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Shanghai Tianhai Composite Cylinders Co.,Ltd.

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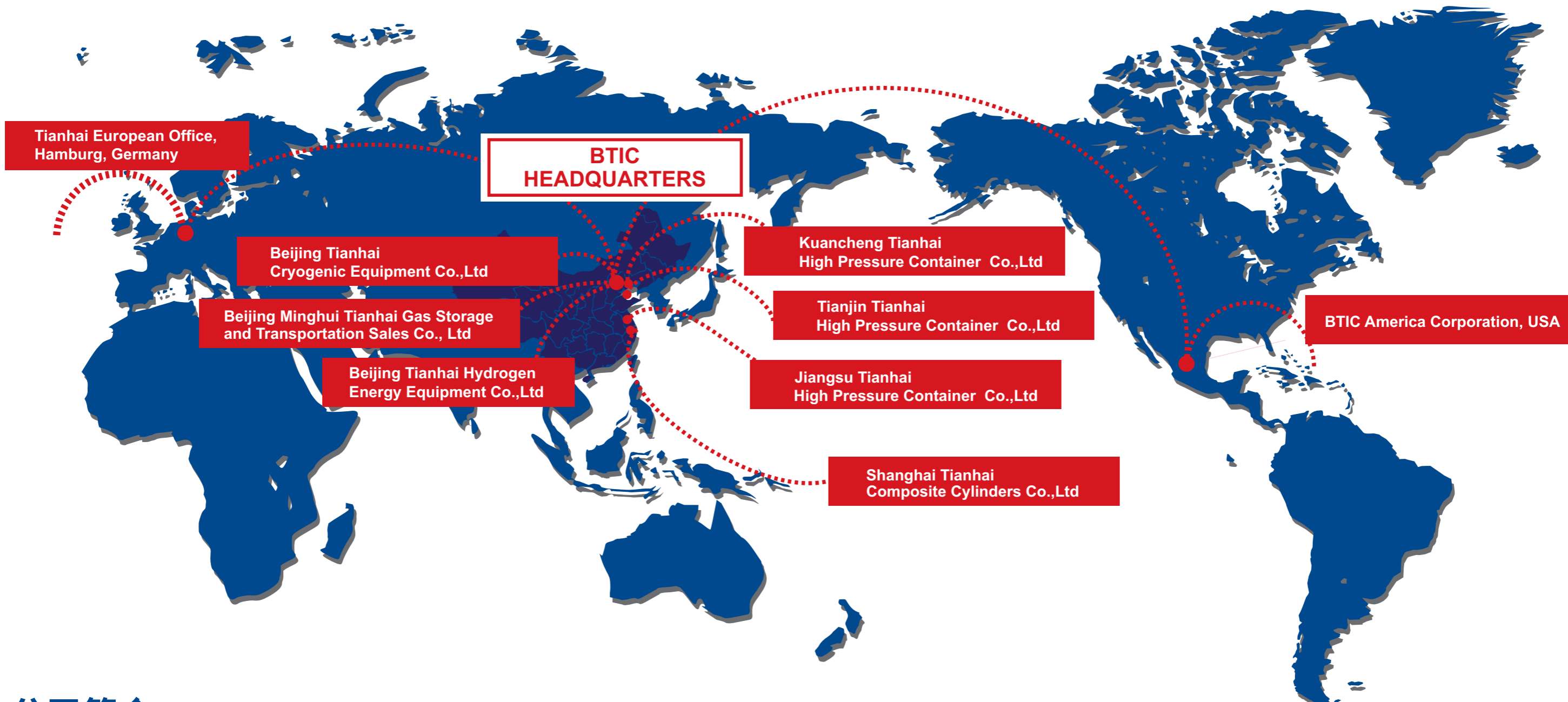
股票代码：A股 600860 H股 00187
Stock Code: A shares 600860 H shares 00187



铝内胆碳纤维全缠绕复合气瓶
Fully Wrapped Composite Cylinders with Aluminum Liner



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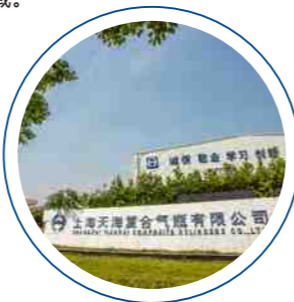
公司简介



北京天海工业有限公司(1992---今)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。北京天海拥有七个专业气体储运装备生产基地,在美国休斯顿设有分公司,在德国汉堡设有欧洲办事处。可生产800余个品种规格的钢质无缝气瓶、缠绕气瓶、蓄能

器壳体、无石棉填料乙炔瓶、焊接绝热气瓶、碳纤维全缠绕复合气瓶(含车用)、低温罐箱及加气站等系列产品,公司的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。

上海天海复合气瓶有限公司(2000-今)为北京天海工业有限公司的子公司,主要生产制造小容积铝内胆碳纤维全缠绕复合气瓶,产品广泛应用于消防、工业、紧急救援、医疗、潜水、彩弹枪、船舶等需要轻质气瓶或其他高压气体的领域。



COMPANY PROFILE

Beijing Tianhai Industry Co., Ltd. (1992---now, referred as BTIC) is a state-owned enterprise, joint ventured by BEIJING JINGCHENG MACHINERY ELECTRIC HOLDING CO., LTD (listed company) and JINGCHENG HONG KONG COMPANY. BTIC is a group enterprise with seven professional manufacturing bases for the production of gas storage and transportation equipment. BTIC also has a subsidiary company in Houston, USA, and a European office in Hamburg, Germany.

Shanghai Tianhai Composite Cylinders Co., Ltd. (2000---now, referred as STCC) is a subsidiary of BTIC. It mainly manufactures small volume fully wrapped composite cylinders with aluminum liner. With the characteristics of higher pressure, lighter weight, safer performance, stronger environmental adaptability and better heat resistance, STCC'S composite cylinders have been widely applied in fields such as SCBA, emergency escape, industrial, medical/healthcare, SCUBA, paintball gun and marine vessel.



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.



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.

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

DOT标准: 6.8L和9.0L

TC标准: 6.8L

国标: 3.0L, 6.8L和9.0L。



3.0L

6.8L

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



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.

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

DOT标准: 4.7L, 6.8L, 8.5L 和 9.0L

TC标准: 6.8L

国标: 3.0L, 4.7L, 6.8L, 8.5L 和 9.0L



3.0L

4.7L

6.8L

8.5L

9.0L

4.7L

6.8L

8.5L

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



6.8L

9.0L

12.0L

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



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.

潜水呼吸器用气瓶

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 9.0L

TC标准: 6.8L

国标: 6.8L, 9.0L 和 12.0L。

彩弹枪

天海公司的DOT 0.2L 复合气瓶工作压力为310bar /4500PSI，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、3M Scott、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, Dräger, 3M Scott, Honeywell, TAIYO NIPPON SANSO, Shanghai Diving Equipment Factory, etc.

