

全球气体储运装备制造者
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Global Manufacturer of Gas Storage and Transportation Equipment
Technology-Driven, Safe and Reliable, Green Future

北京天海工业有限公司
BEIJING TIANHAI INDUSTRY CO.,LTD.

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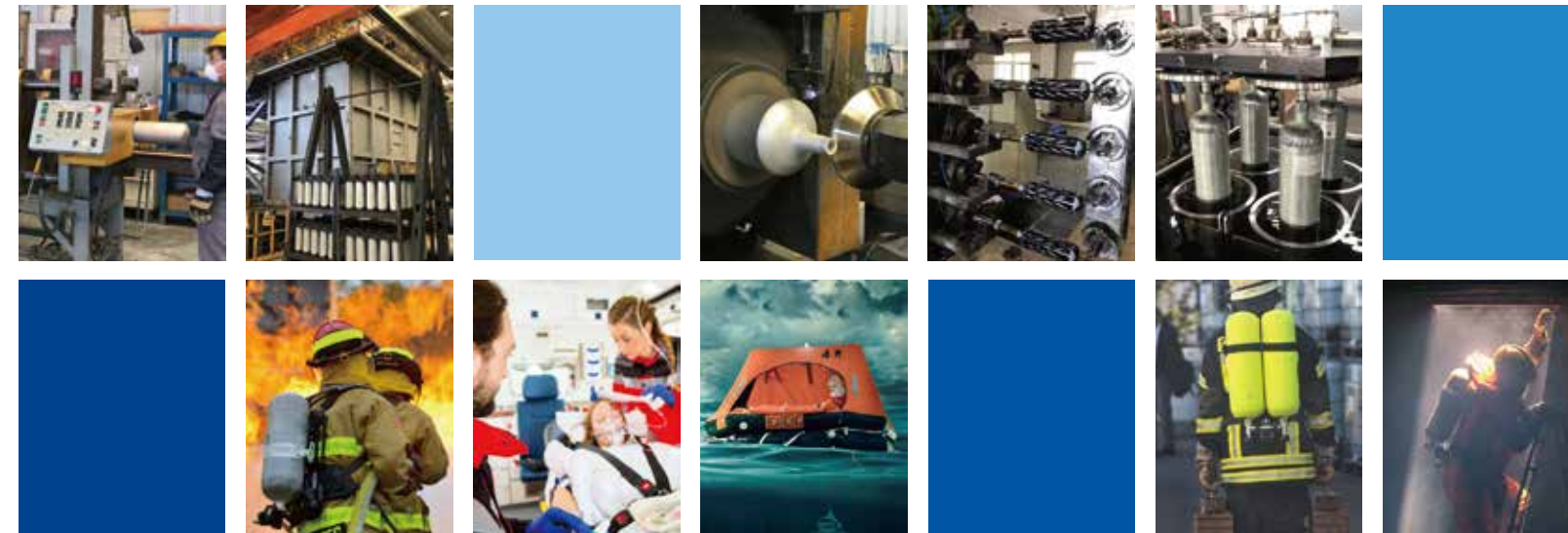
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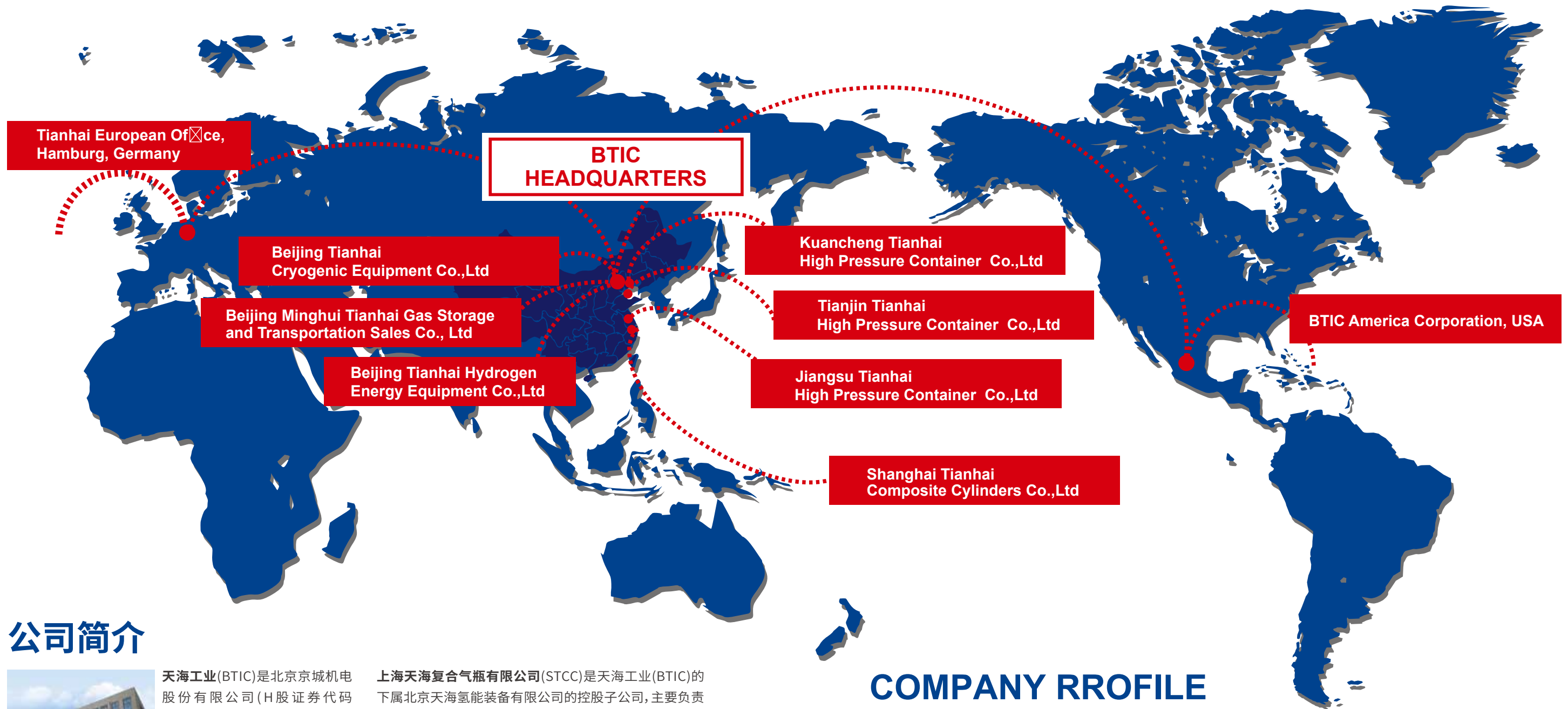
天海工业
微信公众号



中小复合气瓶

Small- and Medium-Sized Composite Cylinders





公司简介



天海工业(BTIC)是北京京城机电股份有限公司(H股证券代码00187,A股证券代码600860)所属主要骨干企业。旗下拥有多个气体储运装备生产基地和海外分公司。集团可生产800余个品种规格

的钢质无缝气瓶、无石棉填料乙炔瓶、焊接绝热气瓶、碳纤维全缠绕III型、IV型复合气瓶、低温罐箱及加氢站等系列产品,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、电电子等行业。产品覆盖全国,远销世界五大洲四十多个国家和地区。先后荣获中国百强企业、中国金属压力容器制造行业排头兵企业、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。

上海天海复合气瓶有限公司(STCC)是天海工业(BTIC)的下属北京天海氢能装备有限公司的控股子公司,主要负责生产制造铝内胆碳纤维全缠绕复合气瓶,公司产品在工业防护、消防呼吸器、应急救援、医疗健康、新能源等领域应用广泛,已覆盖0.1L~25L、10MPa~40MPa等不同容积和压力等级,共计40余个系列、120余种规格产品。目前,上海天海公司产品除国标GB认证外,还拥有欧盟CE、美国DOT、加拿大TC等不同地区和国家认证,是国内规格齐全、认证多样的复合气瓶制造厂商。



COMPANY PROFILE

BTIC (Tianhai Industry) is a key subsidiary of Beijing Jingcheng Machinery Electric Company Limited (A-share: 600860, H-share: 00187). It owns multiple production bases for gas storage and transportation equipment as well as overseas branches. The company manufactures over 800 types and specifications of products, including seamless steel cylinders, asbestos-free packed acetylene cylinders, welded insulated-cryogenic cylinders, Type III & IV fully-wound carbon fiber composite cylinders, cryogenic tank containers and hydrogen refueling station facilities. Our products are widely applied in automotive, chemical, fire protection, medical, petroleum, energy, urban construction, food, metallurgy, machinery, electronics and other industries. With a nationwide sales network in China, our products are exported to more than 40 countries and regions across five continents. The enterprise has been awarded numerous honors, such as China Top 100 Enterprise, Leading Enterprise in China's Metal Pressure Vessel Manufacturing Industry, National May 1st Labor Certificate, Beijing Specialized, Refined, Differential and Innovative Small Giant Enterprise, and National-level Specialized, Refined, Differential and Innovative Small Giant Enterprise.

Shanghai Tianhai Composite Cylinder Co., Ltd. (STCC) is a holding subsidiary of Beijing Tianhai Hydrogen Energy Equipment Co., Ltd., which is affiliated to Tianhai Industry (BTIC). The company mainly engages in the manufacturing of fully-wound carbon fiber composite cylinders with aluminum liners. Its products are widely applied in industrial protection, fire breathing apparatus, emergency rescue, medical care, new energy and other fields. The product portfolio covers volumes from 0.1L to 25L and pressure ratings from 10MPa to 40MPa, including more than 40 product series and over 120 specifications. In addition to China's GB standard certification, the company has obtained international certifications such as EU CE, US DOT and Canada TC. It is a domestic manufacturer of composite cylinders with a complete range of product models and diverse global certifications.



复合气瓶的应用 Application for Composite Cylinders

SCBA

With excellent flame and impact resistance, BTIC SCBA cylinders are widely used for firefighting and hazardous field. Available sizes are 4.7L, 6.8L, 8.5L and 9.0L. All BTIC SCBA cylinders are produced to a wide range of globally recognized standards and accreditations, including:

- EN: 4.7L, with 15, 20 years working life.
- 6.8L, with 15, 20, 30 years working life.
- 8.5L, with 15 years working life.
- 9.0L, with 15, 20, 30 years working life, and non limited life performance.
- 3 standards (EN, DOT and GB): 6.8L, with 15 years working life
- DOT: 4.7L, 6.8L, 8.5L and 9.0L
- TC: 6.8L
- GB: 4.7L, 6.8L, 8.5L and 9.0L.



消防

天海公司的呼吸气瓶具有优异的阻燃性和抗冲击性, 广泛应用于消防和危险场所。气瓶均按照全球公认的标准和认证生产, 制造标准和可选规格如下:

- EN标准: 4.7L, 可选15、20年工作寿命
- 6.8L, 可选15、20、30年工作寿命
- 8.5L, 可选15年工作寿命
- 9.0L, 可选15、20、30年, 和无限工作寿命, 气瓶只需通过每五年一次的定期检查和测试要求, 就可以继续使用。
- 三标(EN, DOT和国标): 6.8L, 可选15年工作寿命;
- DOT标准: 4.7L、6.8L、8.5L和9.0L
- TC标准: 6.8L
- 国标: 4.7L、6.8L、8.5L和9.0L



4.7L

6.8L

8.5L

9.0L



复合气瓶的应用 Application for Composite Cylinders

EMERGENCY ESCAPE

BTIC SCBA cylinders are used in breathing devices for emergency escape in cramped, hazardous environments, provide users reliable protection.

Available sizes are 3.0L, 6.8L, and 9.0L.

All BTIC SCBA cylinders are produced to a wide range of globally recognized standards and accreditations, including:

- EN: 3.0L, with 15 and 20 years working life.
- 6.8L, with 15, 20, 30 years working life.
- 9.0L, with 15, 20, 30 years working life, and non limited life performance.
- 3 standards (EN, DOT and GB): 6.8L, with 15 years working life
- DOT: 6.8L and 9.0L
- TC: 6.8L
- GB: 3.0L, 6.8L, and 9.0L.

3.0L

6.8L

9.0L

紧急逃生

天海公司的呼吸气瓶可以用于狭窄和危险环境中紧急逃生的呼吸装置。呼吸气瓶均按照全球公认的标准和认证生产, 制造标准和可选规格如下:

- EN标准: 3.0L, 可选15、20年工作寿命;
- 6.8L, 可选15、20、30年工作寿命;
- 9.0L, 可选15、20、30年和无限工作寿命。
- 气瓶只需通过每五年一次的定期检查和测试要求, 就可以继续使用。
- 三标(EN, DOT和国标): 6.8L, 可选15年工作寿命。
- DT标准: 6.8L和9.0L
- TC标准: 6.8L
- 国标: 3.0L, 6.8L和9.0L。



INDUSTRIAL

BTIC composite cylinders provide respiratory protection in industrial environments when hazardous situations occur. They are widely used in places where hypoxia, unknown or known high concentration of toxic marine gas.

Available sizes are 3.0L, 4.7L, 6.8L, 8.5L and 9.0L.

All BTIC composite cylinders are produced to a wide range of globally recognized standards and accreditations, including:

- EN: 3.0L with 15 and 20 years working life.
- 4.7L, with 15, 20 years working life.
- 6.8L, with 15, 20, 30 years working life.
- 8.5L, with 15 years working life.
- 9.0L, with 15, 20, 30 years working life, and non limited life performance.
- 3 standards (EN, DOT and GB): 6.8L, with 15 years working life
- DOT: 4.7L, 6.8L, 8.5L and 9.0L
- TC: 6.8L
- GB: 3.0L, 4.7L, 6.8L, 8.5L and 9.0L.

3.0L

4.7L

6.8L

8.5L

9.0L

工业

天海公司的复合气瓶可在危险的工业环境中提供呼吸保护。它们广泛应用于缺氧、未知或已知高浓度有毒气体的地方。

气瓶均按照全球公认的标准和认证生产, 制造标准和可选规格如下:

- EN标准:
- 3.0L, 可选15、20年工作寿命;
- 4.7L, 可选15、20年工作寿命;
- 6.8L, 可选15、20、30年工作寿命;
- 8.5L, 可选15年工作寿命;
- 9.0L, 可选15、20、30年, 和无限工作寿命, 气瓶只需通过每五年一次的定期检查和测试要求, 就可以继续使用。
- 三标(EN, DOT和国标): 6.8L, 可选15年工作寿命
- TC标准: 6.8L
- DOT标准: 4.7L、6.8L、8.5L和9.0L
- 国标: 3.0L、4.7L、6.8L, 8.5L和9.0L





复合气瓶的应用 Application for Composite Cylinders



MEDICAL / HEALTHCARE

BTIC composite cylinders are widely used for ambulance and emergency first response services, hospitals, as well as other medical institutions. The cylinders are available in a range of sizes and capacities to suit any emergency vehicle and application.

Available sizes are 2.0L, 3.0L, 6.8L and 10.0L.

All BTIC composite cylinders are produced to a wide range of globally recognized standards and accreditations, including: EN: 2.0L and 3.0L with 15 and 20 years working life.

6.8L, with 15, 20, 30 years working life.

3 standards (EN, DOT and GB): 6.8L, with 15 years working life
DOT: 6.8L

TC: 6.8L

GB: 2.0L, 3.0L, 6.8L, and 10.0L.

2.0L

3.0L

6.8L

10.0L

医疗和保健

天海公司的氧气瓶广泛应用于救护车、急救中心、医院和其他医疗机构。

气瓶的规格有2.0L、3.0L、6.8L、10.0L，以适应任何应急车辆和应用。

天海公司的气瓶均按照全球公认的标准和认证生产，制造标准和可选规格如下：

EN标准: 2.0L和3.0L, 可选15、20年工作寿命。

6.8L, 可选15、20、30年工作寿命。

三标(EN, DOT和国标): 6.8L, 可选15年工作寿命

DOT标准: 6.8L

TC标准: 6.8L

国标: 2.0L、3.0L、6.8L和10.0L



HOME OXYGEN

BTIC provides 2.0L, 3.0L for home oxygen cylinders with following benefits to patients and users, including:

Portability – lower weights make cylinders easier to carry, enabling independent living

Economic cost – higher pressures mean higher capacities, higher capacities means less frequent refilling, and fewer cylinders needed
Flexibility – two sizes are available to suit a range of patient requirements Available sizes:

EN: 2.0L, 3.0L with 15, 20 years working life.

GB: 2.0L, 3.0L

2.0L

3.0L

家用氧气瓶

天海公司的家庭氧气瓶规格为2.0L、3.0L，具有如下优点：

便携性- 较低的重量的使其更易于携带，从而使使用者实现独立生活；

经济性- 较高的压力意味着更大的容量，较大的容量意味着更少的换气次数，以及更少的气瓶需求；

灵活性- 两种规格可满足不同患者需求；

天海公司的气瓶均按照全球公认的标准和认证生产，制造标准和可选规格如下：

EN标准: 2.0L和3.0L, 可选15、20年工作寿命；

国标: 2.0L、3.0L。



复合气瓶的应用

Application for Composite Cylinders



MARINE VESSEL APPLICATION

BTIC composite cylinders have got CCS approval, the sizes are available in EN 6.8L, 9.0L and 12.0L with 15 years working life. The cylinders can be used for marine vessel.

The two main applications are:

- Used as SCBA cylinder on the vessel
- Used as air supply device for inflating life raft products, ensure the reliable and rapid deployment of life safety systems where every second counts.

海上船舶应用

天海的复合气瓶已获得中国船级社认证，规格有EN6.8L、9.0L和12.0L，工作寿命15年，可在船舶上使用。

两个主要应用是：

- 用作船舶上的呼吸气瓶；
- 用作救生筏充气的供气装置，保障安全，分秒必争。

6.8L

9.0L

12.0L





复合气瓶的应用 Application for Composite Cylinders



6.8L

9.0L

12.0L



SCUBA

BTIC offers composite cylinders for a comprehensive range of recreational, commercial and specialist diving use. Cylinders are available in 6.8L, 9.0L and 12.0L. Lightweight, durable and with high fill pressures, these are designed for specialist and commercial diving applications.

All BTIC cylinders are produced to a wide range of globally recognized standards and accreditations, including:

EN: 6.8L, with 15, 20, 30 years working life.

9.0L, with 15, 20, 30 years working life, and non limited life performance.

12.0L, with 15 years working life.

3 standards (EN, DOT and GB): 6.8L, with 15 years working life

DOT: 6.8L and 9.0L

TC: 6.8L

GB: 6.8L, 9.0L and 12.0L.

天海复合气瓶可做为水肺,用于各种娱乐、商业和专业潜水用途。有6.8L、9.0L和12.0L。

气瓶特点是重量轻,耐用,高压以便充装更多气体以保证供气时间更长。

天海公司的气瓶均按照全球公认的标准和认证生产,制造标准和可选规格如下:

EN标准:

6.8L,可选15,20,30年工作寿命;

9.0L, 可选15,20,30年,和无限工作寿命,气瓶只需通过每五年一次的定期检查和测试要求,就可以继续使用;

12.0L, 可选15年工作寿命。

三标(EN,DOT和国标):6.8L,可选15年工作寿命;

DOT标准:6.8L和9.0LTC标准:6.8L;

TC标准:6.8L;

国标:6.8L,9.0L和12.0L。

复合气瓶的应用

Application for Composite Cylinders



彩弹枪

天海公司的DOT 0.2L 复合气瓶工作压力为310bar4500PSI,作为彩弹枪的压力源,可以充装二氧化碳或压缩空气。

气瓶具有重量轻、工作时间长的优点,保证彩弹枪可以发射更多彩弹,提高玩家的用户体验。

0.2L-1.0L气瓶可按客户要求定制。

PAINTBALL GUN

With 310 Bar/4500 PSI working pressure, BTIC' s DOT 0.2L composite cylinder can be used as pressure source to power paintball gun, which can be filled with CO₂ or compressed air.

With the characteristics of extremely light weight and durable working time, BTIC paintball cylinder allows more shots per cylinder, delivers the ultimate performance for the player.

0.2L to 1.0L can be customized according to client' s requirements.



产品参数 PRODUCT PARAMETERS

序号 NO.	容积 Capacity (L)	工作压力 Service Pressure (Mpa)	公称外径 O.D.(mm)	公称长度 Overall Length (mm)	公称重量 Empty Weight (KG)	适用标准 Applicable Standard	设计使用寿命 Service Life (Years)			
							15years	20years	30years	NLL
1	0.2	31	179	49.5	0.26	DOT	√			
2	0.42	30	61.4	265	0.58	GB	√			
3	0.5	30	61.4	301	0.65	GB	√			
4	0.6	30	78	237	0.7	GB	√			
5	0.62	30	75	261	0.7	GB	√			
6	0.7	30	83	240	0.7	GB	√			
7	0.8	30	83	262	0.75	GB	√			
8	1.1	30	110	230	0.9	GB	√			
9	1.3	30	97	300	1.2	GB	√			
10	1.5	31	87.9	387	1.2	EN	√			
11	1.6	20	111	271	1.1	GB	√			
12	2	30	109	355	1.6	EN	√	√		
13	2	20	108	354	1.25	GB	√			
14	2	20	130	253	1.48	GB	√			
15	2.1	20	105	366	1.3	EN	√	√		
16	2.1	20	108	368	1.3	GB	√			
17	2.17	30	110	378	1.8	GB	√			
18	2.2	20	130	270	1.51	GB	√			
19	2.5	30	133.5	302	1.8	EN	√	√		
20	2.5	20	130	297	1.55	GB	√			
21	2.7	20	130	312	1.58	GB	√			
22	3	20	120	389	1.7	EN, GB	√	√		
23	3	30	116	450	2.2	EN	√			
24	3	30	110	496	2.0	GB	√			
25	3	30	114.5	447	2.0	GB	√			
26	4	30	139	413	2.8	GB	√			
27	4.3	30	115	585	2.8	EN	√			
28	4.7	31	140.4	480	2.9	DOT	√			
29	4.7	30	141	473	3.3	EN	√	√		
30	4.7	30	139	471	3.1	GB	√			
31	5	30	157	402	2.9	GB	√			
32	6.8	30	158	523	4.0	EN, DOT, GB,ISO	√			
33	6.8	30	159	522	4.4	EN		√		
34	6.8	30	161	525	4.7	EN			√	
35	6.8	31	172.5	465	3.9	DOT	√			
36	6.8	30/31	157	518	3.9	DOT, TC	√			
37	6.8	30	165	479	3.8	GB	√			
38	6.8	30	157	518	3.8	GB	√			
39	6.8	20	153	517	3.2	GB	√			
40	8.5	30	170	555	4.45	EN	√			
41	8.5	30	179	520	5.0	GB	√			
42	8.5	15	171	512	3.8	GB	√			
43	8.5	15	166.8	527	3.1	DOT	√			
44	8.5	15	173	497	3.1	DOT, TC	√			
45	9	30	180	544	5.5	EN, GB	√	√		
46	9	30	179	556	5.9	EN			√	√
47	9	31	174.3	572	4.9	DOT	√			
48	10	30	196	510	5.3	GB	√			
49	10	20	153	725	4.5	GB	√			
50	12	30	197	595	6.5	EN, GB	√			
Thread Size: (Customizable)			"ISO": ISO11119 is upcoming							
	M18 x 1.5		"EN": EN12245 of Europe							
	3/4"-16 UNF		"DOT": DOT-CFFC of USA							
	7/8"-16 UNF		"TC": TC-3CCM of Canada							
			"GB": GB/T 28053 of China							

**除以上规格外，其他规格可根据客户要求定制。
The specifications can be customized according to client requirements.

主要客户及服务

天海公司始终秉承“以客户的满意为最高标准”的服务宗旨，实施“零缺陷”质量管理战略，不断创新和持续改进，致力于为客户提供环保、安全、质量可靠的产品和优质的服务。
公司产品得到了国内外知名品牌客户的一致认可，主要客户有:梅思安、德尔格、3MScott、霍尼韦尔、大阳日酸、上海潜水装备厂等。

MAJOR CUSTOMERS AND SERVICES

BTIC always upholds the service aim of ‘customer satisfaction as the highest standard’ . With implementation of ‘zero defect’ quality management strategy,constantly innovations and improvements, BTIC is committed to providing customers with environmentally friendly, safe, reliable products and quality services.
The company's products have been unanimously recognized by well-known brand customers at home and abroad, the main customers are: MSA, Drager, 3M Scott, Honeywell, TAIYO NIPPON SANSO, Shanghai Diving Equipment Factory, etc.

