

全球气体储运装备制造者
技术引领·安全可靠·绿色未来

Global Manufacturer of Gas Storage and Transportation Equipment
Technology-Driven, Safe and Reliable, Green Future

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天海工业
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钢瓶系列产品

STEEL CYLINDER SERIES PRODUCTS

全系列 | 高品质 | 安全可靠

Complete series | High quality | Safe and reliable



专业的气体储运装备制造服务商

Professional manufacturer and service provider of gas storage and transportation equipment

与国际标准接轨、按国际标准生产、创国际先进水平

Align with international standards, manufacture products according to international standards, and achieve international advanced levels

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公司简介 Company Profile

北京天海工业有限公司（以下简称“天海工业”）是北京京城机电控股有限责任公司所属北京京城机电股份有限公司（简称京城股份，H股证券代码00187，A股证券代码600860）主要骨干企业，是拥有七个专业气体储运装备生产基地（天海氢能、上海天海、天津天海、宽城天海、明晖天海、天海低温、江苏天海）及一个美国公司的集团公司。天海工业及下属子公司具有A2级高压容器、B1级无缝气瓶、B2级焊接气瓶、B3级纤维缠绕气瓶、B4级低温绝热气瓶、B5级溶解乙炔气瓶、C2级罐式集装箱、D级中低压容器的设计和生产资质。可生产800余个品种规格的钢质无缝气瓶、玻璃纤维环向缠绕气瓶、碳纤维全缠绕复合气瓶（含三型瓶、四型瓶、呼吸器）、无石棉填料乙炔瓶、焊接气瓶、焊接绝热气瓶（含车用）、固定式压力容器、低温罐式集装箱、船用罐、CNG/LNG/H2车载供气系统及加气站等系列产品，广泛应用于汽车、化工、消防、医疗、石油、能源、城建、食品、冶金、机械、电子等行业。

天海工业始终坚持“与国际标准接轨、按国际标准生产、创国际先进水平”的理念，天海工业及下属子公司取得了ISO9001和IATF16949质量管理、ISO14001环境管理和ISO45001职业健康安全管理体系认证，并取得三十余个国际认证、建立了完备高效的产品销售网络和售后服务体系，产品覆盖全国，远销世界五大洲四十多个国家和地区。天海工业以具有凝聚力的企业文化、较强的制造能力、切实前瞻的战略决策和全球化的发展格局，全力实现“打造全球领先的气体储运装备制造及服务企业”的奋斗目标。

天海工业一直秉承“诚信、敬业、学习、创新，志在一流”的企业精神，以安全可靠的产品和优质的服务，树立了良好的企业形象，先后荣获中国百强企业、北京市十佳外商投资企业、北京市高新技术企业，中国金属压力容器制造行业排头兵企业和全国“五一”劳动奖状、“北京市专精特新小巨人企业”、“国家级专精特新小巨人企业”等荣誉称号。

Beijing Tianhai Industry Co., Ltd. (hereinafter referred to as "Tianhai Industry") is a key enterprise under Beijing Jingcheng Electromechanical Holding Co., Ltd., which is a subsidiary of Beijing Jingcheng Electromechanical Co., Ltd. (hereinafter referred to as "Jingcheng Co., Ltd.", H-share securities code 00187, A-share securities code 600860). It is a group company with seven professional gas storage and transportation equipment production bases (Tianhai Hydrogen Energy, Shanghai Tianhai, Tianjin Tianhai, Kuancheng Tianhai, Minghui Tianhai, Tianhai Cryogenic, Jiangsu Tianhai) and one American company. Tianhai Industry and its subsidiaries possess design and production qualifications for Class A2 high-pressure vessels, Class B1 seamless gas cylinders, Class B2 welded gas cylinders, Class B3 fiber-wound gas cylinders, Class B4 cryogenic insulated gas cylinders, Class B5 dissolved acetylene gas cylinders, Class C2 tank containers, and Class D medium and low-pressure vessels. They can produce over 800 varieties and specifications of steel seamless gas cylinders, glass fiber hoop-wound gas cylinders, carbon fiber fully wound composite gas cylinders (including Type III, Type IV, and breathing apparatus), asbestos-free filler acetylene cylinders, welded gas cylinders, welded insulated gas cylinders (including for vehicles), fixed pressure vessels, cryogenic tank containers, marine tanks, CNG/LNG/H2 on-board gas supply systems, and gas filling stations, which are widely used in industries such as automotive, chemical, fire protection, medical, petroleum, energy, urban construction, food, metallurgy, machinery, and electronics.

Tianhai Industry has always adhered to the concept of "aligning with international standards, producing according to international standards, and creating international advanced levels". Tianhai Industry and its subsidiaries have obtained ISO9001 and IATF16949 quality management, ISO14001 environmental management, and ISO45001 occupational health and safety management system certifications, as well as more than 30 international certifications. They have established a complete and efficient product sales network and after-sales service system, with products covering the whole country and exported to more than 40 countries and regions on five continents. Tianhai Industry, with its cohesive corporate culture, strong manufacturing capabilities, practical forward-looking strategic decisions, and global development pattern, is fully committed to achieving the goal of "building a globally leading gas storage and transportation equipment manufacturing and service enterprise".

Tianhai Industry has always adhered to the corporate spirit of "integrity, dedication, learning, innovation, and aiming for excellence". With safe and reliable products and excellent services, it has established a good corporate image and has successively won honorary titles such as China's Top 100 Enterprises, Beijing's Top Ten Foreign-invested Enterprises, Beijing High-tech Enterprises, China's Leading Enterprise in Metal Pressure Vessel Manufacturing Industry, National "May 1st" Labor Award, "Beijing Specialized, Precise, Unique, and Innovative Small Giant Enterprise", and "National Specialized, Precise, Unique, and Innovative Small Giant Enterprise".



企业精神 Corporate spirit

诚信、敬业、学习
创新、志在一流

Integrity, Dedication,
Learning, Innovation,
Aiming for Excellence



企业理念 Corporate Philosophy

责任创造价值
诚信树立形象

Responsibility creates
value, and integrity builds
image



企业愿景 Corporate Vision

成为跻身全球气体储运
装备行业最前列的公司

Become a company that ranks
among the forefront of the
global gas storage and trans-
portation equipment industry

公司生产实力 Production strength of The company

天海工业深耕钢瓶制造数十年，拥有钢制无缝气瓶制造车间8.4万余平米，大中小型管制、冲拔高压气瓶生产线9条，及一条工业先进的内壁研磨及后处理特气瓶生产线，配备成熟精良的专业化生产设备，搭载专业自动化设备，整套生产线运行稳定、工艺成熟。

Tianhai Industry has been deeply engaged in steel cylinder manufacturing for decades, with an 84,000-square-meter workshop dedicated to seamless steel gas cylinders. The company operates nine production lines for large, medium, and small regulated, drawn, and high-pressure cylinders, along with an advanced industrial-grade internal wall grinding and post-processing specialty cylinder production line. Equipped with mature and high-quality specialized production machinery and professional automated equipment, the entire production line operates stably with mature processes.



企业荣誉 Corporate Honors

天海工业及下属子公司先后取得了 ISO 9001 和 IATF 16949 质量管理、ISO 14001 环境管理和 ISO 45001 职业健康安全管理体系认证，并取得三十余个国际认证、建立了完备高效的产品销售网络和售后服务体系，产品覆盖全国，远销世界五大洲四十多个国家和地区。

天海工业一直秉承“诚信、敬业、学习、创新，志在一流”的企业精神，以安全可靠的产品和优质的服务，树立了良好的企业形象，先后荣获中国百强企业、北京市十佳外商投资企业、北京市高新技术企业，中国金属压力容器制造行业排头兵企业和全国“五一”劳动奖状、“北京市专精特新小巨人企业”、“国家级专精特新小巨人企业”等荣誉称号。

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Tianhai Industry has always adhered to the corporate spirit of "integrity, dedication, learning, innovation, and striving for excellence". With safe and reliable products and high-quality services, it has established a good corporate image and has won honors such as China's Top 100 Enterprises, Beijing's Top 10 Foreign Invested Enterprises, Beijing's High tech Enterprise, China's Leading Enterprise in Metal Pressure Vessel Manufacturing Industry, and the National "May Day" Labor Award, "Beijing's Specialized, Refined, Unique and New Small Giant Enterprise", and "National Specialized, Refined, Unique and New Small Giant Enterprise".



企业资质 Business Qualification



工业气瓶介绍 Industrial Gas Cylinder Introduction

天海工业可生产800余种规格钢质无缝气瓶, 产品具有:

Tianhai Industry can produce over 800 specifications of seamless steel gas cylinders, including:

耐用性强:

钢材具有较高的强度和耐久性, 使得气瓶再长期使用过程中保持稳定的性能, 不易变形或破裂。

STRONG DURABILITY:

Steel has high strength and durability, ensuring that gas cylinders maintain stable performance during long-term use and resist deformation or rupture.

+

高工作压力:

气瓶能够承受极高的内部压力, 能够满足对高压气体储存和使用的严格要求;

HIGH WORKING PRESSURE:

Gas cylinders can withstand extremely high internal pressure, meeting the stringent requirements for high-pressure gas storage and use;

+

安全性高:

该材料具有良好的抗冲击和抗压能力, 能够有效防止气瓶在收到外部冲击时发生破裂, 确保使用过程中具有较高的安全性。

HIGH SAFETY:

The material possesses excellent impact and compression resistance, effectively preventing gas cylinders from rupturing under external impact during production. Through rigorous security testing and monitoring, it ensures a high level of safety during use.



应用场景 Application Scenarios



产品广泛适用于工业、化工、能源、城建、冶金及机械等领域

The product is widely used in various fields such as industry, chemical industry, energy, urban construction, metallurgy, and machinery

消防瓶介绍 Fire-fighting cylinder Introduction

钢质无缝消防气瓶采用高强度钢材一体制成，壁厚均匀、承压能力强，无焊缝隐患，相比焊接气瓶，彻底避免了焊接部位开裂、强度不足等安全问题，使用更加安全可靠。

气瓶由无缝钢管整体加工，不存在裂纹、气孔等焊接缺陷，耐腐蚀、抗老化，运行稳定、故障率低，使用寿命更长，大幅减少更换频次与运维成本，降低安全风险。产品工艺成熟，日常维护简单，密封性优异，可安全储存七氟丙烷洁净灭火剂。既能保证高压气体稳定储存、紧急时刻快速灭火，又不易发生气体泄漏，绿色无污染。

虽然无缝气瓶初期投入稍高，但安全性强、故障率低、寿命久、维护成本低，综合性价比更高，可有效提升消防系统稳定性与灭火保障能力。

The seamless steel fire-fighting gas cylinder is made of high-strength steel, with uniform wall thickness, strong pressure bearing capacity, and no hidden welding hazards. Compared with welded gas cylinders, it completely avoids safety issues such as cracking and insufficient strength in the welding area, and is safer and more reliable to use.

The gas cylinder is integrally processed from seamless steel pipe, free from welding defects such as cracks and pores, corrosion resistant, anti-aging, stable operation, low failure rate, and longer service life, which significantly reduces the replacement frequency, operation and maintenance costs, and reduces safety risks.

The product has mature technology, simple daily maintenance, excellent sealing performance, and can safely store heptafluoropropane clean fire extinguishing agent. It can ensure stable storage of high-pressure gas, rapid fire extinguishing in emergency situations, and is not prone to gas leakage, making it green and pollution-free.

Although seamless gas cylinders have a slightly higher initial investment, they have strong safety, low failure rate, long service life, low maintenance costs, and higher overall cost-effectiveness, which can effectively improve the stability and fire



应用场景 Application Scenarios



医用供氧器介绍 Medical oxygen supply device Introduction

天海工业开发的供氧器作为终端吸氧设备，罐装医用氧气后，可为家庭和医疗机构提供氧疗或急救用氧，可满足客户对于便携、高效和易操作等需求。供氧器由钢质无缝气瓶、阀门、浮标式氧气吸入器（氧气输出接口、安全阀、压力表、流量管、流量调节阀、潮化瓶）和鼻氧管组成。

The oxygen supply device developed by Tianhai Industry serves as a terminal oxygen supply equipment. After canning medical oxygen, it can provide oxygen therapy or emergency oxygen for households and medical institutions, can meet customers' needs for portability, efficiency, and ease of operation. The oxygen supply device consists of seamless steel gas cylinders, valves, and float type oxygen inhalers (oxygen output) It consists of interfaces, safety valves, pressure gauges, flow tubes, flow regulating valves, humidification bottles, and nasal oxygen tubes.



产品特点：

医用供氧器采用高压氧气气瓶，能够确保氧气高质量地供给患者，满足医疗急救和治疗需要。

Product features: The medical oxygen supply device adopts high-pressure oxygen cylinders, which can ensure high-quality oxygen supply to patients and meet the needs of medical emergency and treatment.

产品优势：

氧气浓度高、流量高、静音好。

医用供氧器的产品型号多样，无论是轻巧便携的2L氧气瓶，还是大容量的40L氧气瓶，都能满足不同用户的需求，每一个型号的氧气瓶都可提供客户定制服务，优秀的产品品质是天海一贯的坚持和追求。

There are various product models of medical oxygen supplies, whether it is lightweight and portable 2L oxygen cylinders or large capacity 40L oxygen cylinders, they can meet the needs of different users. Each model of oxygen cylinder can provide customized services for customers, and excellent product quality is Tianhai's consistent insistence and pursuit.

配件定制：

用户可以根据自已的需求选择适合的包装方式，如定制氧气瓶小推车、精致的帆布袋或气瓶包装箱等。这些定制化的包装不仅方便用户携带和存放氧气瓶，还能提升产品的整体美观度和实用性。

Customization of accessories: Users can choose suitable packaging methods according to their own needs, such as customized oxygen cylinder carts, exquisite canvas bags, or cylinder packaging boxes. These customized packaging not only make it convenient for users to carry and store oxygen cylinders, but also enhance the overall aesthetics and practicality of the product.

研磨瓶介绍 Grinding Cylinder Introduction

01. 制造优势:

天海工业作为专业的气瓶制造厂家，具备从管料内表面预处理、收底收口程序优化的条件。

Manufacturing advantage:

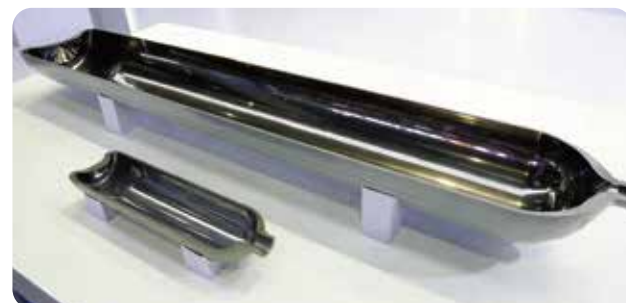
As a professional gas cylinder manufacturer, Tianhai Industry has the conditions for pre-treatment of the inner surface of the pipe material and optimization of the bottom and neck closing procedures.

02. 设备优势:

研磨设备为离心式研磨，优化气瓶轴线与主轴轴线夹角，磨料运动轨迹兼顾瓶底和瓶肩，底部和肩部研磨效果好。

Equipment advantages:

The grinding equipment is centrifugal grinding, optimizing the angle between the cylinder axis and the main shaft axis. The abrasive motion trajectory takes into account both the bottom and shoulder of the cylinder, and the grinding effect of the bottom and shoulder is good.



03. 工艺优势:

通过研磨料的粒径、形状及研磨时间的合理配比，保证产品研磨质量。采用去离子水清洗及高纯氮气烘干，逐支氨质谱检漏及抽真空置换等，保证产品后处理的指标。

Process advantage:

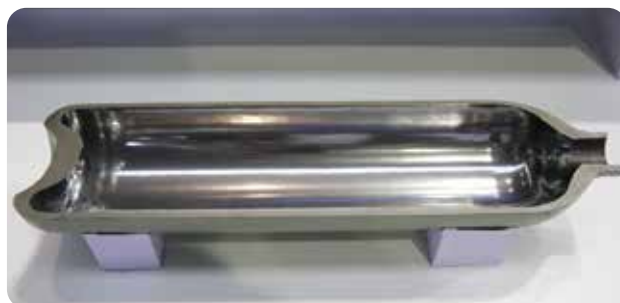
By reasonably proportioning the particle size, shape, and grinding time of the grinding material, the grinding quality of the product is ensured. Using deionized water cleaning and high-purity nitrogen drying, helium mass spectrometry leak detection and vacuum replacement are carried out one by one to ensure the post-treatment indicators of the product.

04. 供货优势:

具备特气气瓶的一站式供货能力，对于客户减少了中间转运环节，降低了转运成本，同时缩短了供应商管理环节。

Supply advantage:

With one-stop supply capability for special gas cylinders, it reduces intermediate transportation links for customers, lowers transportation costs, and shortens supplier management processes.



应用场景 Application scenarios



管制瓶产品参数GB/T 5099.1-2017											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diameter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	WGT90-00/01-X	凸底	90	2.4	30CrMo	15	1.2-2.2	295-465	2.0-3.0	√	√
2	WGA108-00/01-X	凹底	108	2.6	30CrMo	15	1.5-5.0	255-685	2.5-5.7	√	√
3	WGA133-00/01-X	凹底	133	3	30CrMo	15	2.5-10	290-900	4.1-11.1	√	√
4	WGA140-00/01-X	凹底	140	3.7	34CrMo4	20	4-13.4	390-1090	7.3-17.5	√	×
5	WGA140-30CrMo-00/01-X	凹底	140	3.6	30CrMo	15	3.4-10.5	340-880	6.5-14.5	√	√
6	WZA140-0001-X	凹底	140	3.7	37Mn	20	3-13.4	300-1090	6.1-17.5	√	√
7	WGA165-34CrMo-00/01-X	凹底	165	4	34CrMo4	15	7-12	490-750	12-17.1	√	√
8	WGA178-00/01-X	凹底	178	4.6	30CrMo	20	7-27	420-1320	12-32.5	√	√
9	WGA203-20-00/01-X	凹底	203	5.4	34CrMo4	20	11-35	500-1340	18.5-44.5	√	√
10	WZA203-20-00/01-X	凹底	203	5.4	37Mn	20	11-35	500-1340	18.5-44.5	√	√
11	WGA229-20-00/01-X	凹底	229	5.2	30CrMo	20	20-52	675-1540	27-55	×	×
12	WGA229-30-00/01-X	凹底	229	8.2	34CrMo4	30	20-50	710-1570	41-83	√	×
13	WGA229-34Cr-20-00/01-X	凹底	229	5.7	34CrMo4	20	20-52	675-1545	28-59	√	×
14	WGA229-34CrMo-00/01-X	凹底	229	5.4	34CrMo4	20	19-50	650-1480	26-55	×	×
15	WGA229-P-00/01-X	凹底	229	6.2	30CrMo	20	20-52	675-1560	33-66	√	√
16	WGS229-25-00/01-X	双头	229	8.2	30CrMo	25	20-55	795-1810	48-104	×	×
17	WZA229-00/01-X	凹底	229	6.2	37Mn	20	20-52	675-1560	33-66	√	√
18	WZA229-37Mn-20-00/01-X	凹底	229	5.7	37Mn	20	20-52	675-1545	28-59	√	×
19	WZA229-Mn-00/01-X	凹底	229	5.4	37Mn	15	19-50	632-1485	26-55	√	√
20	WGA232-00/01-X	凹底	232	5.4	30CrMo	15	36-50	1085-1450	43-55	√	√
21	WZA232-00/01-X	凹底	232	5.4	37Mn	15	20-50	670-1450	28.5-55	√	√
22	WZA232-Mn-00/01-X	凹底	232	5	37Mn	15	20-50	670-1450	28.5-55	√	√
23	WGA267-00/01-X	凹底	267	6.6	30CrMo	17.2	50-82.5	1140-1790	61-93	√	√
24	WGA267-00/01-30CrMo-X	凹底	267	6.0	30CrMo	15	25-82.5	650-1780	39-93	√	√
25	WZA267-00/01-X	凹底	267	5.8	37Mn	15	34-82	810-1760	43-84	√	√
26	WZA267-20-00/01-X	凹底	267	6.5	37Mn	20	30-105	740-2240	42-115	√	√
27	WZA267-Mn-00 (01)-X	凹底	267	5.5	37Mn	15	30-105	730-2205	37-99	√	√

管制瓶产品参数GB/T 5099.1-2017											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diameter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
28	WGA279-00/01-X	凸底	279	7.2	30CrMo	20	50-100	1070-1980	66-116	√	√
29	WGA279-17.2-00/01-X	凹底	279	6	30CrMo	17.2	70-90	1395-1765	71-86	×	×
30	WGA279-17.2-30CrMo-00/01-X	凹底	279	7	30CrMo	17.2	70-105	1440-2080	83-117	√	√
31	WGA279-17.2-34Cr-00/01-X	凹底	279	5.5	34CrMo4	17.2	38.5-110	835-2120	43-102	×	×
32	WGA279-23.2-00/01-X	凹底	279	8.6	30CrMo	23.2	50-90	1110-1850	81-124	×	×
33	WGA279-23.2-30CrMo-00/01-X	凹底	279	7.8	30CrMo	23.2	50-90	1100-1825	73-116	×	×
34	WGA279-23.2-Cr-00/01-X	凹底	279	7	30CrMo	23.2	38-110	840-2165	52.5-125	×	×
35	WGS279-20-00/01-X	凹底	279	7	30CrMo	20	70-100	1480-2050	78-108	×	×
36	WGS279-25-00/01-X	凹底	279	8.6	30CrMo	25	50-80	1140-700	71-108	×	×
37	WZA279-17.2-Mn-00/01-X	凹底	279	5.8	37Mn	17.2	38.5-110	840-2125	46-104	√	×
38	WGA325-17.2-00/01-X	凹底	325	7	34CrMo4	17.2	40-120	670-1740	55-122	×	×
39	WGA325-23.2-00/01-X	凹底	325	9.5	30CrMo	23.2	70-150	1120-2235	109-195	√	×
40	WGA325-35CrMo-00/01-17.2-X	凹底	325	6.5	35CrMo	17.2	40-120	680-1750	55-122	×	×
41	WGA325-Cr-20-00/01-X	凹底	325	7.8	30CrMo	20	60-150	960-2170	78-161	×	×
42	WGA356-20-00/01-X	凹底	356	7.7	34CrMo4	20	80-150	1040-1820	91-149	×	×
43	WGA356-30-00/01-X	双头	356	11.7	34CrMo4	30	80-150	1100-1920	140-231	×	×
44	WZA356-8-00/01-X	凹底	356	4.2	37Mn	8	70-150	900-1755	56-94	√	√
45	WGA406-20-00/01-X	凹底	406	8.8	34CrMo4	20	80-150	840-1440	102-161	×	×
46	WGA406-30-00/01-X	凹底	406	13.3	34CrMo4	30	80-150	880-1500	136-215	×	×

管制瓶产品参数GB/T 5099.3-2017

序号 NO.	型号/图号 Type/Drawing	结构 structure	外径 Outside diameter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	WMA140-00/01-37Mn-X	凸底	140	3.6	37Mn	15	3.0-13.4	300-1090	6.1-17.5	√	√
2	WMA165-00/01-X	凹底	165	4.3	37Mn	15	7-20	490-1180	12-26	√	√
3	WMA219-Mn-00/01-X	凹底	219	5	37Mn	15	19-47	680-1520	24-49	√	√
4	WMA219-00/01-X	凹底	219	5.7	37Mn	15	19-47	685-1525	27-55	√	√

管制瓶产品参数企标

序号 NO.	型号/图号 Type/Drawing	结构 structure	外径 Outside diameter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	WGA229-35-00/01	凸底	229	3.6	37Mn	15	3.0-13.4	300-1090	6.1-17.5	√	√
2	WGS229-35-00/01-X	凹底	165	4.3	37Mn	15	7-20	490-1180	12-26	√	√
3	WZA203-Mn-00/01-X	凹底	203	5	37Mn	15	19-47	680-1520	24-49	√	√
4	WZA229-20-00/01-A	凹底	229	5.7	37Mn	15	19-47	685-1525	27-55	√	√

管制瓶产品参数GB/T 5099.1-2017-CCS

序号 NO.	型号/图号 Type/Drawing	结构 structure	外径 Outside diameter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	WZA267-00/01-CCS	凸底	267	6.6	37Mn	15	50-82	1140-1780	61-92	×	×
2	WGA356-34CrMo-00/01-CCS	凹底	356	7.7	34CrMo4	15	100-120	1270-1485	112-127	×	×
3	WGA325-34CrMo-00/01-CCS	凹底	325	7	34CrMo4	15	70-120	1090-1760	83-125	×	×
4	WGA356-20-CCS-00/01	凹底	356	7.7	34CrMo4	20	80-150	1040-1820	91-149	×	×
5	WZA229-Mn-00/01-CCS	凹底	229	5.4	37Mn	15	19-50	632-1485	26-55	×	×
6	WGA279-20-00/01	凹底	279	7.8	30CrMo	20	50-90	1100-1825	73-116	×	×
7	WGA325-20-00/01-CCS	凹底	325	7	34CrMo4	20	40-150	685-2155	56-146	×	×

管制瓶产品参数GB/T 5099.1-2017-CCS

序号 NO.	型号/图号 Type/Drawing	结构 structure	外径 Outside diameter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	WMA140-00/03-Mn-1	凸底	140	4	37Mn	15	4-13.4	390-1090	7.3-17.0	√	√
2	WMA219-00/01-CCS	凹底	219	5.7	37Mn	15	19-47	685-1525	27-55	√	√

管制瓶产品参数ISO 9809-1

序号 NO.	型号/图号 Type/Drawing	结构 structure	外径 Outside diameter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	ISO90A-138-00	凹底	90	2.4	30CrMo	13.8	1.78	400	2.6	√	√
2	ISO90A-160-00	凹底	90	2.4	30CrMo	16	0.8-2	225-435	1.7-2.9	√	√
3	ISO108A-154-00	凹底	108	2.6	30CrMo	15.4	4.64	640	5.5	√	√
4	ISO108A-160-00	凹底	108	2.6	30CrMo	16	1.62	265	2.8	√	√
5	ISO108-CrMo-00	凹底	108	2.6	30CrMo	20	1.2-5	220-690	2.3-6	√	√
6	ISO108-CrMo-02	凹底	108	2.6	30CrMo	15	1.6-3	265-430	2.7-4.1	√	√
7	ISO108-CrMo-04	球底	108	2.6	30CrMo	20	1.2-3	235-445	2.2-3.8	√	√
8	ISO114-CrMo-00	球底	114	3.2	30CrMo	20	2.8-4	410-545	4.5-5.8	√	√
9	ISO133-CrMo-00	球底	133	2.5	30CrMo	13.7	2.36-6.7	280-635	5-9.6	√	√
10	ISO140-CrMo-00	凹底	140	3.6	30CrMo	15	3.5-10.7	350-890	6.6-14.7	√	√
11	ISO140-CrMo-01	凹底	140	4.5	30CrMo	20	5-10	460-840	8.3-14	√	√
12	ISO140-CrMo-02	球底	140	4.8	30CrMo	30	4.5-11	440-945	8.5-16.5	×	×
13	ISO140-34CrMo-00	凹底	140	3.6	34CrMo4	20	3.4-13.5	340-1100	6.5-17.7	√	√
14	ISO140-34CrMo-02	凹底	140	2.8	34CrMo4	20	3.4-10.5	330-840	4.3-10.5	×	×
15	ISO140-34CrMo-03	球底	140	3.6	34CrMo4	20	5-10.7	465-885	7.5-13.5	√	√
16	ISO140-Mn-00	凹底	140	4	37Mn	20	3.4-13.5	340-1100	6.5-17.7	√	√

管制瓶产品参数ISO 9809-1											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
17	ISO140-Mn-01	凹底	140	4	37Mn	1.7	3.4-13.5	340-1100	6.5-17.7	×	×
18	ISO152-CrMo-00	凹底	152	3.7	30CrMo	20	7-16	545-1110	11-21	√	√
19	ISO165-34CrMo-00	凹底	165	4.6	34CrMo4	23	7-15	490-915	12-20.5	√	√
20	ISO165-CrMo-01	凹底	165	4.3	34CrMo4	20	7-15	490-915	12-20.5	√	√
21	ISO165-Mn-00	凹底	165	4.6	37Mn	20	7-15	490-915	12-20.5	√	√
22	ISO178-34CrMo-00	凹底	178	4.6	34CrMo4	20	8-16	465-830	13-21	√	√
23	ISO178-34CrMo-01	凹底	178	3.6	34CrMo4	20	10-16	550-815	11.5-16	×	×
24	ISO178-34CrMo-02	球底	178	4	34CrMo4	15	10.2-20	576-1005	13.1-20.5	√	√
25	ISO178A-154-00	凹底	178	4	30CrMo	15.4	7-21.6	420-1085	12-27	√	√
26	ISO178-CrMo-00	凹底	178	4.6	30CrMo	20	10-16.8	555-870	16.3-23.4	√	√
27	ISO178-CrMo-01	凹底	178	4	30CrMo	15	5-18.8	325-940	9-21	√	√
28	ISO178-CrMo-02	球底	178	4	30CrMo	15	10.7-20	598-1005	13.5-20.5	√	√
29	ISO178-CrMo-04	凹底	178	3.8	30CrMo	17.4	7-27	420-1310	10-26.5	√	√
30	ISO203-CrMo-00	凹底	203	5.2	34CrMo4	20	10-40	460-1510	17.5-47	√	√
31	ISO203-CrMo-01	凹底	203	5.2	34CrMo4	1.7	10-40	460-1510	17.5-47	×	×
32	ISO203-CrMo-02	凹底	203	4.6	30CrMo	15	13.4	580	18	√	√
33	ISO203-Mn-00	凹底	203	5.6	37Mn	20	10-37	460-1415	17.5-46.8	√	√
34	ISO203-Mn-01	凹底	203	5.4	37Mn	20	10-40	465-1520	17.5-47	√	√
35	ISO204-34CrMo-00	凹底	204	4.1	34CrMo4	20	10-40	445-1455	13-36.5	×	×
36	ISO219B-150-00	凹底	219	5.7	37Mn	15	19-47	685-1525	27-55	√	√
37	ISO229-34CrMo-02	凹底	229	5.5	34CrMo4	23	19-50	650-1485	26-56	×	×
38	ISO229-34CrMo-04	凹底	229	5.5	34CrMo4	20	22-50	725-1485	30-56	×	×
39	ISO229A-200-00	凹底	229	6.2	30CrMo	20	20-52	675-1560	32-66	√	√
40	ISO229-34CrMo-09	凹底	229	8.2	34CrMo4	30	20-55	710-1710	42-92	√	√
41	ISO229-34CrMo-10	凹底	229	5.5	34CrMo4	20	20-55	670-1625	27-61.5	×	×
42	ISO229-34CrMo-11	凹底	229	5.7	34CrMo4	20	20-52	670-1545	28-59	√	√
43	ISO229-Mn-01	凹底	229	5.4	37Mn	15	20-50	660-1485	27-55	√	√

管制瓶产品参数ISO 9809-1											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
44	ISO232-34CrMo-01	凹底	232	6.0	34CrMo4	23	20-55	340-1100	675-1595	×	×
45	ISO232-34CrMo-02	凹底	232	5.4	34CrMo4	20	30-52	545-1110	930-1510	×	×
46	ISO232-Mn-00	凹底	232	5.4	37Mn	15	20-52	490-915	670-1510	√	√
47	ISO232-Mn-01	凹底	232	5.4	37Mn	16.67	20-52	490-915	670-1510	√	√
48	ISO232-Mn-02	凹底	232	5.4	37Mn	15	20-52	490-915	670-1510	√	√
49	ISO267-34CrMo-01	凹底	267	9.8	34CrMo4	30	60-82	465-830	1430-1890	×	×
50	ISO267-CrMo-00	凹底	267	6.6	30CrMo	20	50-82.5	550-815	1140-1790	√	√
51	ISO267-CrMo-02	凹底	267	6.6	30CrMo	20	50-82.5	576-1005	1170-1820	√	√
52	ISO267A-176-00	凹底	267	6.3	30CrMo	17.6	50-82.5	420-1085	1140-1790	√	√
53	ISO267-Mn-01	凹底	267	6.5	37Mn	15	40-82.5	555-870	940-1790	√	√
54	ISO267-Mn-04	凹底	267	5.7	37Mn	15	34-82.5	325-940	810-1770	√	√
55	ISO267-Mn-05	凹底	267	5.7	37Mn	15	34-82.5	598-1005	810-1770	√	√
56	ISO267-Mn-06	凹底	267	5.7	37Mn	15	34-82.5	420-1310	810-1770	√	√
57	ISO267-Mn-08	凹底	267	5.7	37Mn	15	34-82.5	460-1510	810-1770	√	√
58	ISO267-Mn-09	凹底	267	5.7	37Mn	15	34-82.5	460-1510	810-1770	√	√
59	ISO267-Mn-11	凹底	267	6.5	37Mn	20	30-105	580	740-2240	√	√
60	ISO279-CrMo-00	凹底	279	7.8	30CrMo	23.2	50-100	460-1415	1100-2000	×	×
61	ISO279-CrMo-01	凹底	279	6.0	30CrMo	17.2	50-100	465-1520	1045-1945	√	√
62	ISO325-30CrMo-01	凹底	325	9.5	30CrMo	20	40-150	445-1455	710-2235	√	√
63	ISO325-30CrMo-02	凹底	325	7.8	30CrMo	20	60-150	685-1525	960-2170	√	√
64	ISO325-34CrMo-03	双头	325	15.5	34CrMo4	35	100-130	650-1485	1740-2190	√	√
65	ISO356-34CrMo-01	球底	356	10.1	34CrMo4	25	100-150	725-1485	1345-1915	×	×
66	ISO356-34CrMo-02	双头	356	10.1	34CrMo4	25	140-165	675-1560	1880-2145	×	×
67	ISO356-34CrMo-04	凹底	356	7.7	34CrMo4	20	90-150	710-1710	1150-1815	×	×
68	ISO356-34CrMo-05	凹底	356	7.7	34CrMo4	20	90-150	670-1625	1185-1850	×	×
69	ISO356-34CrMo-06	凹底	356	7.7	34CrMo4	20	80-150	670-1545	1050-1825	×	×
70	ISO356-34CrMo-09	球底	356	11.7	34CrMo4	30	90-150	660-1485	1250-1960	×	×

管制瓶产品参数ISO 9809-1											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diami- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
71	ISO356-34CrMo-11	球底	356	7.2	34CrMo4	20	47-180	720-2190	57-160	×	√
72	ISO406-CrMo-00	凹底	406	5.9	30CrMo	6	80-180	825-1650	75-127	√	√
73	ISO406-CrMo-01	凹底	406	5.9	30CrMo	10	80-180	825-1650	72-126	√	√
74	ISO406-CrMo-02	凹底	406	5.9	30CrMo	6	80-180	825-1650	73-128	√	√
75	ISO406-CrMo-03	凹底	406	5.9	30CrMo	10	80-230	825-2060	75-154.5	√	√
76	ISO406-CrMo-04	凹底	406	5.9	30CrMo	10	80-230	825-2060	75-154.5	√	√
77	ISO406-Mn-01	凹底	406	5.4	37Mn	10	80-230	805-2035	70-144	√	√
78	ISO406-34CrMo-01	凹底	406	8.3	34CrMo4	20	80-200	850-1870	100-195	×	√

管制瓶产品参数ISO 9809-2											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diami- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	ISO140-34CrMo-05	凹底	140	4	34CrMo4	30	3.4-13.5	340-1105	6.8-17.8	×	×
2	ISO229-34CrMo-07	凹底	229	6.2	34CrMo4	30	20-55	675-1640	33-69	×	×
3	ISO229-34CrMo-08	凹底	229	4.1	34CrMo4	20	20-55	660-1585	22.5-46	×	×
4	ISO267-34CrMo-02	凹底	267	7.5	34CrMo4	30	20-105	570-2290	39-132	×	×
5	ISO267-34CrMo-03	凹底	267	7.5	34CrMo4	30	20-105	570-2290	39-132	×	×
6	ISO356-34CrMo-10	凹底	356	10	34CrMo4	30	60-180	850-2230	97-229	×	×
7	ISO356-34CrMo-12	凹底	356	10	34CrMo4	30	60-180	850-2230	97-229	×	×

管制瓶产品参数ISO 9809-3											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diami- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	ISO219-Mn-01	凹底	219	5.7	37Mn	15	19-47	685-1525	27-55	√	√

管制瓶产品参数UNISO 9809-1											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diami- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门 、瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	UNISO1-108-Cr-200-000	凹底	108	2.8	30CrMo	20	1.2-5	220-690	2.3-6	√	√
2	UNISO90-CrMo-000	球底	90	2.4	30CrMo	13.8	1.78	400	2.6	√	√
3	UNISO108-CrMo-000	凹底	108	2.6	30CrMo	16	1.62	265	2.8	√	√
4	UNISO108-CrMo-001	凹底	108	2.6	30CrMo	15.4	4.64	640	5.5	√	√
5	UNISO133-CrMo-000	凹底	133	3	30CrMo	15.4	3.6	375	5.6	√	√
6	UNISO133-CrMo-001	凹底	133	2.5	30CrMo	13.8	3.4	355	5.4	√	√
7	UNISO1-140-34Cr-200-000	凹底	140	3.6	34CrMo4	20	3.4-13.5	340-1100	6.5-17.7	√	√
8	UNISO1-165-Mn-200-000	凹底	165	4.6	37Mn	20	7-15	490-915	12-20.5	√	√
9	UNISO178-CrMo-000	凹底	178	4	30CrMo	15.4	7.8-21.6	455-1085	12.8-27	√	√
10	UNISO178-CrMo-001	凹底	178	4.2	30CrMo	17.4	21.6-23.7	1085-1170	27-29	√	√
11	UNISO189-CrMo-000	凹底	189	4.2	30CrMo	15.4	26.6	1175	30.5	√	√
12	UNISO203-CrMo-000	凹底	203	5.2	34CrMo4	20	20-30	815-1165	28-38	√	√
13	UNISO229-CrMo-000	凹底	229	5.4	30CrMo	17.4	43.3	1300	49	√	√
14	UNISO1-229-Mn-200-000	凹底	229	5.7	37Mn	20	20-52	670-1545	28-59	√	√
15	UNISO1-232-Mn-166.7-000	凹底	232	5.4	37Mn	16.67	20-52	670-1510	28.5-57	√	√
16	UNISO235-CrMo-000	凹底	235	5.8	30CrMo	18.4	48.8	1400	57	√	√
17	UNISO1-267-Mn-174-000	凹底	267	5.7	37Mn	17.4	34-82.5	810-1770	41-84	√	√
18	UNISO267-CrMo-000	凹底	267	6.3	30CrMo	17.6	66.84	1480	76	√	√
19	UNISO279-CrMo-000	凹底	279	8.6	30CrMo	23	82	1705	119	√	√

管制瓶产品参数UNISO 9809-1											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diami- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
20	UNISO279-CrMo-001	凹底	279	6.6	30CrMo	17.6	82	1655	94	√	√
21	UNISO1-356-Mn-60-000	凹底	356	4.5	37Mn	6	80-150	1100-1810	62-106	√	√
22	UNISO1-406-Cr-60-000	凹底	406	5.9	30CrMo	6	80-180	825-1650	70-125	√	√

管制瓶产品参数UNISO 9809-2											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diami- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	UNISO2-267-34Cr-300-000	凹底	267	7.5	34CrMo4	30	20-82.5	555-1830	43-110	×	×
2	UNISO2-356-34Cr-300-000	凹底	356	356	34CrMo4	30	80-180	850-2230	100-232	×	×

管制瓶产品参数DOT 3AA											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diami- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门 、瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	CrMo-3.56''(90)-000	球底	90	2.4	30CrMo	12.41	1.78	394	2.6	√	√
2	CrMo-3.56''(90)-001	球底	90	2.4	30CrMo	14.5	2	435	2.9	√	√
3	CrMo-4.25''(108)-000	凹底	108	2.6	30CrMo	14.5	1.62	263.5	3	√	√
4	CrMo-4.25''(108)-001	凹底	108	2.6	30CrMo	13.9	4.64	640	5.8	√	√
5	CrMo-4.25''(108)-001-1	凹底	108	2.6	30CrMo	13.9	2	315	3.1	√	√
6	CrMo-4.25''(108)-003	凹底	108	2.6	30CrMo	14.5	1.62	315	3.0	√	√
7	CrMo-4.25''(108)-004	凹底	108	2.6	30CrMo	15	3.4	485	4.5	√	√
8	CrMo-4.25''(108)-004-1	凹底	108	2.6	30CrMo	15	2.68	395	3.8	√	√

管制瓶产品参数DOT 3AA											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diami- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
9	CrMo-4.25''(108)-004-2	凹底	108	2.6	30CrMo	15	3	430	4.1	√	√
10	CrMo-4.25''(108)-004-3	凹底	108	2.6	30CrMo	15	4.64	640	5.5	√	√
11	CrMo-4.25''(108)-005	球底	108	2.6	30CrMo	15	2.68	410	3.6	√	√
12	CrMo-4.25''(108)-006-1	凹底	108	2.6	30CrMo	14.5	2.1	330	3.2	√	√
13	CrMo-4.25''(108)-006-2	凹底	108	2.6	30CrMo	14.5	1.7	280	2.8	√	√
14	CrMo-4.25''(108)-006-3	凹底	108	2.6	30CrMo	14.5	2.2	345	3.3	√	√
15	CrMo-4.49''(114)-000-1	球底	114	3.2	30CrMo	18	2.8	400	4.8	√	√
16	CrMo-4.49''(114)-000-2	球底	114	3.2	30CrMo	18	4	540	6.3	√	√
17	DOT-133-Cr-1800-000	球底	133	2.5	30CrMo	12.4	2.36-6.7	280-635	5-9.6	√	√
18	CrMo-5.24(133)-000	凹底	133	3.0	30CrMo	13.9	3.6-3.95	370-405	5.6-6	√	√
19	CrMo-5.24''(133)-001	凹底	133	2.5	30CrMo	12.4	3.4	355	5.6	√	√
20	CrMo-5.51''(140)-000-1	凹底	140	3.6	30CrMo	15	3.5	340	710	√	√
21	CrMo-5.51''(140)-000-2	凹底	140	3.6	30CrMo	15	5.4	500	9.3	√	√
22	CrMo-5.51(140)-000-3	凹底	140	3.6	30CrMo	15	6.7	575	10.1	√	√
23	CrMo-5.51''(140)-000-4	凹底	140	3.6	30CrMo	15	8.2	700	12.4	√	√
24	CrMo-5.51''(140)-000-5	凹底	140	3.6	30CrMo	15	10.2	850	15	√	√
25	CrMo-5.51''(140)-000-6	凹底	140	3.6	30CrMo	15	10.7	890	15.5	√	√
26	CrMo-7''(178)-000-1	凹底	178	4.0	30CrMo	13.9	7.8	450	12	√	√
27	CrMo-7(178)-000-2	凹底	178	4.0	30CrMo	13.9	7.3-10.8	435-590	12.3-16	√	√
28	CrMo-7''(178)-000-3	凹底	178	4.0	30CrMo	13.9	15.7	815	21	√	√
29	CrMo-7''(178)-000-4	凹底	178	4.0	30CrMo	12.4	21.65	1085	27	√	√
30	CrMo-7''(178)-001-1	凹底	178	4.2	30CrMo	15.7	21.65	1085	27	√	√
31	CrMo-7''(178)-001-2	凹底	178	4.2	30CrMo	15.7	23.4	1170	29	√	√
32	CrMo-7''(178)-001-A	凹底	178	4.2	30CrMo	15.7	21.6	1085	27	√	√
33	CrMo-7''(178)-002-1	凹底	178	4.0	30CrMo	15	13.4	695	18.5	√	√
34	CrMo-7(178)-002-3	凹底	178	4.0	30CrMo	15	18.8-20	940-955	21-22	√	√
35	CrMo-7''(178)-002-4	凹底	178	4.0	30CrMo	15	8	455	12.5	√	√

管制瓶产品参数DOT 3AA											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
36	CrMo-7''(178)-002-5	凹底	178	4.0	30CrMo	15	10	545	14.5	√	√
37	CrMo-7''(178)-002-6	凹底	178	4.0	30CrMo	15	15	770	18.6	√	√
38	CrMo-7''(178)-003-1	凹底	178	4.0	30CrMo	14.5	7.4	440	12.4	√	√
39	CrMo-7''(178)-003-2	凹底	178	4.0	30CrMo	14.5	10.4	570	15.5	√	√
40	CrMo-7''(178)-004	球底	178	4.0	30CrMo	15	16	820	17.4	√	√
41	CrMo-7''(178)-004-1	球底	178	4.0	30CrMo	15	20	1005	21.2	√	√
42	CrMo-7.4''(189)-000	凹底	189	4.2	30CrMo	13.9	26.6	1170	31.5	√	√
43	CrMo-7.4''(189)-000-1	凹底	189	4.2	30CrMo	13.9	27.3	1195	32	√	√
44	CrMo-7.4''(189)-001	凹底	189	4.2	30CrMo	12.4	13.4	640	16	√	√
45	CrMo-7.4''(189)-001-A	凹底	189	3.9	30CrMo	12.4	13.4	645	17.5	√	√
46	CrMo-7.75''(197)-000	凹底	197	4.2	30CrMo	13.9	26.6	1060	28.5	√	√
47	DOT9.13''(232)A-2015-000	凹底	232	5.2	30CrMo	13.9	43.3	1270	49	√	√
48	DOT9.13(232)A-2265-000	凹底	232	5.4	30CrMo	15.7	43.3-47	1270-1370	49-52	√	√
49	DOT10.5''(267)A-2300-000	凹底	267	6.3	30CrMo	15.9	60-80	1340-1740	68-87	√	√
50	DOT11''(279)A-2300-000	凹底	279	6.6	30CrMo	15.9	68-82	1410-1655	78-94	√	√
51	DOT11''(279)A-3000-000	凹底	279	8.6	30CrMo	20.7	68-82	1465-1705	103-119	√	√
52	DOT-90-Cr-2100-000	球底	90	2.4	30CrMo	14.5	1	260	1.9	√	√
53	DOT-140-Cr-2900-000	凹底	140	4.5	30CrMo	20	5-10	460-840	10.5-17	√	√
54	DOT-203-Cr-2175-000	凹底	203	4.6	30CrMo	15	13.4	580	18	√	√
55	DOT-229-Cr-2015-000	凹底	229	5	30CrMo	13.9	43.3	1300	49	√	√
56	DOT-229-Cr-2265-000	凹底	229	5.4	30CrMo	15.7	43.3	1300	49	√	√
57	DOT-229-Cr-3000-000	凹底	229	7.2	30CrMo	20.7	47-50	1460-1545	71-75	√	√
58	DOT-232-Mn-2175-000	凹底	232	5.2	37Mn	15	49-50	1420-1450	54-55	√	√
59	DOT-235-Cr-2400-000	凹底	235	5.8	30CrMo	16.6	48.8	1400	57	√	√
60	DOT-267-Cr-2130-000	凹底	267	6.2	30CrMo	14.7	60-80	1340-1740	68-87	√	√
61	DOT-267-Cr-2175-000	凹底	267	6.2	30CrMo	15	60-80	1340-1740	68-87	√	√
62	DOT-267-Cr-2265-000	凹底	267	6.2	30CrMo	15.7	60-80	1340-1740	68-87	√	√

管制瓶产品参数DOT 3AA											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
63	DOT-267-Mn-1800-000	凹底	267	6.2	37Mn	12.4	60-80	1340-1740	68-87	√	√
64	DOT-267-Mn-2015-000	凹底	267	6.2	37Mn	13.9	60-80	1340-1740	68-87	√	√
65	DOT-267-Mn-2175-000	凹底	267	6.2	37Mn	15	82.5	1790	88.5	√	√
66	DOT-267-Mn-2300-000	凹底	267	6.3	37Mn	15.9	60-80	1340-1740	68-87	√	√
67	DOT-279-Cr-2175-000	凹底	279	6.3	30CrMo	15	70-82.5	1445-1655	80-94	√	√
68	DOT-279-Mn-2300-000	凹底	279	7.2	37Mn	15.9	68-82	1395-1650	85-99	√	√
69	DOT-325-Cr-2300-000	凹底	325	9.5	30CrMo	15.9	90-120	1410-1815	135-165	√	√
70	DOT-325-Cr-2300-001	凹底	325	9.5	30CrMo	15.9	120	1850	170	√	√
71	DOT-356-Cr-2175-000	凹底	356	8.6	30CrMo	15	120	1510	140	√	√
72	DOT-356-Mn-900-000	凹底	356	4.5	37Mn	6.2	80-150	1100-1810	62-106	√	√
73	DOT-406-Cr-870-000	凹底	406	5.9	30CrMo	6	80-180	825-1650	73-128	√	√
74	DOT-406-Cr-900-000	凹底	406	5.9	30CrMo	6.2	80-180	825-1650	73-128	√	√
75	Mn-5.51''(140)-000-1	凹底	140	3.6	37Mn	14.7	3.4	340	6.5	√	√
76	Mn-5.51''(140)-000-2	凹底	140	3.6	37Mn	14.7	10	840	14	√	√
77	Mn-8.62''(219)-000	凹底	219	5.7	37Mn	15	40	1330	50	√	√
78	Mn-9.13''(232)-000	凹底	232	5.2	37Mn	15	47	1370	52	√	√
79	Mn-9.13''(232)-000-1	凹底	232	5.2	37Mn	15	46.7	1365	52	√	√
80	Mn-9.13''(232)-000-2	凹底	232	5.2	37Mn	15	43.3	1270	49	√	√
81	Mn-9.13''(232)-000-3	凹底	232	5.2	37Mn	15	40	1190	46	√	√
82	Mn-10.5''(267)-000	凹底	267	6.2	37Mn	15	68	1500	78	√	√
83	Mn-10.5''(267)-000-1	凹底	267	6.2	37Mn	15	80	1740	90	√	√
84	Mn-10.5''(267)-000-2	凹底	267	6.2	37Mn	15	67.5	1490	77.5	√	√
85	Mn-10.5''(267)-000-3	凹底	267	6.2	37Mn	15	68.1	1500	78	√	√

管制瓶产品参数KGS-AC212											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	KGS102-Mn-00	凹底	102	3	37Mn	15	1.62-2.68	305-455	4.4-5.7	√	√
2	KGS108-CrMo-00	凹底	108	2.6	30CrMo	15	1-4.7	200-640	1.9-5.5	√	√
3	KGS108-CrMo-01	球底	108	2.6	30CrMo	15	3.1	455	3.9	√	√
4	KGS108-CrMo-02	凹底	108	2.6	30CrMo	14.5	1.62	263.5	2.8	√	√
5	KGS108-CrMo-03	球底	108	2.6	30CrMo	14.7	3.1-3.8	460-550	4.9-5.6	√	√
6	KGS140-34CrMo-00-1	球底	140	3	34CrMo4	15	7.2	610	8.2	√	√
7	KGS140-Mn-00	凹底	140	3.8	37Mn	15	3.4-7.5	340-650	7.5-12.2	√	√
8	KGS140-Mn-01	球底	140	3.8	37Mn	14.7	5-10	475-845	9.2-14.7	√	√
9	KGS140-Mn-2	凹底	140	3.8	37Mn	15	3.4-7.5	340-645	6.5-11	√	√
10	KGS140-Mn-03	凹底	140	3.6	37Mn	14.7	10	840	15	√	√
11	KGS140-Mn-3	球底	140	3.8	37Mn	14.7	5-10	475-860	8-14	√	√
12	KGS140-Mn-4	球底	140	3.8	37Mn	15	5-10	475-860	8-14	√	√
13	KGS165-Mn-00(3)	凹底	165	4.4	37Mn	15	5-13.4	380-830	11-19.8	√	√
14	KGS165-Mn-01	球底	165	4.4	37Mn	14.7	8.4	575	13.7	√	√
15	KGS165-Mn-3	凹底	165	4.4	37Mn	15	5-13.4	380-830	11-19.8	√	√
16	KGS165-Mn-5	球底	165	4.4	37Mn	14.7	8.4	575	13	√	√
17	KGS178-CrMo-00	凹底	178	4	30CrMo	15	8	460	13	√	√
18	KGS229-34CrMo-00	凹底	229	5.5	34CrMo4	20	50	1485	57	×	×
19	KGS232-CrMo-01	凹底	232	5.4	30CrMo	15	20-50	670-1450	30.5-57	√	√
20	KGS232-Mn-00	凹底	232	5.4	37Mn	15	20-50	670-1450	30.5-57	√	√
21	KGS235-CrMo-00	凹底	235	5.8	30CrMo	16.6	48.8	1400	59	√	√
22	KGS267-CrMo-00	凹底	267	6.6	30CrMo	18	80	1740	92	√	√
23	KGS267-Mn-00-01	凹底	267	6.3	37Mn	15	58-82.5	1300-1790	68-90.5	√	√
24	KGS267-Mn-01A	凹底	267	6.3	37Mn	15	67.5-68	1500	76	√	√
25	KGS279-34CrMo-04	凹底	279	8.3	34CrMo4	30	84	1720	120	×	×
26	KGS279-CrMo-00	凹底	279	6.3	30CrMo	15	80-87	1630-1760	94-102	√	√
27	KGS279-CrMo-02	凹底	279	7.8	30CrMo	20	80-90	1640-1820	108-118	√	√

管制瓶产品参数DOT 3AA											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
28	KGS279-Mn-00	凹底	279	6.6	37Mn	15	80-90	1630-1815	94-106	√	√
29	KGS356-34CrMo-00	凹底	356	7.7	34CrMo4	15	125-140	1540-1705	134-146	×	×

管制瓶产品参数TC 3AAM											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
1	TC90A-138-000	球底	90	2.4	30CrMo	13.8	1.78	400	2.6	√	√
2	TC-90-Cr-160-000	球底	90	2.4	30CrMo	16	1-2	260-435	1.9-2.9	√	√
3	TC108A-154-000	凹底	108	2.6	30CrMo	15.4	4.64	640	5.4	√	√
4	TC108A-160-000	凹底	108	2.6	30CrMo	16	1.62	265	2.8	√	√
5	TC108-CrMo-000	凹底	108	2.6	30CrMo	16	1.62	263.5	3	√	√
6	TC108-CrMo-001	凹底	108	2.6	30CrMo	15.4	4.64	640	5.8	√	√
7	TC108-CrMo-002	凹底	108	2.6	30CrMo	16.6	3	440	4.1	√	√
8	TC114-CrMo-000-1	球底	114	3.2	30CrMo	20	2.8	410	4.5	√	√
9	TC114-CrMo-000-2	球底	114	3.2	30CrMo	20	4	545	5.8	√	√
10	TC133A-138-000	凹底	133	3.4	30CrMo	13.8	3.4	355	5.4	√	√
11	TC133A-154-000	凹底	133	3	30CrMo	15.4	3.6	375	5.6	√	√
12	TC133-CrMo-001	凹底	133	2.5	30CrMo	13.8	3.4	355	5.6	√	√
13	TC140-CrMo-000-1	凹底	140	3.6	30CrMo	16.6	3.5	350	6.6	√	√
14	TC140-CrMo-000-2	凹底	140	3.6	30CrMo	16.6	5.4	500	8.7	√	√
15	TC140-CrMo-000-3	凹底	140	3.6	30CrMo	16.6	6.7	575	10.1	√	√
16	TC140-CrMo-000-4	凹底	140	3.6	30CrMo	16.6	8.2	700	12.2	√	√
17	TC140-CrMo-000-5	凹底	140	3.6	30CrMo	16.6	10.2	850	14.2	√	√
18	TC140-CrMo-000-6	凹底	140	3.6	30CrMo	16.6	10.7	890	14.7	√	√

管制瓶产品参数TC 3AAM											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门、 瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
19	TC178A-154-000-1	凹底	178	4	30CrMo	15.4	7.8	455	12.8	√	√
20	TC178A-154-000-2	凹底	178	4	30CrMo	15.4	10.8	590	16	√	√
21	TC178A-154-000-3	凹底	178	4	30CrMo	15.4	15.7	815	21	√	√
22	TC178A-154-000-4	凹底	178	4	30CrMo	15.4	21.6	1085	27	√	√
23	TC178A-174-000-1	凹底	178	4.2	30CrMo	17.4	21.6	1085	27	√	√
24	TC178A-174-000-2	凹底	178	4.2	30CrMo	17.4	23.4	1170	29	√	√
25	TC178-CrMo-001	凹底	178	4.2	30CrMo	17.3	21.65	1085	27	√	√
26	TC178-CrMo-001-2	凹底	178	4.2	30CrMo	17.3	23.4	1170	29	√	√
27	TC178-CrMo-001-A	凹底	178	4.2	30CrMo	17.3	21.6	1085	27	√	√
28	TC178-CrMo-002-1	凹底	178	4	30CrMo	16.6	13.4	705	18.5	√	√
29	TC178-CrMo-002-2	凹底	178	4	30CrMo	16.6	16.8	865	22.5	√	√
30	TC178-CrMo-002-3	凹底	178	4	30CrMo	16.6	18.8	960	24	√	√
31	TC178-CrMo-002-4	凹底	178	4	30CrMo	16.6	8	465	13	√	√
32	TC178-CrMo-002-5	凹底	178	4	30CrMo	16.6	10	555	15	√	√
33	TC178-CrMo-002-6	凹底	178	4	30CrMo	16.6	15	785	20	√	√
34	TC178-CrMo-003	球底	178	4	30CrMo	16.6	16	830	17.5	√	√
35	TC178-CrMo-003-1	球底	178	4	30CrMo	16.6	20	1005	20.5	√	√
36	TC189A-154-000	凹底	189	4.2	30CrMo	15.4	26.6	1175	30.5	√	√
37	TC189-CrMo-001	凹底	189	3.9	30CrMo	13.8	13.4	640	16	√	√
38	TC197-CrMo-000	凹底	197	4.2	30CrMo	15.4	26.6	1060	28.5	√	√
39	TC-229-Cr-154-000	凹底	229	5	30CrMo	15.4	43.3	1300	49	√	√
40	TC-229-Cr-174-000	凹底	229	5.4	30CrMo	17.4	43.3	1300	49	√	√
41	TC232A-154-000	凹底	232	5.2	30CrMo	15.4	43.3	1270	49	√	√
42	TC232A-174-000	凹底	232	5.4	30CrMo	17.4	43.3	1300	49	√	√
43	TC-235C-Cr-184-000	凹底	235	5.8	30CrMo	18.4	48.8	1400	57	√	√
44	TC267A-176-000	凹底	267	6.3	30CrMo	17.6	60-80	1340-1740	68-87	√	√
45	TC267-CrMo-000	凹底	267	6.2	30CrMo	16.6	68	1500	78	√	√

管制瓶产品参数TC 3AAM											
序号 NO.	型号/图号 Type/Drawing	结构 struc- ture	外径 Outside diame- ter (mm)	设计壁厚 Design wall Thick- ness (mm)	材质 Material	工作压力 Service pressure (MPa)	容积 Water capacity(L)	高度 (不包括阀门) Height (without valve) (mm)	重量 (不包括阀门 、瓶帽) Weight (without valve/cap) (Kg)	能否充装氢 气类 Can it be filled with hydrogen gas	能否充装 天然气类 Can it be filled with natural gas
46	TC-267-Mn-166-000	凹底	267	6.2	30CrMo	16.6	60-82.5	1340-1790	68-88.5	√	√
47	TC279A-176-000	凹底	279	6.6	30CrMo	17.6	68-82	1410-1655	78-94	√	√
48	TC279A-230-000	凹底	279	8.6	30CrMo	23	68-82	1465-1705	103-119	√	√
49	TC-356-Mn-69-000	凹底	356	4.5	37Mn	6.9	80-150	1100-1810	62-106	√	√
50	TC406A-69-000	凹底	406	5.9	30CrMo	6.9	80-180	825-1650	73-128	√	√



冲压瓶产品参数							
序号 NO.	产品图号 Product Drawing No.	产品标准 Standard	外径 Out diameter	壁厚 Thickness	材质 Material	制造方法manufacturing (冲拔) Billet-pierced	工作压力 Service pressure
1	WGA229I-34CrMo-20-00/01	GB/T5099.1-2017	φ229	5.2	34CrMo4	冲拔Billet-pierced	20MPa
2	WGA235 I -15-00	GB/T5099.1-2017	φ235	5.2	30CrMo	冲拔Billet-pierced	15MPa
3	WGA229I-20-00	GB/T5099.1-2017	φ229	5.8	30CrMo	冲拔Billet-pierced	20MPa
4	WGA229I-15-00	GB/T5099.1-2017	φ229	5.2	30CrMo	冲拔Billet-pierced	15MPa
5	WGA235 I -20-00	GB/T5099.1-2017	φ235	6.1	30CrMo	冲拔Billet-pierced	20MPa
6	WGA229I-30-00	Q/KCTHB002-2019	φ229	6.2	34CrMo4	冲拔Billet-pierced	30MPa
7	ISO229I-CrMo-05	ISO9809-1	φ229	5.2	30CrMo	冲拔Billet-pierced	200bar
8	ISO229I-CrMo-08	EN ISO9809-1	φ229	6.2	30CrMo	冲拔Billet-pierced	200/150bar
9	ISO229I-CrMo-04-1	EN ISO9809-1	φ229	6.2	30CrMo	冲拔Billet-pierced	200bar
10	ISO229I-CrMo-07	EN ISO9809-1	φ229	6	34CrMo4	冲拔Billet-pierced	230bar
11	ISO229I-CrMo-09	EN ISO9809-1	φ229	7.2	30CrMo	冲拔Billet-pierced	200bar
12	DOT-229-Cr-2265-B-00	DOT3AA	φ229	5.4	4130X(30CrMo)	冲拔Billet-pierced	2265PSI
13	DOT-235-Cr-2175-B-00	DOT3AA	φ235	5.8	4130X(30CrMo)	冲拔Billet-pierced	2175PSI
14	DOT-235-Cr-2400-B-00	DOT3AA	φ235	5.8	4130X(30CrMo)	冲拔Billet-pierced	2400PSI
15	DOT-229-Cr-2015-B-00	DOT3AA	φ229	5	4130X(30CrMo)	冲拔Billet-pierced	2015PSI
16	DOT-229-Cr-3000-B-00	DOT3AA	φ229	7.2	30CrMo	冲拔Billet-pierced	3000PSI
17	DOT-235-Cr-1800-B-00	DOT3AA	φ235	4.5	30CrMo	冲拔Billet-pierced	1800PSI
18	DOT-235-Cr-3000-B-00	DOT3AA	φ235	7.3	30CrMo	冲拔Billet-pierced	3000PSI
19	DOT-229-Cr-2175-B-00	DOT3AA	φ229	6.2	4130X(30CrMo)	冲拔Billet-pierced	2175PSI
20	DOT-229-Cr-2646-B-00	DOT3AA	φ229	6.2	4130X(30CrMo)	冲拔Billet-pierced	2646PSI
21	DOT-229-Cr-2900-B-00	DOT3AA	φ229	7.2	4130X(30CrMo)	冲拔Billet-pierced	2900PSI
22	UNISO1-235-Cr-184-B-00	UNISO9809-1	φ235	5.8	30CrMo	冲拔Billet-pierced	184bar
23	UNISO1-229-Cr-174-B-00	UNISO9809-1	φ229	5.4	30CrMo	冲拔Billet-pierced	174bar
24	UNISO1-229-Cr-154-B-00	UNISO9809-1	φ229	5.0	30CrMo	冲拔Billet-pierced	154bar
25	UNISO2-267-34Cr-300-B-00	UNISO9809-2	φ267	7.5	34CrMo4	冲拔Billet-pierced	300Bar
26	UNISO1-229-Cr-200-B-00	UNISO9809-1	φ229	6.2	34CrMo4	冲拔Billet-pierced	200Bar
27	UNISO2-235-34Cr-310-B-00	UNISO9809-2	φ235	6.8	34CrMo4	冲拔Billet-pierced	310Bar
28	TC-229-Cr-173-B-00	TC-3AAM DOT3AA	φ229	5.4	4130X(30CrMo)	冲拔Billet-pierced	173bar
29	TC-235-Cr-183-B-00	TC-3AAM DOT3AA	φ235	5.8	4130X(30CrMo)	冲拔Billet-pierced	183bar

冲压瓶产品参数							
序号 NO.	产品图号 Product Drawing No.	产品标准 Standard	外径 Out diameter	壁厚 Thickness	材质 Material	制造方法manufacturing (冲拔) Billet-pierced	工作压力 Service pressure
30	TC-229-Cr-154-B-00	TC-3AAM DOT3AA	φ229	5	4130X(30CrMo)	冲拔Billet-pierced	154Bar
31	ISO229I-34CrMo-05	EN ISO9809-2	φ229	6.2	34CrMo4	冲拔Billet-pierced	30MPa
32	ISO267I-34CrMo-00	EN ISO9809-2	φ267	7.5	34CrMo4	冲拔Billet-pierced	300Bar
33	ISO229I-34CrMo-03	EN ISO9809-2	φ229	4.2	30CrMo	冲拔Billet-pierced	200Bar
34	ISO235I-34CrMo-00	EN ISO9809-2	φ235	6.8	34CrMo4	冲拔Billet-pierced	300bar
35	ISO235I-34CrMo-01	EN ISO9809-2	φ235	8.9	34CrMo4	冲拔Billet-pierced	414bar
36	ISO229I-34CrMo-04	EN ISO9809-2	φ229	4.1	34CrMo4	冲拔Billet-pierced	200bar
37	ISO229I-34CrMo-06	EN ISO9809-2	φ229	6.1	34CrMo4	冲拔Billet-pierced	30MPa
38	WGA229I-20-00	GB/T5099.1-2017	φ229	5.8	30CrMo	冲拔Billet-pierced	20
39	WG267I-20-00	GB/T5099.1-2017	267	6.4	34CrMo4	冲拔Billet-pierced	20
40	ISO267I--34CrMo4-00	EN ISO9809-1	267	6.4	34CrMo4	冲拔Billet-pierced	200bar
41	WGA229I-00	GB/T5099.1-2017	φ229	6.2	30CrMo	冲拔Billet-pierced	20MPa
42	DOT-235-Cr-2175-B-01	DOT3AA	φ235	5.3	30CrMo	冲拔Billet-pierced	2175PSI
43	ISO229I-CrMo-06	EN ISO9809-1	φ229	5.8	30CrMo	冲拔Billet-pierced	200bar
44	UNISO2-235-34Cr-414-B-00	UN ISO9809-2	φ235	8.9	34CrMo4	冲拔Billet-pierced	414bar
45	ISO229I-CrMo-12	EN ISO9809-1	φ229	4.0	30CrMo	冲拔Billet-pierced	156bar
46	ISO229I-34CrMo-07	EN ISO9809-2	φ229	3.8	34CrMo4	冲拔Billet-pierced	156bar
47	ISO229I-CrMo-13	EN ISO9809-1	φ229	5.4	30CrMo	冲拔Billet-pierced	174bar
48	ISO229I-CrMo-14	EN ISO9809-1	φ229	6.2	30CrMo	冲拔Billet-pierced	200bar
49	ISO235I-CrMo-00	EN ISO9809-1	φ235	5.8	30CrMo	冲拔Billet-pierced	184bar

