight	40000KG
10	Equipment weight	13270KG
11	Rated loading weight	26730KG
12	Dimensions	12610X2500X3630mm

### Cryogenic Semi-trailer for LNG

NO	NAME	PARAMETERS	
1	Model No	SCS-ASME-52.6M <sup>3</sup> -0.7MPA	
2	Total Volume	52.6M <sup>3</sup>	
3	Effective Volume	47.34M <sup>3</sup>	
4	Working Pressure	0.7Mpa	
5	Loading Medium	LNG	
6	Design Code	ASME	
7	Main Material	Inner Vessel	S30408/S30408III
		Outer Vessel	Q345R/16MnII
8	Design Temperature	-196/50°C	
9	Isolating Type	High Vacuum Multilayer Insulating	
10	Total Net Weight	17440 KG	
11	Dimensions	13000x2500x3800mm	

**Remark: 1. All the semi-trailer is with chassis without tractor head.  
2. The parameter is for reference, the final datasheet based on production drawing.**





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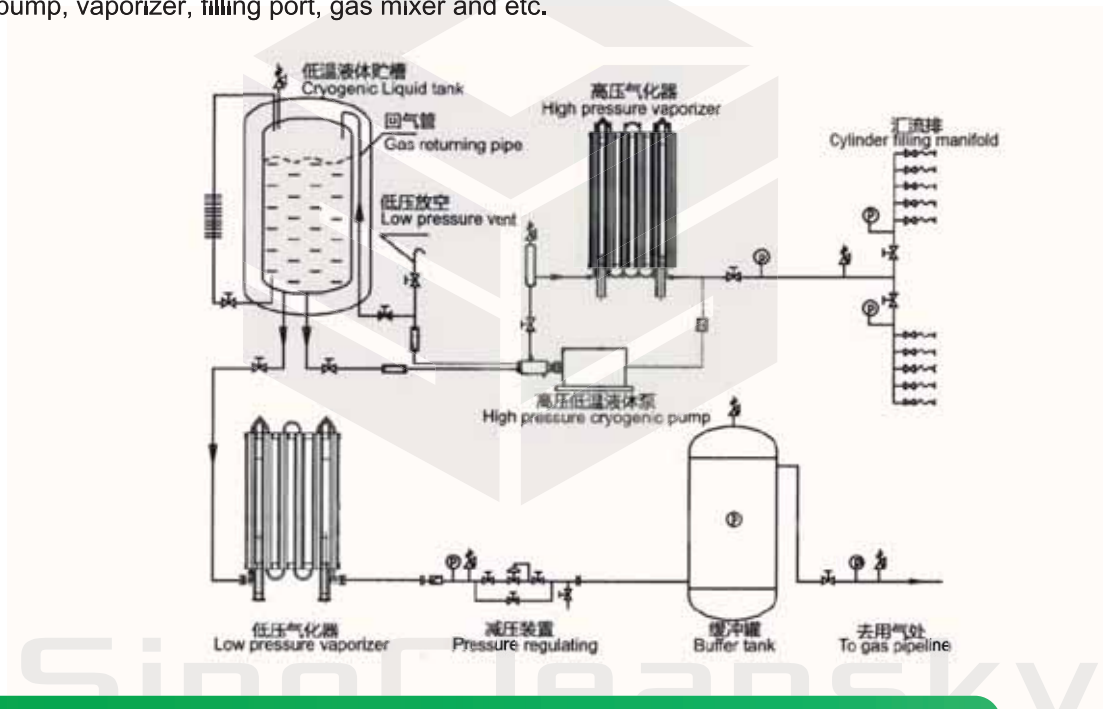


## Industrial Gases Regasification and Filling Station

We SinoCleansky design and supply the whole industrial gas cylinder filling station. We understand the end-user requirements and customize our solution to the best.

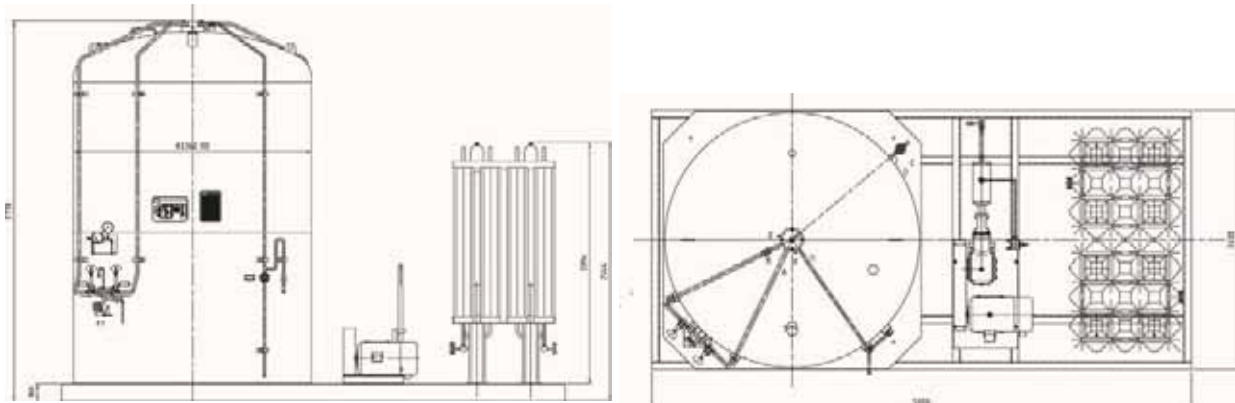
### Gas cylinder filling system and collective gas supply system:

Tank, pump, vaporizer, filling port, gas mixer and etc.



### Microbulk for Micro Gas Cylinder Filling Station

For small station of cylinder filling, we have the best design: skid-mounted micro filling solution.





LOX  
LIN  
LAr  
LCO<sub>2</sub>  
LNG



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## Vaporizer & Pump (for IG & LNG)

### Ambient Vaporizer

#### Applicability

They are mainly used for heating, vaporizing LOX, LIN, LAr, LCO<sub>2</sub>, LC<sub>2</sub>H<sub>4</sub>, LNH<sub>3</sub>, LPG, LC<sub>3</sub>H<sub>8</sub> and other cryogenic medium.

#### Main technical parameters

- Suitable medium: LOX, LIN, LCO<sub>2</sub>, LNG, LC<sub>2</sub>H<sub>4</sub>, LPG etc.
- Single set flow: 50-10000Nm<sup>3</sup>/H
- Working pressure: 0.8-35.0MPa
- Standard: GB, ASME, PED(CE), CCS, CNNC, CASC



### Water Bath Vaporizer



### Electric heated vaporizer

### Reciprocating Pump

**Industrial gas pumps** are mainly used for air separation products: filling of liquid oxygen, liquid nitrogen, liquid argon, liquid carbon dioxide, air supply systems. The units are mainly single row, double row, and three-row reciprocating pumps. Its flow is 30-5000L/H and its maximum exit pressure is 35.0MPa. An electromagnetic adjustable speed motor, or a fixed rotating speed motor, or a variable frequency and variable speed motor, or an explosion proof variable frequency motor can be equipped as per actual requirements.

**Carbon dioxide pumps** are mainly used for liquid carbon dioxide. Filling of carbon dioxide liquid cylinder, Air supply, air distribution system.

**Large flow and medium pressure piston pumps** are mainly used for liquid oxygen, liquid nitrogen, liquid argon and liquefied natural gas. Air supply systems at large and medium steel mills. Filling of Dewar bottles. Filling of storage tanks.



### Shipment





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## High Pressure Seamless Steel Gas Cylinder

“More than 1,500,000pcs supplied since year 2006 ”

We SinoCleansky provide all types of steel gas cylinder. Our products are manufactured according to the GB5099, ISO9809, EN ISO9809 (TPED), DOT-3AA and other international standards. We provide the third-party test reports for our cylinders, such as TUV, Lloyd's Register, DNV, etc.

SinoCleansky cylinders are widely used for Oxygen ( $O_2$ ), Nitrogen ( $N_2$ ), Argon (Ar), Carbon Dioxide ( $CO_2$ ), Helium (He), Nitrous Oxide ( $N_2O$ ), Hydrogen ( $H_2$ ) and so on, which covers industrial, fire-fighting, energy, medical, city construction and other sectors.

- Industrial gas cylinder
- Medical cylinder
- Billet-pierced cylinder
- Fire-fighting gas cylinder



### Specifications

Manufacturing standard:

ISO9809, EN ISO9809 (TPED), DOT-3AA, GB5099

Water capacity: 0.5L - 200L

Working pressure: 15MPa, 20MPa, 23MPa, 30MPa

Outer diameter: 108mm - 406mm etc

### Detail Pictures





LOX  
LIN  
LAR  
LCO  
LNG



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## Typical types

### Industrial gas cylinder & Medical cylinder

Standard	Type	Outer diameter	Water capacity	Working pressure
GB5099/ISO9809	WMA140-15MPa-10L	140 mm	10 L	15 MPa
GB5099/ISO9809	WMA219-15MPa-40L	219 mm	40 L	15 MPa
GB5099/ISO9809	WMA232-15MPa-47L	232 mm	47 L	15 MPa
EN ISO9809	OD232-20MPa-50L	232 mm	50 L	20 MPa
EN ISO9809	OD229-30MPa-50L	229 mm	50 L	30 MPa
DOT-3AA	20CF (MC10)	133 mm	3.6 L	2015 psi
DOT-3AA	40CF (B40)	178 mm	7.8 L	2015 psi
DOT-3AA	225CF	229 mm	43.3 L	2015 psi

### Popular Billet-Pierced cylinder

Standard	Type	Outer diameter	Water capacity	Working pressure
ISO9809	OD229-20MPa-40L	229 mm	40 L	20 MPa
ISO9809	OD229-20MPa-50L	229 mm	50 L	20 MPa
EN ISO9809	OD232-23MPa-47L	232 mm	47 L	23 MPa
ISO9809	OD229-30MPa-50L	229 mm	50 L	30 MPa
EN ISO9809	OD267-20MPa-80L	267mm	80 L	20 MPa
ISO9809	OD267-30MPa-80L	267mm	80 L	30 Mpa

### Fire-fighting gas cylinder ( CO<sub>2</sub> )

Standard	Type	Outer diameter	Water capacity	Working pressure
GB5099	WZA267-15MPa-68L/67.5L	267 mm	67.5 L/68 L	15 MPa
EN ISO9809	OD267-15MPa-68L/67.5L	267 mm	67.5 L/68 L	15 MPa
EN ISO9809	OD267-20MPa-68L	267 mm	68 L	20 MPa
EN ISO9809	OD267-30MPa-68L	267 mm	68 L	30 MPa
EN ISO9809	OD267-20MPa-80L	267 mm	80 L	20 MPa
EN ISO9809	OD267-30MPa-80L	267 mm	80 L	30 MPa
EN ISO9809	OD356-20MPa-140L	356 mm	140 L	20 Mpa
EN ISO9809	OD356-30MPa-140L	356 mm	140 L	30 Mpa

## Shipment



Shipment



Plastic net



Carton box



Pallet



Full Container

Tel : +86-10-64709959 E-mail : sales@sinoCleansky.com

Beijing SinoCleansky Technologies Corp.



## High Pressure Seamless Aluminum Gas Cylinder

SinoCleansky manufactures aluminum gas cylinder with a wide range, and serves customers in major gas market, including medical gas for life support, beverage gas, industrial gas, high purity gas, specialty gas, etc. Cylinders are manufactured under standard GB11640, ISO7866, EN ISO7866(TPED),DOT-3AL ,etc.

### Products features

- Material: high strength aluminum alloy 6061.
- Internal treatments: corrosion resistance
- Weight: 40% weight reduction than steel cylinders.
- Wide range line:
  - Outside diameter: 89mm – 250mm
  - Water capacity: 0.5L – 50L
  - Working pressure: 12.4MPa, 13.9MPa, 15MPa, 15.4MPa, 20MPa, etc.

### Products classification

- Medical oxygen aluminum cylinder
- Beverage gas aluminum cylinder
- Industrial gas aluminum cylinder
- cylinder for high purity gas
- cylinder for specialty gas
- coating cylinder for corrosive gas ( H<sub>2</sub>S, SO<sub>2</sub>, etc. )



### Main Products for Medical Oxygen

Standard	Type	Outer diameter	Water capacity	Working pressure
ISO7866	EN111mm-2.0L-20MPa	111 mm	2 L	20 MPa
ISO7866	EN203mm-12.0L-15MPa	203 mm	12 L	15 MPa
ISO7866	EN250-50.0L-20MPa	250 mm	50 L	20 MPa
DOT-3AL	M009	111 mm	1.7 L	2015Psi
DOT-3AL	MD15	111 mm	2.8 L	2015Psi
DOT-3AL	ME24	111 mm	4.6 L	2015Psi
DOT-3AL	M060	184 mm	10.7 L	2219Psi
DOT-3AL	M122	203 mm	21.4 L	2219Psi





### Main Products for Beverage carbon dioxide (CO<sub>2</sub>)

Standard	Type	Outer diameter	Water capacity	Working pressure
DOT-3AL	LWH203-13.4L-12.4MPa (C020/B20)	203 mm	13.4 L	12.4 MPa
ISO7866	LWH204-13.4L-20MPa	204 mm	13.4 L	20 MPa



### Main Products for Industrial gas

Standard	Type	Outer diameter	Water capacity	Working pressure
ISO7866	159-10L-15MPa	159 mm	10 L	15 MPa
ISO7866	203-20L-15MPa	203 mm	20 L	15 MPa
ISO7866	232-30L-15MPa	232 mm	30 L	15 MPa
ISO7866	250-50L-15MPa	250 mm	50 L	15 MPa
ISO7866	204-20L-20MPa	204 mm	20 L	20 MPa
ISO7866	250-50L-20MPa	250 mm	50 L	20 MPa
DOT-3AL	250-46.4L-2219Psi	250 mm	46.4 L	2219Psi



SinoCleansky assures you with guaranteed delivery, approved quality service:

- 📦 Cylinder with corrosion-resistant feature after special inner wall treatment, and are widely used for high purity gases, corrosive gases, and electronic-grade gases.
- 📦 Cylinder thread and color are produced according to client's request.
- 📦 We also can integrate the valve and regulator to couple with cylinder under client's requirements.

### Shipment





SinoCleansky  
Gas Container & Solution



# Welding and Cutting Cylinder

“All the cylinders you need for the welding and cutting”

## Acetylene cylinder

Manufacturing std: GB11638, ISO3807, EN13322, DOT-8AL

Outer diameter: 101mm - 260mm etc

Water capacity: 2L - 60L



### Typical types

Standard	Type	Outer diameter	Water capacity	Filling pressure
GB11638	RYL250-40	258 mm	40 L	1.56 Mpa
ISO3807	ISO-OD250-40L	258 mm	40 L	1.6 Mpa
EN13322	EN13322-OD260-40L	260 mm	40L	1.5 MPa
EN13322	EN13322-OD310-60L	310 mm	60 L	1.5 MPa
DOT-8AL	MC10 (20CF)	101 mm	2 L	1.56 MPa
DOT-8AL	B40 (40CF)	158 mm	7.6 L	1.56 MPa
DOT-8AL	A250	254mm	43 L	1.56 MPa

★ Asbestos-free acetylene cylinder

## Detail Pictures



## Shipment





SinoCleansky  
Gas Container & Solution



## Gas Accessories

SinoCleansky through long-term research and development, launched a series of proportion of mixed gas cabinet products, it is composed of high precision gas pressure balance valve, check valve, proportion valve, gas tank, electrical components, etc. The product is high flow mixing device, which can meet the requirements of binary gas mixture ratio, production scale. It is the ideal accessory products.

### Gas Mixer



### Gas Valves (High Pressure Series)

SinoCleansky industrial gases valves are capable of withstanding high pressure and are used for Oxygen, Nitrogen, Argon, CO<sub>2</sub>, Helium, Acetylene, etc.

These valves are designed with a focus on durability and sealing to ensure no leakage under high pressure conditions. They are typically made of reinforced metals such as stainless steel or alloy steel to meet the challenges of high pressures and corrosive substances.



### Gas Valves (Cryogenic Series)

SinoCleansky cryogenic valves include a wide range of types, each with its own unique design and application. Common ones include cryogenic ball valves, cryogenic globe valves, cryogenic butterfly valves, cryogenic safety valves, cryogenic gate valves etc., widely applied for LOX, LIN, LAr, LCO<sub>2</sub>, LNG, etc.





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# Fire-fighting Series Gas Cylinder

SinoCleansky Firefighting Series Gas Cylinder covers **CO<sub>2</sub> Cylinder**, **FM200/NOVEC1230 Cylinder** and **SCBA Cylinder**.



## CO<sub>2</sub> gas cylinder

SinoCleansky can supply CO<sub>2</sub> cylinders with TPED certification, as well as CO<sub>2</sub> cylinders with Lloyd's Classification Society Certification. We can match your demand on both land and marine fire protection system.

### Specifications

Manufacturing std: GB5099, ISO9809, EN ISO9809 (TPED)

Water capacity: 67.5L / 68L / 80L / 140L

Working pressure: 15MPa, 20MPa, 30MPa

Outer diameter: 267mm



### Typical types for CO<sub>2</sub> cylinder

Standard	Type	Outer diameter	Water capacity	Working pressure
GB5099	WZA267-15-68L/67.5L	267 mm	67.5 L/68 L	15 MPa
EN ISO9809	OD267-15-68L/67.5L	267 mm	67.5 L/68 L	15 MPa
EN ISO9809	OD267-20-68L	267 mm	68 L	20 MPa
EN ISO9809	OD267-30-68L	267 mm	68L	30 MPa
EN ISO9809	OD267-20-80L	267 mm	80L	20 MPa
EN ISO9809	OD267-30-80L	267 mm	80L	30 MPa
EN ISO9809	OD356-20-140L	356mm	140L	20Mpa
EN ISO9809	OD356-30-140L	356mm	140L	30Mpa



SinoCleansky  
Gas Container & Solution



## FM200/NOVEC1230 cylinder

Welded FM200 and NOVEC1230 cylinders have the advantages of safety, lightweight, clear stamping, consistent height and elegant appearance.

### Specifications

Manufacturing std: EN13322, DOT-4BW

Outer diameter: 228mm - 462mm etc

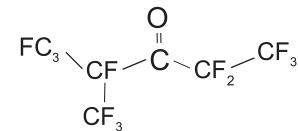
Water capacity: 16L - 240L



### Typical types for FM200/NOVEC1230 cylinder

Standard	Type	Outer diameter	Water capacity	Working pressure
EN13322	EN228.6-16.6L-42 Bar	228.6 mm	16.6 L	42 Bar
EN13322	EN324-52L-42 Bar	324 mm	52 L	42 Bar
EN13322	EN450-240L-42 Bar	450 mm	240 L	42 Bar
DOT4BW	OD406-52L-500 Psi	406 mm	52 L	500 Psi
DOT4BW	OD406-106L-500 Psi	406 mm	106 L	500 Psi
DOT4BW	OD406-180L-500 Psi	406 mm	180 L	500 Psi

### SinoCleansky can also provide Fire Protection Fluid -----(Perfluorinated Hexanone 1230)



## SCBA cylinder

The composite cylinders are made by aluminum liner fully wrapped with carbon fiber, which are lightweight and ideally suited for using as firefighter's self-contained breathing apparatus(SCBA).

### Specifications

Manufacturing Standard: EN12245, DOT and GB28053.

Outside diameter: 109mm, 139mm, 157mm, etc.

Water capacity: 2.0L-12L

Working pressure: 300Bar

### Typical types for SCBA cylinder

Standard	Type
EN12245	EN4.7L-30MPa
EN12245	EN6.8L-30MPa
EN12245	EN9.0L-30MPa
DOT	DOT4.7L-4500Psi
DOT	DOT6.8L-4500Psi
DOT	DOT9.0L-4500Psi
GB28053	6.8L-30MPa
GB28053	9L-30MPa
GB28053	12L-30MPa






LOX  
LIN  
LAR  
LCO  
LNG



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## T50 ISO Tank for Liquid Chlorine and Ammonia

SinoCleansky T50 ISO Tanks cover a wide range of filling medium, incl R22, R124, R12, R21, R152A, R40, R114, R12B1, R142B, R500, R134A, Propene, Ethylene, LPG, Chlorine ( $\text{Cl}_2$ ),  $\text{LSO}_2$ ,  $\text{NH}_3$  and so on.

 Detail pictures show



## Liquid Chlorine Supply

Thanks to our expertise, SinoCleansky cooperates with the top chemical factories to supply high quality chlorine filled in cylinders. We have proven experience in handling the dangerous cargo shipping and operation, and have been supplying our clients of water treatment sector all over the world, especially middle east and Africa.





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# Chlorine and Ammonia Cylinder

## Chlorine cylinder & Ammonia cylinder

Manufacturing std: ISO9809 / GB5100 / EN

Outer diameter: 100mm - 800mm etc

Water capacity: 40L - 840L

Working pressure: 2MPa, 3MPa

Optional: with or without flange design



### Typical types

Standard	Water capacity	Diameter	Working pressure	Media
GB5100 / EN	52L	232mm	15MPa	65kgs Liquid Chlorine
GB5100 / EN	128L	350mm	2 MPa	160kgs Liquid Chlorine
GB5100 / EN	400L	600 mm	2 MPa	500kgs Liquid Chlorine
GB5100 / EN	840L	824 mm	2 MPa	1000kgs Liquid Chlorine
GB5100 / EN	40L	250 mm	3 MPa	21kgs Liquid Ammonia
GB5100 / EN	100L	350 mm	3 MPa	53kgs Liquid Ammonia
GB5100 / EN	130L	350 mm	3 MPa	68.9kgs Liquid Ammonia
GB5100 / EN	400L	600 mm	3 MPa	212kgs Liquid Ammonia
GB5100 / EN	800L	800 mm	3 MPa	424kgs Liquid Ammonia

### Detail pictures



Name plate



Siphon



Without flange



With flange

## Shipment





**SinoCleansky**

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**SinoCleansky**



**CNGLNG**



**Victank Microbulk**

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