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上海华理安全装备有限公司

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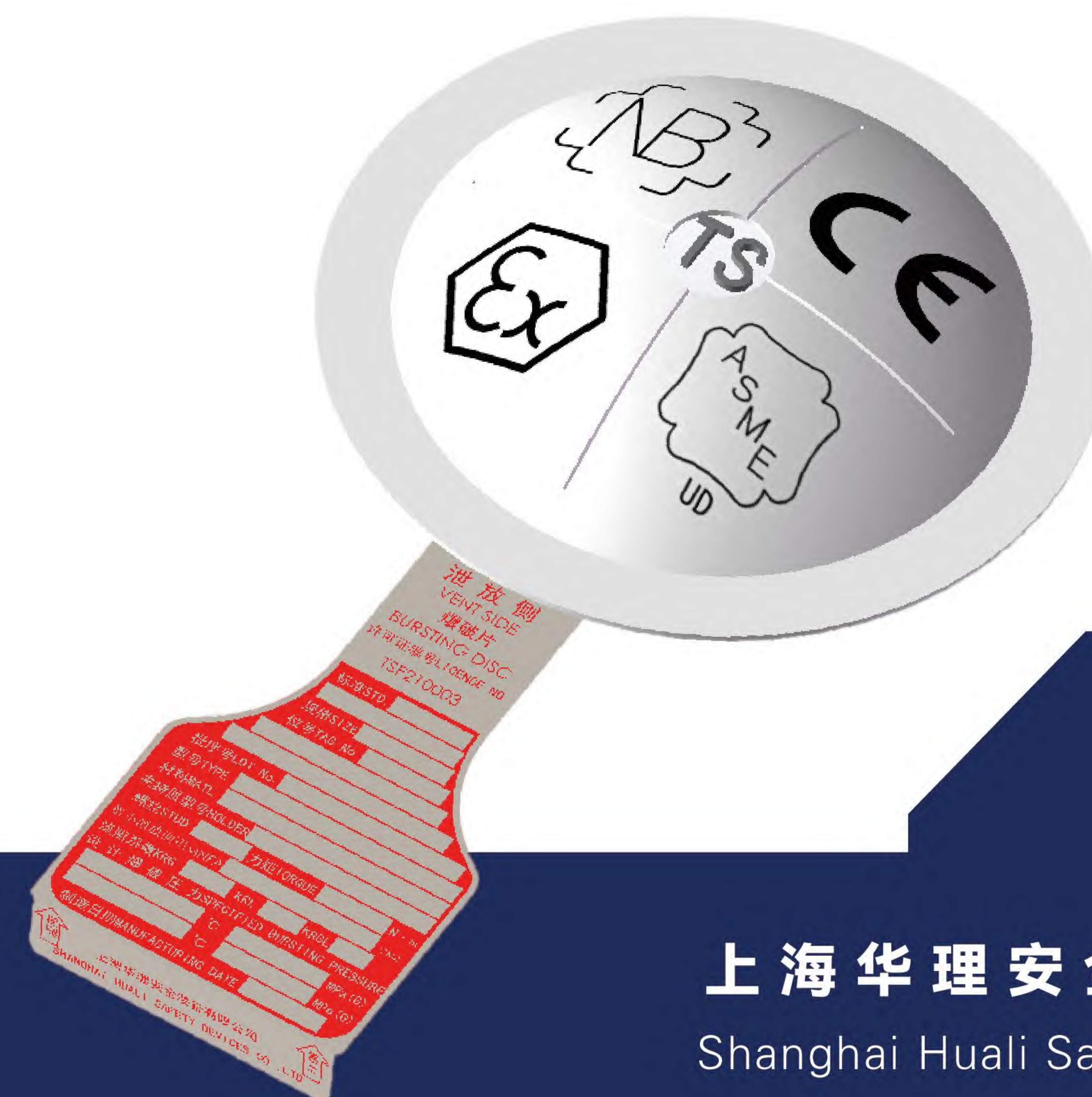
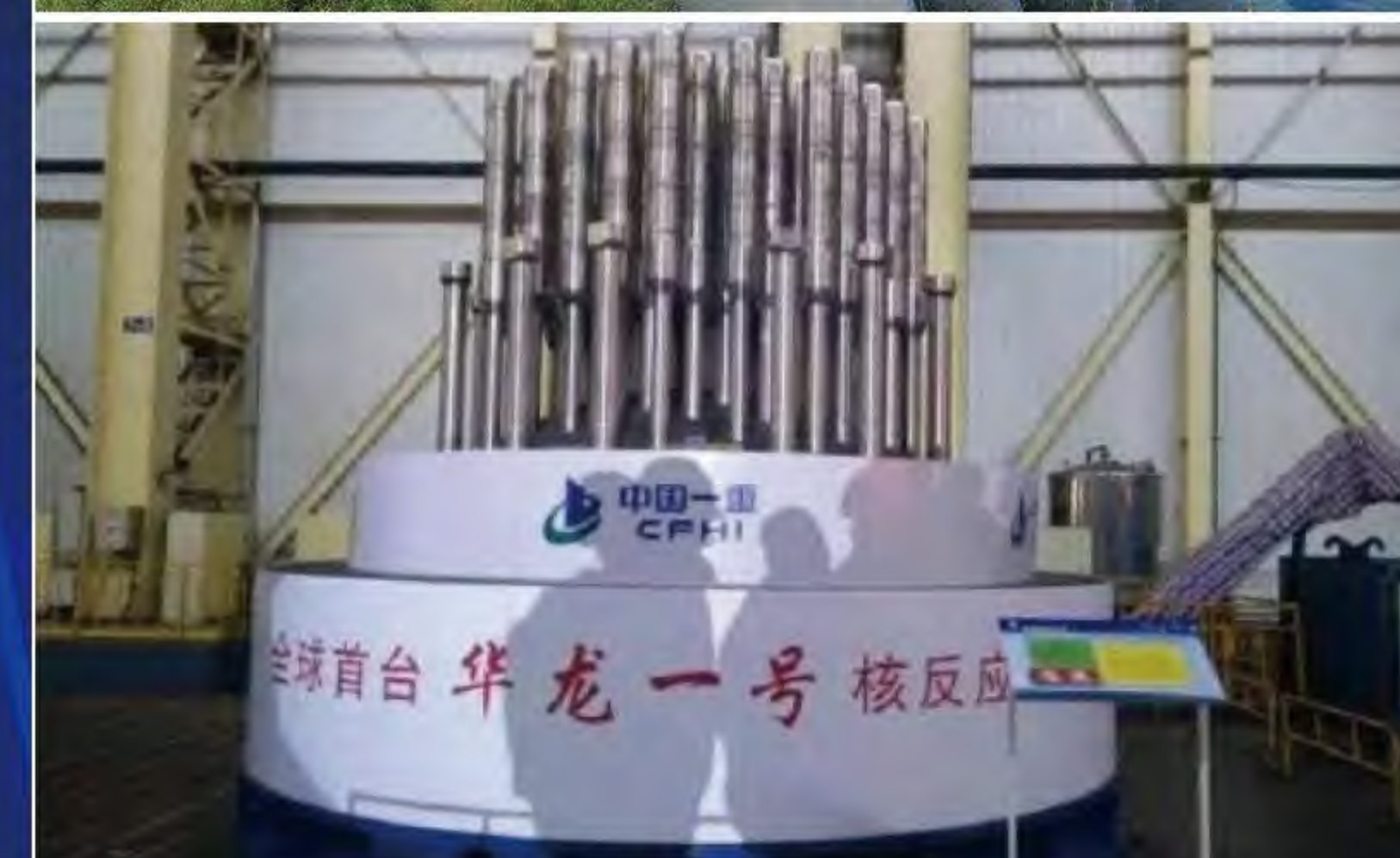
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爆破片装置

BURSTING DISC DEVICES



上海华理安全装备有限公司

Shanghai Huali Safety Devices Co., Ltd.

AREA OF PRODUCTS
产品领域



DIRECTORY
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COMPANY PROFILE

公司简介



公司主要产品是爆破片装置。近十年，公司成功研制了无焰泄放装置、隔爆阀、管道阻火器等工业防爆设备，产品从最初单一的爆破片装置扩展延伸到了工业安全系统多领域，并获得专利授权50余项，成果转化12项。

公司1995年取得爆破片装置产品制造许可证，1998年被认定为上海市高新技术企业，2009年被认定为徐汇区科技小巨人培育企业，2018年被认定为闵行区科技小巨人培育企业，2021年成立闵行区企业技术中心，2021年被认定为上海市科技小巨人培育企业，2023年成为第五批工信部专精特新“小巨人”企业。

公司注重质量管理和体系认证。已通过ISO9001质量管理体系认证，两化融合体系、ISO14001环境管理体系、ISO45001职业健康安全管理体系和安全生产标准化体系。爆破片装置取得了中国TS证书、美国ASME UD证书、欧洲CE证书，电讯号装置拥有TÜV认证的ATEX及IECEX证书，无焰泄放装置和管道阻火器分别通过了上海化工研究院、沈阳特种设备检测研究院和德国国家防爆研究院（IBExU）的型式或产品认证试验。

公司积极参与爆破片装置标准的编制工作，主编三项、参编二十余项相关的国家、行业标准和安全技术规范。公司是上海市气体工业协会理事单位，中国工业气体工业协会压力设备专业委员会会员单位，工业防爆新技术联盟理事会员单位，全国机械安全标准化技术委员会防爆工作组成员单位，ISO/TC220 WG3工作组副组长单位。公司总经理吴全龙是国家行业标准主要制定者，现为全国安全泄压装置标准化技术委员会委员、移

上海华理安全装备有限公司是以华东理工大学科技人员二十多年研究成果为基础创建的科技型企业。公司前身为上海华理安全装备厂，成立于1994年11月，经过三十年如一日的深耕，拥有员工近150名，研发人员超过50名，已成为国内爆破片装置设计与制造的领先者。

动式压力容器标准化技术委员会委员、固定式压力容器标准化技术委员会委员，并担任中国技术监督情报协会危化品储运装备技术与信息化工作委员会专家、ISO/TC185 WG17工作组成员、ISO/TC220 WG3工作组成员、ISO/TC11专家。

严谨的管理、优异的产品和诚信的服务为公司赢得了稳定的市场。公司目前用户已超过5000家，产品在化工、石油石化、核电、医药、消防、制冷、粉尘、高压气体运输、电力、低温气体等行业得到了广泛的应用。

公司坚持以服务市场、服务顾客为宗旨，提供技术咨询、技术培训、现场安装指导等全方位的服务。

上海华理安全装备有限公司的发展离不开广大顾客、各界朋友及各级质量监督机构的支持和监督。面向未来，我们将一如既往、开拓进取，始终坚持我们的质量目标。真诚欢迎各界新老朋友与我们合作，共创和谐美好的明天。

工业，因我们而更安全。



Shanghai Huali Safety Devices Co., Ltd. is a technology-based company established on the foundation of over 20 years of research by scientists from East China University of Science and Technology. Our company, formerly known as Shanghai Huali Safety Devices Factory, was founded in November 1994. After nearly three decades of dedicated work, it now boasts nearly 150 employees, with over 50 R&D technicians, and has emerged as a leading manufacturer of Bursting Disc Devices in China.

The main product of our company is Bursting Disc Devices. In the past decade, our company has successfully developed Flameless Explosion Venting Devices, Explosion Isolation Flap Valves, Flame Arresters, and other industrial explosion-proof equipments. Our product range has expanded from the initial Bursting Disc Devices into various areas of industrial safety systems, with over 50 patents and 12 transformation projects of high-tech achievements.

In 1995, our company obtained the Production License of Special Equipment of People's Republic of China for Bursting Disc Devices. In 1998, our company was recognized as a high-tech enterprise in Shanghai. In 2009, our company was designated as a technology "Little Giant" incubation enterprise in Xuhui District, and in 2018, it received the same recognition in Minhang District. In 2021, our company established the Enter-

CERTIFICATES OF HONOR 荣誉证书



CERTIFICATES OF HONOR 荣誉证书



INTRODUCTION OF BURSTING DISC DEVICES

爆破片装置简介

爆破片装置是由压力差驱动、非重闭的紧急泄压装置。适用于压力容器、管道或其他密闭空间防止超压或出现过度真空的安全泄放装置。与安全阀相比，爆破片装置具有泄放面积大、动作灵敏、精度高、密封性好、耐腐蚀和不易堵塞等优点。爆破片既可单独使用，也可与安全阀组合使用。

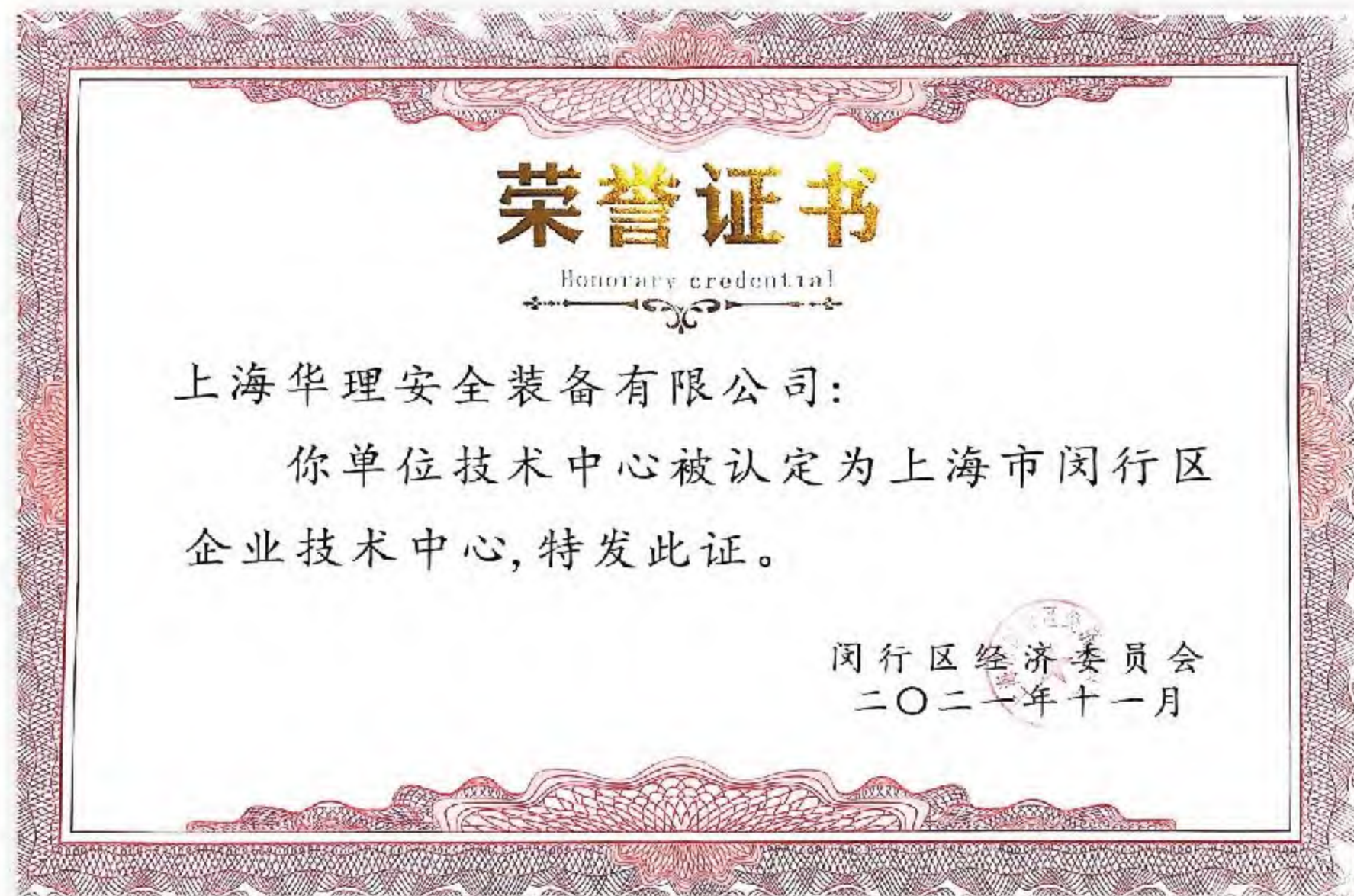
爆破片装置是由爆破片(或爆破片组件)、夹持器(或支承圈、压环)等装配组成的非重闭式压力泄放装置。当爆破片两侧压力差达到设定温度下的设定值时，爆破片即刻动作(破裂或脱落)，泄放出压力介质。夹持器的作用是夹紧和保护爆破片，以保证爆破压力稳定。

本公司生产的爆破片装置基本类别有：平板形、正拱形、反拱形及石墨爆破片。

The bursting disc devices is an emergency pressure relief devices driven by pressure difference and not reclosed. It is also a safety relief device which is applicable in pressure vessels, pipes or other sealed space to avoid overpressure or excessive vacuum. The bursting disc devices has many advantages compared to the safety valve, such as large relief area, sensitive action, high accuracy, good sealing quality, corrosion resistance and no blockage. The bursting disc can either be used individually or combined with the safety valve.

The bursting disc device is a non-reclosing pressure relief device, composed of bursting discs (or bursting disc assembly), holders (or support rings, pressure rings) and other fittings. When the differential pressure of the two sides of bursting disc reaches the desired value under target temperature, the bursting disc would act immediately (crack or peel) to remedium. The holders are used to clamp and protect lease pressure the bursting discs to ensure the stable bursting pressure.

The basic types of bursting disc devices produced by our company are:flat bursting disc, conventional domed disc, reverse domed bursting disc and graphite bursting disc.



本公司生产的爆破片装置适用以下标准:

The following standards are applicable for the bursting disc devices produced by our company:

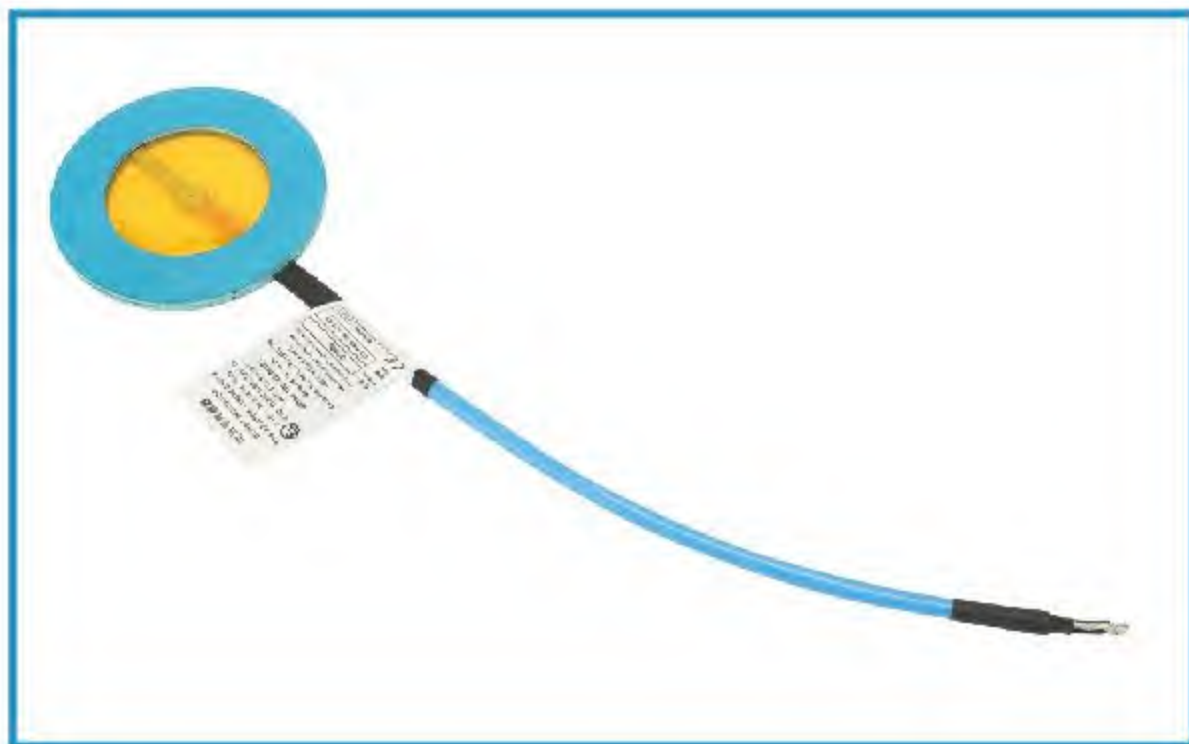
- TSG ZF003 《爆破片装置安全技术监察规程》
- TSG ZF003 Safety Technical Supervision Regulations For Bursting Disc Devices
- GB/T567 《爆破片安全装置》 GB/T567 《Bursting disc safety devices》
- GB/T 150.1 《压力容器》 附录B GB/T150.1 《Pressure vessels》 Appendix B
- ISO4126-2 《Safety devices for protection against excessive pressure》
- ASME BPVC.X III 《Rules for Overpressure Protection》

爆破片装置附件选配:

Bursting disc devices accessories selection

1、爆破压力信号传感器

Burst pressure sensor



2、泄零装置 (三通、接管、溢流阀、压力表)

Zero discharge devices(tee, nozzle, relief valve, pressure gauge)



3、防爆接线盒

Explosion-proof junction box



正拱形爆破片装置技术特性

Technical features of conventional domed bursting disc devices

爆破片预制成拱形，使用时凹面接触介质，凸面朝向泄放侧，爆破机理为强度破坏，动作时爆破片发生拉伸破裂。

The bursting disc is prefabricated into a dome with the concave surface contacting with the medium and the convex towards the relief side in using. The bursting mechanism is strength failure and the tensile cracking of the bursting disc would occur when it bursts.

常用结构型式有正拱普通型(LP型)、正拱开缝型(LF型)、正拱带槽型(LC型)，相配夹持器可选用平面和锥面等密封型式，爆破压力较高时采用锥面密封。

The common structure types are conventional simple domed (LP), conventional domed slotted (LF) and conventional domed scored (LC). The suitable holder can be of flat, cone and other sealing types, and the cone sealing shall be taken when the bursting pressure is relatively high.

反拱形爆破片装置技术特性

Technical features of reverse domed bursting disc devices

爆破片预制成拱形，使用时凸面接触介质，凹面朝向泄放侧，爆破机理为失稳破坏。动作时爆破片发生压缩失稳翻转，致使其破裂或脱落。

The bursting disc is prefabricated into a dome with the concave contacting with the medium and the convex towards the relief side in using. The bursting mechanism is losing stable. The compression and unstable rollover of the bursting disc occur, causing cracking or peeling when it bursts.

常用结构型式有反拱带刀型(YD型)、反拱鳄鱼齿型(YE型)、反拱带槽型(YC、YCP、YCH型)、反拱开缝型(YF型)。

The common structure types are reverse domed with knife blades (YD), reverse domed alligator tooth (YE), reverse domed scored (YC、YCP、YCH), reverse domed slotted (YF) .

平板形爆破片装置技术特性

Technical features of flat bursting disc devices

爆破片为平板形，爆破机理为强度破坏，动作时爆破片发生拉伸破裂。

The bursting disc is plate shaped, the bursting mechanism is strength failure and the tensile cracking of the bursting disc would occur when it bursts.

常用结构型式有平板普通型(PP型)、平板开缝型(PF型)、平板带槽型(PC型)

The common structure types are flat simple(PP),flat slotted lined (PF), flat scored(PC).

COMMON MATERIALS FOR BURSTING DISCS

爆破片常用材料

爆破片材料性能是影响爆破压力的一个重要因素，在选用爆破片材料时既要考虑到材料的最高使用温度，同时还得考虑材料对介质的耐腐蚀能力。爆破片所用材料不允许被介质腐蚀。需要时，可在与介质接触的金属表面上喷涂氟塑料层或增加氟塑料保护层作为防腐保护膜。

The material performance of the bursting disc is an important factor to affect the bursting pressure. The maximum operating temperature of the materials, and also the anti-corrosion resistance to medium shall be both taken into account during the selection of bursting disc materials. The materials used for bursting disc are not allowed to be corroded by medium. A fluoroplastic coating can be sprayed on the surface of the metal which contacts with the medium or a fluoroplastic protective coating can be added as an anti-corrosive protection film.

爆破片材料 Bursting disc materials	最高允许使用温度℃ Maximum operating temperature℃
铝Al	100
铜Cu	200
镍Ni	400
奥氏体不锈钢 Austenitic stainless steel	400
铜镍合金 {蒙乃尔} Nickel-copper alloy {Monel}	430
铬镍合金 {因康镍} Chrome-nickel alloy {Inconel }	480
哈氏合金Hastelloy	480
石墨Graphite	200

注：当爆破片表面有喷涂层或爆破片组件中用氟塑料作密封膜时，应注意材料的使用温度。
Note: when the spray coating exists on the surface of bursting disc, or the fluoroplastic sealing film is used in bursting disc assembly, care should be taken for the operating temperature of the materials.
喷涂层或爆破片组件中使用F4(或PFA)，最高使用温度为260℃；
When F4 (or PFA) is used in the spraying coating or bursting disc assembly, the maximum operating temperature is260℃;
喷涂层或爆破片组件中使用F46，最高使用温度为200℃。
When F46 is used in the spray coating or bursting disc assembly, the maximum operating temperature is 200℃.

选择其他特殊爆破片材料如钽，钛等可与制造厂家联系。
Contact with the manufacturers for the choice of other special bursting disc materials, such as tantalum, titanium.

SELECTION REFERENCES FOR HOLDER MATERIALS

夹持器材料选用参考



碳钢 carbon steel	Q235-B	20	16Mn	Q345E	
不锈钢 stainless steel	06Cr13	12Cr13	06Cr19Ni10 (304)	022Cr17Ni12Mo2 (316L)	
特种材料 special material	镍 Nickel	蒙乃尔 Monel	因康镍 Inconel	哈氏合金 Hastelloy	钛 Titanium

TYPE CODE FOR BURSTING DISC AND HOLDER

爆破片与夹持器结构型式代号

结构 型式	正拱 普通	正拱 开缝	正拱 带槽	平板 普通	平板 开缝	平板 带槽	反拱 带刀	反拱 鳄齿	反拱 开缝	反拱 带槽	石墨 爆破片
爆破片	LP	LF	LC	PP	PF	PC	YD	YE	YF	YC	PM
夹持器	LJ	LJ	LCJ	PJ	PJ	PJ	YJ	YOJ	YOJ	YOJ	PMJ

Structure type	Conventional single domed	Conventional domed slotted	Conventional domed scored	Flat simple	Flat slotted
Bursting disc	LP	LF	LC	PP	PF
holder	LJ	LJ	LCJ	PJ	PJ
Flat scored	Reverse domed with knife blades	Reverse domed alligator tooth	Reverse domed slotted	Reverse domed scored	Graphite bursting disc
PC	YD	YE	YF	YC	PM
PJ	YJ	YOJ	YOJ	YOJ	PMJ

LP BURSTING DISC

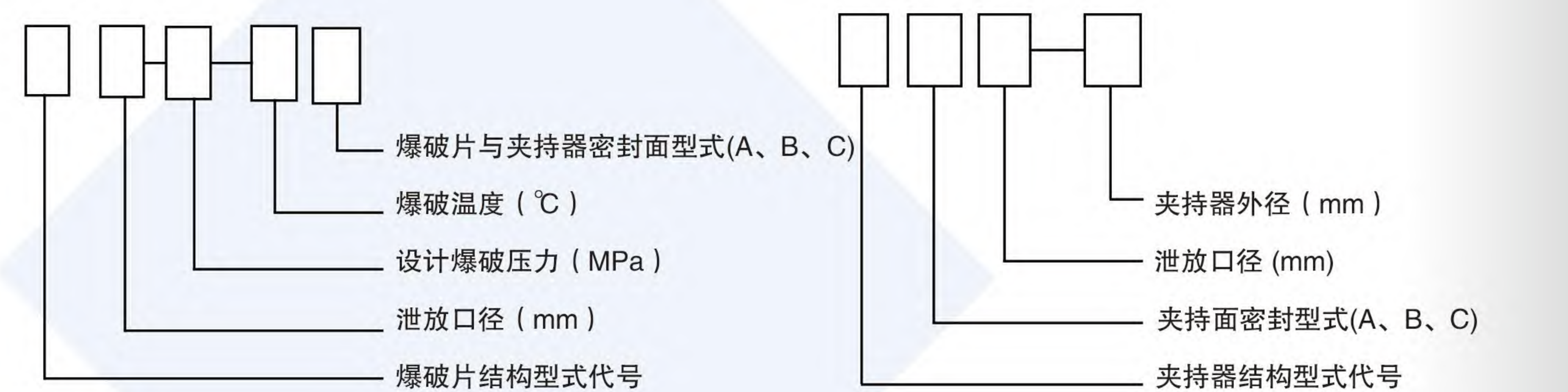
LP型爆破片（正拱普通型）(TS CE)

产品描述 Product description:

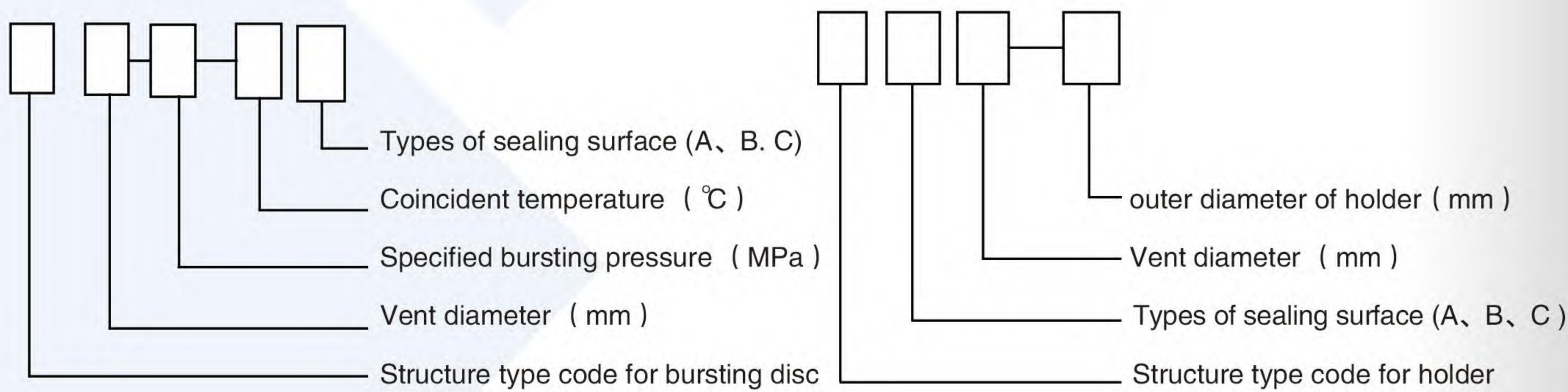
爆破片为单层膜片，超压时拱壳壁厚减薄而被拉伸破坏，也称拉伸型爆破片。
The bursting disc is of single-layer film, and the dome shell is stretched for failure because of the thinning of the wall when it is overpressure. Therefore, this kind of bursting disc is also called tensile bursting disc.

技术特性 Technical features:

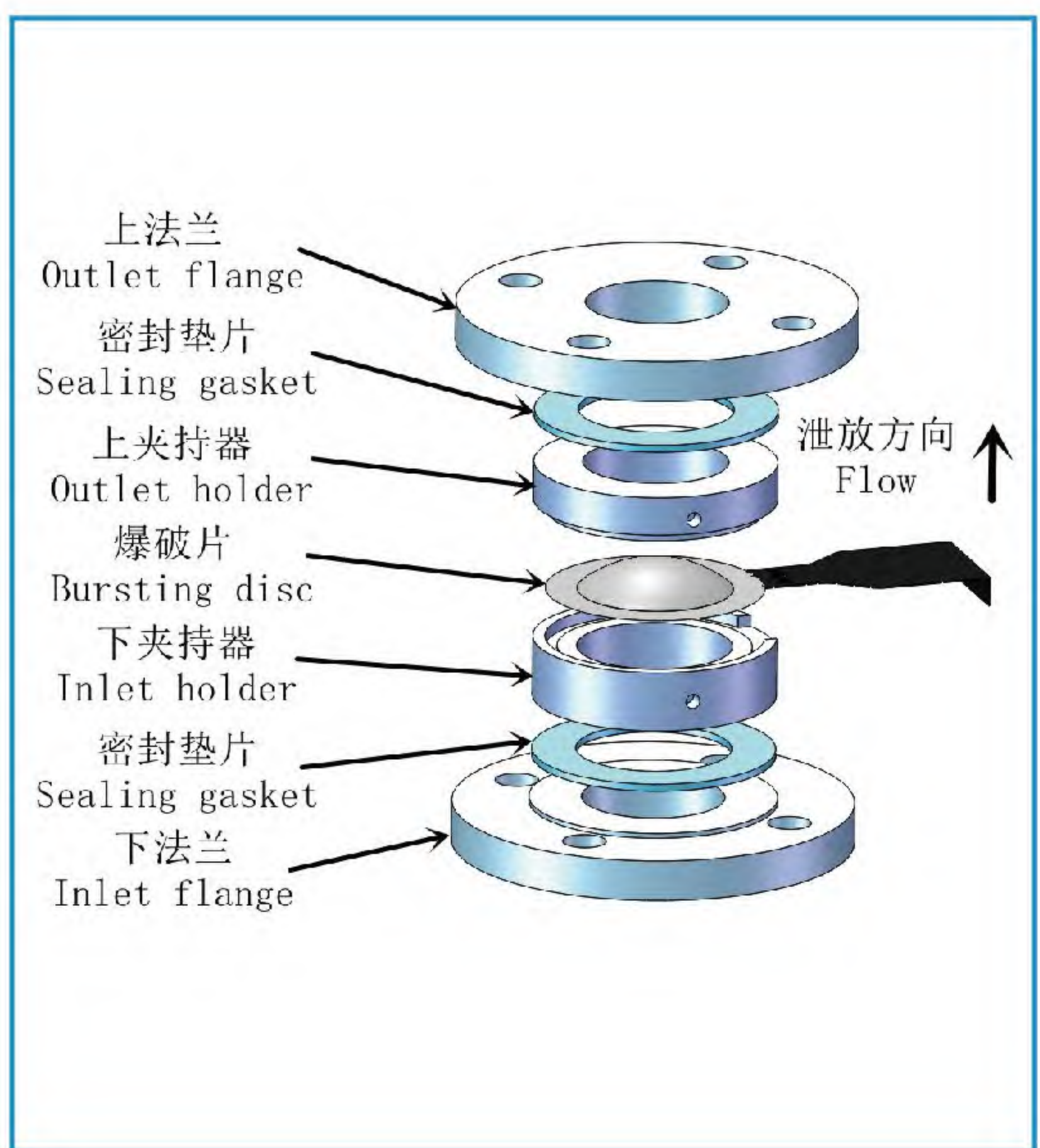
- 1.适用于气，液两种介质及爆破压力较高的工况；
Applied to gas, liquid medium and the operating conditions of higher bursting pressure;
- 2.带托架可以承受背压（代号为LPT）；
With the bracket to withstand back pressure (code: LPT);
- 3.最大工作压力可达最小爆破压力的70%；
Maximum operating pressure can reach 70% of the minimum bursting pressure;
- 4.爆破时可能产生碎片，不推荐和安全阀串联使用；
Fragments may arise in bursting, so the serial usage with the safety valve is not recommended;
- 5.由于受材料强度的限制，其爆破压力范围有一定的局限性；
Due to restrictions on material strength, bursting pressure range has some limitations;
- 6.产品铭牌有TS或CE标识；
The product nameplate is marked with TS or CE;
- 7.尺寸Size: DN3~DN1000mm。



*A——平面，B——锥面，C——带“V”槽的平面
举例：LP50-5.0-100A,表示爆破片结构型式为正拱普通型，泄放口径为 ϕ 50mm,在100℃时设计爆破压力为5.0MPa，密封面型式为平面密封。相配夹持器型号标记为LJA50-100,表示夹持器泄放口径为 ϕ 50mm，外径为 ϕ 100mm。



A---flat sealing B---cone sealing C---flat sealing with a v slot
For example, LP50-5.0-100A indicates that the structure type of bursting disc is conventional simple domed type, the vent diameter is ϕ 50mm, the specified bursting pressure is 5.0MPa under 100℃, and the sealing face is of flat sealing. The model sign LJA50-100 of the matched holder indicates that the vent diameter of the holder is ϕ 50mm and the outer diameter is ϕ 100mm.



LF BURSTING DISC

LF型爆破片（正拱开缝型）(TS CE)

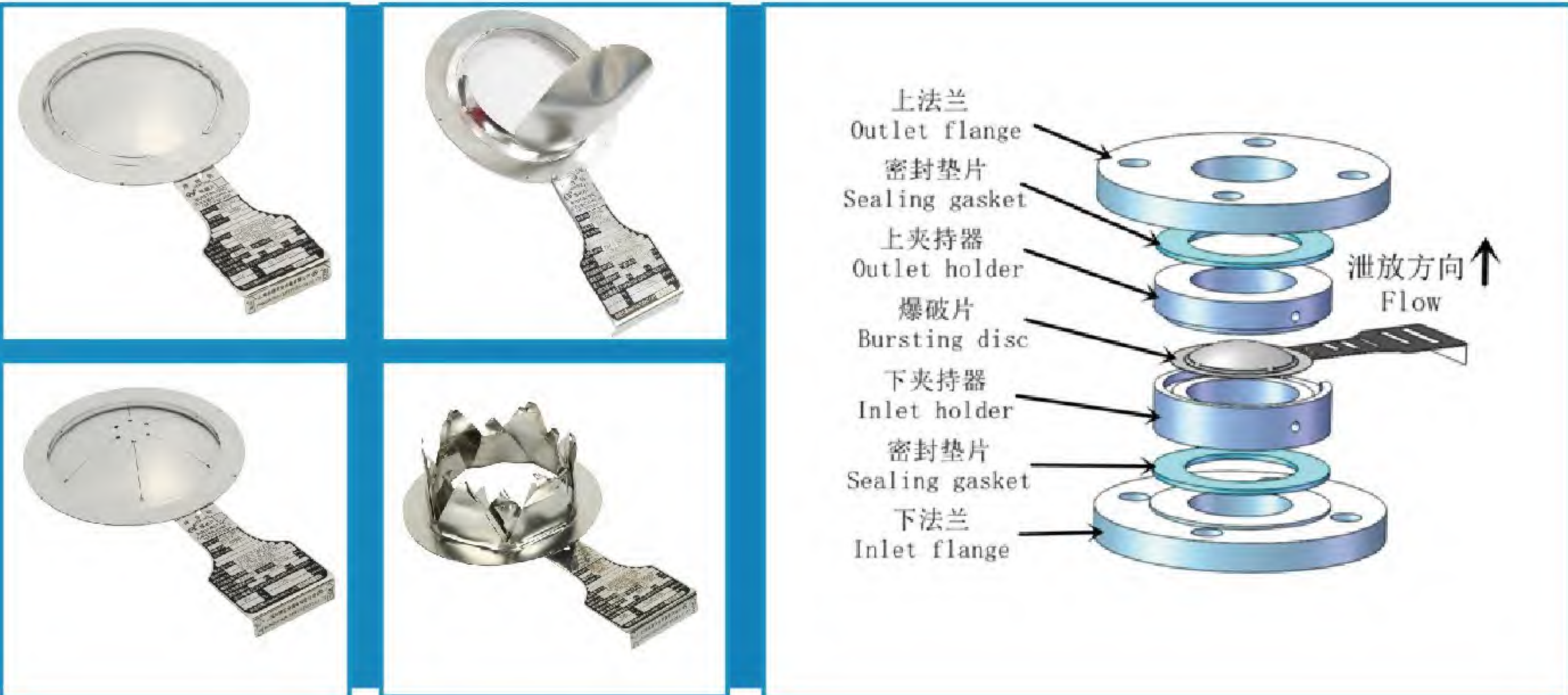
产品描述 Product description:

组合式爆破片，由强度膜和密封膜等零件组成，对于需要承受背压的情况需加一层托架。强度膜和托架上开有削弱材料强度的孔和缝（径向或环向开缝），超压时在最小孔距的截面处拉伸破坏。

Composite bursting disc, composed of strength film, sealing film and other components. For the situations where the back pressure needs to be withstood, a support shall be added. Holes and slots (radial or circumferential) are made in the strength film and back support film to weaken the material strength. The tensile failure occurs in the cross-section with minimum pitch when overpressure.

技术特性 Technical features:

- 1.适用于气，液两种介质及中，低压爆破压力的工况；
Applied to gas, liquid medium and the operating conditions of middle and low bursting pressure;
- 2.选用密封膜时，要考虑其温度适用范围；
When selecting a sealing film, its temperature application range should be considered;
- 3.最大工作压力可达最小爆破压力的80%；
Maximum operating pressure can reach 80% of the minimum bursting pressure;
- 4.爆破时可能产生碎片，不推荐和安全阀串联使用；
Fragments may arise in bursting, so the serial usage with the safety valve is not recommended;
- 5.大口径LF型爆破片可获得很低的爆破压力，适用于粉尘泄压抑爆场合；
LF bursting disc with large diameter may gain extremely low bursting pressure, applicable in dust pressure-relief and explosion-suppression occasions;
- 6.不加托架产品代号为LF，加托架代号为LFT；
Code of Products without support is LF, and the code of products with support is LFT;
- 7.产品铭牌有TS或CE标识；
The product nameplate is marked with TS or CE;
- 8.尺寸Size: DN10~DN1200mm。



LC BURSTING DISC

LC型爆破片（正拱带槽型）(TS CE)

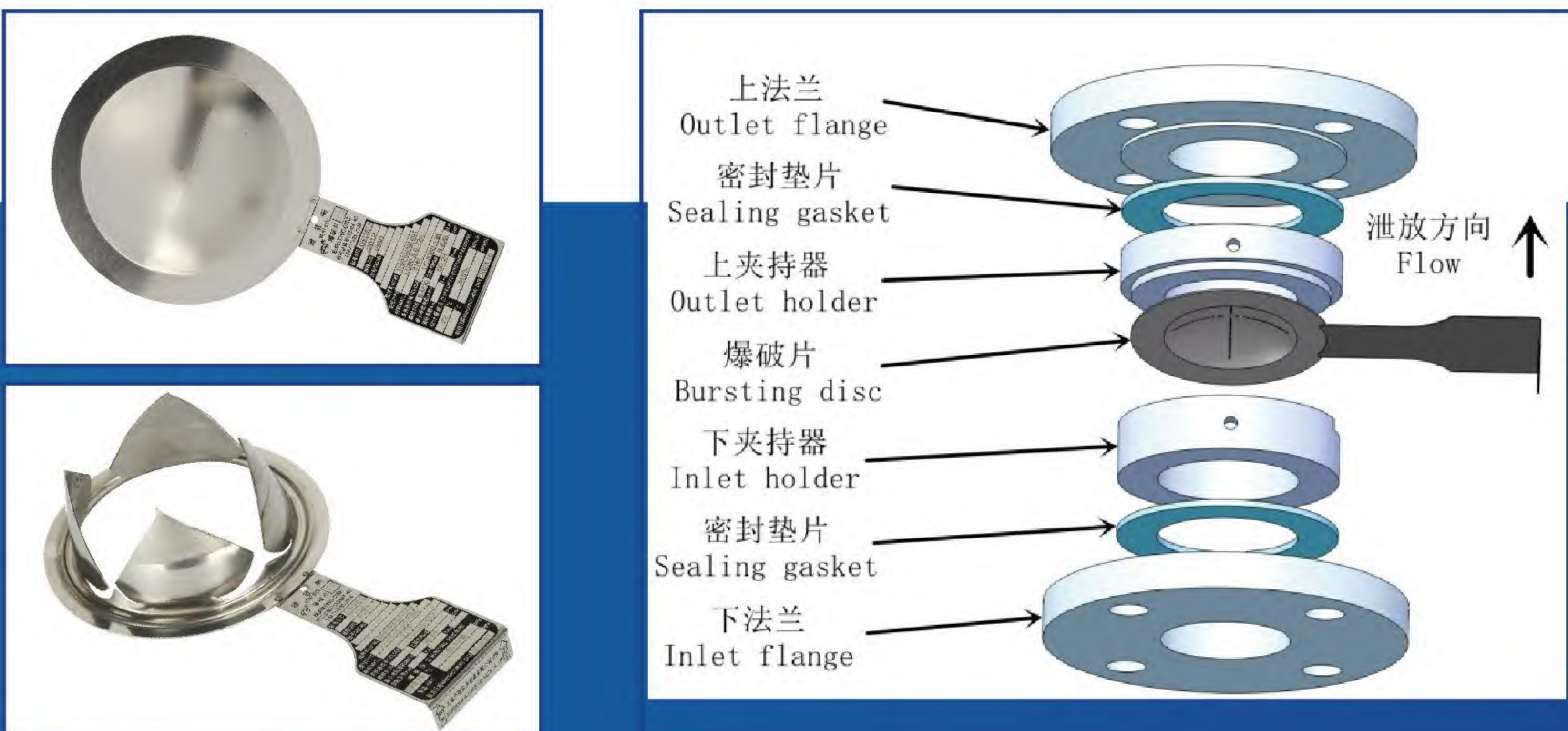
产品描述 Product description:

爆破片为单层膜片，凹面或凸面刻有削弱强度的十字槽或环形槽，超压时从刻槽处拉伸破坏。

The bursting disc is of single layer film. The cross notch or annular notch is made in the concave or convex to weaken the strength. The tensile failure occurs from the notching place in overpressure.

技术特性: Technical features:

- 1.适用于气，液两种介质；
Applied to gas, liquid medium;
- 2.适用于爆破压力较高的场合；
Applied to occasions with higher bursting pressure;
- 3.最大工作压力可达最小爆破压力的80%；
Maximum operating pressure reaches 80% of the minimum bursting pressure;
- 4.爆破时不产生碎片，可以和安全阀串联使用；
No fragments are generated in bursting, and the serial usage with the safety valve is available;
- 5.爆破时没有火花；
No sparks are generated in bursting;
- 6.产品铭牌有TS或CE标识；
The product nameplate is marked with TS or CE;
- 7.尺寸Size: DN3~DN500mm。



YD BURSTING DISC

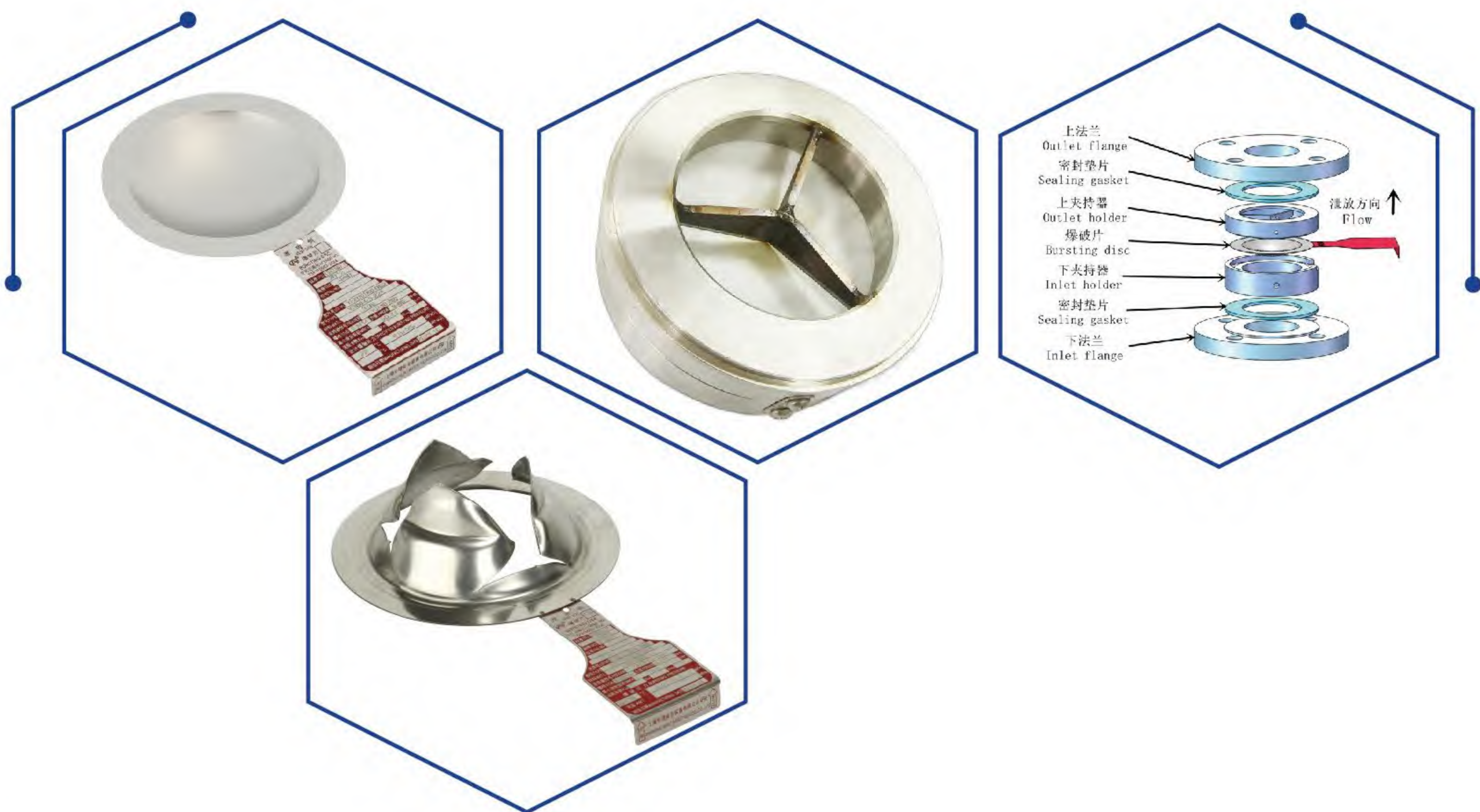
YD型爆破片 (反拱带刀型) (TS)

产品描述 Product description:

爆破片为单层膜片，与带有刀架的夹持器相配，膜片失稳翻转后靠夹持器上刀架使爆破片破裂泄放。
The bursting disc is of single film, matching the holder with knife blades. After the unstable rollover, the knife blades of the holder makes the bursting disc burst and release.

技术特性: Technical features:

1. 适用于气相介质及气液相介质，爆破压力范围较大；
Applied in gas medium and gas-liquid medium, and the range of bursting pressure is wide;
2. 承受背压能力好，无需托架即可承受全真空；
With the high ability to withstand back pressure, it can bear the full vacuum without any back pressure support;
3. 最大工作压力可达最小爆破压力的90%；
The maximum operating pressure can reach 90% of the minimum bursting pressure;
4. 抗疲劳，可用于有脉动压力场合；
Anti-fatigue, and it can be used in places with fluctuating pressure;
5. 爆破后没有碎片，可以和安全阀串联使用；
No fragments are generated in bursting, and the serial usage with the safety valve is available;
6. 爆破时有火花，不适于易燃易爆介质；
Sparks may arise in bursting, so it is not suitable for flammable and explosive media;
7. 产品铭牌有TS标识；
The product nameplate is marked with TS ;
8. 尺寸Size: DN20~DN600mm。



YE BURSTING DISC

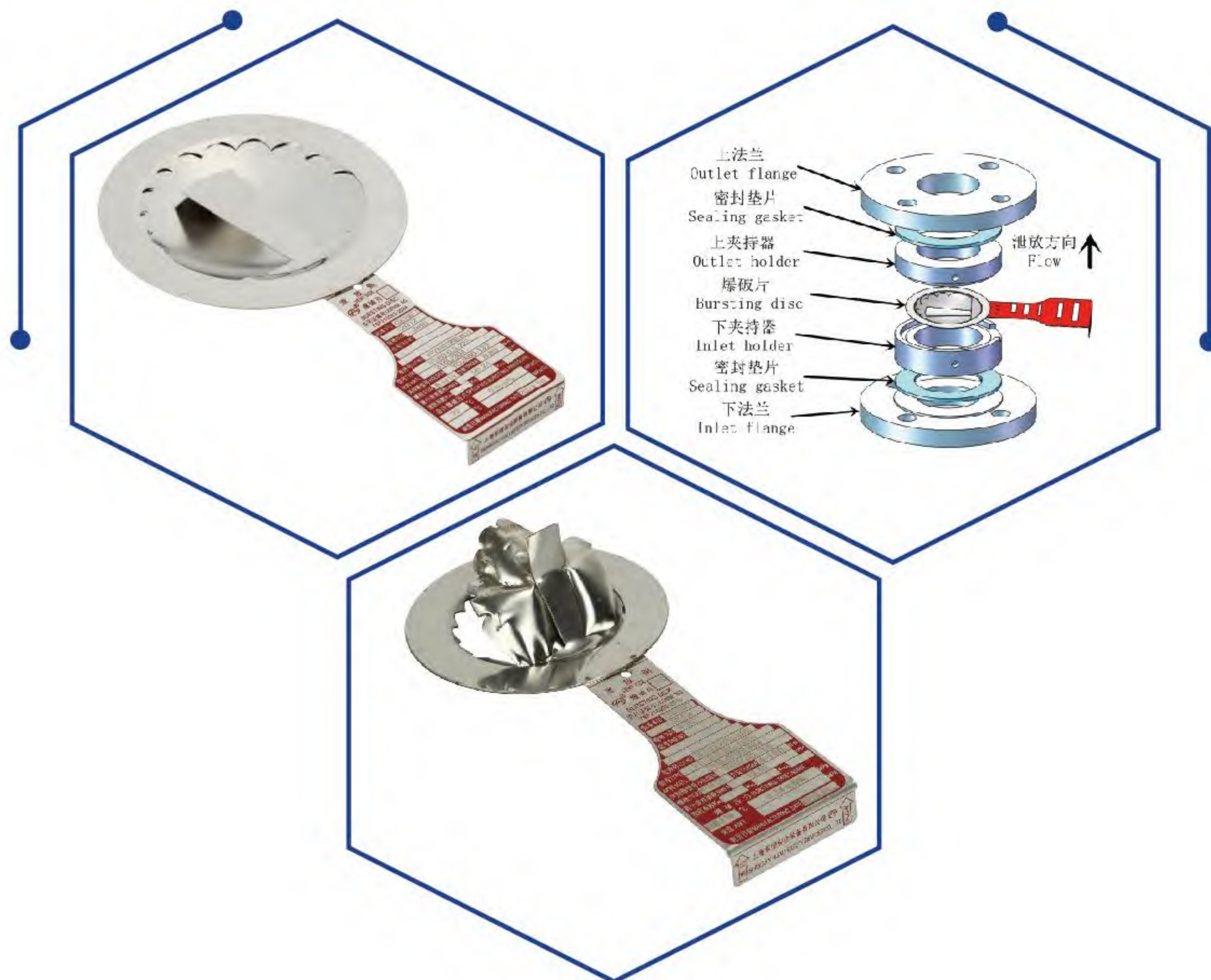
YE型爆破片 (反拱鳄鱼齿型) (TS)

产品描述 Product description:

由单层膜片与鳄鱼齿环组合而成，膜片失稳翻转后靠紧贴其上的鳄鱼齿使爆破片破裂泄放。
Combined with the single film and alligator tooth ring. After the diaphragm's unstable rollover, the alligator tooth closed to the diaphragm makes the bursting disc burst and release.

技术特性: Technical features:

1. 适用于气相介质及气液相介质；
Applied in gas medium and gas-liquid medium;
2. 承受背压能力好，无需托架即可承受全真空；
With the high ability to withstand back pressure, it can bear the full vacuum without any support;
3. 最大工作压力可达最小爆破压力的90%；
The maximum operating pressure can reach 90% of the minimum bursting pressure;
4. 抗疲劳，可用于有脉动压力场合；
Anti-fatigue, and it can be used in places with fluctuating pressure;
5. 爆破后没有碎片，可以和安全阀串联使用；
No fragments are generated in bursting, and the serial usage with the safety valve is available;
6. 适用于压力较低的场合；
It is applicable for places with low pressure;
7. 产品铭牌有TS标识；
The product nameplate is marked with TS ;
8. 尺寸Size: DN15~DN300mm。



YC BURSTING DISC

YC型爆破片（反拱带槽型）(TS CE)

产品描述 Product description:

爆破片为拱形膜片，拱的凹面刻有十字削弱槽，失稳翻转后爆破片沿刻槽处撕裂泄放。
The bursting disc is reverse domed, with impair slot in concave. After its unstable rollover, it can burst and release along the slitting.

技术特性 Technical features:

- 1.适用于气相介质及气液相介质；
Applied in gas medium and gas-liquid medium;
- 2.承受背压能力好，无需托架即可承受全真空；
With the high ability to withstand back pressure, it can bear the full vacuum without any support;
- 3.最大工作压力可达最小爆破压力的90%；
The maximum operating pressure can reach 90% of the minimum bursting pressure;
- 4.抗疲劳，可用于有脉动压力场合；
Anti-fatigue, and it can be used in places with fluctuating pressure;
- 5.爆破后没有碎片，可以和安全阀串联使用；
No fragments are generated in bursting, and the serial usage with the safety valve is available;
- 6.爆破时没有火花；
No sparks are generated in bursting;
- 7.产品铭牌有TS或CE标识；
The product nameplate is marked with TS or CE;
- 8.尺寸Size: DN6~DN500mm。



YCP BURSTING DISC

YCP型爆破片（反拱平面环向带槽型）(TS)

产品描述 Product description:

爆破片为组合式反拱带槽型爆破片，基本结构由压力敏感元件和加强环组成，压力敏感元件的密封面上刻有削弱槽。
The bursting disc is composite reverse domed scored. It is composed of a tightening ring and a pressure-sensitive component with a impair slot on the sealing surface.

技术特性 Technical features:

- 1.适用于液相、气相及气液混合相介质；
Applied in liquid medium, gas medium and gas-liquid medium;
- 2.适用于比YC型爆破片压力更低的场合；
Applied in places with lower pressure than YC;
- 3.承受背压能力好，无需托架即可承受全真空；
With the high ability to withstand back pressure, it can bear the full vacuum without any support;
- 4.最大工作压力可达最小爆破压力的90%；
The maximum operating pressure can reach 90% of the minimum bursting pressure;
- 5.抗疲劳，可用于有脉动压力场合；
Anti-fatigue, and it can be used in places with fluctuating pressure;
- 6.爆破后没有碎片，可以和安全阀串联使用；
No fragments are generated in bursting, and the serial usage with the safety valve is available;
- 7.爆破时没有火花；
No sparks are generated in bursting;
- 8.产品铭牌有TS标识；
The product nameplate is marked with TS;
- 9.尺寸DN6~DN500mm。



YCH BURSTING DISC

YCH型爆破片（反拱拱面环向带槽型）(TS)

产品描述 Product description:

爆破片为反拱带槽型爆破片，由压力敏感元件和加强环组成，压力敏感元件的拱面刻有环向削弱槽，加强环为有舌状与齿状的结构，舌状结构防止爆破片失稳翻转后飞出，齿状结构辅助膜片开启。

The bursting disc is reverse domed scored. It is composed of a tightening ring and a pressure-sensitive component with annular impair slot on the convex surface. The tightening rings are with two structures, they are lingu-late and denticulate. The ligulate ring can avoid the bursting disc flying out after losing stable and the denticulate ring assists the disc open.

技术特性 Technical features:

1.适用于气相、液相及气液混合相介质；

Applied in liquid medium、gas medium and gas-liquid medium;

2.适用于压力较低场合；

Applied in place with low pressure;

3.承受背压能力好，无需托架即可承受全真空；

With the high ability to withstand back pressure, it can bear the full vacuum without any support;

4.最大工作压力可达最小爆破压力的90%；

The maximum operating pressure can reach 90% of the minimum bursting pressure;

5.抗疲劳，可用于有脉动压力场合；

Anti-fatigue, and it can be used in places with fluctuating pressure;

6.爆破后没有碎片，可以和安全阀串联使用；

No fragments are generated in bursting, and the serial usage with the safety valve is available;

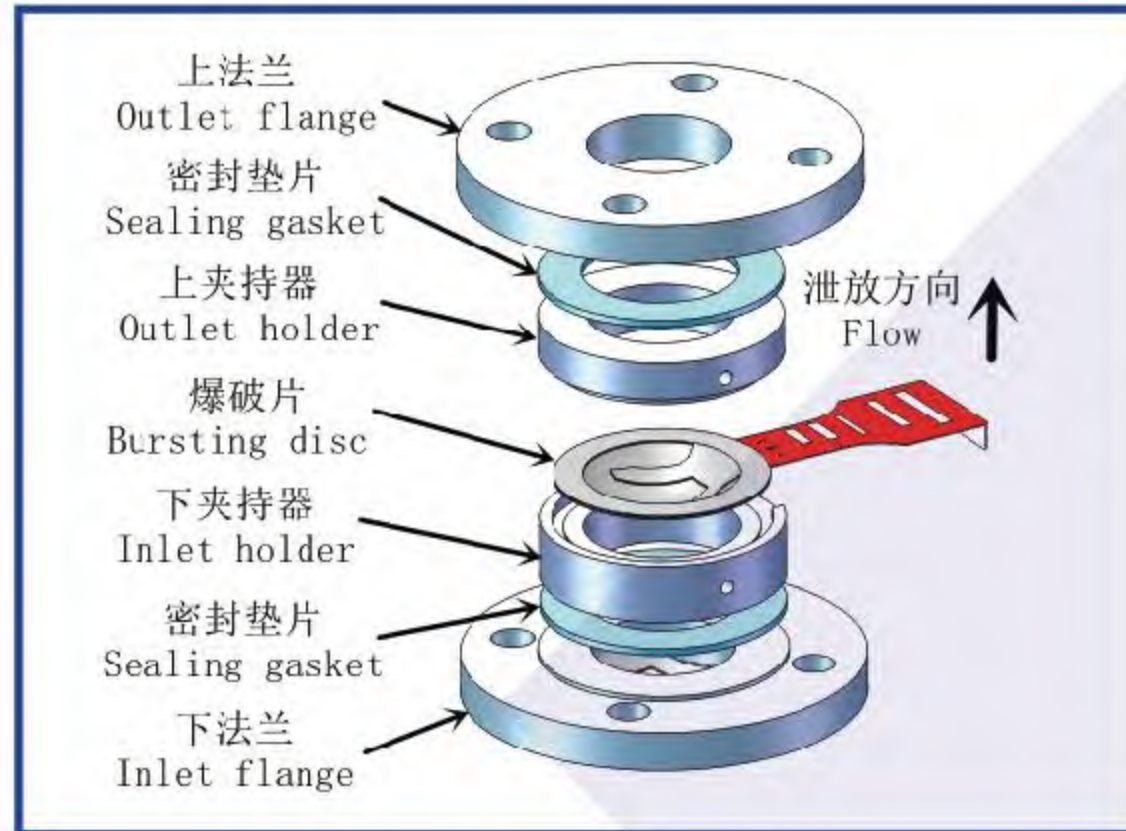
7.爆破时没有火花；

No sparks are generated in bursting;

8.产品铭牌有TS标识；

The product nameplate is marked with TS;

9.尺寸Size: DN6~DN500mm。



YF BURSTING DISC

YF型爆破片（反拱开缝型）(TS CE)

产品描述 Product description:

爆破片由带有锯齿及压杆的压力敏感元件和密封膜组合而成，压力敏感元件的压杆失稳使组合膜片翻转，密封膜被压力敏感元件上的锯齿致裂泄放。

The bursting disc is composed of pressure-sensitive components with sawtooth and pressure lever and sealing film. The instability of the pressure lever of the pressure-sensitive components makes the sealing film cracked by the sawtooth on the pressure-sensitive components to release during the rollover of bursting disc

技术特性 Technical features:

1.适用于气相介质及气液相介质；

Applied in gas medium and gas-liquid medium;

2.适用于压力较低场合；

Applied in the places with low pressure;

3.爆破时没有火花；

No sparks are generated in bursting;

4.最大工作压力可达最小爆破压力的90%；

The maximum operating pressure can reach 90% of the minimum bursting pressure;

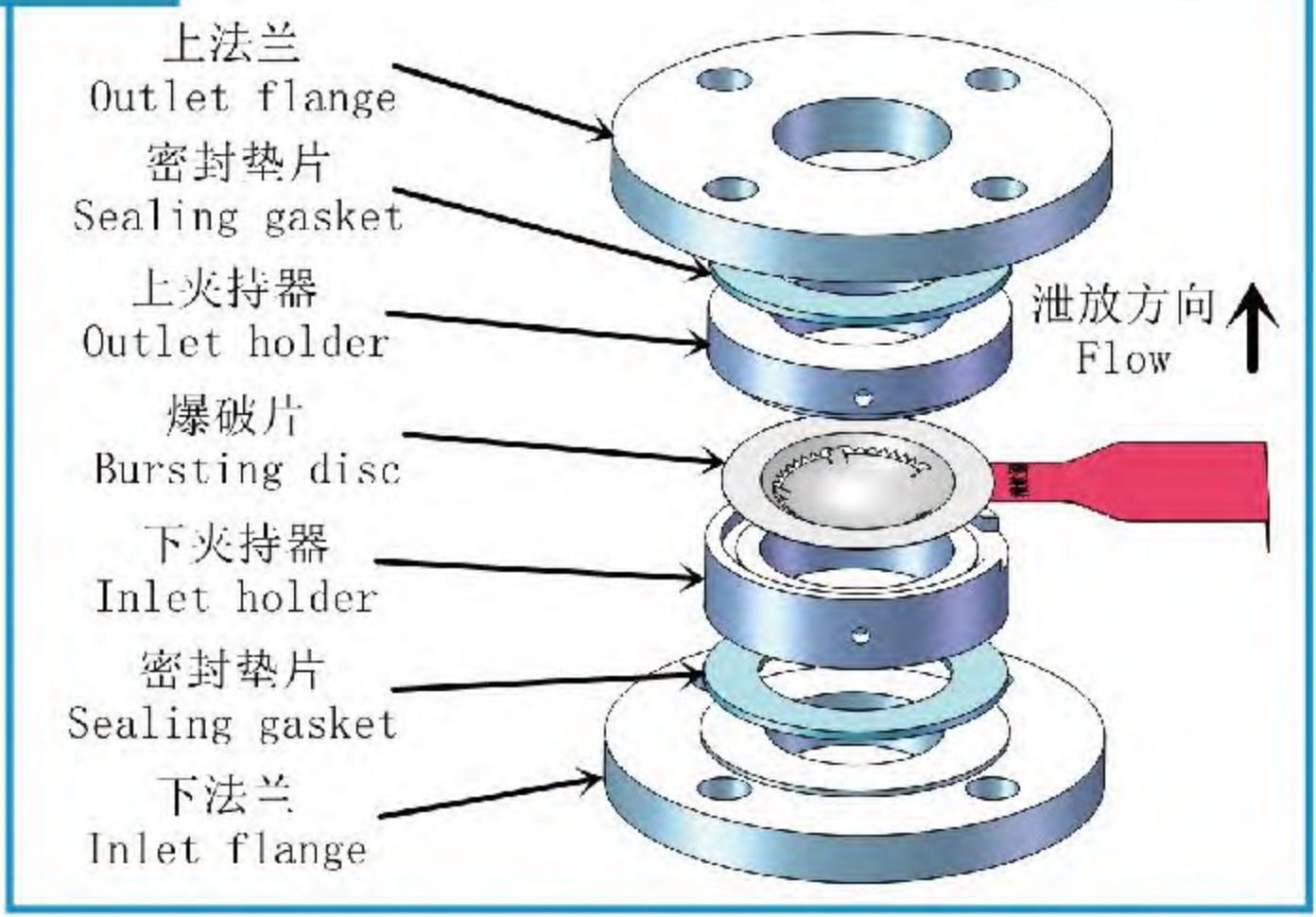
5.爆破后没有碎片，可以和安全阀串联使用；

No fragments are generated in bursting, and the serial usage with the safety valve is available;

6.产品铭牌有TS或CE标识；

The product nameplate is marked with TS or CE;

7.尺寸Size: DN15~DN900mm。



PP BURSTING DISC PP型爆破片（平板普通型）（TS）

产品描述 Product description:

爆破片为单层平板形膜片，超压时拱壳壁厚减薄而被拉伸破坏。

The bursting disc is a single flat film, and the dome shell is stretched for failure because of the thinning of the wall when it is overpressure.

技术特性 Technical features:

1.适用于气，液两种介质及爆破压力较高的工况；

Applied to gas, liquid medium and the operating conditions of higher bursting pressure;

2.最大工作压力可达最小爆破压力的50%；

Maximum operating pressure can reach 50% of the minimum bursting pressure;

3.爆破时可能产生碎片，不推荐和安全阀串联使用；

Fragments may arise in bursting, so the serial usage with the safety valve is not recommended;

4.由于受材料强度的限制，其爆破压力范围有一定的局限性；

Due to restrictions on material strength, bursting pressure range has some limitations;

5.产品铭牌有TS标识；

The product nameplate is marked with TS ;

6.尺寸Size: DN3~DN1000mm。

PF BURSTING DISC PF型爆破片（平板开缝型）（TS CE）

产品描述 Product description:

一种复合爆破片，由强度膜、密封膜等部件组成。对于需要承受背压的情况，应增加支架。在强度膜和背托架上做孔缝(径向或环向)，以削弱材料强度。超压时，两孔间距离最小的截面发生拉伸破坏。

It is a composite bursting disc, composed of a strength film, a sealing film and other components. For the situations where the back pressure needs to be withstood, a support shall be added. Holes and slots (circumferential) are made in the strength film and back support film to weaken the material strength. The tensile failure occurs in the cross-section with minimum distance between two holes when overpressure.

技术特性 Technical features:

1.适用于气体、液体介质及低爆破压力工况；

Applied to gas, liquid medium and the operating conditions of low bursting pressure;

2.选用密封膜时，要考虑其温度适用范围；

When selecting a sealing film, its temperature application range should be considered;

3.最大工作压力可达最小爆破压力的50%；

Maximum operating pressure can reach 50% of the minimum bursting pressure;

4.爆裂时可能产生碎片，不建议与安全阀串联使用；

Fragments may arise in bursting so the serial usage with the safety valve is not recommended;

5.大口径PF爆破片可获得极低的爆破压力，适用于粉尘泄压、抑爆场合；

PF bursting disc with large diameter may gain extremely low bursting pressure, applicable in dust pressure-relief and explosion-suppression occasions;

6.不带托架的产品型号为PF，带托架的产品型号为PFT；

Type of products without support is PF, and the Type of products with support is PFT;

7.产品铭牌有TS或CE标识；

The product nameplate is marked with TS or CE;

8.尺寸Size: DN15~DN1300mm。



PC BURSTING DISC

PC型爆破片（平板带槽型）（TS）

产品描述 Product description:

爆破片为单层平板形膜片，刻有削弱强度的十字槽或环形槽，超压时从刻槽处拉伸破坏。

The bursting disc is a single-layer flat-shaped diaphragm, engraved with a cross groove or annular groove that weakens the strength, and is broken by stretching from the groove when overpressure is applied.

技术特性 Technical features:

1.适用于气，液两种介质；

Applied to gas, liquid medium;

2.适用于爆破压力较高的场合；

Applied to occasions with higher bursting pressure;

3.最大工作压力可达最小爆破压力的50%；

Maximum operating pressure reaches 50% of the minimum bursting pressure;

4.爆破时不产生碎片，可以和安全阀串联使用；

No fragments are generated in bursting, and the serial usage with the safety valve is available;

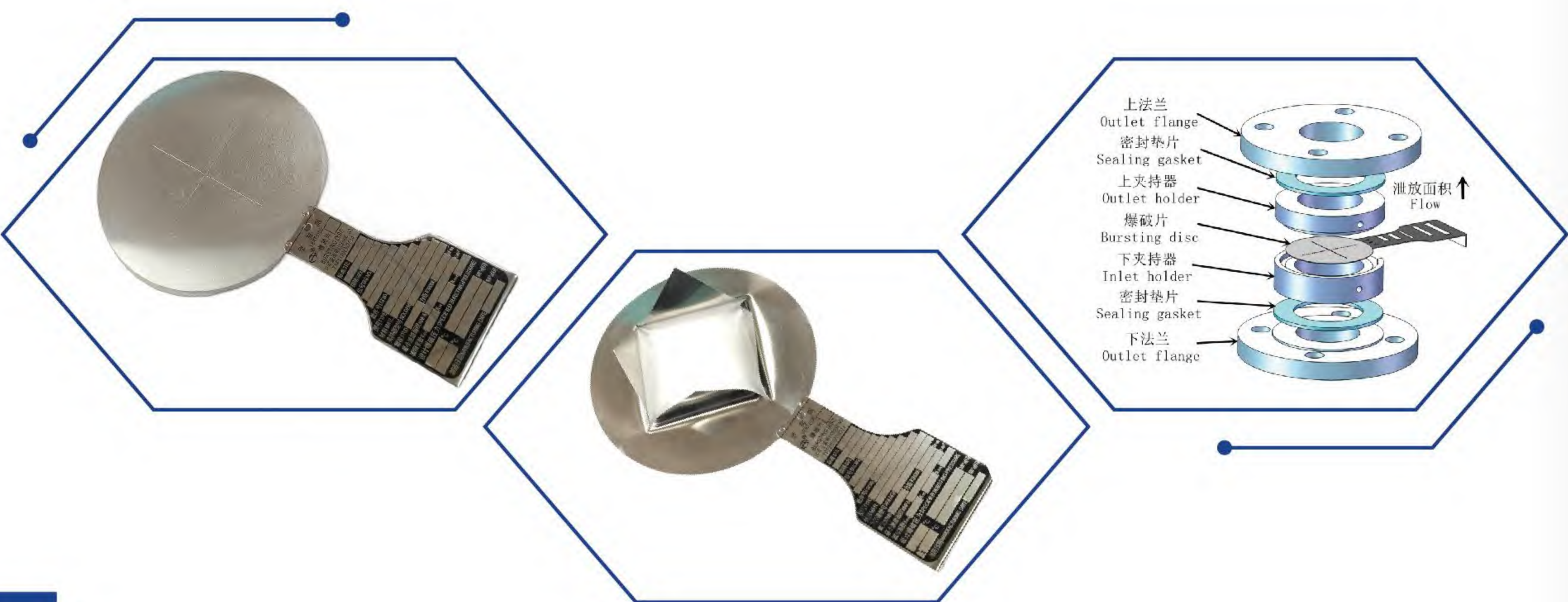
5.爆破时没有火花；

No sparks are generated in bursting;

6.产品铭牌有TS标识；

The product nameplate is marked with TS;

7.尺寸Size: DN3~DN500mm。



PM BURSTING DISC

石墨爆破片（TS）

产品描述:

石墨爆破片是以石墨材料为基体的爆破片。爆破片受压后由弯曲或剪切而破坏。

技术特性:

1.石墨爆破片耐腐蚀性能好，适用于各种腐蚀性较强的介质；

2.带托架可以承受背压；

3.最大工作压力可达最小爆破压力的80%；

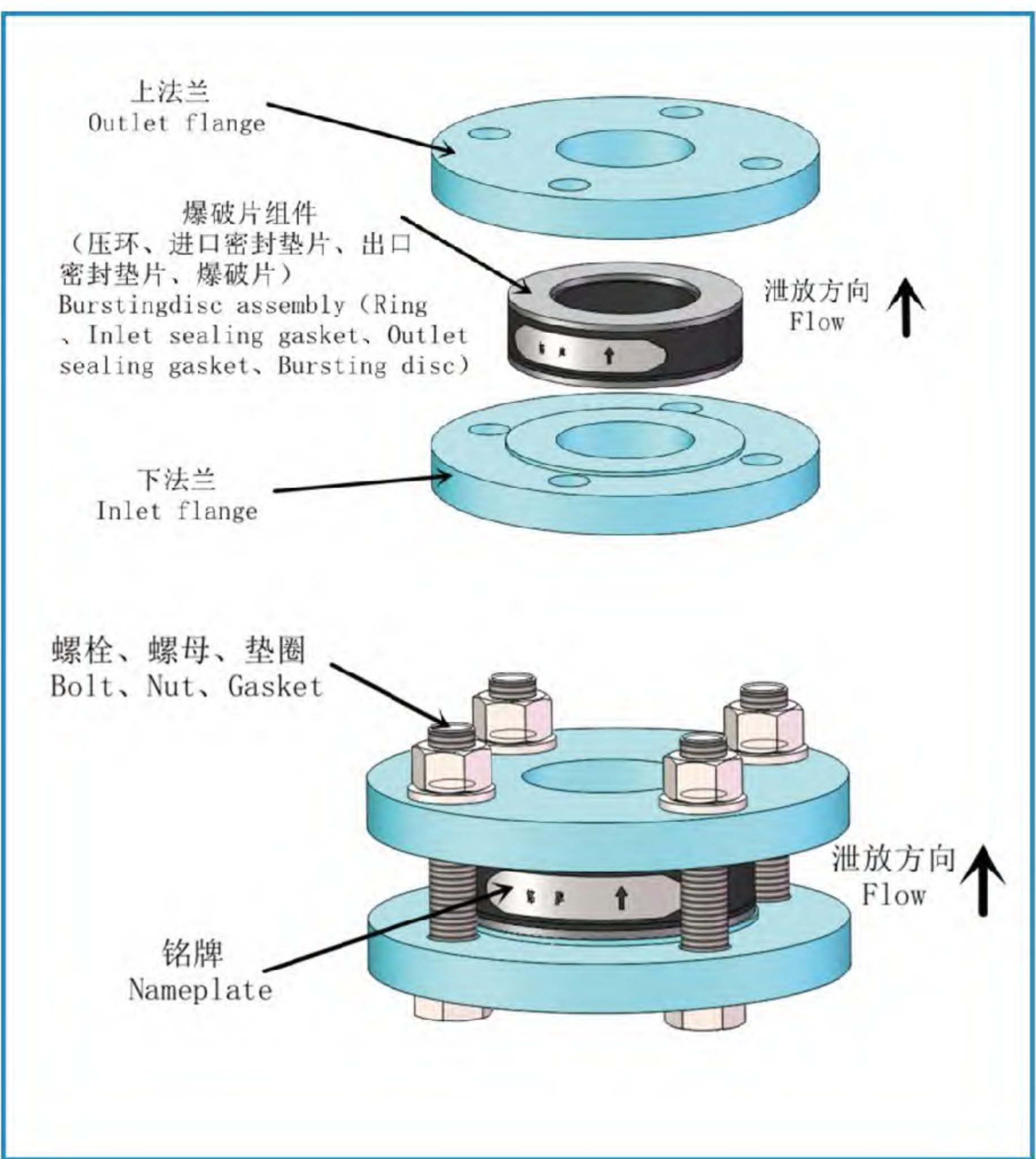
4.爆破时产生碎片，不能与安全阀串联使用。应在爆破片装置的泄放侧，采取预防措施，防止爆破片爆破后的碎片对人身及设备造成危害；

5.最高使用温度不大于200℃；

6.可单独安装在法兰之间，也可与夹持器配套使用；

7.产品铭牌有TS标识；

8.尺寸DN25~DN500mm。



Product description:

Graphite bursting disc is a bursting disc with the graphite materials as the foundation. The bursting disc is destroyed after being pressed due to bending or shearing force.

Technical features:

1.The graphite bursting disc has high corrosive-resistance performance, applied in a variety of medium with strong corrosion;

2.With the support to withstand the back pressure;

3.The maximum operating pressure reaches 80% of the minimum bursting pressure;

4.Fragments may arise in bursting, so the serial usage with the safety valve is not recommended;

5.The maximum operating temperature shall not be over 200 °C;

6.It can be installed between flanges individually or used with the holder;

7.The product nameplate is marked with TS;

8.Size DN25~DN500mm.



SPECIAL TYPE BURSTING DISCS 特殊型式爆破片

双向爆破片

Bidirectional bursting disc

可为您设计符合您需求的双向爆破片，实现两个方向的泄压，起到保护设备不受超压、真空或双向压差作用产生的破坏。

We can design a bidirectional bursting disc to meet your needs, achieve pressure relief in both directions, and protect the equipment from overpressure, vacuum or bidirectional pressure difference.



破膜阀Bursting valve

专为油罐液下喷射泡沫灭火系统配套的附件。平常起密封作用，一旦油罐着火，只要启动泡沫泵，管道中介质的压力就使阀片自动破膜，泡沫液从底部进入油罐。

Designed for the tank liquid injection foam fire extinguishing system supporting accessories. Usually plays a sealing role, once the oil tank is on fire, as long as the foam pump is started, the pressure of the medium of the pipeline makes the valve plate automatically break the film, and the foam liquid enters the oil tank from the bottom.

注塑机用爆破片

Bursting disc for injection molding machine

为注塑机设计的系列专用爆破片。

A series of special bursting discs designed for injection molding machines



顶杆式爆破片

Ejector rod bursting disc

顶杆失稳弯曲后爆破片破坏而释放压力，适用于苯酐项目等。

After the ejector rod is unstable and bent, the bursting disc is destroyed and the pressure is released, which is suitable for the project of phthalic anhydride.



PFC TYPE BURSTING DISC DEVICE PFC型爆破片装置

PFC型爆破片装置广泛用于化工行业常压储罐等设备。

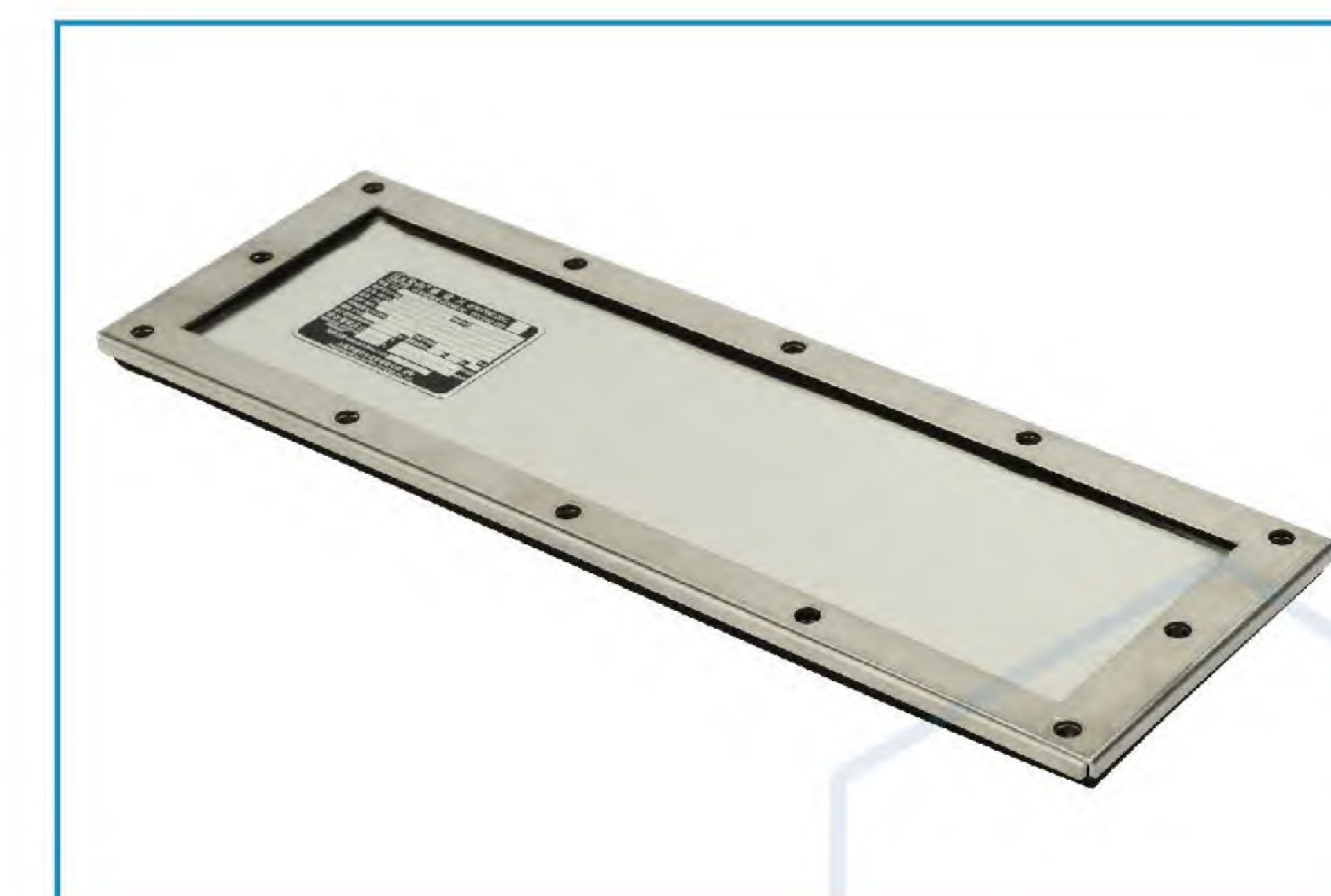
技术特性:

适用于压力极低的场合；密封性能好；泄放面积大。

PFC type bursting disc device is widely used in atmospheric pressure storage tank and other equipment in chemical industry.

Technical features:

Applied in place with very low pressure; Good sealing performance; Large flow area.



LFC TYPE BURSTING DISC DEVICE LFC型爆破片装置

LFC型爆破片装置广泛用于消防行业泡沫发生器设备。正常工况下，爆破片装置泄放侧承受泡沫液产生的负压。当启动泡沫发生器后，爆破片装置介质侧承受水冲压力后爆破，泡沫液与水混合后排放。

技术特性:

适用于压力极低的场合；能承受全真空负压；密封性能好；泄放面积大。

LFC type bursting disc devices are widely used in foam generator equipments for fire protection industry. Under normal working conditions, the vent side of the bursting disc device is subjected to the negative pressure generated by the foam liquid. When the foam generator is started, the medium side of the bursting disc device explodes after bearing impact pressure by water, and the foam liquid is discharged after mixed with water.

Technical features:

Applied in place with very low pressure; Can withstand full vacuum back pressure; Good sealing performance; Large flow area.



BURSTING DISC DEVICES FOR TUBE TRAILER

长管拖车爆破片装置

随着长管拖车（充装压缩气体介质）的广泛使用，其安全性与人民生命和财产的安全紧密相关。按相关的法律法规设置爆破片装置能够在长管拖车气瓶瓶内压力超压（如：充装超压）或因环境温度异常升高（如：火灾、阳光暴晒等）而导致瓶内压力超压时迅速泄放超压介质。长管拖车爆破片装置设置在长管气瓶的两端，即：前端爆破片装置和后端爆破片装置。爆破片装置可设计成爆破片与易容合金塞联合组成的安全泄放装置。适用介质：CNG、氢气等。

With the wide use of tube trailers (filled with compressed gas media), its safety is closely related to the safety of people's lives and property. According to the relevant laws and regulations, the burst disc device can quickly release the overpressure medium when the pressure in the cylinder of the long tube trailer is overpressure (such as: overfilling) or due to the abnormal increase in the ambient temperature (such as: fire, sun exposure, etc.). The bursting disc device for tube trailer is arranged at both ends of the tube gas cylinder, namely, the front bursting disc device and the rear bursting disc device. The bursting disc device can be designed as a safety release device composed of bursting disc and easy volume alloy plug. Applicable medium: CNG, hydrogen, etc.



BURSTING DISC DEVICES FOR SPECIAL INDUSTRIES

特殊行业用爆破片装置

本公司专门为各种特殊场合设计制造爆破片装置，如：核电领域、氢能、消防、食品、医药、锅炉、低温贮槽、移动式槽车等。

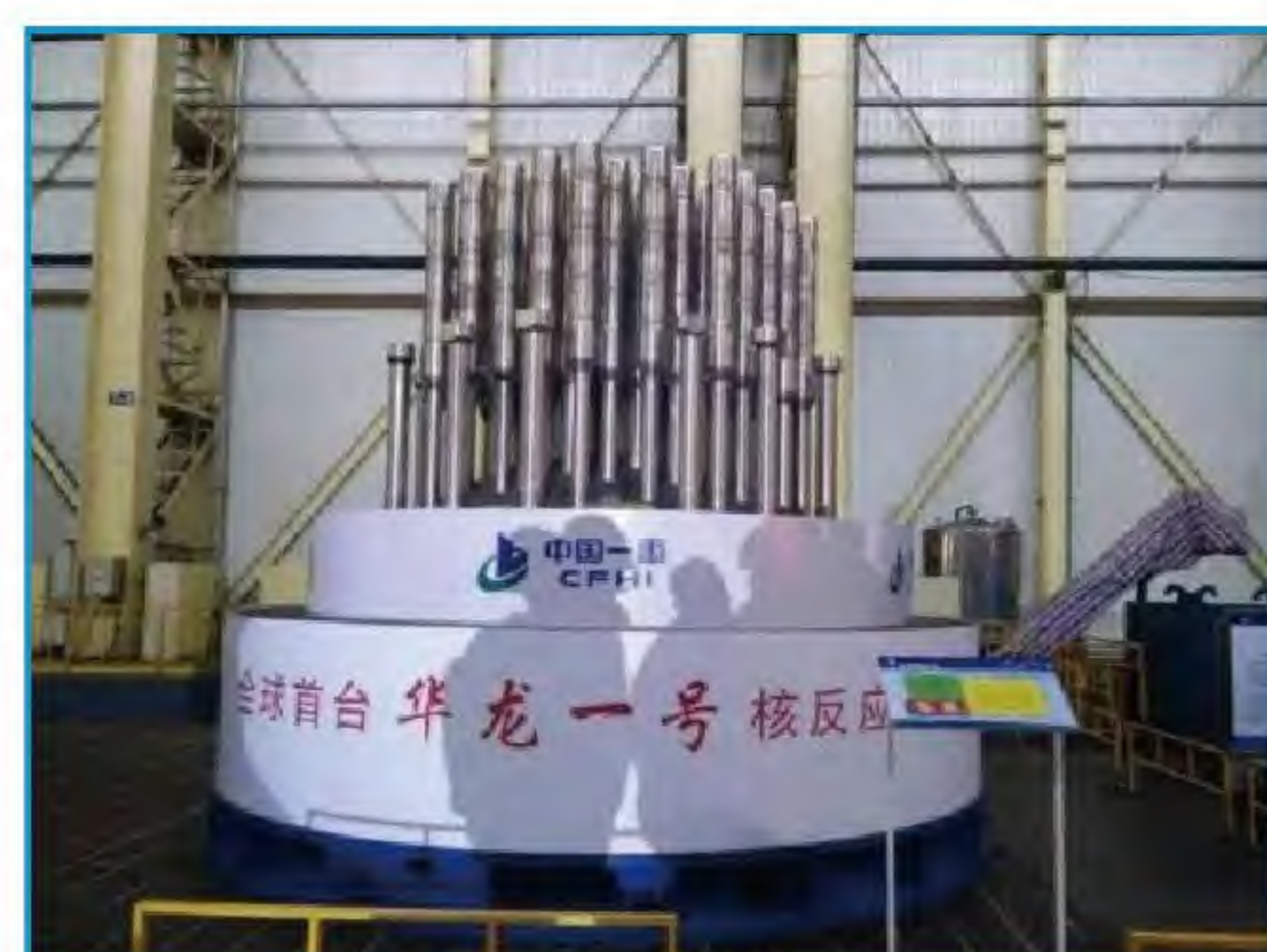
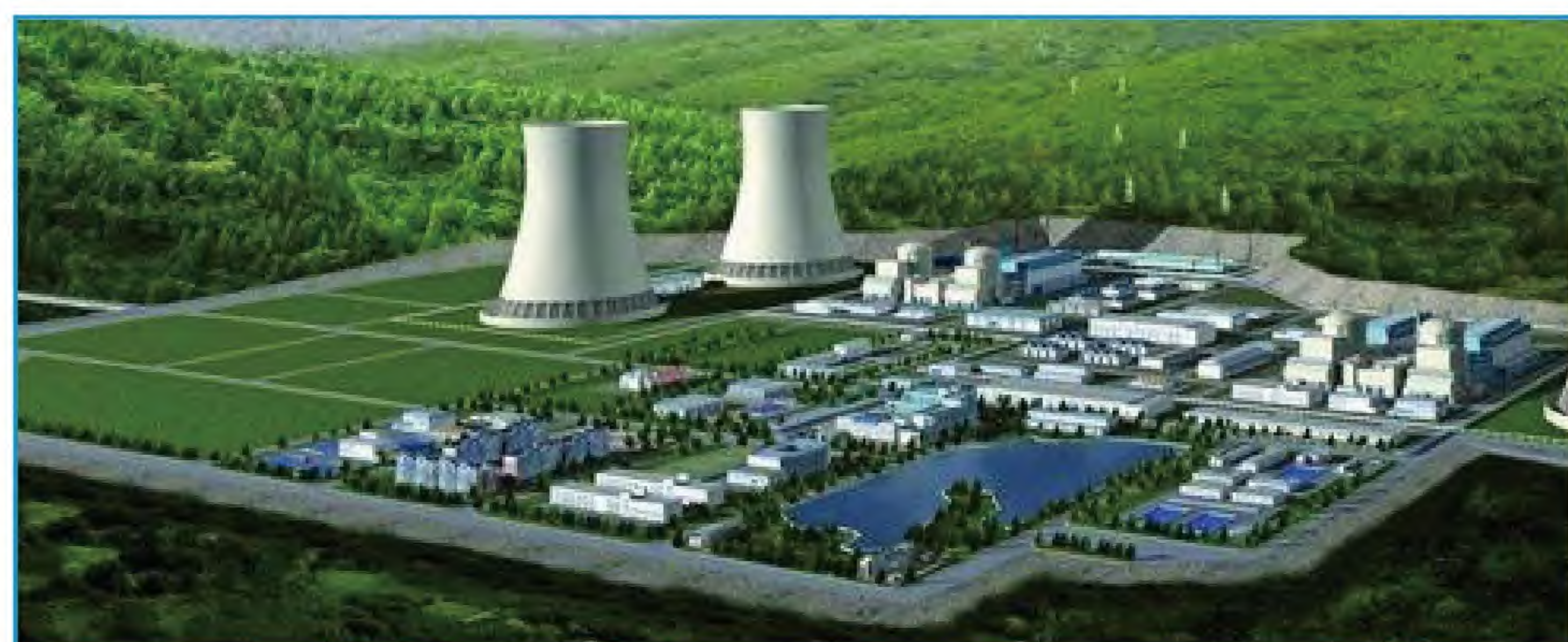
The company specializes in the design and manufacture of burst disc devices for various special occasions, such as: nuclear power field, hydrogen energy, fire protection, food, medicine, boiler, cryogenic storage tank, mobile tank and so on.



NUCLEAR POWER FIELD 核电领域

上海华理安全装备有限公司作为核电项目用爆破片安全泄放装置国产化的奠基者，自1999年为秦山核电站二期提供自主研发的爆破片装置开始，已为国内外安全泄放装置的设计制造服务了二十余年，见证并参与了我国核电技术从二代到四代的发展。如今国产化爆破片生产技术已逐渐成熟，产品质量毫不逊于国外同类产品，而国产化、自主研发的安全泄放装置不仅能够缩短定制周期、降低生产成本，更保证了我国生产开发的独立性，使配套符合要求的安全泄放装置不必“有求于人”。

Shanghai Huali Safety Device Co., LTD., as the founder of the localization of bursting disc safety release devices for nuclear power projects, has been providing self-developed bursting disc devices for Qinshan Nuclear Power Plant Phase II in 1999, and has served the design and manufacture of safety release devices at home and abroad for more than 20 years, witnessing and participating in the development of China's nuclear power technology from the second generation to the fourth generation. Nowadays, the production technology of domestic bursting disc has gradually matured, and the product quality is no less than that of similar foreign products, and the safety release device of domestic and independent research and development can not only shorten the customization cycle, reduce the production cost, but also ensure the independence of production and development in our country, so that the safety release device that meets the requirements does not have to "demand people".



HYDROGEN ENERGY INDUSTRY 氢能行业

氢能具有能量转化效率高、终端零排放、用途广泛等特点，符合国家推进能源革命，推动绿色低碳发展的政策。氢能行业在氢气储存用储罐，氢气运输用长管拖车等设备上都需要安装爆破片装置。

氢能行业常用长管拖车爆破片装置及YCZH型爆破片装置。

参与编制标准：压缩氢气铝内胆碳纤维全缠绕瓶式集装箱

移动式真空绝热液氢压力容器

Hydrogen energy has the characteristics of high energy conversion efficiency, zero terminal emissions, and versatility, which is in line with the national policy of promoting energy revolution and promoting green and low-carbon development. The hydrogen energy industry needs to install bursting disc devices on equipments such as tanks for hydrogen storage and tube trailers for hydrogen transport.

Hydrogen energy industry commonly used bursting disc device for tube trailers and YCZH type bursting disc devices.

Participated standards:

Cylinder skid container for fully wrapped carbon fiber reinforced aluminum liner for transportation of compressed hydrogen

Transportable vacuum-insulated liquid hydrogen pressure vessels



CRYOGENIC GAS INDUSTRY 低温气体行业

YCZH型爆破片装置广泛用于低温气体行业，如低温储罐、快易冷、杜瓦瓶等设备。
YCZH type bursting disc devices are widely used in cryogenic gas industry, such as cryogenic storage tanks, micro bulks, Dewar vessels and other equipments.



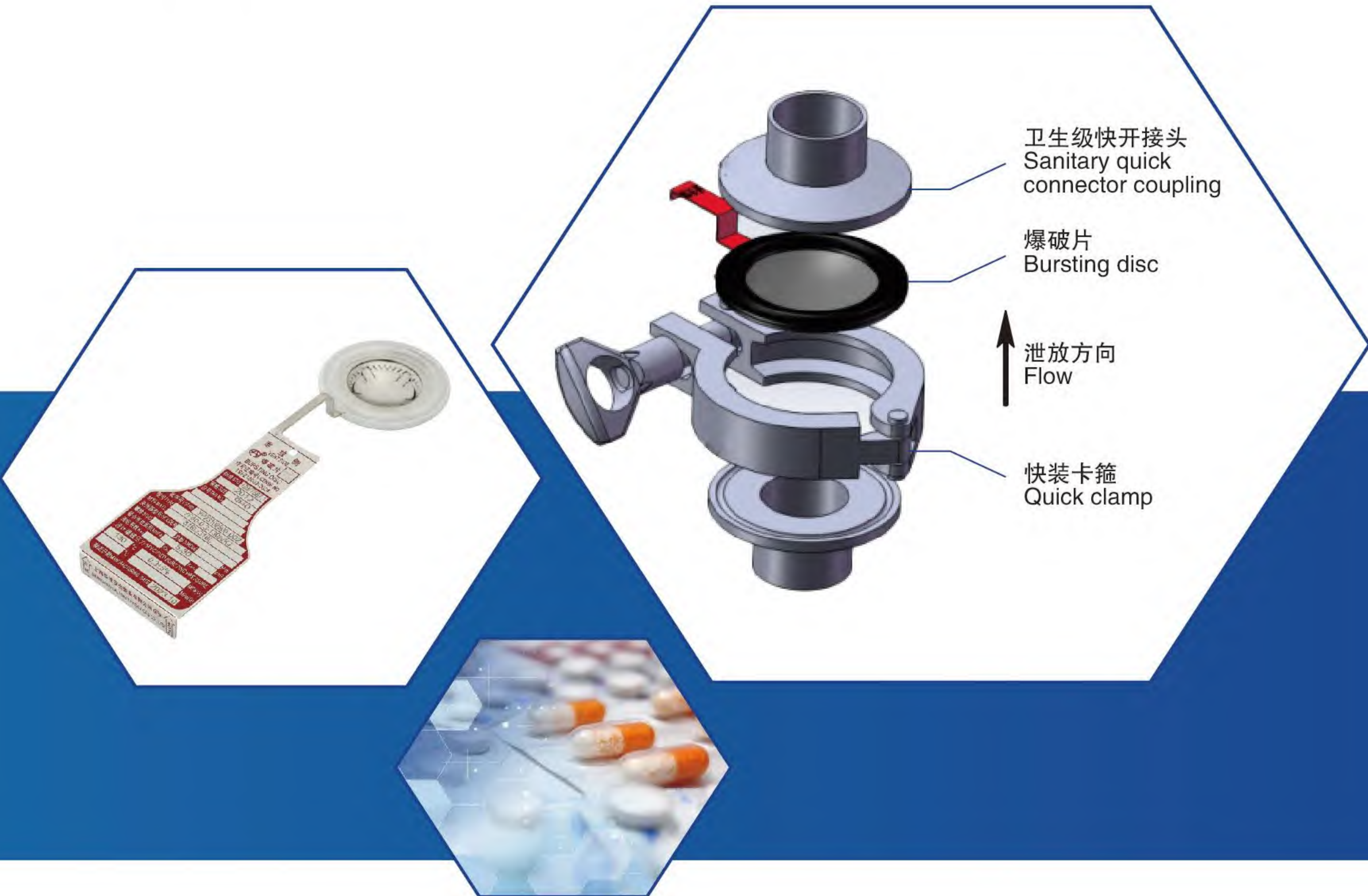
FOOD AND MEDICINE INDUSTRY 食品 / 医药行业

上海华理安全装备有限公司在食品和饮料以及制药行业拥有超过 15 年的服务经验，其全面的卫生爆破片选择可确保可靠的泄压解决方案，同时满足严格的卫生法规。不卫生的爆破片和爆破片夹具可能会聚集不需要的介质或细菌，导致批次毁坏、生产停机和对客户信赖造成无法弥补的损害。

With more than 15 years of service experience in the food and beverage and pharmaceutical industries, Shanghai Huali Safety Devices Co., LTD. 's comprehensive selection of sanitary bursting discs ensures reliable pressure relief solutions while meeting strict hygiene regulations. Unhygienic bursting discs and clamps can collect unwanted media or bacteria, resulting in batch destruction, production downtime and irreparable damage to customer confidence.

卫生级快开接头爆破片是专为满足严格的卫生要求而设计，可通过蒸汽方法进行清洁，无需拆卸。具有密封性好、耐腐蚀、无安装死角、易清洁等优点，适用于制药、生物科技、食品等行业管接头连接，常用管接头标准有ISO2852、ASME BPE、3A，同时也适用于下沉式法兰等。

Sanitary grade quick-opening joint bursting discs are designed to meet strict hygiene requirements and can be cleaned by steam method without disassembly. With good sealing, corrosion resistance, no installation dead Angle, easy to clean and other advantages, suitable for pharmaceutical, biotechnology, food and other industries pipe joint connection, commonly used pipe joint standards are ISO2852, ASME BPE, 3A, but also suitable for sinking flange and so on.



BOILER INDUSTRY 锅炉行业

随着燃油、燃气锅炉的广泛使用,调试燃烧器或点火(失败再点火)升炉时产生爆炸的可能性也大大增加。根据规定,锅炉烟道上必须安装泄爆装置。传统使用的防爆门,由于动作惯性大,易泄漏,易锈蚀等因素,不仅开启压力精度低,甚至会导致开启困难,安全泄压得不到可靠保证。本公司研制的GD型锅炉烟道用爆破片系列产品克服了上述缺点,能可靠地保障锅炉烟道周围建筑物及人员的安全。“鸟巢”、上海金茂大厦,浦东国际机场等大楼的锅炉烟道上均安装了本公司生产的GD型爆破片。

With the wide use of oil and gas boilers, the possibilities of explosion are increasing greatly when the burner is debugged or lit (re-lit if failed) for kindling. According to the requirements, the explosion-relief device shall be installed on the boiler flue. The conventional explosion-resistant doors have low precision of opening pressure and also opening difficulties due to large inertia, leaking and rusting performances, so the safety pressure-relief is not reliable. The GD bursting disc for boiler flue use development by Shanghai Huali company overcomes the above disadvantages and it can ensure the safety of buildings and personnel around the boiler flue. GD bursting discs made in our company have been installed in “Bird’s Nest”, Jinmao Mansion in Shanghai, Pudong International Airport and other famous buildings.



FIRE PROTECTION INDUSTRY 消防行业

随着经济的逐步发展,人们对消防的作用越来越重视。现今的工业用灭火系统主要有:CO2(高压和低压)、混合气体、七氟丙烷等气体灭火系统,原有的卤代烷由于会对臭氧层造成破坏,已经基本被淘汰使用。为了保证灭火效果,消防气瓶一般都是在高压状态下工作,气瓶本身也都是按压力容器要求来设计的,因此从安全角度考虑,需安装超压泄放装置。

With the gradual development of economy, people pay more and more attention to the role of fire protection. Today's industrial fire extinguishing systems mainly include: CO2(high pressure and low pressure), mixed gas, heptafluoropropane and other gas fire extinguishing systems, the original halon due to damage to the ozone layer, has been basically eliminated. In order to ensure the fire extinguishing effect, the fire cylinder generally works under high pressure, and the cylinder itself is designed according to the requirements of the pressure vessel, so from the safety point of view, it is necessary to install an overpressure relief device.

本公司研制的正拱组合式消防设备用爆破片装置(LP-ZH型),泄放口径小、泄放压力高,具有精度高、密封性好、动作灵敏、耐疲劳、安全可靠等优点,且已经过长期的使用实践检验,已成为消防气瓶上不可替代的安全附件。

The bursting disc device (LP-ZH type) developed by our company for the straight-arch combined fire fighting equipment has the advantages of small discharge caliber, high discharge pressure, high precision, good sealing, sensitive action, fatigue resistance, safety and reliability, etc., and has been tested in long-term practice, and has become an irreplaceable safety accessory on the fire cylinder.



POWER INDUSTRY 电力行业

在SF6电流互感器、断路器、避雷器、全封闭组合电器开关柜GIS、高压开关柜C-GIS等电力设备上，因断离撞击等原因可能发生设备内气压上升引起的爆炸。因此从安全角度考虑，需安装超压泄放装置。

On SF6 current transformer, circuit breaker, arrester, fully enclosed combined electrical switchgear GIS, high-voltage switchgear C-GIS and other power equipment, the explosion caused by rising air pressure in the equipment may be sent due to disconnection impact and other reasons. Therefore, from the perspective of safety, it is necessary to install an overpressure relief device.

我公司自主研发的焊接式反拱型爆破片装置，采用爆破片与夹持器焊接的连接方式,具有密封性能好、爆破压力精度高、安装更换方便等优点，广泛应用于各种高低压力的电器柜上。

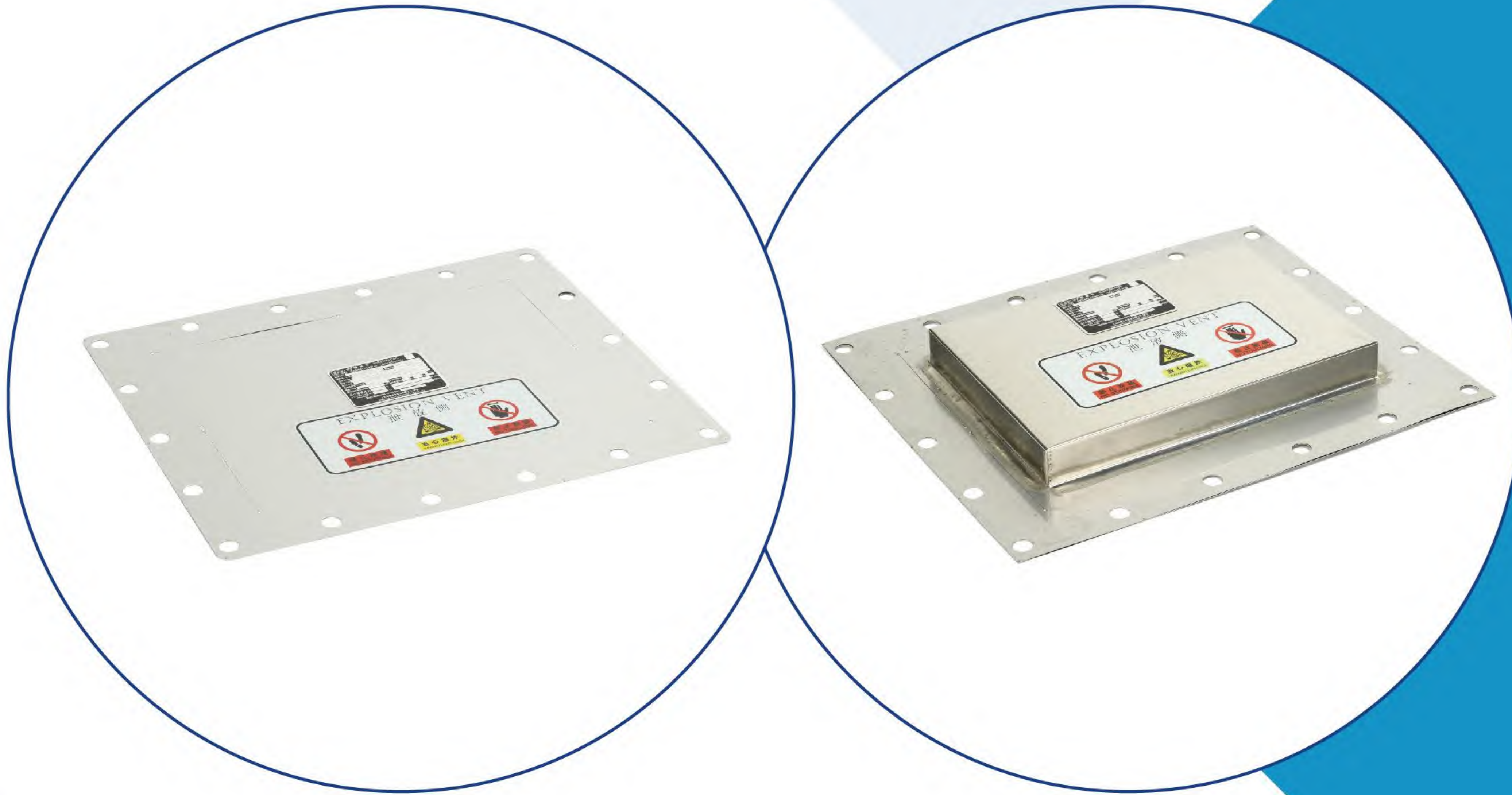
The welding reverse domed bursting disc device developed by our company has the advantages of good sealing performance, high accuracy of bursting pressure, convenient installation and replacement, etc., and is widely used in a variety of high and low pressure electrical cabinets.



DUST INDUSTRY 粉尘行业

我公司研发的矩形平板开缝型爆破片由于具有泄压面积大,爆破压力低等优点,在粉尘处理行业得到了越来越广泛的使用,它是保护料仓,除尘器,干燥器等粉尘处理设备的重要泄压装置，消除了粉尘沉积带来的设备爆炸危险。

The rectangular flat slotted bursting disc developed by our company has been more and more widely used in the dust treatment industry because of its large pressure relief area and low bursting pressure. It is an important discharging and suppressing explosive device for protecting dust treatment equipment such as silo, dust collector and dryer, eliminating the equipment explosion risk caused by dust deposition.



EXPLOSION-PROOF BURST INDICATOR

防爆电讯号

体系介绍 System Introduction

ATEX防爆认证ATEX explosion-proof certification 

ATEX 它是以法语 “ATmosphere EXplosible” 命名，它是CE标志涉及到的一个指令 2014/34/EU（潜在爆炸环境用的设备及保护系统），它规定了拟用于潜在爆炸性环境设备的应用技术要求、基本健康、安全要求和设备在其使用范围内投放到欧洲市场前必须采用的合格评定程序。ATEX防爆认证是防爆产品进入欧盟市场的强制性要求，所有进入欧盟市场的用于爆炸性产品的产品都必须遵循ATEX指令，取得ATEX认证，在产品上加贴ATEX标志。

ATEX, named after the French word "ATmosphere EXplosible", is a reference to the CE marking directive 2014/34/EU (Equipment and Protection Systems for Use in Potentially explosive Environments). It specifies the technical requirements for the application of equipment intended for use in potentially explosive environments, basic health and safety requirements and conformity assessment procedures that must be followed before the equipment is placed on the European market within the scope of its use. ATEX explosion-proof certification is a mandatory requirement for explosion-proof products to enter the EU market, all products entering the EU market for explosive products must follow the ATEX Directive, obtain ATEX certification, and attach the ATEX mark on the product.

IECEx防爆认证IECEx explosion-proof certification

国际电工委员会防爆电气产品认证体系 (IEC Scheme for Certification to Standards for Electrical Equipment for Explosive atmospheres)成立于 1996年，是国际性的防爆电气产品防爆认证组织。IECEx认证体系成员国包括澳大利亚、加拿大、中国、法国、德国、意大利、日本、韩国、新加坡、俄罗斯、英国和美国等，直接或间接认可IECEx防爆认证证书。

The IEC Scheme for Certification to Standards for Electrical Equipment for Explosive atmospheres (IEC Scheme for Certification to Standards for Electrical Equipment for Explosive atmospheres) was established In 1996, it is an international explosion-proof certification organization for explosion-proof electrical products. IECEx certification system member states including Australia, Canada, China, France, Germany, Italy, Japan, South Korea, Singapore, Russia, the United Kingdom and the United States, directly or indirectly recognized IECEx explosion-proof certification.

产品说明 Descriptions

电讯号反馈装置是一个能发出电讯号的闭合电路组件。当爆破片爆破后，装置被破坏，使其处于开路状态，并被后台检测系统检测到。

The burst indicator is a normally closed circuit that can give an electrical signal. During the bursting disc burst, the indicator is physically broken causing an open condition in the indication circuit. This open condition can then be detected by background.

型号 Type

DXW-FB

外置式电讯号反馈装置，与爆破片装置配套使用，可独立安装在上法兰与上夹持器之间，通过法兰紧固件夹紧固定。

The external burst indicator is used together with the bursting disc devices, and can be independently installed between the outlet flange and the outlet holder, and is fixed by the flange fastener.

尺寸Size: DN25~1000

DX-FB

内置式电讯号反馈装置，与爆破片组装为一体，安装在上、下夹持器之间，通过法兰紧固件夹紧固定。

The internal burst indicator is integrated with the bursting disc, installed between the outlet and inletholder, and is fixed by the flange fastener.

适用爆破片型号Applicable bursting disc type:

LF: 圆形 Circle type, DN25~1200;

方形 Rectangle type, DN100 × 100~2000 × 2000;

PF: 圆形 Circle type, DN25~1300;

方形 Rectangle type, DN100 × 100~2000 × 2000;

YF: 圆形 Circle type, DN25~100

其中 DX-A-FB; DX-B-FB 适用于LF、PF，DX-C-FB适用于YF

Where DX-A-FB; DX-B-FB is suitable for LF and PF, DX-C-FB is suitable for YF.

注：爆破片装置无防爆认证。

Note: The bursting disc device has no explosion-proof certification.



技术参数Technical specifications

工作电压 Operating Voltage: 24V DC

工作电流Operating Current: < 90mA

电阻Resistance: < 1 Ω

工作温度Process Temperature Range: -40~190℃

环境温度 Atmospheric Temperature Range: -40~70℃

连接电缆Cable: 2芯带屏蔽动力控制电缆，截面积2 × 0.75mm

2-core shielded cable, Cross-sectional area 2 × 0.75mm

防爆型式Explosion Proof Type: 本质安全 Intrinsic Safety

防爆标志Explosion Proof Sign:

Ex ia IIB T6...T3 Ga

Ex ia IIIC T₂₀₀ 80 ° C...T₂₀₀ 195 ° C Da

防爆证书号Explosion Proof Certificate Code:

ATEX TPS 23 ATEX Q 118074 0002 REV.01

IECEX IECEX TPS 22.0039 X

使用寿命 Life: 3 Years

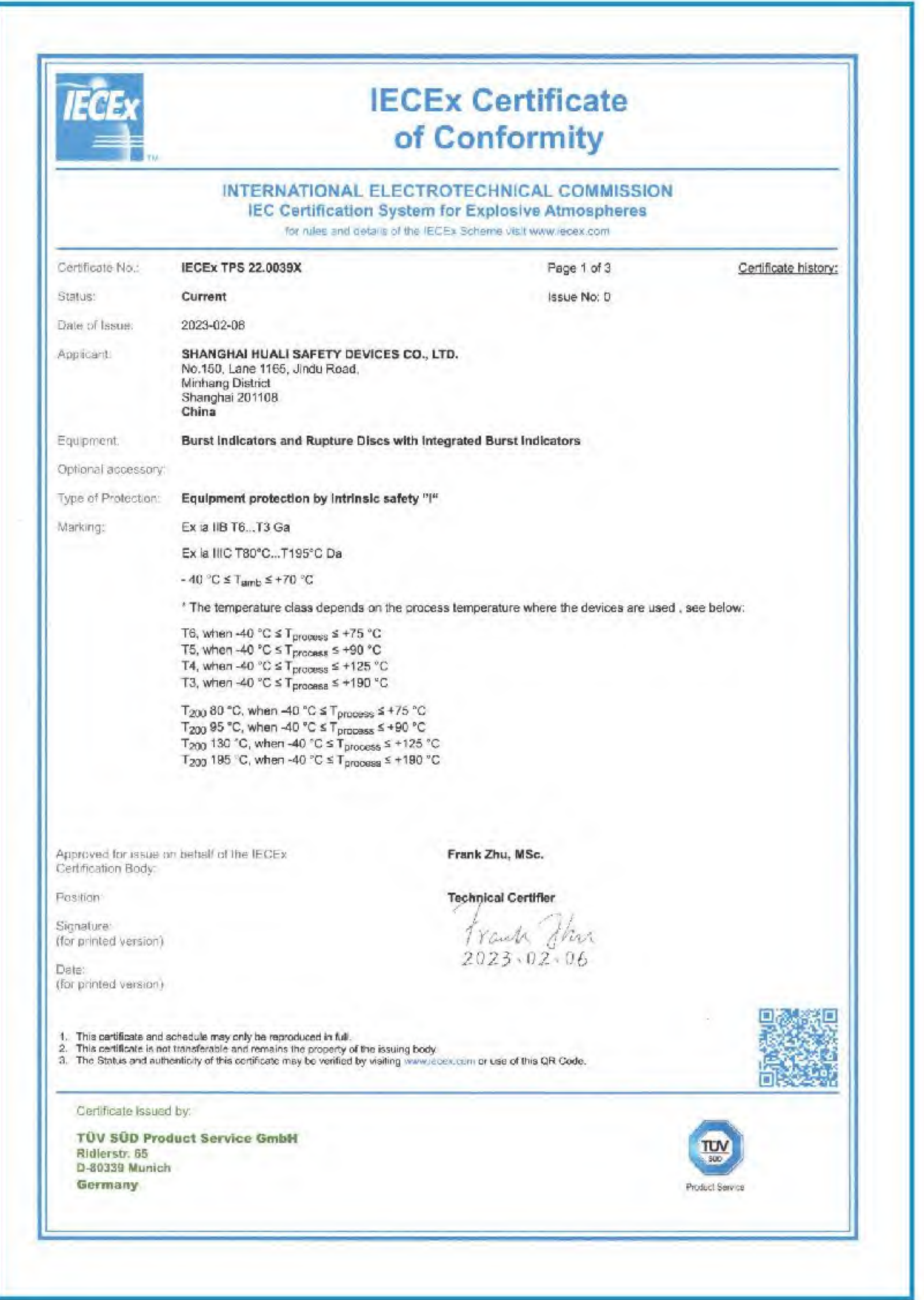
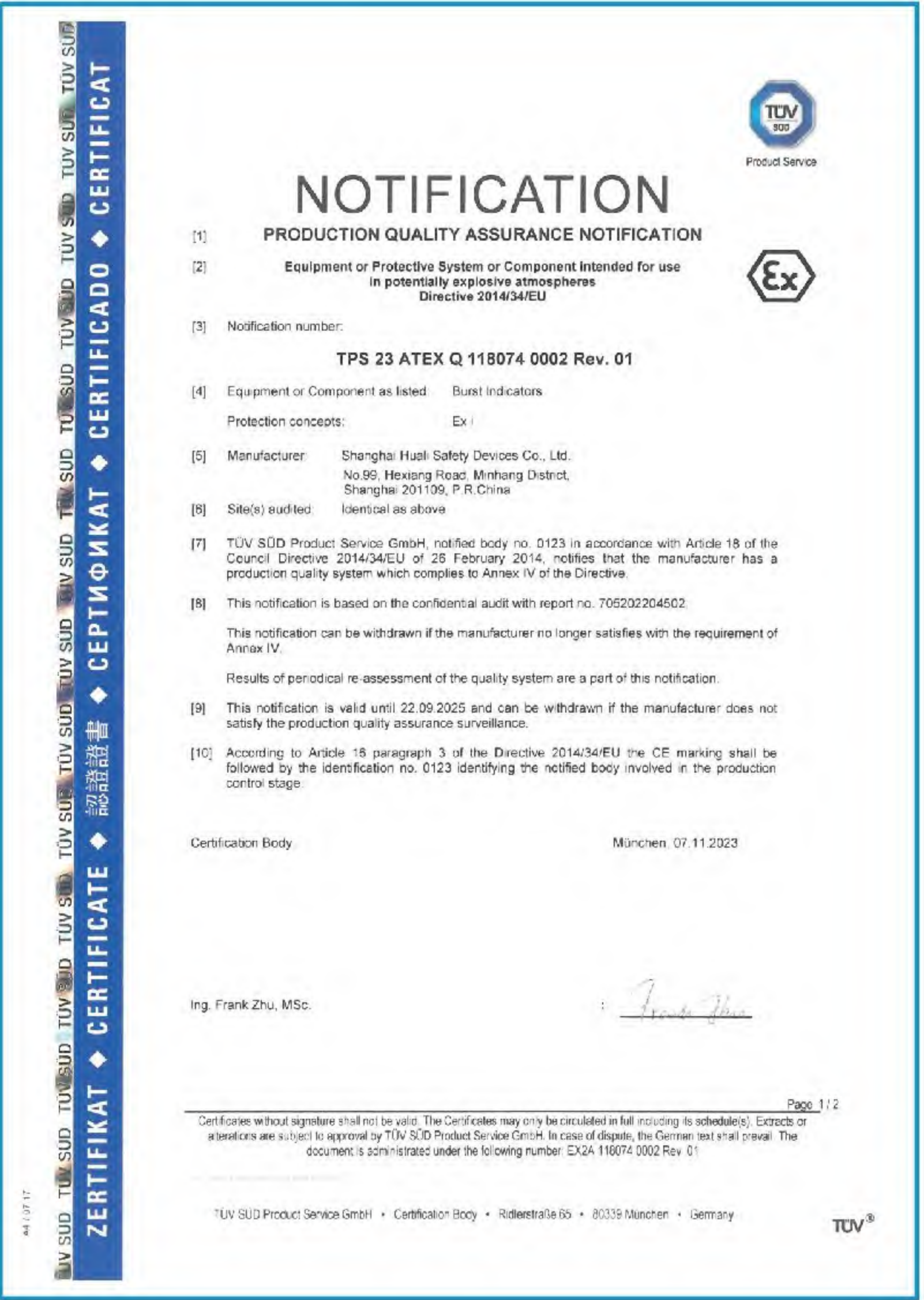
本安参数 Intrinsic Safety Parameters:

Ui: 28.4 Vli: 93 mApi: 0.615 WLi: 11.2 μ HCi: 2.2nF

符合标准Conformity with standards:

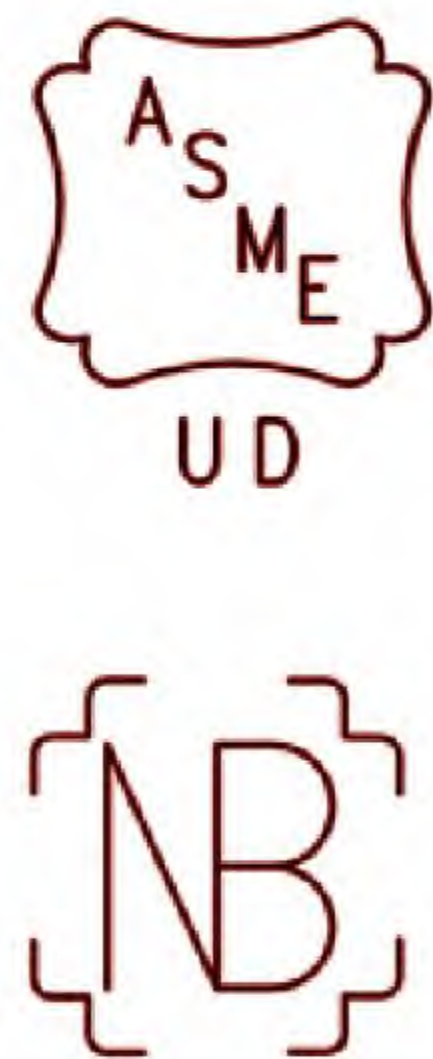
EN IEC 60079-0, EN 60079-11, IEC 60079-0, IEC 60079-11

证书 Certification

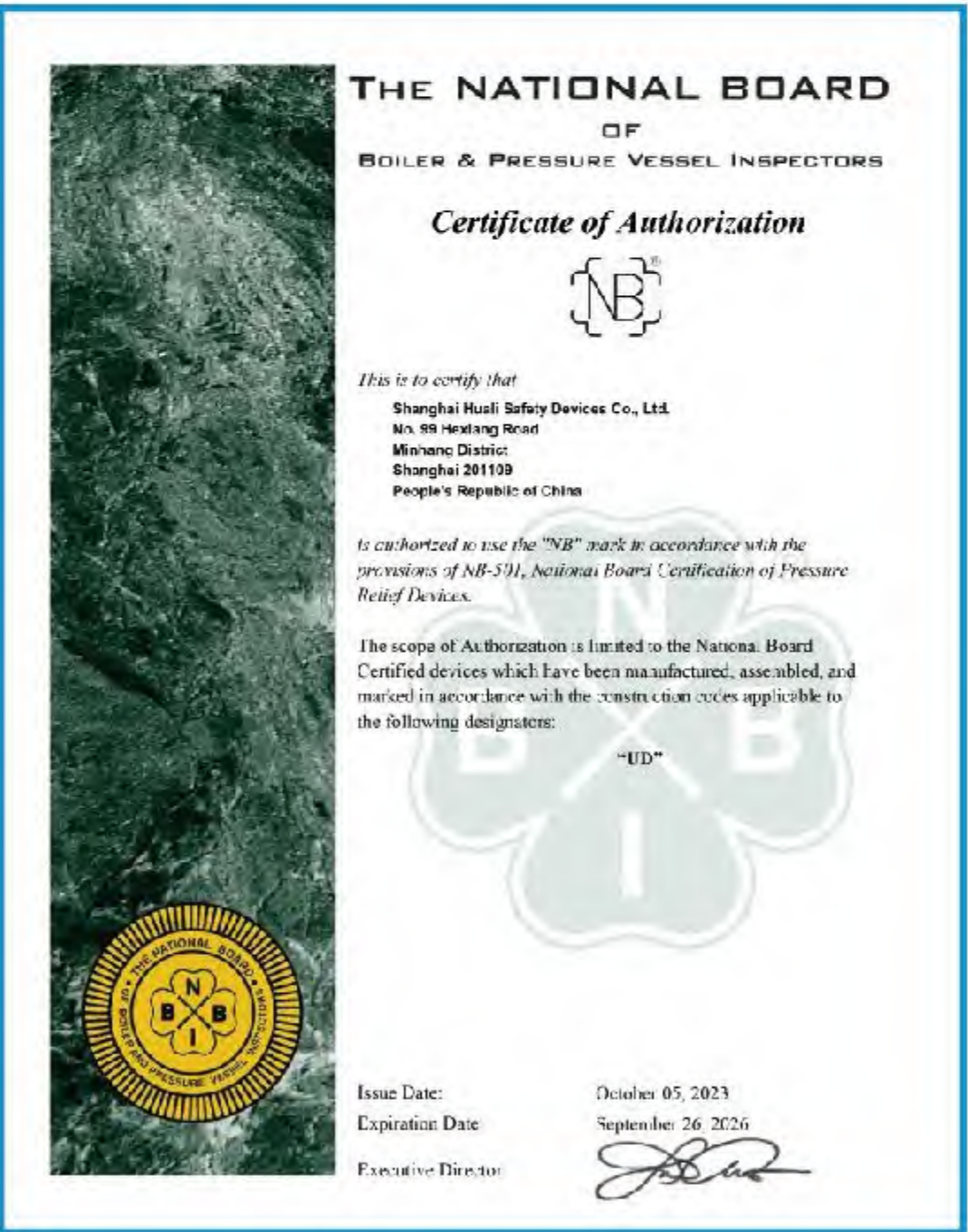
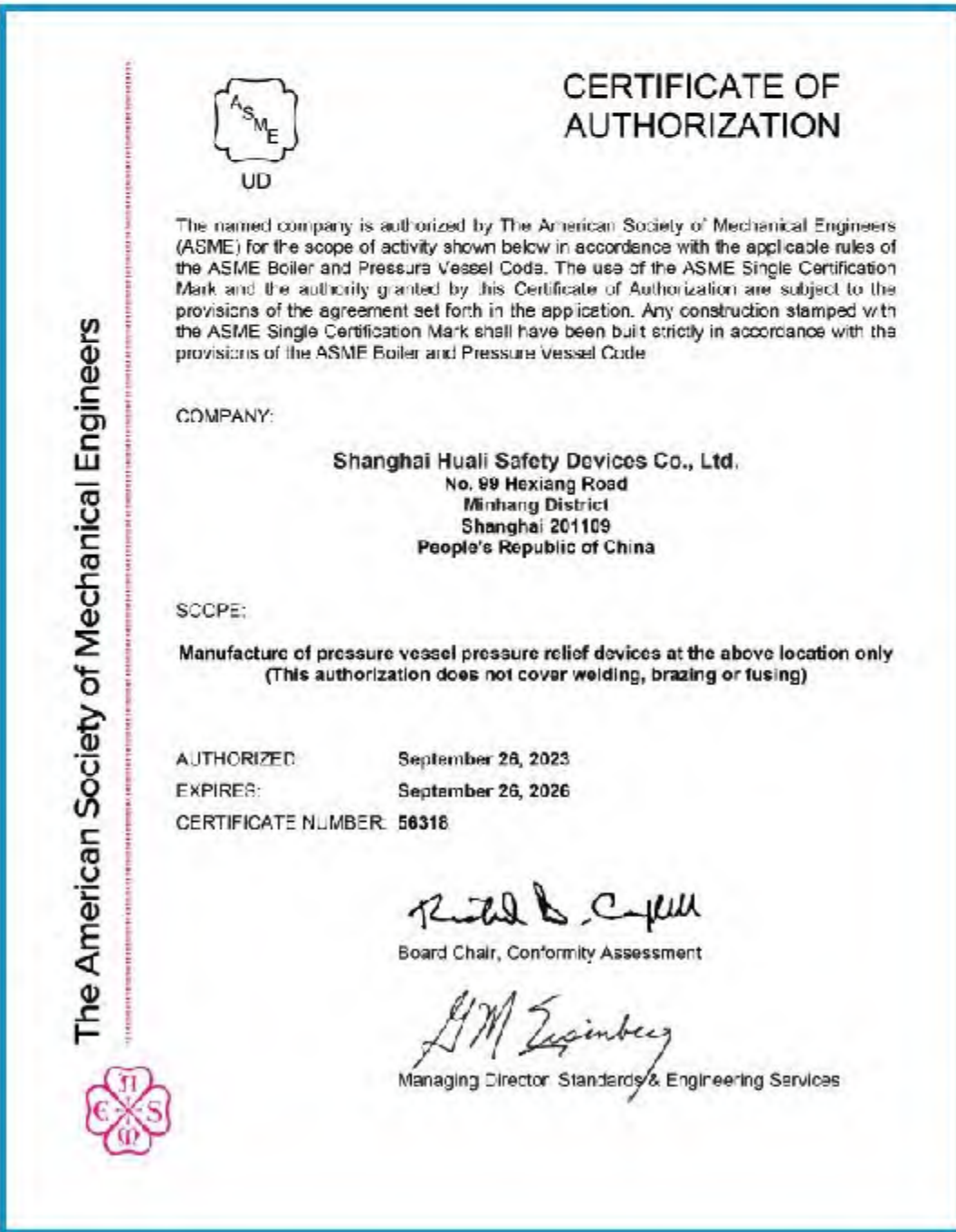


factured in accordance with ASME BPVC.XIII standard and the steel seal type is UD.

产品标识 Mark



证书 Certification



制造范围 Production Range

您可以通过以下网址查询产品制造范围

You can check the product manufacturing range through the following website

<https://buscenter.nationalboard.org/TestLab/nb-18>

型式 Type

正拱开缝型爆破片DS

由强度膜和密封膜等零件组成，对于需要承受背压的情况需加一层托架。强度膜和托架上开有削弱材料强度的孔和缝（径向开缝），超压时在最小孔距的截面处拉伸破坏。

Composed of strength film, sealing film and other components. For the situations where the back pressure needs to be withstood, a support shall be added. Holes and cracks (radial cracks) are cut on the strength film and bracket to weaken the strength of the material, and tensile failure occurs at the section with the minimum spacing of holes during overpressure.

相配夹持器Holder: DHA;

尺寸Size: DN25~800 (1" ~32") ;

流阻系数KRG: 0.73;

具有较好的抗疲劳性能;

Good fatigue resistance;

爆破后有少量碎片;

Few fragments;

不建议与安全阀串联组装;

Not recommended for assembled in series with safety valve;

适用于气相介质。

Suitable for gas phase media.



反拱带槽型爆破片RM90

爆破片为拱形膜片，拱的凹面刻有十字削弱槽，失稳翻转后爆破片沿刻槽处撕裂泄放。

The bursting disc is reverse domed, with impair slot in concave. After its unstable rollover, it can burst and release along the slitting.

相配夹持器Holder: ROHA;

尺寸Size: DN25~500 (1" ~20") ;

流阻系数KRG: 0.5;

具有优秀的抗疲劳性能;

Excellent fatigue resistance;

爆破后无碎片;

Fragmentfree;

可与安全阀串联组装;

Can be assembled in series with safety valve;

适用于气相介质。

Suitable for gas phase media.



反拱开缝型爆破片RS

爆破片由带有锯齿及压杆的压力敏感元件和密封膜组合而成，压力敏感元件的压杆失稳使组合膜片翻转，密封膜被压力敏感元件上的锯齿致裂泄放。

The bursting disc is composed of pressure-sensitive components with sawtooth and pressure lever and sealing film. The instability of the pressure lever of the pressure-sensitive components makes the sealing film cracked by the sawtooth on the pressure-sensitive components to release during the rollover of bursting disc.

相配夹持器Holder: ROHA;

尺寸Size: DN25~500 (1" ~20") ;

流阻系数KRG: 3.42;

具有优秀的抗疲劳性能;

Excellent fatigue resistance;

爆破后无碎片;

Fragmentfree;

可与安全阀串联组装;

Can be assembled in series with safety valve;

适用于气相介质。

Suitable for gas phase media.



平板开缝型爆破片FS

由平片强度膜和密封膜等组成，对于需要承受背压的情况需加一层托架，强度膜和托架上开有削弱材料强度的孔和缝（径向开缝），超压时在最小孔距的截面处拉伸破坏。

Composed of flat strength film, sealing film and other components. For the situations where the back pressure needs to be withstood, a support shall be added.Holes and cracks (radial cracks) are cut on the strength film and bracket to weaken the strength of the material, and tensile failure occurs at the section with the minimum spacing of holes during overpressure.

- 相配夹持器Holder: FHA;
- 尺寸Size: DN25~600 (1” ~24”) ;
- 流阻系数KRG: 0.77;
- 具有一般的抗疲劳性能;
- Normal fatigue resistance;
- 爆破后有少量碎片;
- Few fragments;
- 不建议与安全阀串联组装;
- Not recommended for assembled in series with safety valve;
- 适用于气相介质。
- Suitable for gas phase media.



注：具体选型请联系我们
Note: Please contact us for specific selection

CE产品 (CE PRODUCTS)

体系介绍 System Introduction

CE (CONFORMITE EUROPEENNE) 是一种安全认证标志，被视为制造商打开并进入欧洲市场的护照。在欧盟市场CE标志属强制性认证标志。

上海华理安全装备有限公司于2020年取得爆破片装置CE认证证书，代表华理安全爆破片产品的设计、制造、组装和检验符合欧盟《技术协调与标准化新方法》指令的基本要求，产品可在欧盟市场上自由流通。

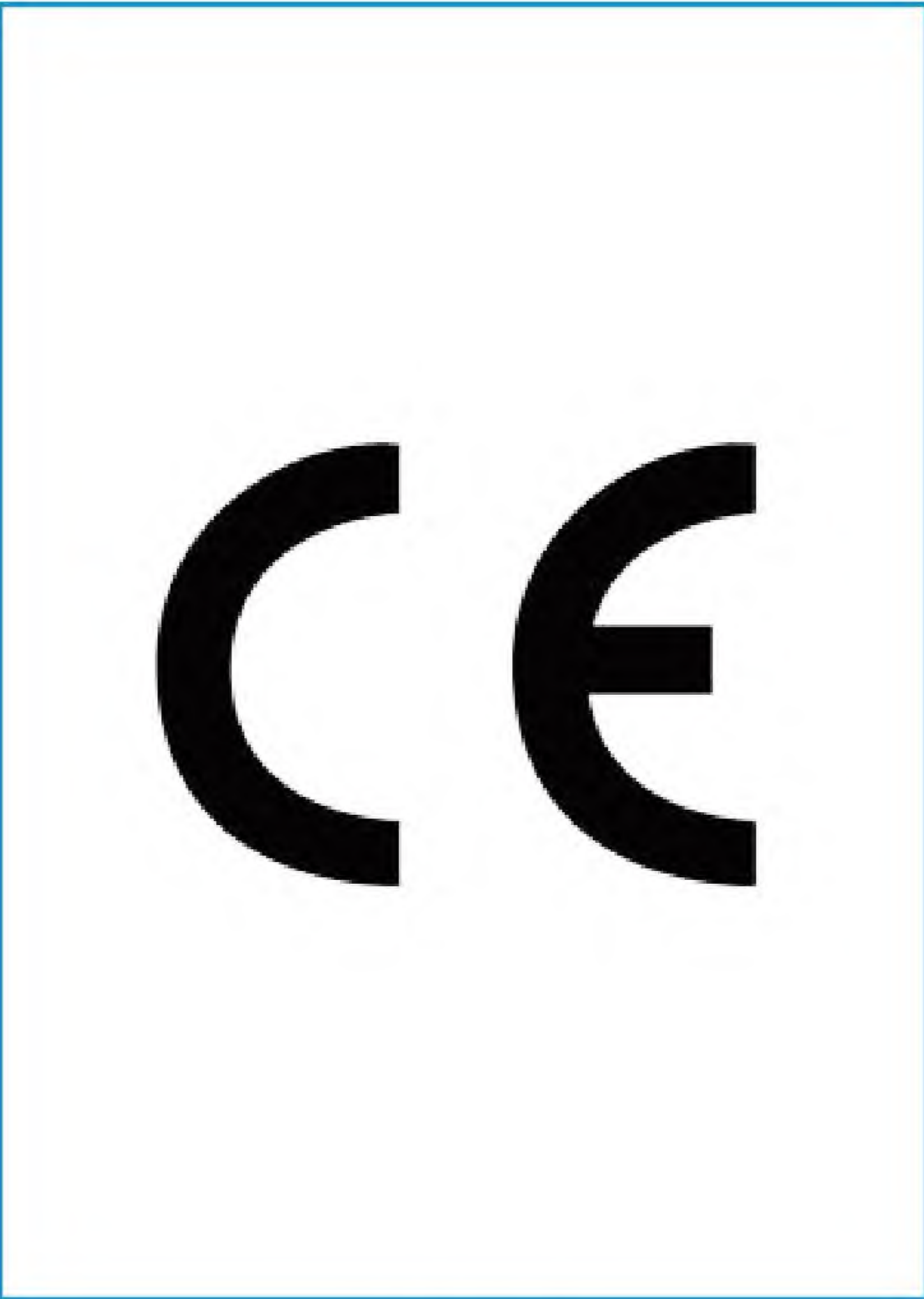
CE (CONFORMITE EUROPEENNE) is a safety certification mark that is regarded as a passport for manufacturers to open and enter the European market. In the EU market CE mark is a mandatory certification mark.

Shanghai Huali Safety Devices Co., Ltd. obtained the CE certification of bursting disc safety devices in 2020, which means that the design, manufacturing, assembly and inspection of Shanghai Huali bursting disc Devices meet the basic requirements of the European Union's 85/C136/01 directive, and the products can be freely circulated in the EU market.

适用标准 Applicable Standard

ISO4126-2

产品标识 Mark



CE标识



CE认证证书

工业，因我们而更安全

华理安全，专注爆破片装置、无焰泄放装置、阻火器、隔爆阀等工业安全产品的设计与制造。
 公司产品经多个国内外权威机构测试认证：沈阳特种设备检测研究院、上海化工研究院、美国ASME和NB实验室、德国IBExU、IEC等。
 公司坚持“为顾客提供满意的产品与服务，持续改进”的质量方针，秉承“合法合规，节能降耗，持续改进，共建绿色家园”和“以为人本，全员参与，预防为先，关爱健康安全”的发展理念。


 爆破片装置符合TSG ZF003
 阻火器符合TSG D7002和GB/T 13347



 电讯号装置符合
 IEC 60079-0、IEC 60079-11
 ATEX 2014/34/EU



 爆破片装置符合ASMEⅧ-1和ASME XIII



 阻火器持有ATEX认证，符合
 ATEX2014/34/EU和ISO16852


 爆破片装置符合欧盟PED 2014/68/EU


 无焰泄放装置符合EN14797和
 EN16009




 通过质量、环境、健康体系认证，符合ISO9001、ISO14001和ISO45001

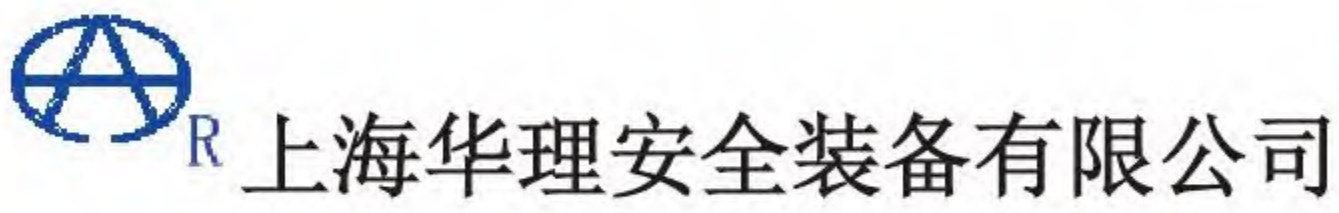












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爆破片装置技术协议书

编号 _____

客户合同号: _____

上海华理安全装备有限公司为 _____ (公司名称) 研制爆破片装置，技术参数如下：

一、容器技术参数

序号	设备名称	工作压力 MPa	工作温度 ℃	设计压力 MPa	工作介质及状态	腐蚀性	真空度/背压 MPa	容积 m³	备 注
1									
2									
3									

二、爆破片技术参数

序号	位号	型 号	通径 mm	材 质	爆破 温度 ℃	设计 爆破压力 MPa	爆破压力 允差	数 量	备 注
1									
2									
3									

三、夹持器技术参数

序号	位号	型 号	材 质	密封面形式	法兰标准	外形尺寸 mm	数 量	备 注
1								
2								
3								

四、爆破片制造和检验验收条件应符合《固定式压力容器安全技术监察规程》或《移动式压力容器安全技术监察规程》，《爆破片装置安全技术监察规程》，GB/T567.1-2012《爆破片安全装置》第一部分：基本要求和本技术协议书的规定。

五、备注 本协议所示压力均为表压

单 位 _____ 上海华理安全装备有限公司 (盖章)

单 位 _____ (盖章)

签 订 人 _____ 审 查 人 _____

签 订 人 _____ 审 查 人 _____

通讯地址 _____ 上海市闵行区鹤翔路 99 号

通讯地址 _____

电 话 _____ 021-54633558

电 话 _____

传 真 _____ 021-64979633

传 真 _____

网 址 _____ www.HL130.com

邮 编 _____

邮 箱 _____ hl555@vip.163.com

签订日期 _____ 年 ____ 月 ____ 日

烦请签字盖章回传，谢谢！