

太极氟塑料设备

CHINA TAIJI FLUOROPOLYMER LINED EQUIPMENT



主要产品 PRODUCTS

- 碳化硅换热器 SILICON CARBIDE HEAT EXCHANGER
- 反应釜自动取样系统 AUTOMATIC SAMPLING SYSTEM FOR REACTOR
- 反应釜手动取样系统 MANUAL SAMPLING SYSTEM FOR REACTOR
- 管道在线取样箱 ONLINE SAMPLING BOX ON PIPELINE
- PFA衬里不锈钢取样阀 PFA LINED STAINLESS STEEL SAMPLING VALVE
- 模压 PFA 塔器 PFA LINED COLUMN
- 模压 PFA 滤板/支撑板 MOLDED PFA FILTER PLATE/SUPPORT PLATE
- 包覆PTFE塔器支撑环 PTFE COATED COLUMN SUPPORT RING
- 氯甲烷专用PFA加料管 PFA FEEDING PIPE FOR CHLOROMETHANE REACTOR
- PFA球阀 PFA LINED BALL VALVE
- PFA隔膜阀 PFA LINED DIAPHRAGM VALVE
- 模压PFA管件 PFA LINED PIPES



淄博太极工业搪瓷有限公司
ZIBO TAIJI INDUSTRIAL ENAMEL CO., LTD.

SILICON CARBIDE HEAT EXCHANGER



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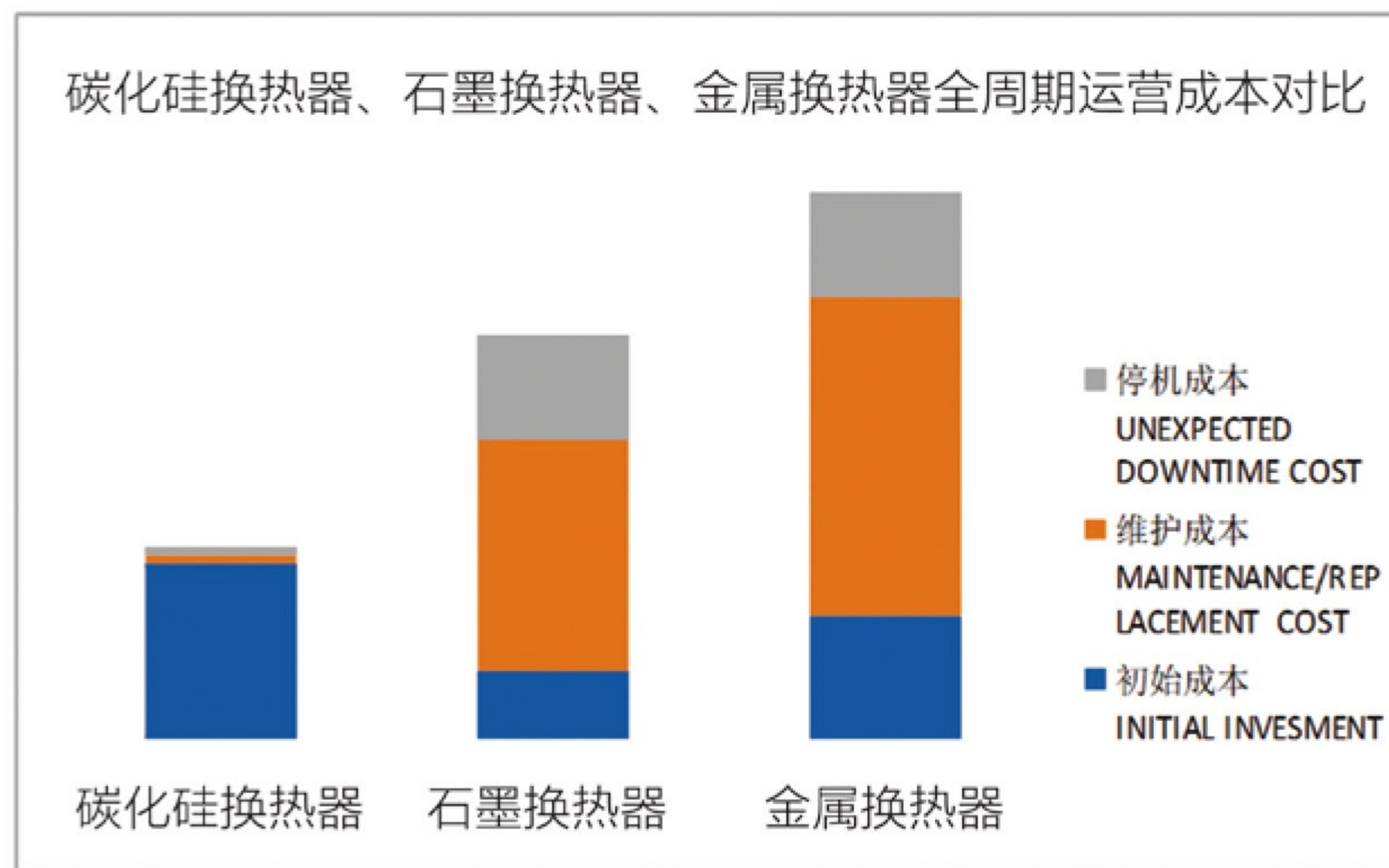
碳化硅换热器可以被广泛应用于化工、制药等领域的腐蚀性工况环境中，它属于一种新材料热交换器，换热管采用无压烧结工艺制成。与传统的石墨换热器、搪玻璃（搪瓷）换热器、不锈钢换热器比较，具有强耐腐蚀性、高换热效率、长使用寿命、高密封洁净性、强抵抗热冲击能力等显著特性，并具有非常高的性价比。

Silicon carbide heat exchanger is widely used in chemical, pharmaceutical and other fields of corrosive environment, it belongs to a new material heat exchanger, and the heat exchange tube is made by pressureless sintering process. Compared with the traditional graphite heat exchanger, glass lined heat exchanger and stainless steel heat exchanger, it has strong corrosion resistance, high heat exchange efficiency, long service life, high sealing cleanliness, strong resistance to thermal shock and other significant characteristics, and has a very high cost performance.

碳化硅换热器 非常高的性价比 High Cost Performance of Silicon Carbide Heat Exchanger

购买、保养维护、意外停机等综合成本优于石墨及其它金属换热器

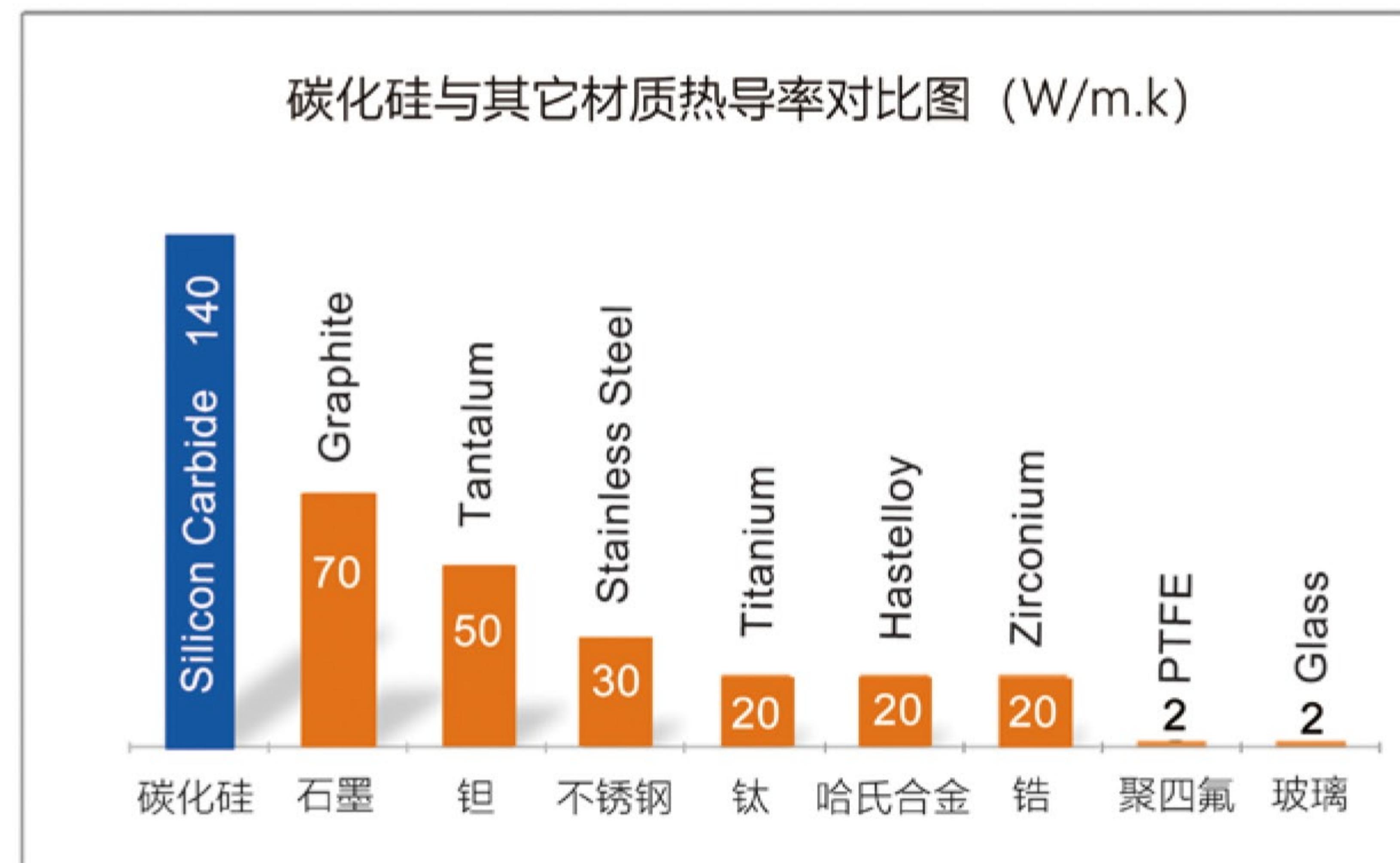
The comprehensive cost of purchase, maintenance and unexpected downtime cost is better than that of graphite and other metal heat exchangers.



碳化硅换热器 突出的换热效率 Outstanding Heat Transfer Efficiency of Silicon Carbide Heat Exchanger

- 碳化硅换热器热导效率远远高于其它传统耐腐蚀材料的换热器
- 同样换热效率下使用更少的换热面积，这就决定了它可以具有更小的尺寸
- 大大缩小了设备实际使用占用的空间，从而全面降低使用成本

The thermal conductivity of SiC heat exchanger is much higher than that of other traditional corrosion-resistant materials.
At the same heat exchange efficiency, it uses less heat exchange area, which determines that it can have smaller size.
It greatly reduces the space occupied by the actual use of the equipment, so as to comprehensively reduce the use cost.



太极碳化硅换热器

TAIJI SILICON CARBIDE HEAT EXCHANGER

碳化硅换热器 突出的耐腐蚀性 Outstanding Corrosion Resistance of Silicon Carbide Heat Exchanger

测试条件 * : 腐蚀性介质 Corrosive Medium(Wt%)	温度 Temperature(°C)	腐蚀速率 ** Corrosion Rate (mg/cm ² *Y)
37% 盐酸 HCl	86	<0.2
70% 硝酸 HNO ₃	100	<0.2
98% 硫酸 H ₂ SO ₄	100	1.8
85% 磷酸 H ₃ PO ₄	100	<0.2
10% 氢氟酸 HF+57% 硝酸 HNO ₃	25	<0.2
53% 氢氟酸 HF	25	<0.2
45% 氢氧化钾 KOH	100	<0.2
50% 氢氧化钠 NaOH	100	2.5

* 测试时间: 125到300小时浸没测试, 持续搅拌。

** 腐蚀速率应用指南

>1000 mg/cm²*Y 几天内完全破坏

100~999 mg/cm²*Y 不推荐使用超过一个月

50~99 mg/cm²*Y 不推荐使用超过一年

10~49 mg/cm²*Y 基于特定的应用谨慎推荐

0.3~9.9 mg/cm²*Y 推荐长期使用

<0.2 mg/cm²*Y 推荐长期使用, 几乎无腐蚀

* Test time: 125 to 300 hours of immersion test, continuous stirring.

** Corrosion rate application guide

>1000 mg/cm²*Y Completely destroyed in a few days.

100~999 mg/cm²*Y Not recommended for more than one month.

50~99 mg/cm²*Y Not recommended for more than one year.

10~49 mg/cm²*Y Recommended for long-term use with caution based on specific applications.

0.3~9.9 mg/cm²*Y Recommended for long-term use.

<0.2 mg/cm²*Y Recommended for long-term use, almost no corrosion.

它具有极强的耐腐蚀性、 强抗氧化性和强耐热冲击性，可耐任何强碱、 高浓度硫酸、 硝酸、 磷酸、 混合酸以及氢氟酸等。

It has strong corrosion resistance, strong oxidation resistance and strong heat shock resistance, and can resist any strong alkali, high concentration sulfuric acid, nitric acid, phosphoric acid, mixed acid and hydrofluoric acid.

太极碳化硅换热器规格

Specification of Taiji Silicon Carbide Heat Exchanger

技术参数 Technical Parameter

换热面积 Heat Exchange Area	0.31 ~ 183.8m ²
设计压力 Design Pressure	-0.1 ~ 1.0 MPa
设计温度 Design Temperature	-19 ~ 180 °C

碳化硅管规格 Specification of Silicon Carbide Tube

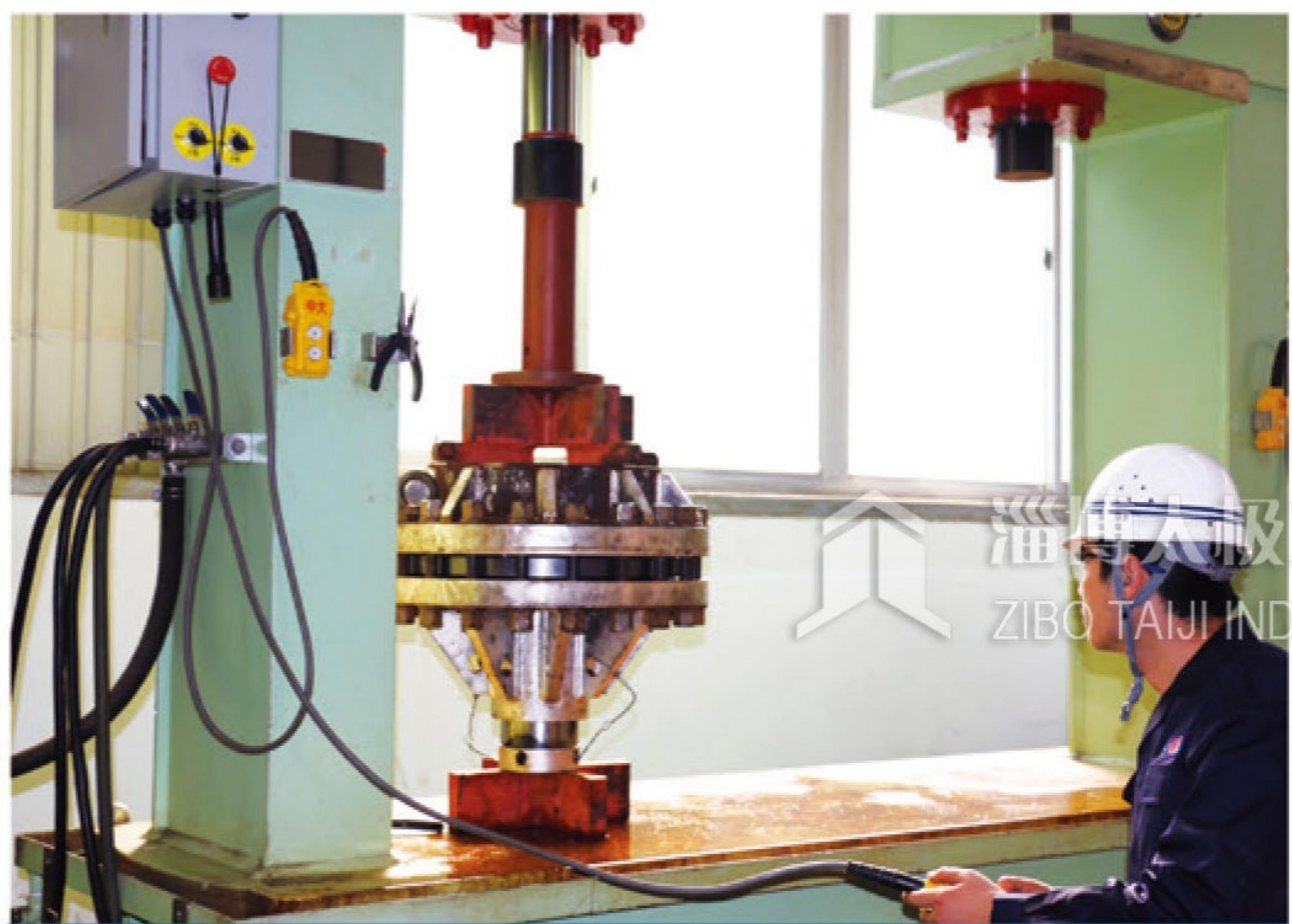
标称尺寸	外径 OD±Xmm	内径 ID±Xmm	公差 X mm	不圆度 mm	最大长度 L±2mm
DN14	14	11	±0.3	≤0.3	4000
DN19	19	14.5	±0.4	≤0.4	4000

$\Phi 14\text{mm}$ 碳化硅换热器换热面积 m^2 (换热管长计算)						
直径	数量	L=3000mm	L=2500mm	L=2000mm	L=1500mm	L=1000mm
DN100	7	0.92	0.77	0.62	0.46	0.31
DN150	19	2.51	2.09	1.67	1.25	0.84
DN200	31	4.09	3.41	2.73	2.05	1.36
DN250	55	7.26	6.05	4.84	3.63	2.42
DN300	76	10.03	8.36	6.69	5.01	3.34
DN350	109	14.38	11.99	9.59	7.19	4.79
DN400	140	18.47	15.39	12.32	9.24	6.16
DN450	187	24.67	20.56	16.45	12.34	8.22
DN500	230	30.35	25.29	20.23	15.17	10.12
DN600	337	44.47	37.06	29.64	22.23	14.82
DN700	454	59.90	49.92	39.94	29.95	19.97
DN800	604	79.70	66.41	53.13	39.85	26.57
DN900	769	101.47	84.56	67.64	50.73	33.82
DN1000	955	126.01	105.01	84.01	63.00	42.00
DN1200	1393	183.80	153.17	122.53	91.90	61.27

$\Phi 19\text{mm}$ 碳化硅换热器换热面积 m^2 (换热管长计算)						
直径	数量	L=3000mm	L=2500mm	L=2000mm	L=1500mm	L=1000mm
DN100	7	1.25	1.04	0.84	0.63	0.42
DN150	13	2.33	1.94	1.55	1.16	0.78
DN200	22	3.94	3.28	2.63	1.97	1.31
DN250	38	6.80	5.67	4.54	3.40	2.27
DN300	55	9.85	8.21	6.57	4.92	3.28
DN350	73	13.07	10.89	8.71	6.54	4.36
DN400	96	17.19	14.33	11.46	8.60	5.73
DN450	126	22.56	18.80	15.04	11.28	7.52
DN500	151	27.04	22.53	18.03	13.52	9.01
DN600	230	41.19	34.32	27.46	20.59	13.73
DN700	316	56.59	47.16	37.72	28.29	18.86
DN800	421	75.39	62.82	50.26	37.69	25.13
DN900	526	94.19	78.49	62.79	47.10	31.40
DN1000	649	116.22	96.85	77.48	58.11	38.74
DN1200	955	171.01	142.51	114.01	85.51	57.00

太极碳化硅换热器生产工艺

Production Process of Taiji Silicon Carbide Heat Exchanger



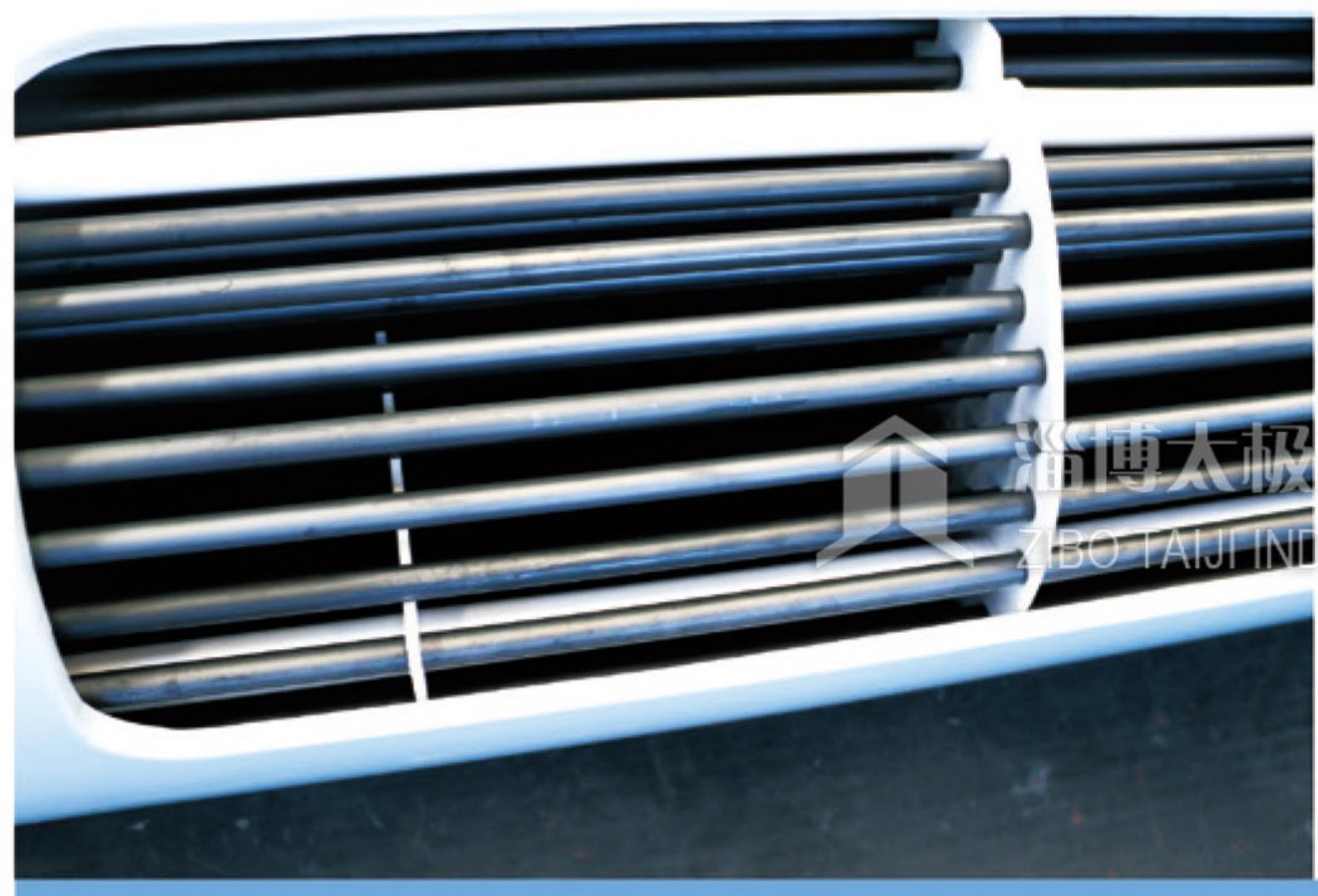
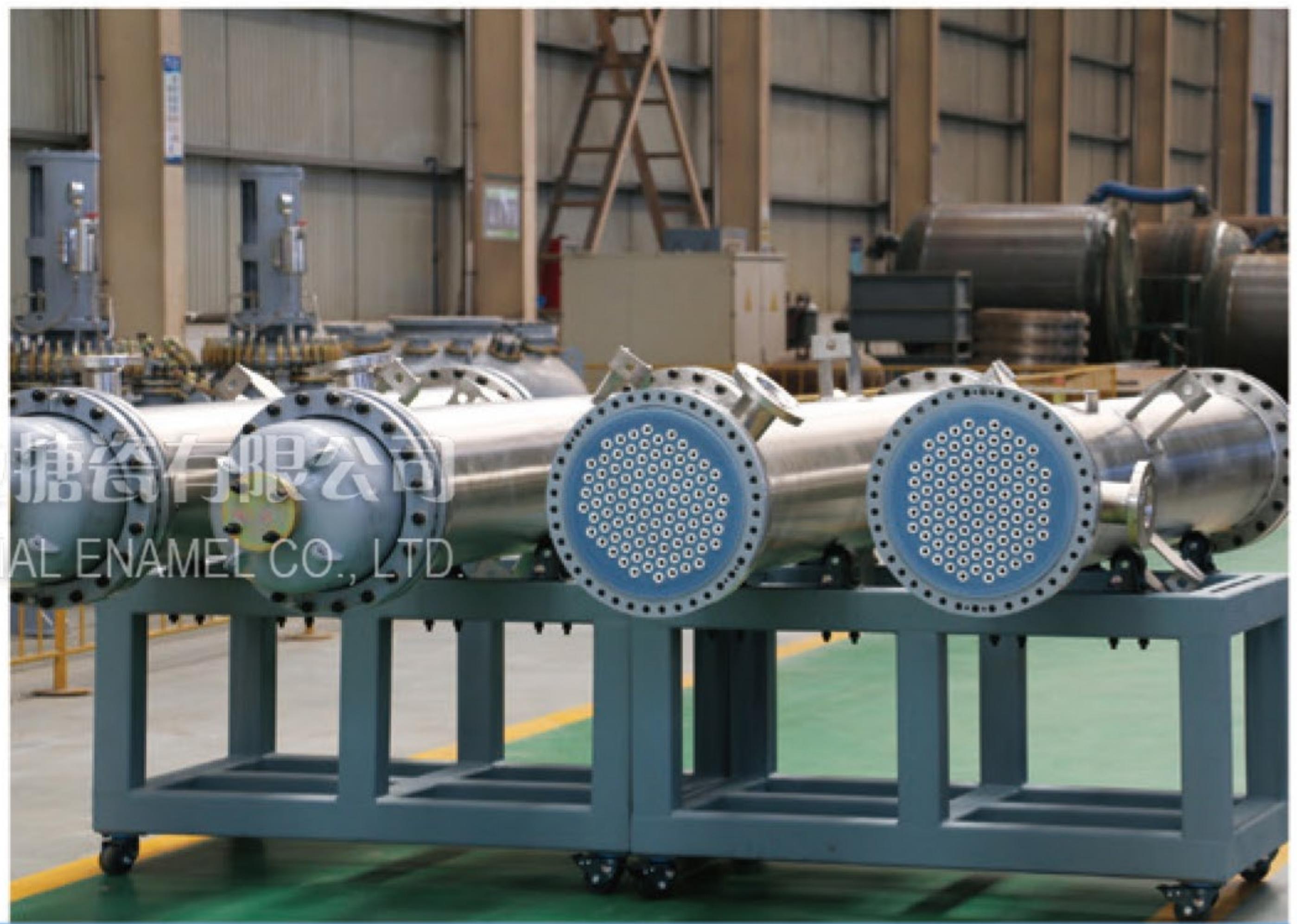
钢衬PFA管板模压
Processing of steel lined PFA tube sheet



成熟领先机加工装备
Mature and leading machining equipment

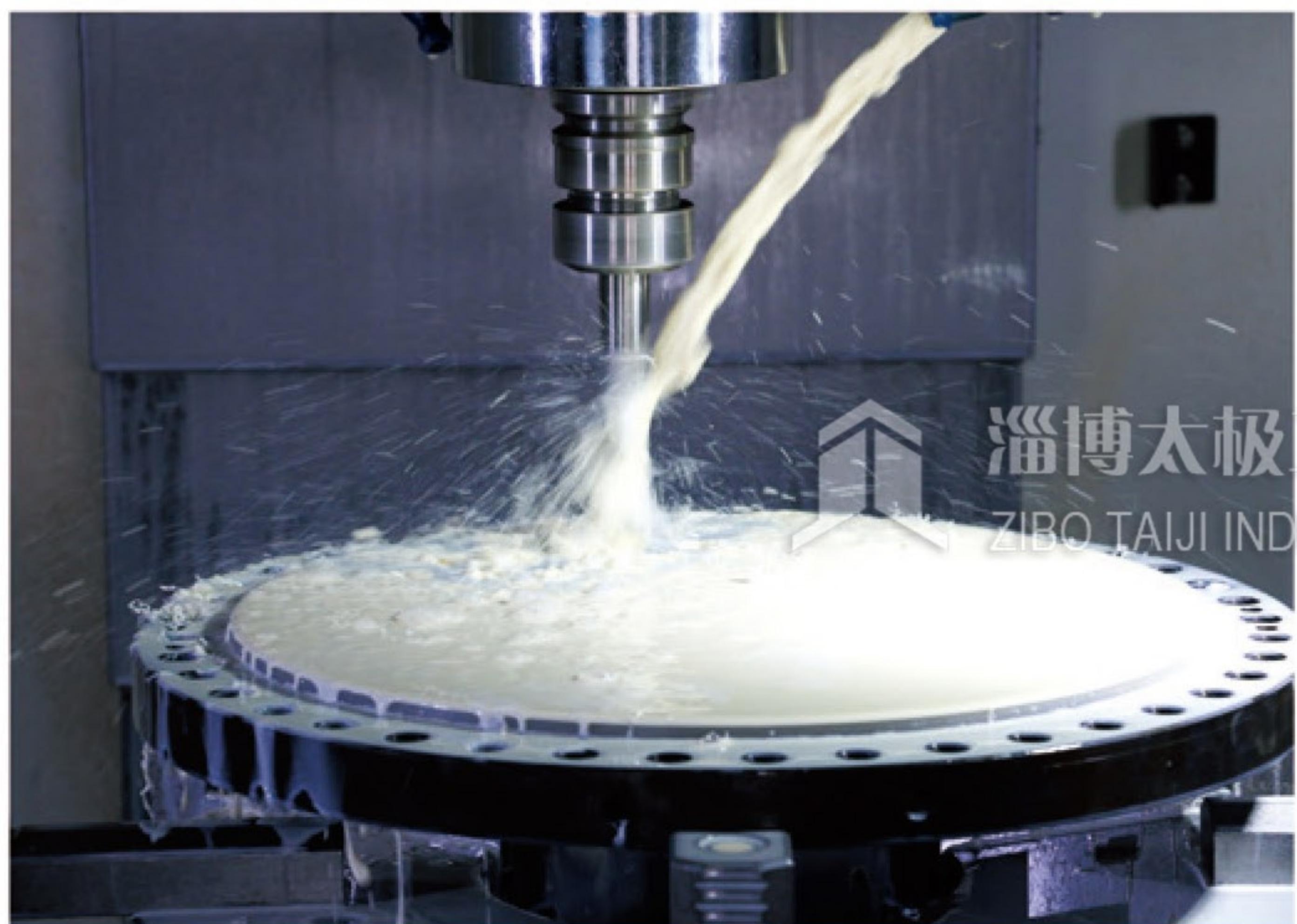


产品批量生产中 Product batch production



碳化硅管式换热器装配过程 Assembly process of silicon carbide tube heat exchanger

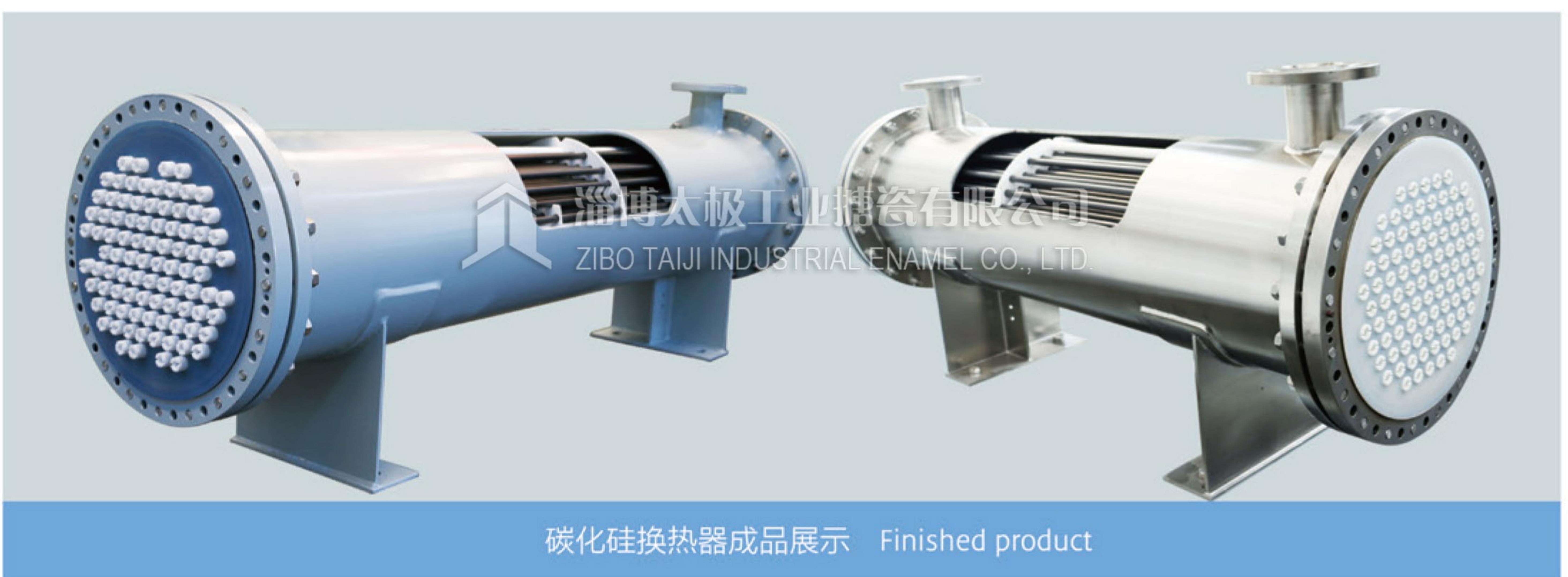




PFA管板精细机加工 PFA tube sheet fine machining



精密的扭矩检测 Precise torque detection



碳化硅换热器成品展示 Finished product

AUTOMATIC SAMPLING SYSTEM FOR REACTOR



此系统为防腐在线取样装置。取样物料接触各部件均采用里衬PFA、衬氟材质，达到防腐目的；四氟吸料管配套插入管（衬氟/搪玻璃材质）浸于釜内料液以下，增加其过程的稳定性。隔膜泵以洁净压缩空气为动力，物料在取样系统中形成闭环循环回路，过程快捷、安全、无污染。

This system is on-line anti-corrosive sampling device. The part in contact with medium is lined with PFA or Fluorine to achieve the purpose of anti-corrosion. The Teflon suction pipe matched with the insertion pipe (fluorine lined / glass lined) is immersed below the medium liquid in the vessel to increase the stability of the process. The diaphragm pump is powered by clean compressed air and the sample flows in a closed circulation loop in the sampling system, which is fast, safe and pollution-free.



取样器操作工况： Operating conditions of sampler

罐内温度 Internal temperature	-19°C ~130°C
罐内压力 Internal pressure	常压 ~2 公斤 ATM~0.2MPa
氮气反吹压力 Back blowing pressure	2 公斤 ~3 公斤 0.2MPa~0.3MPa

特别提示：

取样时反应釜内严禁超压、超温在线取样！

Note:

During sampling, overpressure and overtemperature online sampling are strictly prohibited in the reactor!

取样器安装及取样步骤： Sampler Installation and Sampling Steps

安装步骤：

Installation procedure

1. 将(插入管)安装到反应釜相应管口上，紧固螺栓。

Install (the insertion pipe) on the corresponding nozzle of the reactor and fasten the bolts.

2. 将取样系统下端(底座)与(隔膜阀1)拆分，将(底座)安装到(插入管)上端。

Separate the lower end (base) of the sampling system from (diaphragm valve 1), and install (base) to the upper end of (insertion pipe).

3. 将四氟外翻边(吸料管)装入(底座)内腔，四氟(吸料管)外翻边处于(阀座)密封面处吻合。

Put the Teflon outer flanging (suction pipe) into the inner cavity of the (base), and the Teflon outer flange of (the suction pipe) is matched at the sealing surface of the (valve seat).

4. 将其余取样系统主体与其连接紧固，保证(底座)密封处压紧、无泄漏。

Connect and tighten the rest of the sampling system body to ensure that the sealing part of (base) is tight and without leakage.

取样步骤：

Sampling procedure

1. 开机前确认、检查： Confirm and check before starting:

a: 所有隔膜阀处于关闭状态。

All diaphragm valves are closed.

b: 取样系统内、外无残余物，视镜无破损。

There is no residue inside and outside the sampling system, and no damage to the sightglass.

b: 隔膜泵用0.2~0.3 MPa洁净气源。

Fill the diaphragm pump with 0.2~0.3 MPa clean air pressure.

c: 反吹用0.2~0.3 MPa氮气气源。

0.2~0.3 MPa nitrogen gas source is used for back blowing.

d: 备用150/250ml硼硅玻璃取样瓶1支。

One spare 150/250 ml borosilicate glass sampling bottle is needed.

2. 循环回路 : Circulation Loop:

a: 打开 (阀门1) —— 打开 (阀门2)。

Open (valve 1) -- open (valve 2).

b: 打开 (隔膜泵)。 泵工作运转。

Open (diaphragm pump). The pump works.

c: 观察 (视镜)。 窗口内充满物料，同时形成取样循环回路状态。

Observe (sightglass). The window is filled with medium, and a sampling circulation loop state is formed at the same time.

3. 取样 : Sampling:

a: 按压 (取样阀手柄)。观察取样瓶量剂，适时松开取样阀手柄。

Press (sampling valve handle). Observe the dosage of the sampling bottle and release the handle of the sampling valve in time.

b: 关闭 (隔膜泵)。 Turn off (diaphragm pump).

c: 取样瓶内排气过程。

The exhausting process in the sampling bottle.

c1: 当罐内常压时：打开 (隔膜阀3) -关闭 (隔膜阀3)。

When the tank is with atmospheric pressure: open (diaphragm valve 3) - close (diaphragm valve 3).

c2: 当罐内≤0.2MPa时： 打开(四氟针型阀) -关闭 (四氟针型阀)。

When the pressure in the tank is less than or equal to 0.2MPa: open (Teflon needle valve) - close (Teflon needle valve).

注：引导排出有害气体到安全存贮装置中。

Note: discharge the harmful gases to a safe storage device.

d: 取下 (取样瓶) 密封瓶口——装入 (备用取样瓶)。

Remove the (sampling bottle) and seal the bottle mouth - put in (spare sampling bottle).

e: 打开 (隔膜阀4) —— 打开 (氮气) 将系统内残余物料反吹釜内——关闭 (隔膜阀4)。

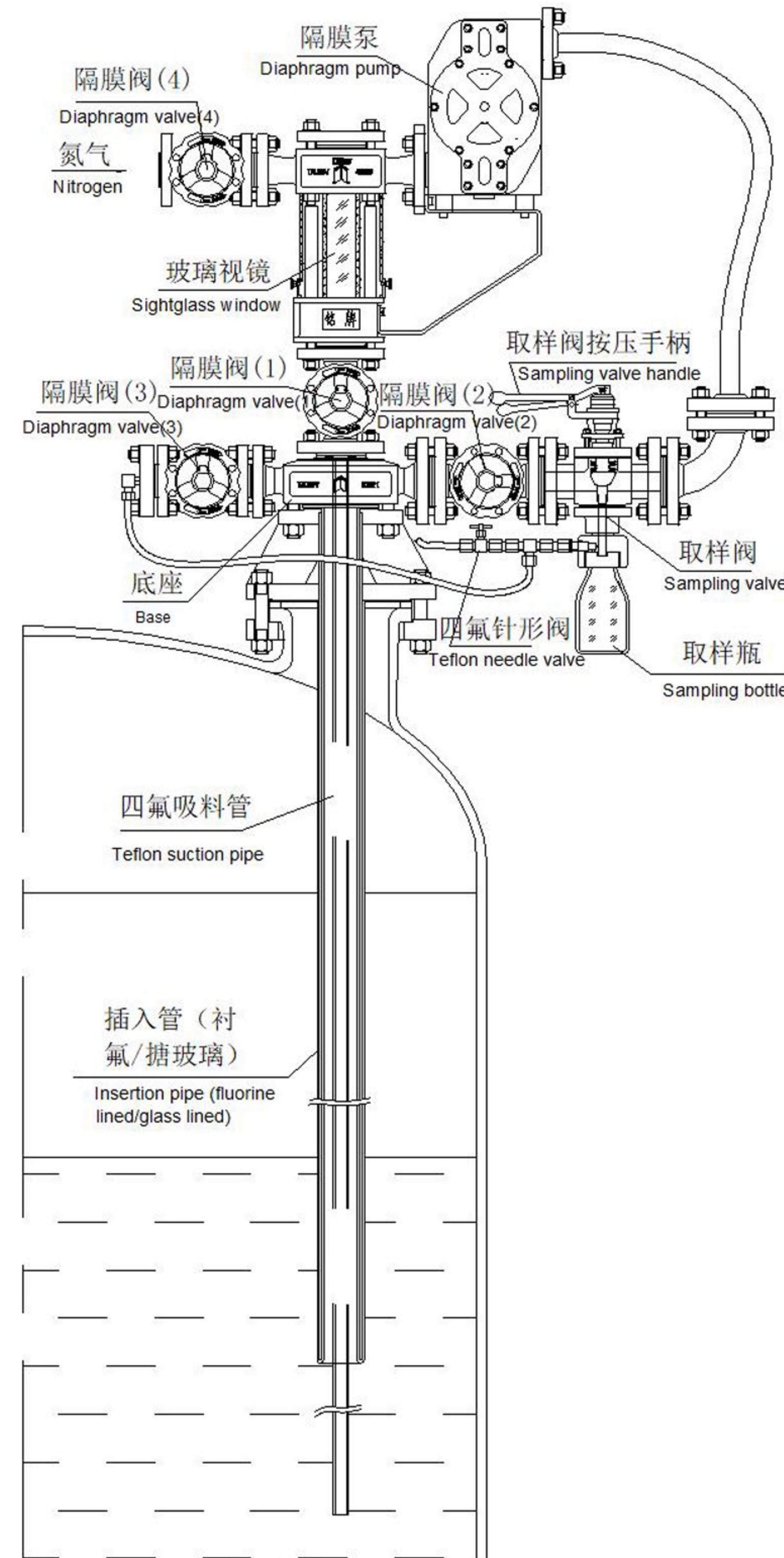
Open (diaphragm valve 4) - make (nitrogen) to blow the residual medium in the system back into the vessel - close (diaphragm valve 4).

f: 关闭 (隔膜阀2) ——关闭 (隔膜阀1)。

Close (diaphragm Valve 2) - Close (diaphragm Valve 1).

g: 取样结束。

Sampling complete.



反应釜带自动取样系统清洗过程说明：Description of The Cleaning Process of The Reactor with Automatic Sampling System

在进行整个反应釜的清洗过程中，可以按照以上取样步骤描述进行取样系统内部清洗、吹扫。

During the cleaning process of the whole reactor, the internal cleaning and purging of the sampling system can be carried out according to the above sampling steps.

反应釜手动取样系统

MANUAL SAMPLING SYSTEM FOR REACTOR

MANUAL SAMPLING SYSTEM FOR REACTOR



淄博太极工业搪瓷有限公司
ZIBO TAIJI INDUSTRIAL ENAMEL CO., LTD.

此系统为防腐手动取样装置。取样物料接触各部件均采用里衬PFA、衬氟材质，达到防腐目的；四氟吸料管配套插入管（衬氟/搪玻璃材质）浸于釜内料液以下，增加其过程的稳定性。通过抽真空将物料在系统中安全、快捷取样。

This system is an anti-corrosion manual sampling device. The parts in contact with the sampling medium are lined with PFA or Fluorine to achieve anti-corrosion purpose. The Teflon suction pipe matched with the insertion pipe (fluorine lined / glass lined) is immersed below the medium liquid in the vessel to increase the stability of the process. The medium is sampled safely and quickly in the system by vacuuming.

取样器操作工况： Operating conditions of sampler

罐内温度 Internal temperature	-19°C ~130°C
罐内压力 Internal pressure	常压 ~2 公斤 ATM~0.2MPa
氮气反吹压力 Back blowing pressure	2 公斤 ~3 公斤 0.2MPa~0.3MPa

特别提示：

取样时反应釜内严禁超压、超温在线取样！

Note:

During sampling, overpressure and overtemperature online sampling are strictly prohibited in the reactor!

取样器安装及取样步骤： Sampler Installation and Sampling Steps

安装步骤：

Installation procedure

1. 将(插入管)安装到反应釜相应管口上，紧固螺栓。

Install (the insertion pipe) on the corresponding nozzle of the reactor and fasten the bolts.

2. 将取样系统下端(底座)与(隔膜阀1)拆分，将(底座)安装到(插入管)上端。

Separate the lower end (base) of the sampling system from (diaphragm valve 1), and install (base) to the upper end of (insertion pipe).

3. 将四氟外翻边(吸料管)装入(底座)内腔，四氟(吸料管)外翻边处于(阀座)密封面处吻合。

Put the Teflon outer flanging (suction pipe) into the inner cavity of the (base), and the Teflon outer flange of (the suction pipe) is matched at the sealing surface of the (valve seat).

4. 将其余取样系统主体与其连接紧固，保证(底座)密封处压紧、无泄漏。

Connect and tighten the rest of the sampling system body to ensure that the sealing part of (base) is tight and without leakage.

备注：连接设备小口管径时可取消底座部件。

Note: The base part can be canceled when connecting the device with small diameter pipe.

取样步骤：

Sampling procedure

1. 取样前确认、检查：Confirm and check before starting:

a: 所有隔膜阀处于关闭状态。

All diaphragm valves are closed.

b: 取样系统内、外无残余物，视镜无破损。

There is no residue inside and outside the sampling system, and no damage to the sightglass.

b: 真空系统与对应真空接口相连并确保密封无泄漏。

The vacuum system is connected to the corresponding vacuum interface and ensure that the seal is leak-free.

c: 反吹用0.2~0.3MPa氮气气源。

0.2~0.3 MPa nitrogen gas source is used for back blowing.

d: 备用150/250mL硼硅玻璃取样瓶1支。

One spare 150/250 ml borosilicate glass sampling bottle is needed.

2.吸料 : Suction:

a: 打开 (隔膜阀1)。

Open (diaphragm valve 1).

b: 适时打开 (隔膜阀2)。

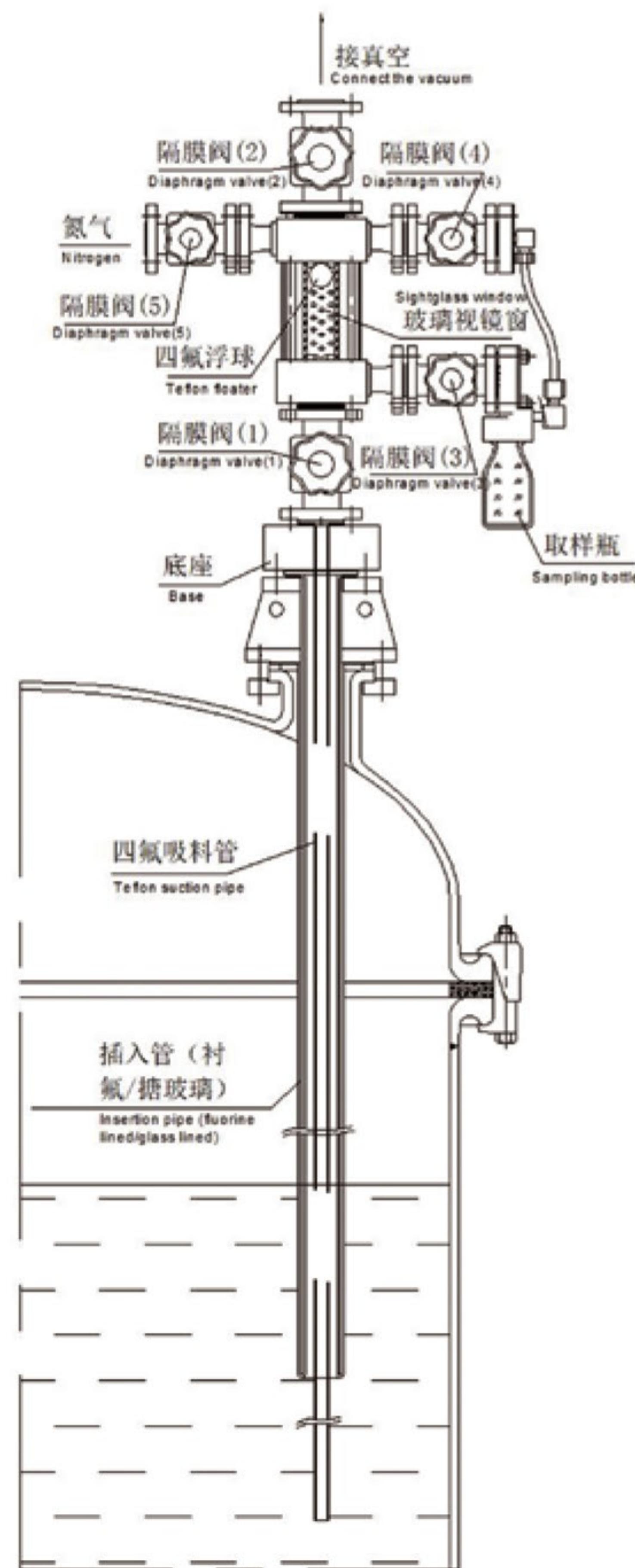
Open (diaphragm valve 2) in time.

c: 观察 (视镜)。浮球缓慢上升，充满视镜窗。

Observe (sightglass). The floater slowly rises and medium fills the sight-glass window.

d: 关闭 (隔膜阀1、隔膜阀2)。

Close (diaphragm valve 1 and diaphragm valve 2).



3.取样 : Sampling:

a: 打开 (隔膜阀3)。

Open (diaphragm valve 3).

b: 打开 (隔膜阀4)。观察取样瓶量剂。

Open (diaphragm valve 4). Observe the dosage of the sampling bottle.

c: 关闭 (隔膜阀3、隔膜阀4)。

Close (diaphragm valve 3 and diaphragm valve 4).

d: 取下 (取样瓶) 密封瓶口——装入 (备用取样瓶)。

Remove the (sampling bottle) and seal the bottle mouth - put in (spare sampling bottle).

e: 打开 (隔膜阀1) —— 打开 (隔膜阀5) —— 打开 (隔膜阀3、隔膜阀4)。

Open (diaphragm valve 1) —— Open (diaphragm valve 5) —— Open (diaphragm valve 3 and diaphragm valve 4).

氮气将系统内残余物料反吹釜内。

Make nitrogen blow the residual material in the system back into the vessel.

f: 关闭 (隔膜阀1、隔膜阀3、隔膜阀4、隔膜阀5)。

Close (diaphragm valve 1、 diaphragm valve 3、 diaphragm valve 4 and diaphragm valve 5).

g: 取样结束。

Sampling complete.

反应釜带手动取样系统清洗过程说明：Description of The Cleaning Process of The Reactor with Manual Sampling System

在进行整个反应釜的清洗过程中，可以按照以上取样步骤描述进行取样系统内部清洗、吹扫。

During the cleaning process of the whole reactor, the internal cleaning and purging of the sampling system can be carried out according to the above sampling steps.

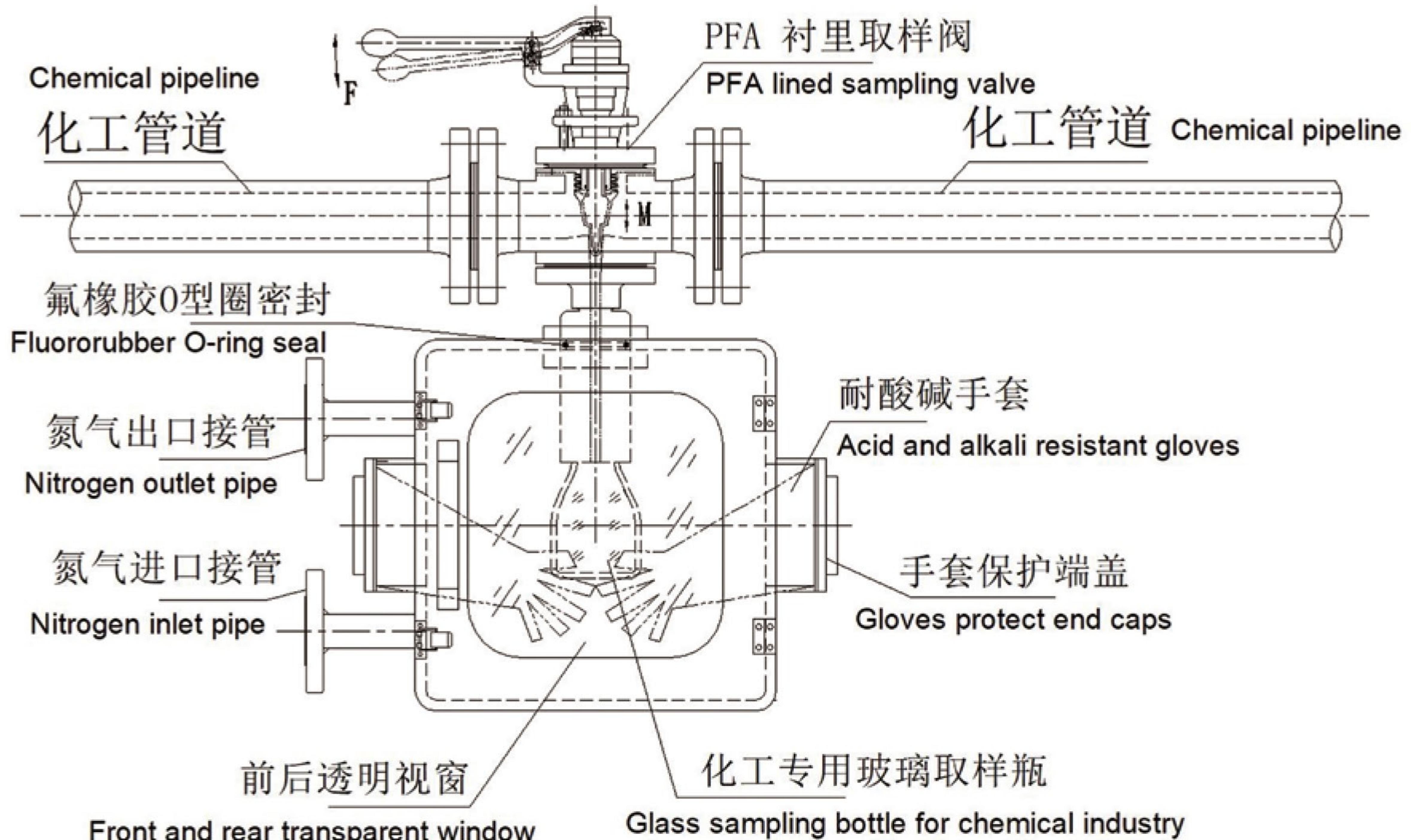
ONLINE SAMPLING BOX ON PIPELINE

PFA衬里不锈钢取样阀采用密封连接形式设置于四氟手套箱上方，四氟手套箱体在操作方位设有可快速开关视窗门，后方设有氮气进出口，连接氮气气源后进行箱体内部及取样瓶内空间清扫，安装瓶体稳妥后小心按压顶部操作手柄，使物料温和而有控制地流入取样瓶内。当获得足够的样品时，松开顶部按压操作手柄，以确定安全停止了取样过程。通过耐酸碱橡胶手套将取样瓶从阀体上安全取下，并装好取样瓶盖，可进行再次氮气空间清扫，以进一步保护操作人员，最终从四氟手套箱内取出取样瓶完成工艺取样工作。



The PFA lined stainless steel sampling valve is installed above the Teflon glove box by a sealed connection. The Teflon glove box is equipped with a window door that can be quickly opened and closed in the operation direction, and a nitrogen inlet and outlet is set in the rear. After connecting the nitrogen gas source, the inside of the box and the space in the sampling bottle are cleaned. After the bottle body is installed stably, carefully press the top operation handle to make the medium flow into the sampling bottle gently and controlled. When sufficient medium is obtained, release the top press operating handle to make sure that the sampling process is stopped safely. The sampling bottle can be safely removed from the valve body by wearing acid and alkali resistant rubber gloves, and the sampling bottle cap can be installed. The space can be cleaned again by nitrogen to further protect the operators. Finally, the sampling bottle can be taken out from the Teflon glove box to complete the process sampling.

管道在线取样箱尺寸及优势 Size and Advantages



注：取样箱外形尺寸：长x宽x高 340x320x350 mm

Note: Dimensions of sampling box: LxWxH 340x320x350 mm

优势 : Advantages

1. 管道在线防护取样。

Online protective sampling on Pipeline.

2. 操作过程中物料在箱体惰性环境中快速完成取样，确保试验测试数据的正确性。

During the operation, the medium can be quickly sampled in the inert environment of the box to ensure the correctness of the test data.

3. 四氟手套箱对实施采样人员安全保护。

The Teflon glove box provides safety protection for sampling personnel.

4. 四氟手套箱设有透明观察窗、观察控制适量取样。

The Teflon glove box is equipped with a transparent observation window to observe and control the appropriate sampling.

5. 对取样瓶洁净状况进行保护，防止外界环境污染。

Protect the clean condition of sampling bottles to prevent external environmental pollution.

PFA衬里不锈钢取样阀

PFA LINED STAINLESS STEEL SAMPLING VALVE

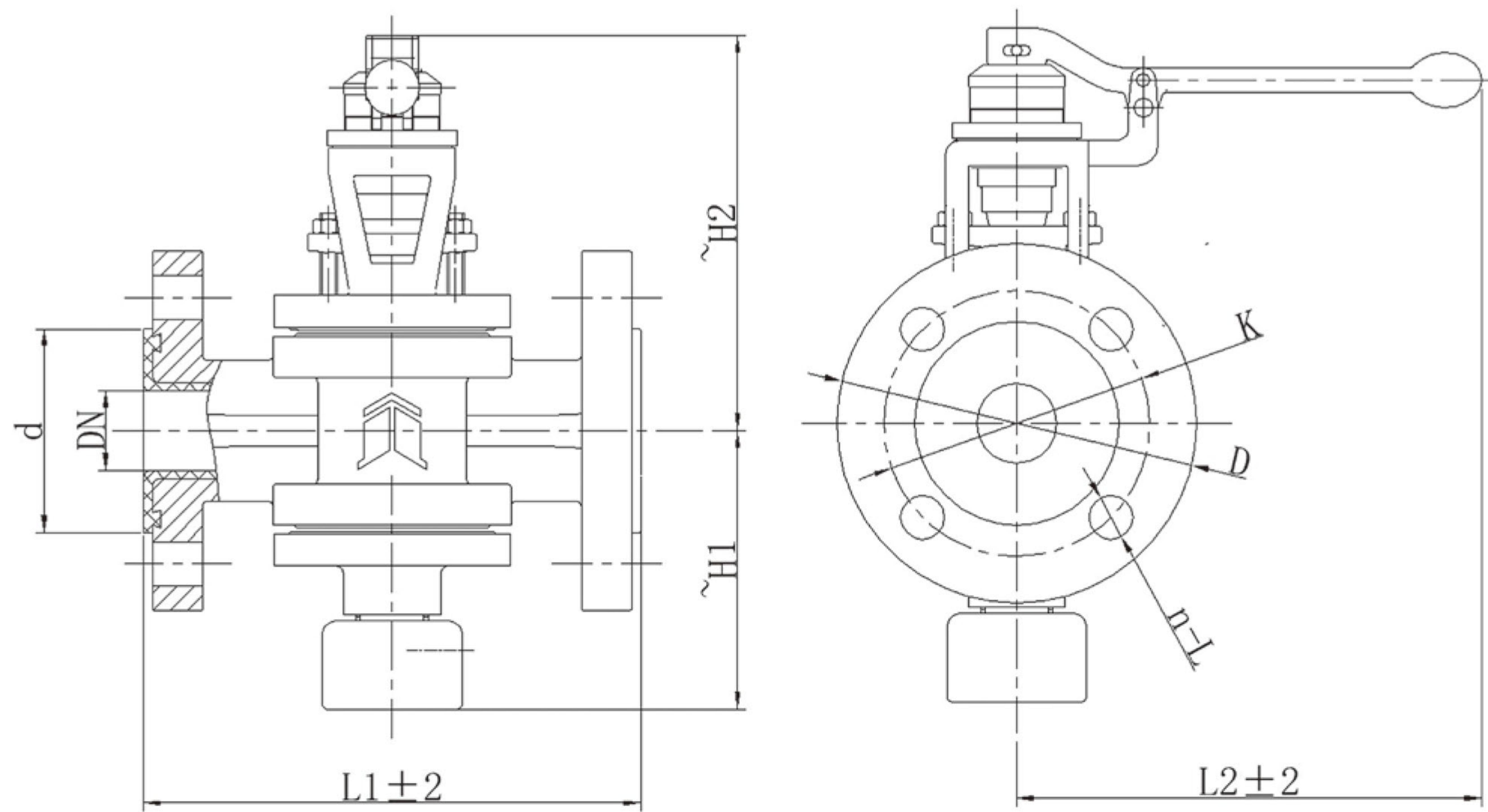
PFA LINED STAINLESS STEEL SAMPLING VALVE



此取样阀提供了一个简单、安全的采样方式，对样品取样达到零污染水平。阀门本质是针形阀，用于在控制流量的条件下从管道中取样。在设计上安排了多重密封结构(已申请专利)，以实现压盖部分零泄漏。物料与阀体内部接触材料均为PFA材质，保证其耐腐蚀性，其余部件材质采用不锈钢制造，达到阀门的内外表面都具有良好的卫生洁净度，从而在需要清洁工作的环境中最大限度地减少污染。阀门上方设有下压操作手柄，可轻松小心打开阀门取样。通过适配不同取样瓶四氟座安装硼硅酸盐玻璃瓶可以用于水平或垂直管道系统中。在操作把手和阀体机架处设有安全锁孔，防止无关人员进行随意操作，现场控制更安全。

The sampling valve provides a simple and safe sampling method which has zero contamination to the samples. It is actually a needle valve, which is used to take samples from the pipeline under the condition of controlled flow. Multiple sealing structures (patented) are designed to achieve zero leakage in gland. The valve body contacting with sampling medium is made of PFA to ensure its corrosion resistance and the rest of the components are made of stainless steel, so that the inner and outer surfaces of the valve have good hygiene and cleanliness, which minimizes contamination in environments where clean work is required. There is a push-down operating handle above the valve, which can easily and carefully open the valve for sampling. Borosilicate glass bottles can be used in horizontal or vertical piping systems by fitting different sampling bottles with Teflon seats. Safety keyhole is provided at the operating handle and valve body frame to prevent irrelevant personnel from arbitrarily operating, and the on-site control is safer .

PFA衬里不锈钢取样阀尺寸及规格 Size and Specification



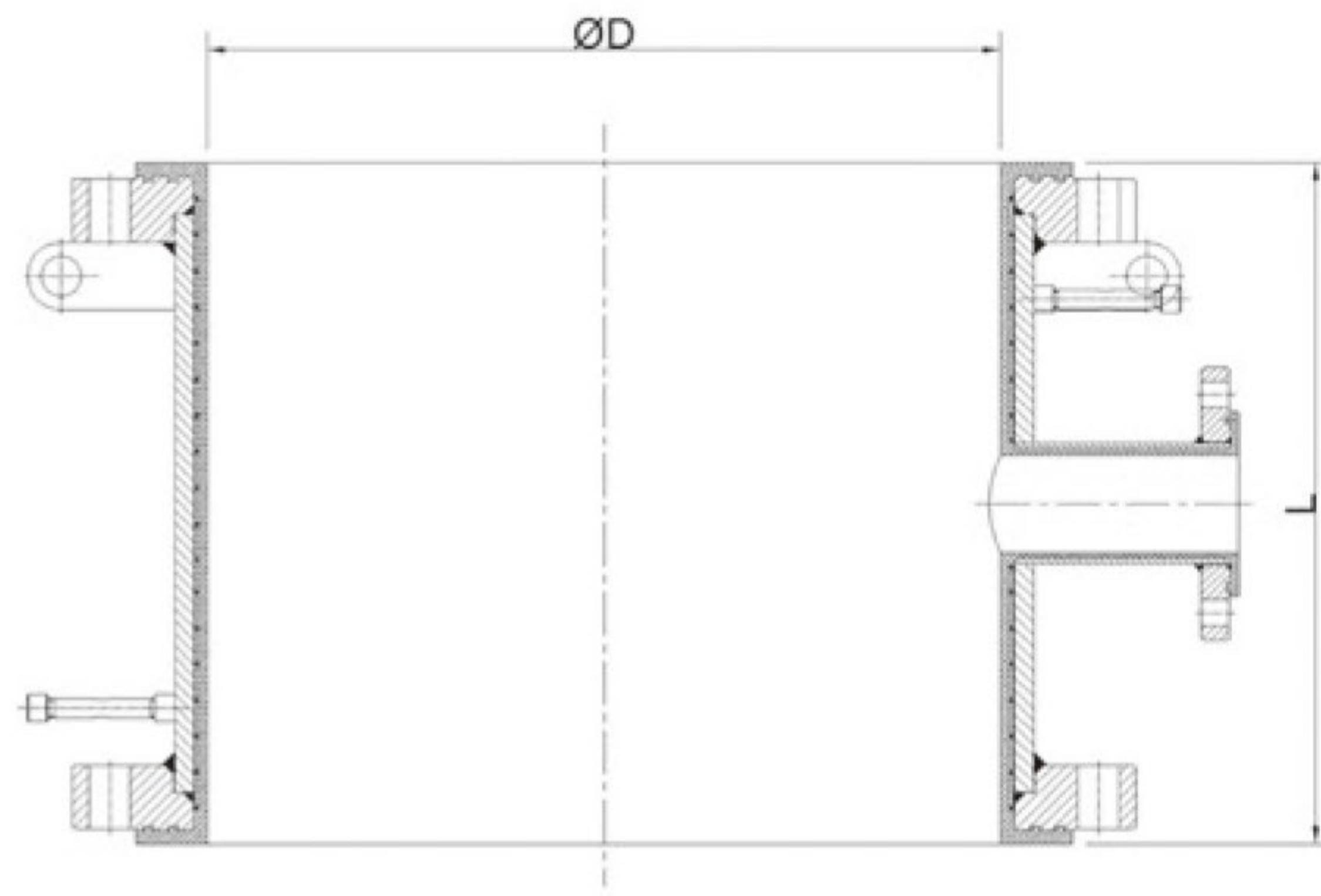
公称通径 Size (mm)		D(mm)	K(mm)	d(mm)	n-L(mm)	L1(mm)	L2(mm)	H1(mm)	H2(mm)
DN	JIS 10K								
25	25A	115	85	65	4-14	161	220	113	160
50	50A	165	125	101	4-18	230	220	133	186

PFA LINED COLUMN

用PFA模压的方法制造大口径(300-1200mm)蒸馏塔，使产品成型表面光亮如玉，加之我们特殊的菱形网加强工艺使模压PFA材料和钢体融为一体。衬氟层在高的成型压力挤压下形成了高密度塑钢体，具有耐强腐蚀和强渗透的特点，产品使用温度可以达到220 °C。



The PFA lined column made by the way of compression molding with PFA material, the diameter ranges from 300-1200mm. The high accuracy inner mould make the final molded surface as bright as jade. In addition, our special diamond mesh reinforcement technology makes the molded PFA material and the steel body integrated. The fluorine-lined layer forms a high-density plastic-steel body under high molding pressure extrusion, which has the characteristics of strong corrosion resistance and strong penetration resistance, and the product's use temperature can reach 220 °C.



公称通径 Size(mm)		L(mm)	ΦD(mm)	ΦD(mm)	材料 Material		公差 Tolerance(mm)
DN	JIS 10K		PFA	PTFE	PFA	PTFE	
300	300A	500~1000	290	290	√	√	±3
400	400A	500~1000	389	389	√	√	±3
500	500A	500~1000	486	486	√	√	±3
600	600A	500~1000	582	582	√	√	±3
700	700A	500~1000	670	670	√	√	±4
800	800A	500~1000	800	800	√	√	±4
1000	1000A	500~1000	968	968	√	√	±4
1200	1200A	500~1000	1170	1170	√	√	±4

模压PFA滤板/支撑板

MOLDED PFA FILTER PLATE/SUPPORT PLATE

MOLDED PFA FILTER PLATE SUPPORT PLATE

滤板接触物料平面及其孔洞均为PFA材质，通过四氟模压工艺将加热后PFA粒料均匀包覆成型于钢坯外表面，产品一次成型、无接缝，耐腐蚀性完全由PFA材质固有特性保证，同时采用足够的钢坯厚度保证其使用的刚度和使用寿命。产品成型后外表面平整、光滑不易粘料，保证了装配于设备后的密封可靠性和易清洁性。衬层厚度通过国家标准高电压电火花试验检测，保证安全性、耐用度。



The surface of the filter plate contacting with the medium and its holes are made of PFA. The heated PFA particles are evenly coated and formed on the outer surface of the billet by the Teflon molding process. The product is formed at one time without joints, and the corrosion resistance is fully guaranteed by the inherent characteristics of PFA material. At the same time, sufficient billet thickness is adopted to ensure its service stiffness and service life. After molding, the outer surface of the product is flat and smooth, and it is not easy to stick medium, which ensures the sealing reliability and easy cleaning after assembly in the equipment. The thickness of the lining layer is tested by the national standard high-voltage spark test to ensure its safety and durability.

PFA滤板/支撑板规格参数 Specification Parameters

公称通径 Size(mm)	外径 Outer diameter D(mm)	厚度 Thickness S(mm)	滤板孔径 Filter plate aperture d(mm)
DN			
1200	1320	36	32
1100	1220	36	32
1000	1100	36	32
900	1000	36	32
800	900	30	24
700	800	30	24
600	700	30	24
500	600	30	24
400	500	30	24

包覆PTFE塔器支撑环

PTFE COATED COLUMN SUPPORT RING

PTFE COATED COLUMN SUPPORT RING

适用于搪玻璃/衬氟塔器内件支撑用途。支撑环接触物料平面均为PTFE材质，通过对聚四氟乙烯板材表面进行奈纳处理工艺并将其加热后通过工装设备使其聚四氟乙烯板材均匀包覆、紧密粘合于钢坯外表面，耐腐蚀性完全由PTFE材质固有特性保证，同时采用足够的钢坯厚度保证其使用的刚度支撑性和使用寿命。产品成型后外表面平整、棱角处圆角过渡，光滑不易粘料，保证了装配于设备后的密封可靠性和易清洁性。衬层厚度通过国家标准高电压电火花试验检测，保证安全性、耐用度。



It is suitable for supporting the internals of glass lined / Teflon lined column. The plane surface of the support ring contacting with the medium is made of PTFE. After its surface is treated with Natrium treatment process and heated, the PTFE plate is evenly coated and tightly bonded to the outer surface of billet through tooling equipment. The corrosion resistance is completely guaranteed by the inherent characteristics of PTFE material. At the same time, sufficient billet thickness is adopted to ensure its stiffness, supportiveness and service life. After the product is formed, its outer surface is flat, the corners are rounded, smooth and not easy to stick, which ensures the sealing reliability and easy cleanling after assembly in the equipment. The thickness of the lining layer is tested by the national standard high voltage spark test to ensure safety and durability.

包覆PTFE塔器支撑环规格参数 Specification Parameters

公称通径 Size(mm)	外径 Outer diameter D(mm)	内径 Inner diameter d(mm)	重量 Weight (~Kg)
DN			
1600	1740	1520	97
1450	1580	1370	84
1400	1530	1320	81
1300	1430	1220	75
1200	1320	1120	66
1100	1220	1020	61
1000	1100	920	49
900	1000	820	44
800	900	740	36
700	800	640	31
600	700	540	27
500	600	460	20
400	500	360	16

氯甲烷专用PFA加料管

PFA FEEDING PIPE FOR CHLOROMETHANE REACTOR

我公司生产的氯甲烷专用加料管，已经申请国家专利。其特点在于衬层采用特殊工艺成型的PFA材料，内管胀接，外管胶接加固定销固定，所有法兰接口均采用整体模压成型。由于是同种衬层PFA材料，所有焊缝的焊接完全融合成一体。避免了焊缝在高温和高气流震动的情况下开裂和产生泄露的危险。该PFA加料管可以在200°C高温长时间运行，具有耐强腐蚀和强渗透的特点。

The special feeding pipe for Chloromethane reactor produced by our company is our patent product. Its characteristic is that the lining layer is made of PFA material formed by a special process, the inner tube by expanded, the outer tube by glued and fixed with a fixed pin, and all flange interfaces are integrally molded. Due to the same lining PFA material, all welding seams are completely integrated into one. The danger of cracking and leakage of the weld under the conditions of high temperature and high air flow vibration is avoided. The PFA feeding tube can be operated at a high temperature of 200 °C for a long time, and has the characteristics of strong corrosion resistance and strong penetration resistance.



PFA LINED BALL VALVE



我公司开发的氟塑料球阀，分为手动型和气动型，衬层采用PFA模压材料。阀体采用二片式结构形式，产品在制造过程中，严格控制模压精度和成型品质，每一道加工工序严格把关，力求把每一件产品做成精品。

The PFA lined ball valve developed by our company includes manual type and pneumatic type. The lining is made of PFA molded material. The valve body adopts a two-piece structure. During the product manufacturing process, the molding accuracy and molding quality are strictly controlled. Each processing procedure is strictly controlled, and strive to make each product into a high-quality product.

球阀的特性 Features of Ball Valve

- 由于PFA衬里经久耐用，PFA球阀几乎可用于所有液体，液体对其无腐蚀作用。

PFA lined ball valve can be used for almost every liquid cause of durable PFA lining, and it has no corrosive action by liquid.

- PFA内衬球阀不会发生化学反应和杂质流出，它是一种半透明和高纯度等级的阀体。

PFA lined ball valve is safe from chemical reactions and effluents of impurities, it is a translucent and high purity grade body.

- PFA内衬球阀比普通塑料阀门具有更优异的耐热性，使用温度范围广。

PFA lined ball valve has exceptional heat resistance than normal plastic valves. It can be used wide service temperature range.

- PFA 内衬球阀比其他阀门更容易打开和关闭，因为它具有不粘特性，可以最大限度地减少摩擦的影响。

PFA lined ball valve is easier to open-close than the other valves, because it has non stick characteristics that prevents minimize the effect of friction.

- PFA内衬球阀由于与管道尺寸相同且保持直线设计，因此具有高流量。

PFA lined ball valve has high flow rate because it is with same size as the pipe and keeps straight design.

PFA阀门的用途、标准、材料特性表 Application, Standard and Materials

阀门的用途 Applications of Valve

- 半导体 / 液晶化学制造
Semiconductor / LCD chemical manufacturing
- 石油化工
Petrochemistry
- 多晶硅 / 硅
Polysilicon / Silicon
- 钢铁制造 / 造纸
Steel manufacturing / Paper manufacturing
- 化工
Chemical industry
- 食品和制药
Food and Pharmaceutical Industry



执行标准 Standard (球阀)

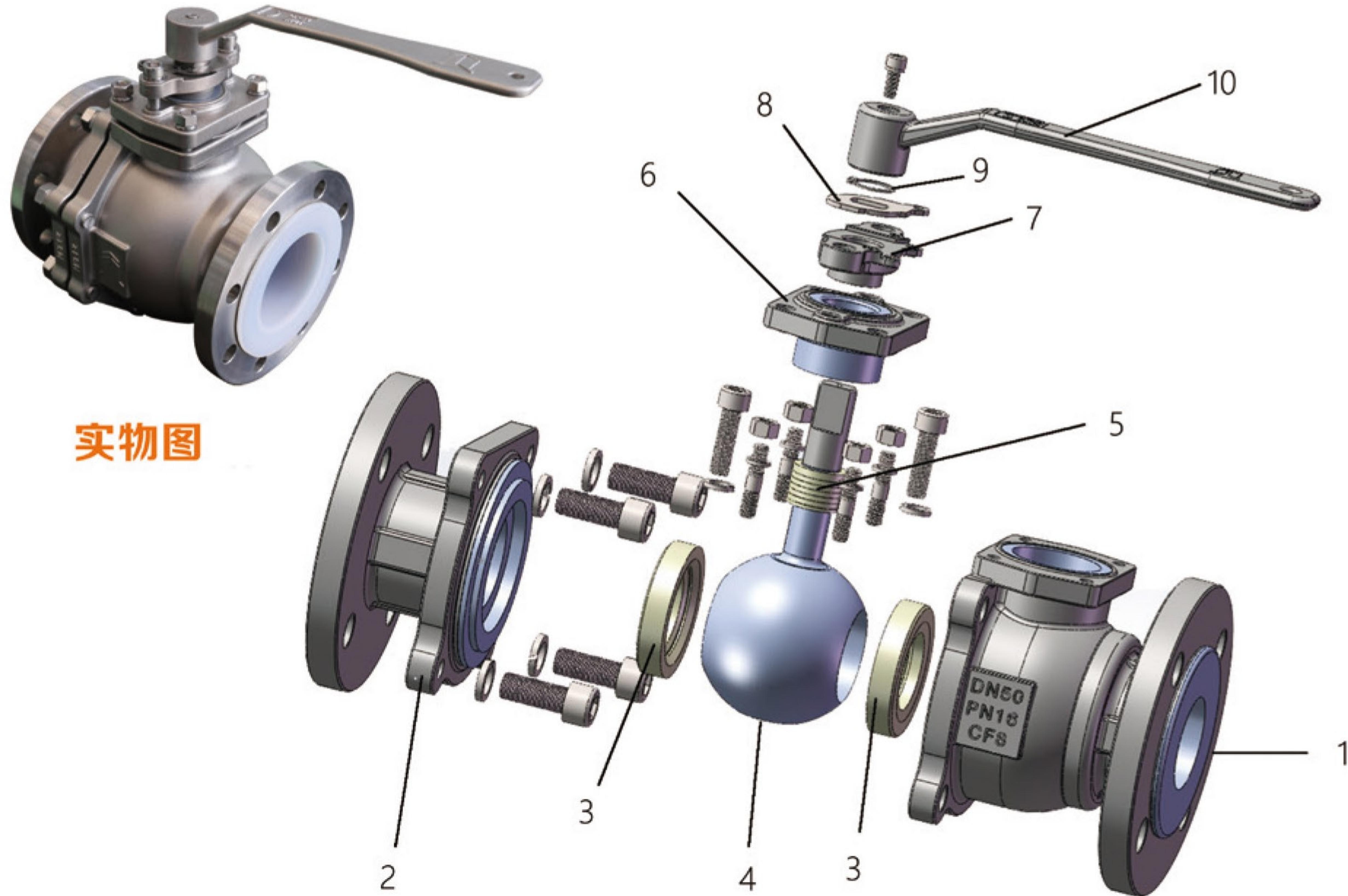
各零部件及材质 Parts and Materials

设计与制造 Design and manufacturing	结构长度 Structure length	序号 No.	零件名称 Name	不锈钢 Stainless Steel
HG/T 3704	GB/T 12221 / HG/T 3704	1	阀体、阀盖 Body、Cover	GB12230 CF8 / ASTMA351 CF8
		2	球 Ball	GB12230 CF8 / ASTMA351 CF8
法兰尺寸 Flange dimension	检验试验 Test	3	阀杆 Stem	GB12230 CF8 / ASTMA351 CF8
		4	衬里层 / 阀座 Lining/Seat	PFA(可溶性聚四氟乙烯)
HG/T 20592 / JIS10K	GB/T 26480, 电火花检测 (Electric spark test)	5	填料 Packing	PTFE(F4) 聚四氟乙烯
		6	填料压盖 Packing gland	GB12230 CF8 / ASTMA351 CF8
标志 Symbol	供货 Supply	7	螺栓 Bolt	0Cr18Ni9 / A193 B8
		8	螺母 Nut	0Cr18Ni9 / A194 8
GB/T 12220	JB/T 7928	9	手柄 Lever	GB12230 CF8 / ASTMA351 CF8

球阀衬里材料特性表 Lining Material Properties Table

项目 ITEM		检验方法 Test Method ASME	单位 Unit	PFA	PTFE	FEP
物理性能 Physical Performance	比重 Specific Gravity	D792	g/cm ³	2.12~2.17	2.13~2.20	2.15~2.17
	熔点 Melting Point	-	°C	310	327	260
机械性能 Mechanical Performance	抗张强度 Tensile Strength	D638	MPa	25~35	20~35	20~30
	拉伸伸长率 Tensile Elongation Percentage	D638	%	300~350	200~400	250~300
	抗压强度 Compression Strength	D695	MPa	15~20	10~15	14~19
	硬度 Hardness	D2240	-	60~64	54~58	55~65
	动摩擦系数 Kinetic Friction Coefficient	0.69MPa, 3m/min		0.2	0.1	0.3
热学性能 Thermal Performance	连续使用的最高温度 Highest Temperature for Continuous Use	-	°C	260	260	200
	热变形温度 Heat Distortion Temperature	D648	°C	47	55	50
	线性膨胀系数 Linear Expansion Coefficient	D696	10 ⁻⁵ °C	12	10	9
电学性能 Electrical Performance	体积电阻率 Volume Resistivity	D257	Ω·cm	>10 ¹⁸	>10 ¹⁸	>10 ¹⁸
	击穿电压 Break Down Voltage	D149	MV/m	20	19	22
	介电常数 Dielectric Constant	D150	-	2.1	2.1	2.1
	电介质损耗角正切 Dielectric Loss Tangent	D150	-	0.0003	0.0002	0.0005

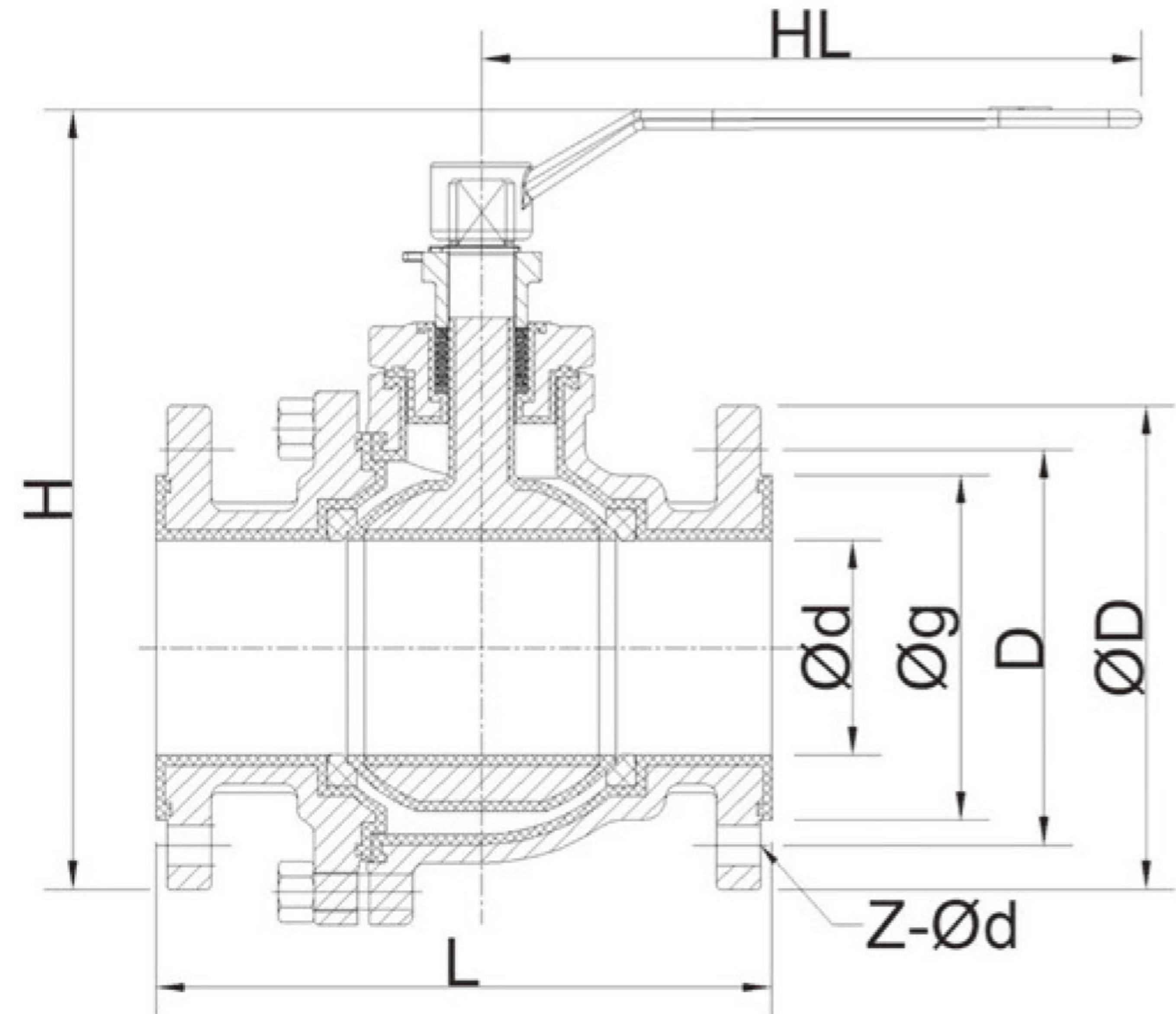
PFA衬里球阀的分解图 Exploded View of PFA Lined Ball Valve



实物分解图 Physical Decomposition

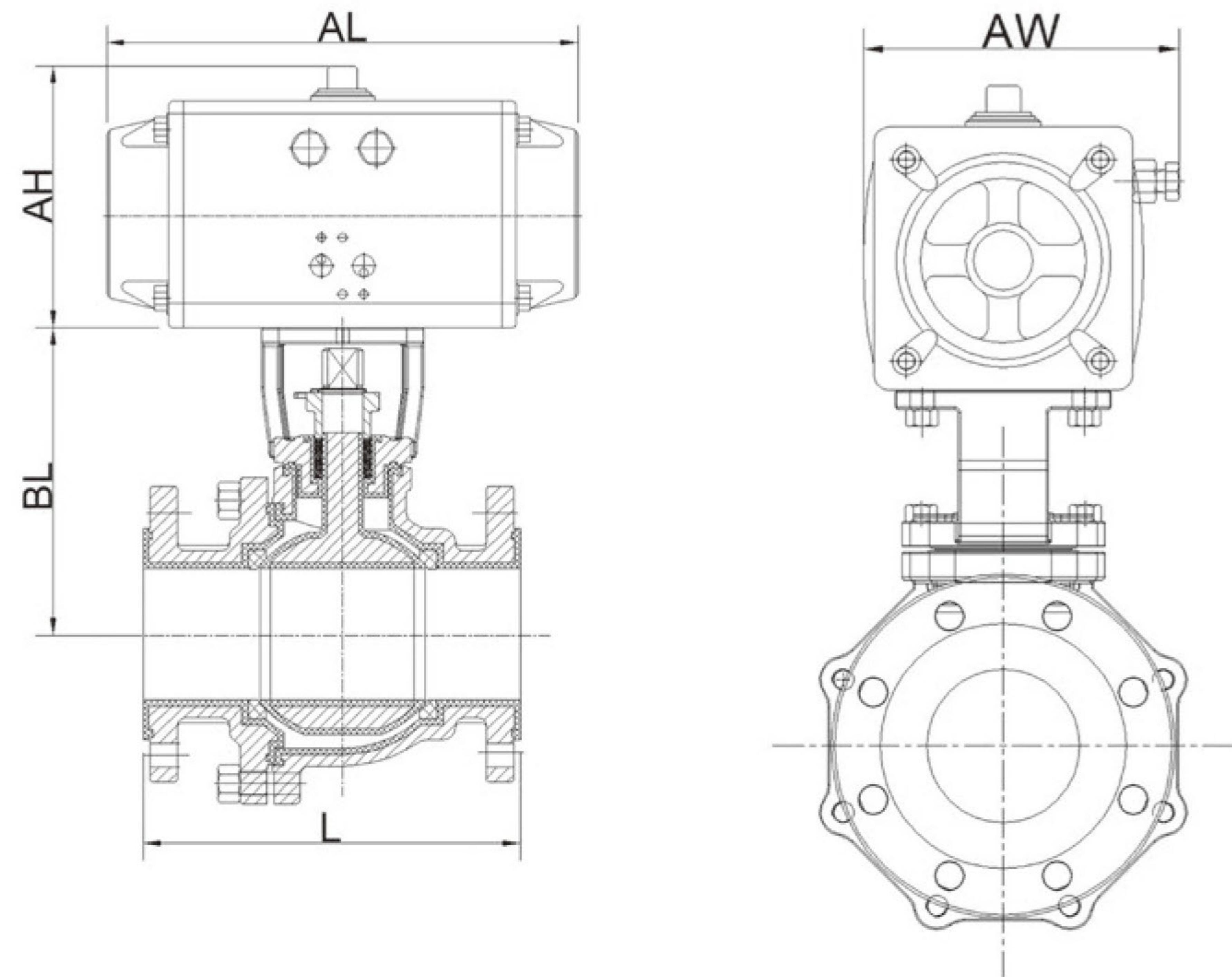
序号 NO.	名称 Name	序号 NO.	名称 Name
1	阀主体 Body	6	填料箱 Packing Box
2	阀副体 Assistant body	7	填料压盖 Packing gland
3	阀座 Seat	8	定位片 Indicator
4	球体 Ball	9	轴用卡环 Snap ring for shaft
5	填料 Packing	10	手柄 Lever

PFA手动阀尺寸规格 PFA Manual Type Ball Valve Dimensions



公称通径 Size(mm)		L (mm)	HL (mm)	Ød (mm)	Øg (mm)		ØD (mm)		D (mm)		Z-Ød		H (mm)	重量 Weight (kg)
DN	JIS 10K				PN1.6 MPa	JIS 10K								
15	15A	140	120	20	45	52	95	95	65	70	4-Ø14	4-Ø15	158.5	3.7
20	20A	140	120	20	55	52	105	100	75	75	4-Ø14	4-Ø15	158.5	3.7
25	25A	150	165	25	65	60	115	125	85	90	4-Ø14	4-Ø19	172.5	4.8
32	32A	165	165	30	78	76	140	135	100	100	4-Ø18	4-Ø19	185.5	6.2
40	40A	180	190	38	86	79	150	140	110	105	4-Ø18	4-Ø19	193.5	7.7
50	50A	200	230	49	101	96	165	155	125	120	4-Ø18	4-Ø19	226	12.7
65	65A	220	260	64	121	112	185	175	145	140	8-Ø18	4-Ø19	257	18.5
80	80A	250	280	78	136	123	200	185	160	150	8-Ø18	8-Ø19	267	22.4
100	100A	280	300	98	156	147	220	210	180	175	8-Ø18	8-Ø19	314.5	35.5
125	125A	320	-	122	186	180	250	250	210	210	8-Ø18	8-Ø23	-	58
150	150A	360	-	146	212	210	285	280	240	240	8-Ø22	8-Ø23	-	88

气动 PFA 球阀 PFA Pneumatic Type Ball Valve Dimensions



ISO 5211	Φd	BRACKET		R(TAP)
		ΦD		
F05	Φ50	Φ6.5	M6	
F07	Φ70	Φ9	M8	
F10	Φ102	Φ11	M10	
F12	Φ125	Φ13.5	M12	
F14	Φ140	Φ18	M16	
F16	Φ165	Φ22	M20	

公称通径 Size(mm)	L(mm)		BL	AL	AH	AW	扭矩 TORQUE	支架 BRACKET
	DN	JIS 10K						
15	15A	140	99	168	107.5	72	12	F05/F07
20	20A	140	99	168	107.5	72	18	F05/F07
25	25A	150	100	184	119.5	81	30	F05/F07
32	32A	165	108	204	128.5	92	40	F05/F07
40	40A	180	114	262	136.5	98	47	F05/F07
50	50A	200	132	268	153	109.5	68	F07/F10
65	65A	220	154	301	175	127.5	83	F07/F10/FF12
80	80A	250	159	301	175	127.5	100	F07/F10/FF12
100	100A	280	184	390	192	137.5	125	F10/F12
125	125A	320	225	450	217	158	150	F10/F12
150	150A	360	261	525	260	189	214	F12/F14/F16

PFA LINED DIAPHRAGM VALVE



淄博太极工业陶瓷有限公司
ZIBO TAIJI INDUSTRIAL ENAMEL CO., LTD.

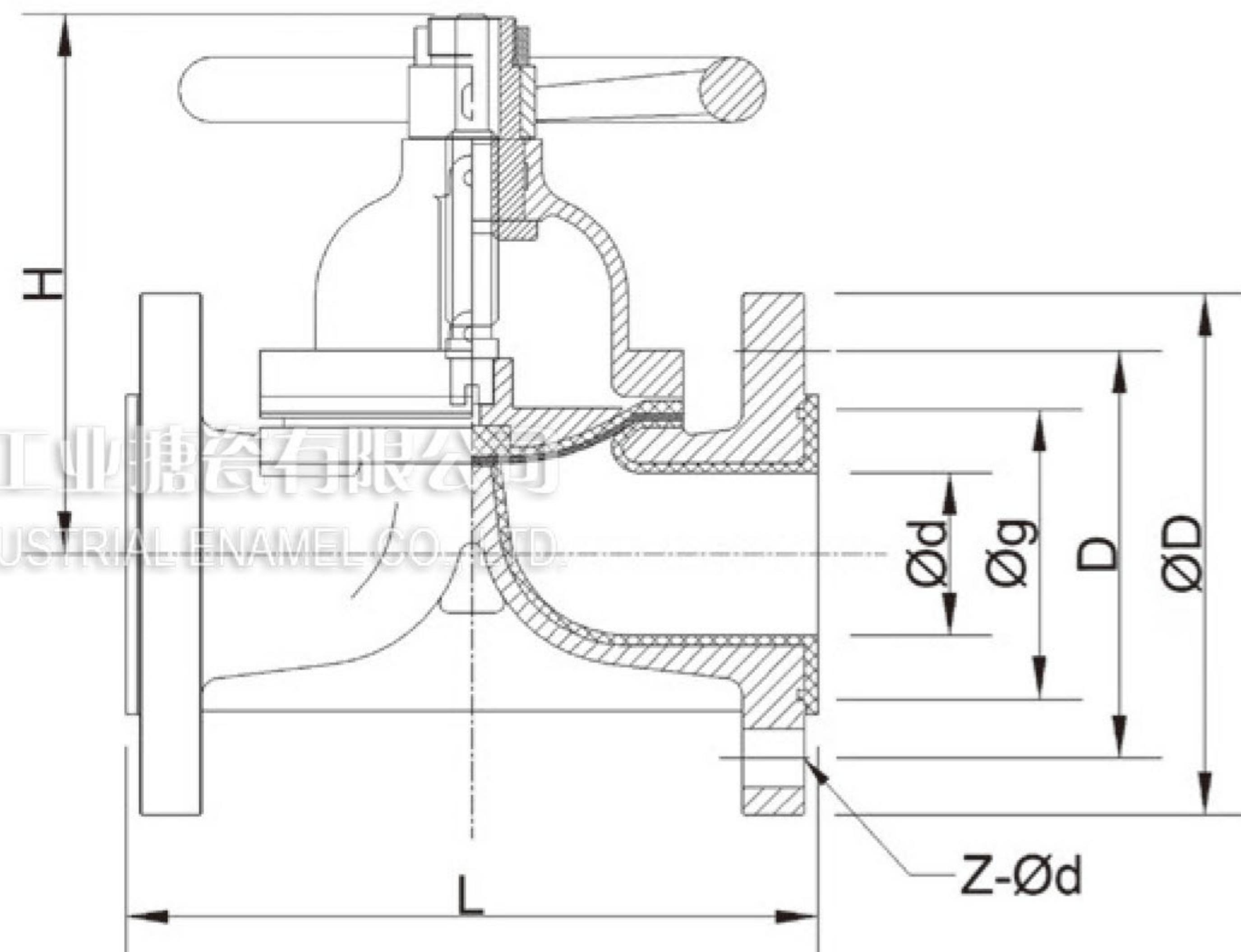
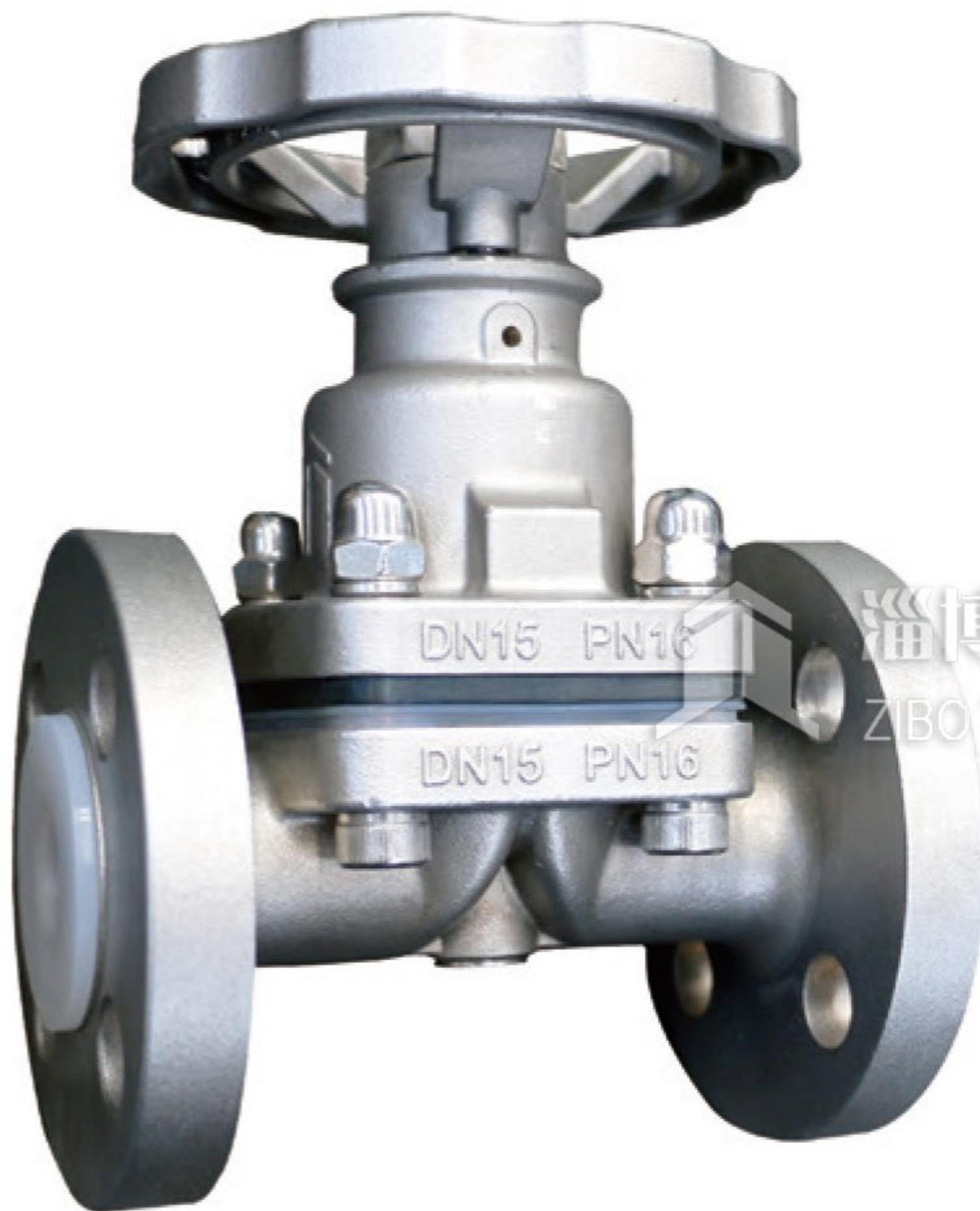
隔膜阀是用隔膜作启闭件封闭流道、截断流体、并将阀体内腔和阀盖内腔隔开的截止阀。结构简单、密封和防腐性能较好，流体阻力小。

Diaphragm valve is a stop valve that uses diaphragm as the opening and closing part to close the flow channel, block the fluid, and separate the inner cavity of valve body and bonnet. The utility model has the advantages of simple structure, good sealing and anti-corrosion performance and small fluid resistance.

隔膜阀的标准、材料 Standard and Materials

设计与制造 Design and manufacturing	结构长度 Structure length	序号 No.	零件名称 Name	不锈钢 Stainless Steel
HG/T 3704	GB/T 12221 / HG/T 3704	1	阀体、阀盖、阀瓣 Body、Cover、Wedge	GB12230 CF8 / ASTMA351 CF8
法兰尺寸 Flange dimension	检验试验 Test	2	阀杆 Valve stem	0Cr18Ni9 / A182 F304
HG/T 20592 / JIS10K	GB/T 13927, 电火花检测 (Electric spark test)	3	衬里层 Lining	PFA(可溶性聚四氟乙烯)
标志 Symbol	供货 Supply	4	隔膜 Diaphragm	PFA / 橡胶
GB/T 12220	JB/T 7928	5	阀杆螺母 Stem nuts	Cu H59
		6	螺栓 Bolts	0Cr18Ni9 / A193 B8
		7	螺母 Nuts	0Cr18Ni9 / A194 8
		8	手轮 Handwheel	GB12230 CF8 / ASTMA351 CF8

PFA隔膜阀尺寸及规格 PFA Diaphragm Valve Dimensions



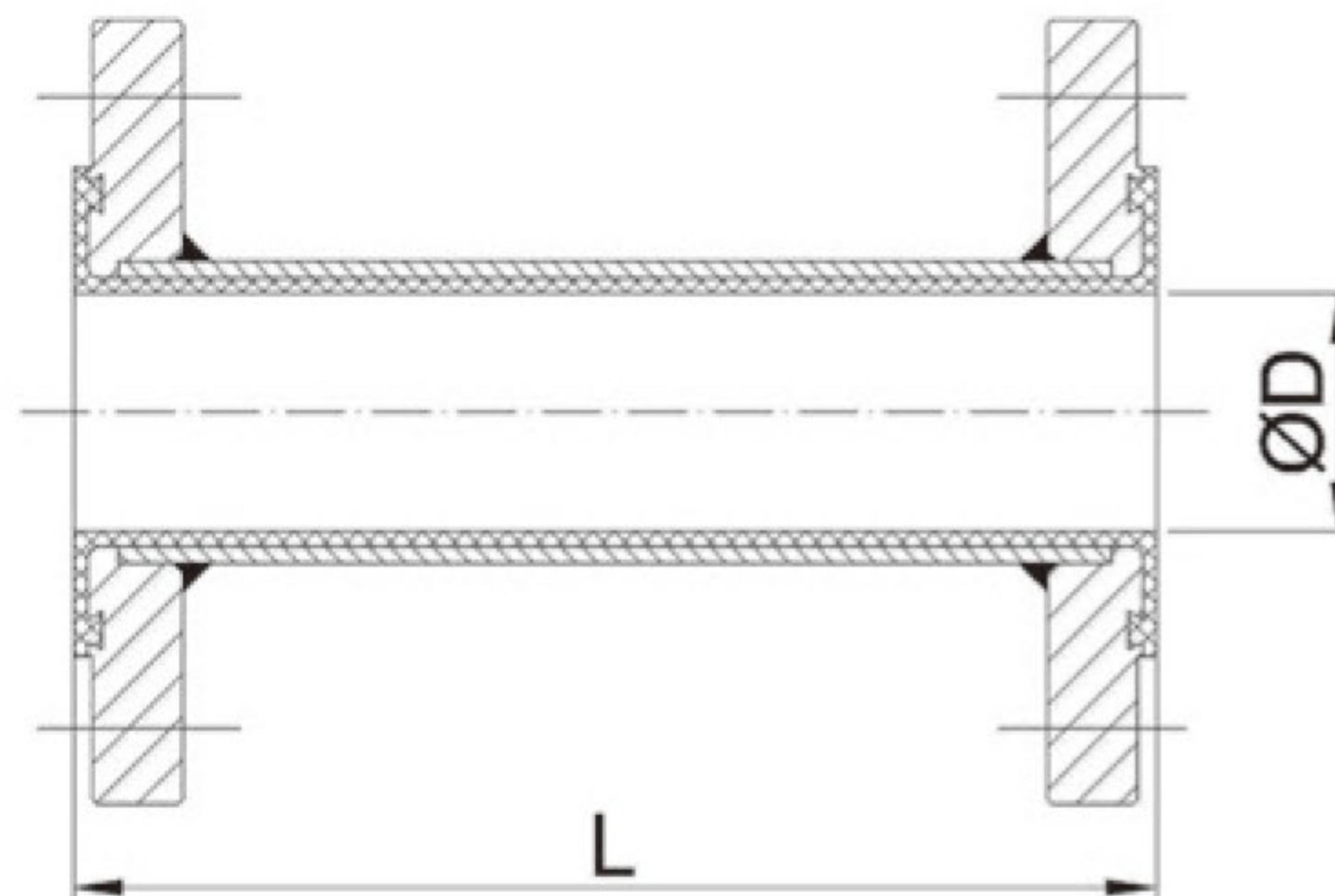
公称通径 Size(mm)		HL(mm)	Φd(mm)	Φg(mm)		ΦD(mm)		D(mm)		Z-Φd		H(mm)	重量 Weight (kg)
DN	JIS 10K			PN1.6 MPa	JIS 10K								
15	15A	125	20	45	52	95	95	65	70	4-Φ14	4-Φ15	154	2.4
20	20A	135	20	55	52	105	100	75	75	4-Φ14	4-Φ15	154	2.5
25	25A	145	25	65	60	115	125	85	90	4-Φ14	4-Φ19	170	3.6
32	32A	160	30	78	76	140	135	100	100	4-Φ18	4-Φ19	185	4.5
40	40A	180	38	86	79	150	140	110	105	4-Φ18	4-Φ19	208	6.2
50	50A	210	49	101	96	165	155	125	120	4-Φ18	4-Φ19	232	8.2
65	65A	250	64	121	112	185	175	145	140	8-Φ18	4-Φ19	258	10.1
80	80A	300	78	136	123	200	185	160	150	8-Φ18	8-Φ19	258	12.7
100	100A	350	98	156	147	220	210	180	175	8-Φ18	8-Φ19	299	15.8

PFA LINED PIPES



本公司的模压PFA管件，采用耐强腐蚀的PFA材料，具有高密度、高强度和衬层厚度均匀等特点。每一个尺寸要求都精确控制，从模具加工精度到成型后的氟塑料加工精度都精益求精。

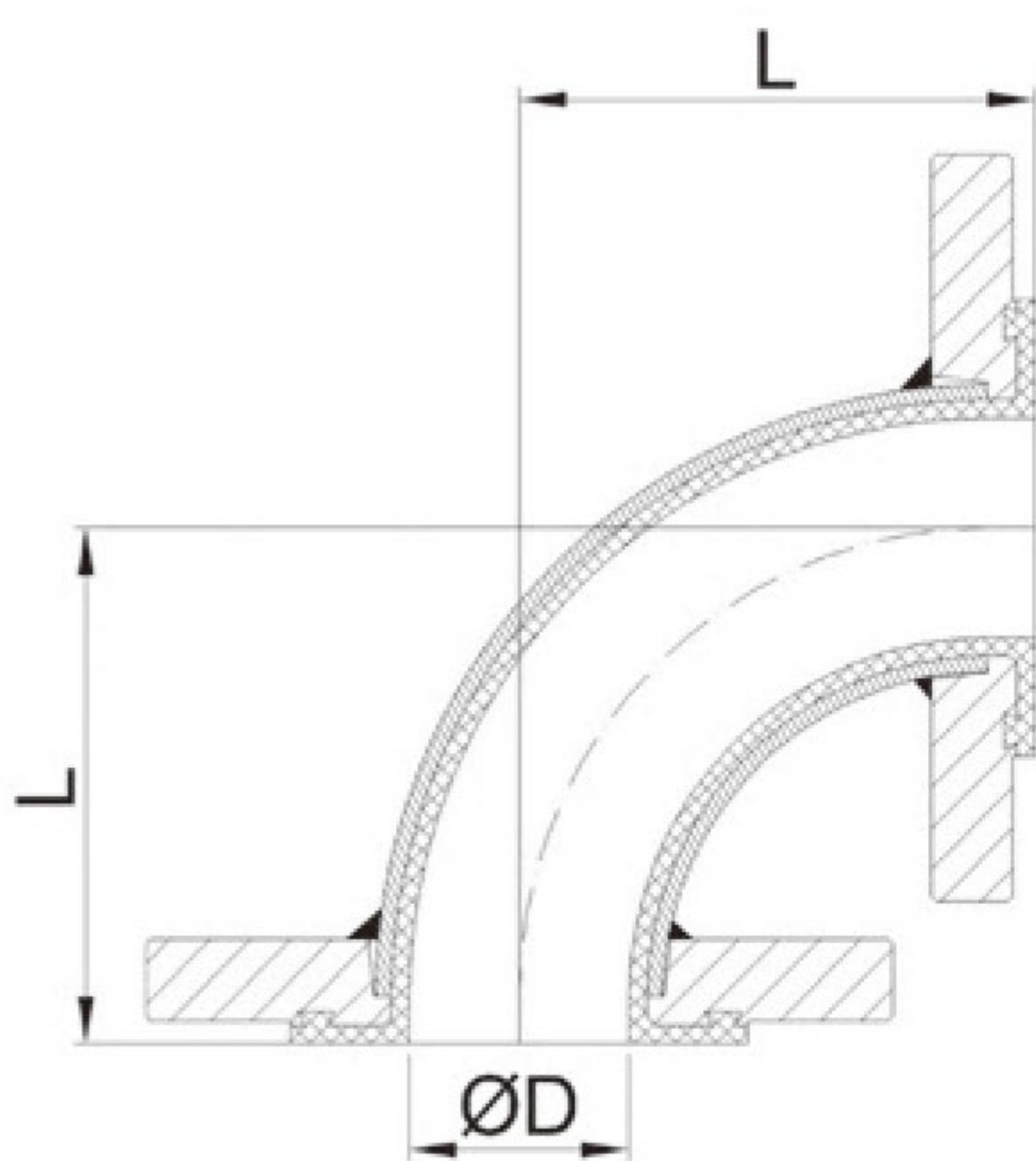
The molded pipe fittings are made of PFA material with strong corrosion resistance, which has the characteristics of high density, high strength and uniform lining thickness. Each dimension is precisely controlled, both in mould and final surface.



衬里直管 Lined Pipes

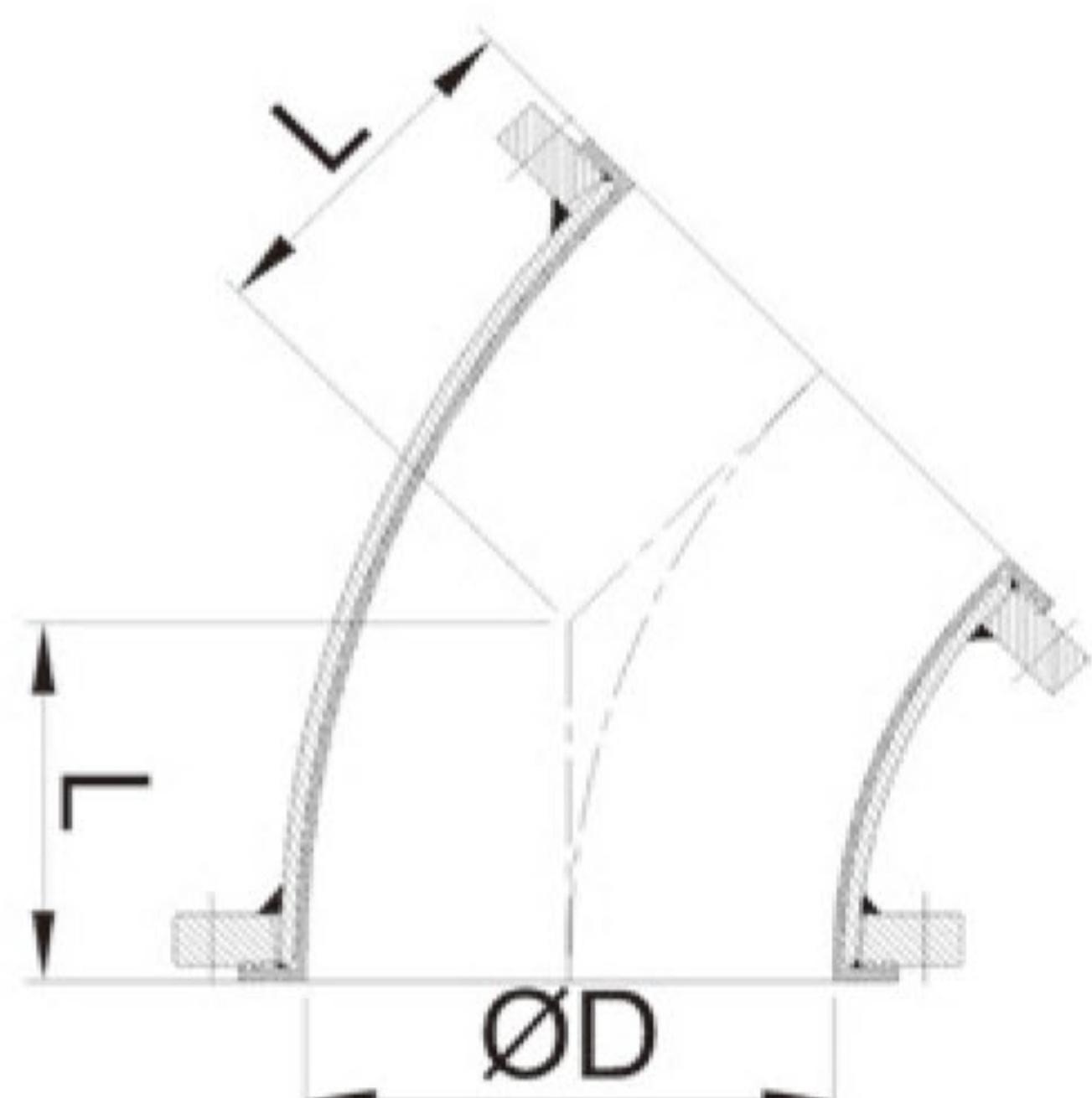
公称通径 Size(mm)		L(mm)	ΦD(mm) PFA	ΦD(mm) PTFE	材料 Material		公差 Tolerance(mm)
DN	JIS 10K				PFA	PTFE	
15	15A	2000	15	15	√	√	±2
20	20A	2000	15	15	√	√	±2
25	25A	2000	20	20	√	√	±2
40	40A	2000	35	35	√	√	±2
50	50A	2000	45	45	√	√	±2
65	65A	2000	59	59	√	√	±2
80	80A	2000	74	74	√	√	±2
100	100A	2000	96	91	√	√	±2
125	125A	1000	119	115	√	√	±3
150	150A	1000	144	137	√	√	±3
200	200A	1000	200	193	√	√	±3
250	250A	1000	250	242	√	√	±3
300	300A	1000	299	290	√	√	±3

模压PFA管件 PFA Lined Pipes



90 ° 弯头

90 ° ELBOW



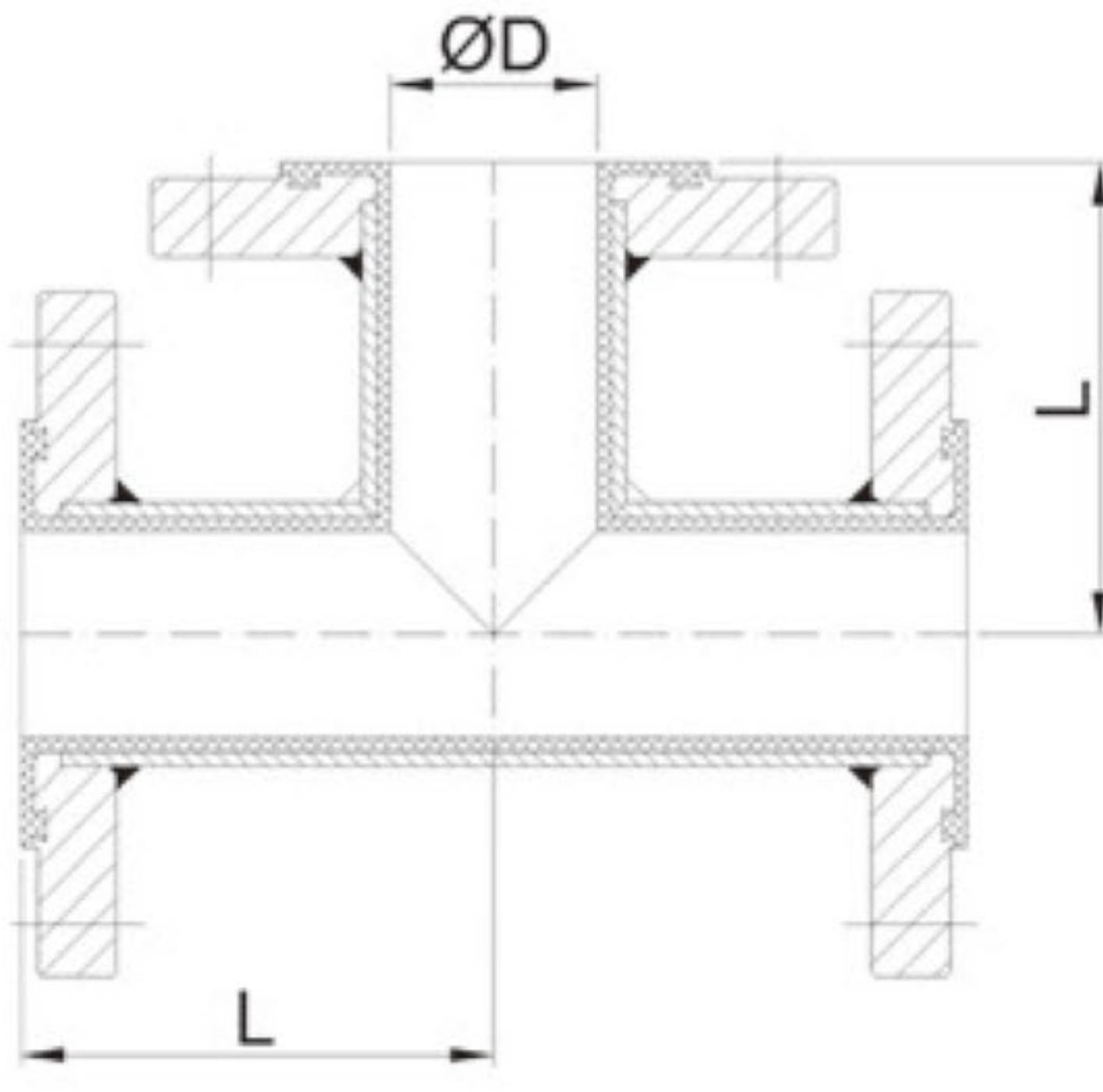
45 ° 弯头

45 ° ELBOW

公称通径 Size(mm)		L(mm)	ΦD(mm)	ΦD(mm)	材料 Material		公差 Tolerance(mm)
DN	JIS 10K		PFA	PTFE	PFA	PTFE	
15	15A	80	15	15	√	√	±1.5
20	20A	80	20	20	√	√	±1.5
25	25A	89	25	25	√	√	±1.5
32	32A	95	32	32	√	√	±1.5
40	40A	102	40	40	√	√	±1.5
50	50A	114	50	50	√	√	±1.5
65	65A	127	60	60	√	√	±2
80	80A	140	72	72	√	√	±2
100	100A	165	91	91	√	√	±2
125	125A	194	114	114	√	√	±2
150	150A	203	140	140	√	√	±2
200	200A	228	194	194	√	√	±2
250	250A	280	245	245	√	√	±2
300	300A	305	296	296	√	√	±3
350	350A	366	340	340	√	√	±3
400	400A	416	390	390	√	√	±3
450	450A	467	435	435	√	√	±3
500	500A	518	485	485	√	√	±3

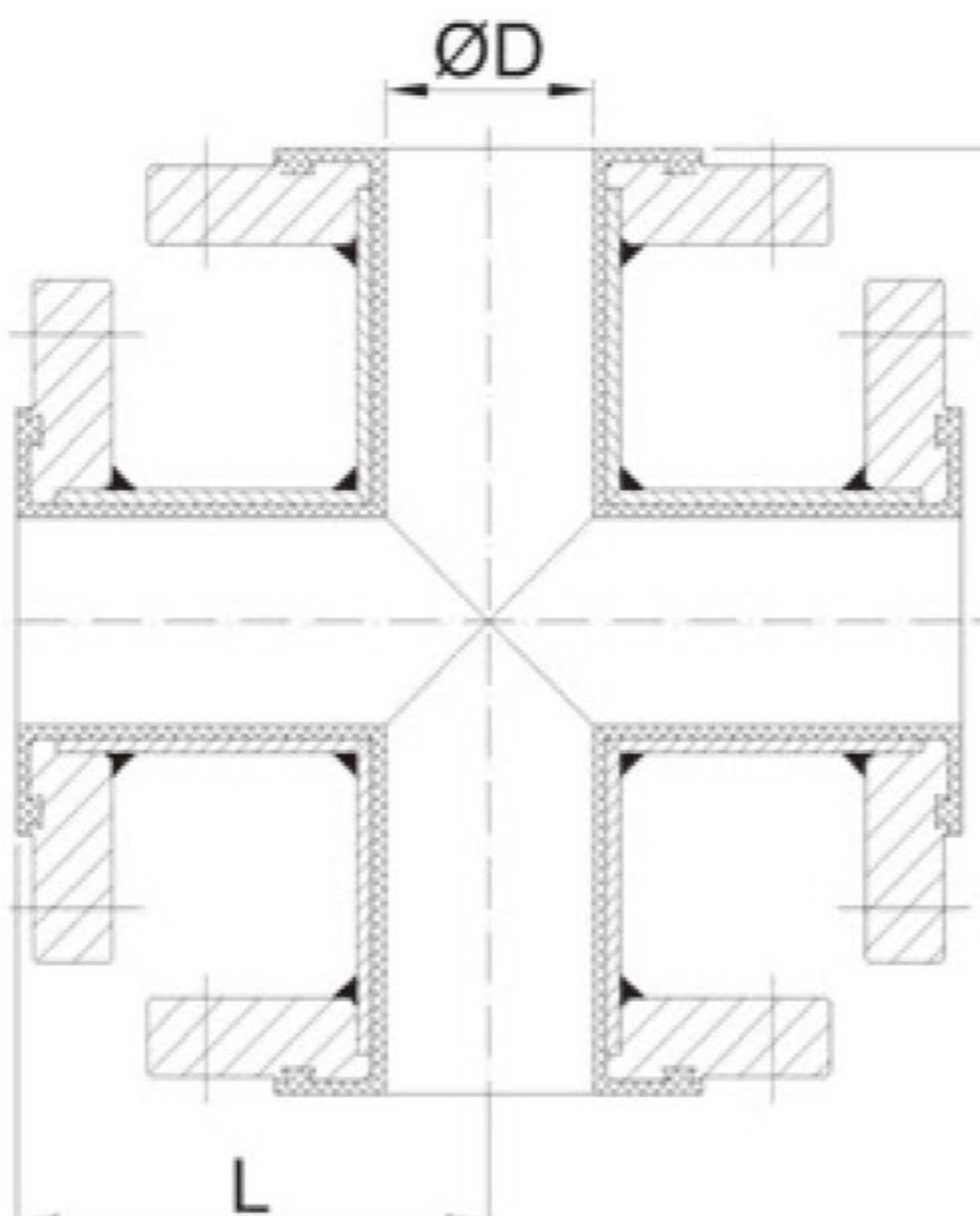
公称通径 Size(mm)		L(mm)	ΦD(mm)	ΦD(mm)	材料 Material		公差 Tolerance(mm)
DN	JIS 10K		PFA	PTFE	PFA	PTFE	
15	15A	45	15	15	√	√	±1.5
20	20A	45	20	20	√	√	±1.5
25	25A	62	25	25	√	√	±1.5
32	32A	65	32	32	√	√	±1.5
40	40A	63	40	40	√	√	±1.5
50	50A	64	50	50	√	√	±1.5
65	65A	76	60	60	√	√	±2
80	80A	85	72	72	√	√	±2
100	100A	102	91	91	√	√	±2
125	125A	114	114	114	√	√	±2
150	150A	127	140	140	√	√	±2
200	200A	158	194	194	√	√	±2
250	250A	165	245	245	√	√	±2
300	300A	198	296	296	√	√	±3
350	350A	230	340	340	√	√	±3
400	400A	264	390	390	√	√	±3
450	450A	295	435	435	√	√	±3
500	500A	328	485	485	√	√	±3

模压PFA管件 PFA Lined Pipes



**等径三通
TEE**

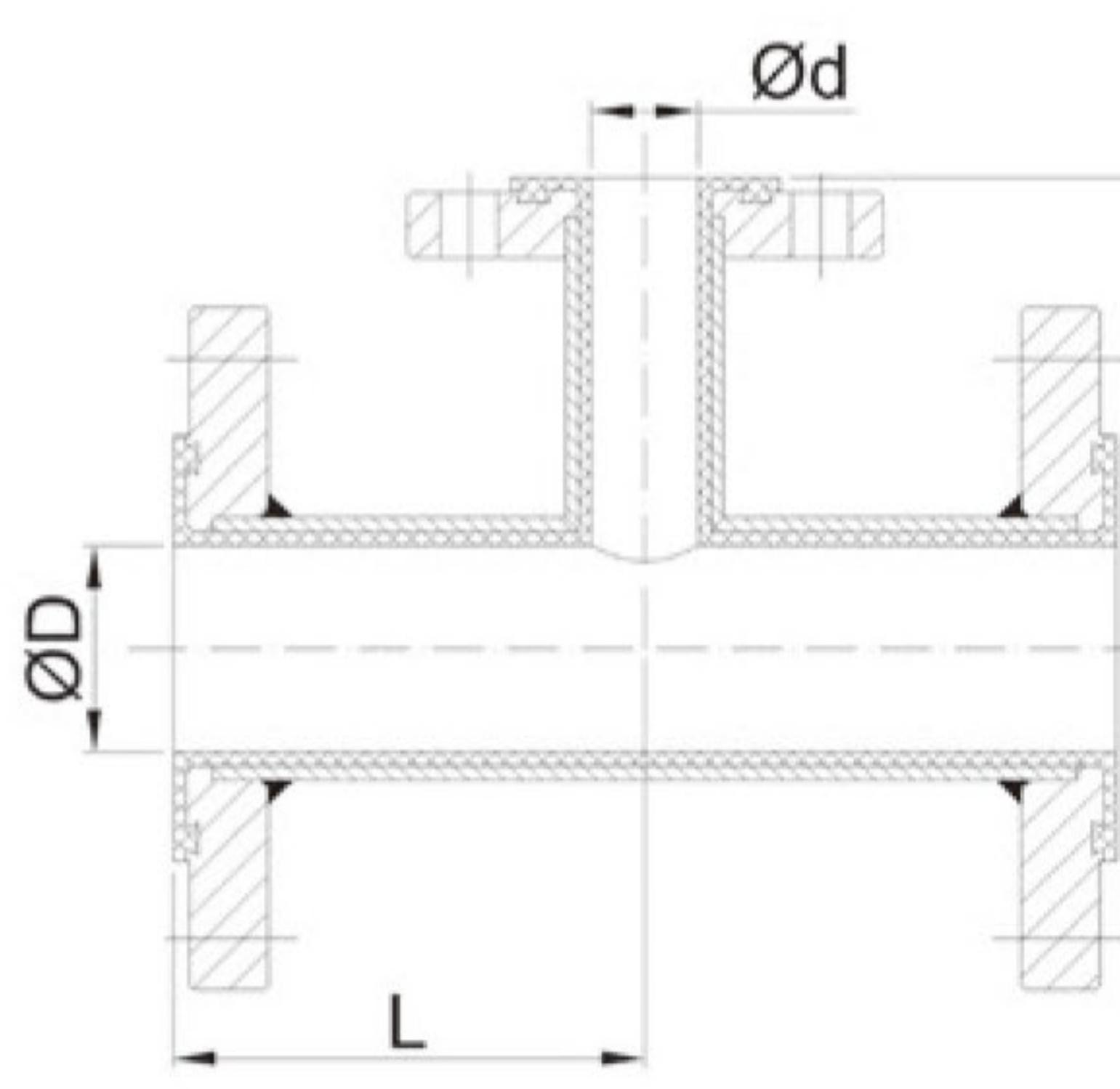
公称通径 Size(mm)		L(mm)	ΦD(mm)	ΦD(mm)	材料 Material		公差 Tolerance(mm)
DN	JIS 10K		PFA	PTFE	PFA	PTFE	
15	15A	80	15	15	✓	✓	±1.5
20	20A	80	20	20	✓	✓	±1.5
25	25A	89	25	25	✓	✓	±1.5
32	32A	95	32	32	✓	✓	±1.5
40	40A	102	40	40	✓	✓	±1.5
50	50A	114	50	50	✓	✓	±1.5
65	65A	127	60	60	✓	✓	±2
80	80A	140	72	72	✓	✓	±2
100	100A	165	91	91	✓	✓	±2
125	125A	194	114	114	✓	✓	±2
150	150A	203	140	140	✓	✓	±2
200	200A	228	194	194	✓	✓	±2
250	250A	280	245	245	✓	✓	±2
300	300A	305	296	296	✓	✓	±3
350	350A	366	340	340	✓	✓	±3
400	400A	416	390	390	✓	✓	±3
450	450A	467	435	435	✓	✓	±3
500	500A	518	485	485	✓	✓	±3



**四通
CROSS**

公称通径 Size(mm)		L(mm)	ΦD(mm)	ΦD(mm)	材料 Material		公差 Tolerance(mm)
DN	JIS 10K		PFA	PTFE	PFA	PTFE	
15	15A	80	15	15	✓	✓	±1.5
20	20A	80	20	20	✓	✓	±1.5
25	25A	89	25	25	✓	✓	±1.5
32	32A	95	32	32	✓	✓	±1.5
40	40A	102	40	40	✓	✓	±1.5
50	50A	114	50	50	✓	✓	±1.5
65	65A	127	60	60	✓	✓	±2
80	80A	140	72	72	✓	✓	±2
100	100A	165	91	91	✓	✓	±2
125	125A	194	114	114	✓	✓	±2
150	150A	203	140	140	✓	✓	±2
200	200A	228	194	194	✓	✓	±2
250	250A	280	245	245	✓	✓	±2
300	300A	305	296	296	✓	✓	±3
350	350A	366	340	340	✓	✓	±3
400	400A	416	390	390	✓	✓	±3
450	450A	467	435	435	✓	✓	±3
500	500A	518	485	485	✓	✓	±3

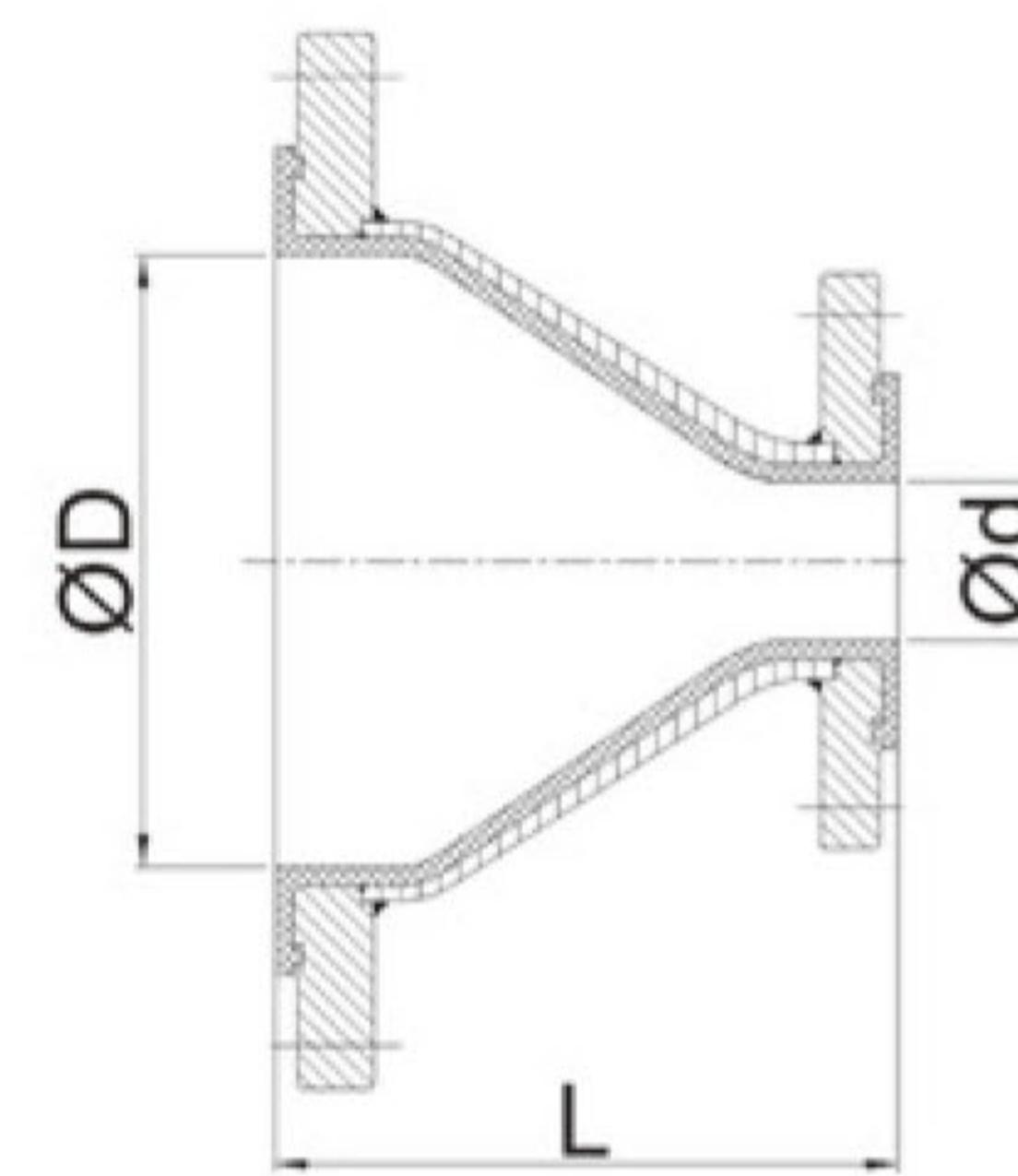
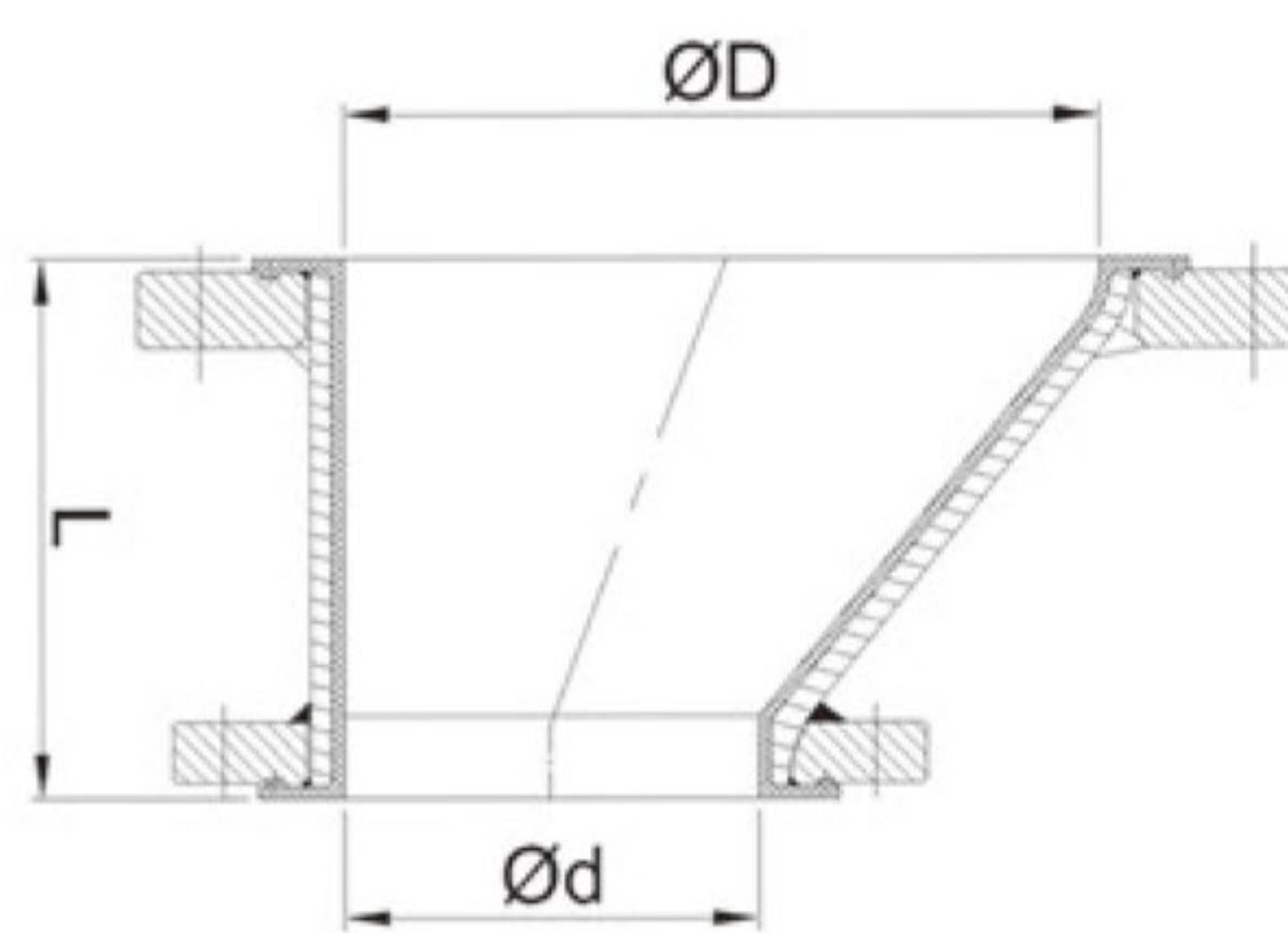
模压PFA管件 PFA Lined Pipes



异径三通
REDUCING TEE

公称通径 Size(mm)		L(mm)	ΦD×Φd(mm)	ΦD×Φd(mm)	材料 Material		公差 Tolerance(mm)
DN	JIS 10K		PFA	PTFE	PFA	PTFE	
25×20	25A×20A	89	25×20	25×20	✓	✓	±1.5
40×20	40A×20A	102	40×20	40×20	✓	✓	±1.5
40×25	40A×25A	102	40×25	40×25	✓	✓	±1.5
50×20	50A×20A	114	50×20	50×20	✓	✓	±1.5
50×25	50A×25A	114	50×25	50×25	✓	✓	±1.5
50×40	50A×40A	114	50×40	50×40	✓	✓	±1.5
65×40	65A×40A	127	60×40	60×40	✓	✓	±2
65×50	65A×50A	127	60×50	60×50	✓	✓	±2
80×40	80A×40A	140	72×40	72×40	✓	✓	±2
80×50	80A×50A	140	72×50	72×50	✓	✓	±2
80×65	80A×65A	140	72×60	72×60	✓	✓	±2
100×40	100A×40A	165	91×40	91×40	✓	✓	±2
100×50	100A×50A	165	91×50	91×50	✓	✓	±2
100×65	100A×65A	165	91×60	91×60	✓	✓	±2
100×80	100A×80A	165	91×72	91×72	✓	✓	±2
125×80	125A×80A	194	114×72	114×72	✓	✓	±2
125×100	125A×100A	194	114×91	114×91	✓	✓	±2
150×80	150A×80A	203	140×72	140×72	✓	✓	±2
150×100	150A×100A	203	140×91	140×91	✓	✓	±2
200×100	200A×100A	228	194×91	194×91	✓	✓	±2
200×150	200A×150A	228	194×140	194×140	✓	✓	±2
250×100	250A×100A	280	245×91	245×91	✓	✓	±2
250×150	250A×150A	280	245×140	245×140	✓	✓	±2
250×200	250A×200A	280	245×194	245×194	✓	✓	±2
300×150	300A×150A	305	296×140	296×140	✓	✓	±3
300×200	300A×200A	305	296×194	296×194	✓	✓	±3
300×250	300A×250A	305	296×245	296×245	✓	✓	±3
350×200	350A×200A	366	340×194	340×194	✓	✓	±3
350×250	350A×250A	366	340×245	340×245	✓	✓	±3
350×300	350A×300A	366	340×296	340×296	✓	✓	±3
400×250	400A×250A	416	390×245	390×245	✓	✓	±3
400×300	400A×300A	416	390×296	390×296	✓	✓	±3
400×350	400A×350A	416	390×340	390×340	✓	✓	±3
450×300	450A×300A	467	435×296	435×296	✓	✓	±3
450×350	450A×350A	467	435×340	435×340	✓	✓	±3
450×400	450A×400A	467	435×390	435×390	✓	✓	±3
500×350	500A×350A	518	485×340	485×340	✓	✓	±3
500×400	500A×400A	518	485×390	485×390	✓	✓	±3
500×450	500A×450A	518	485×435	485×435	✓	✓	±3

模压PFA管件 PFA Lined Pipes

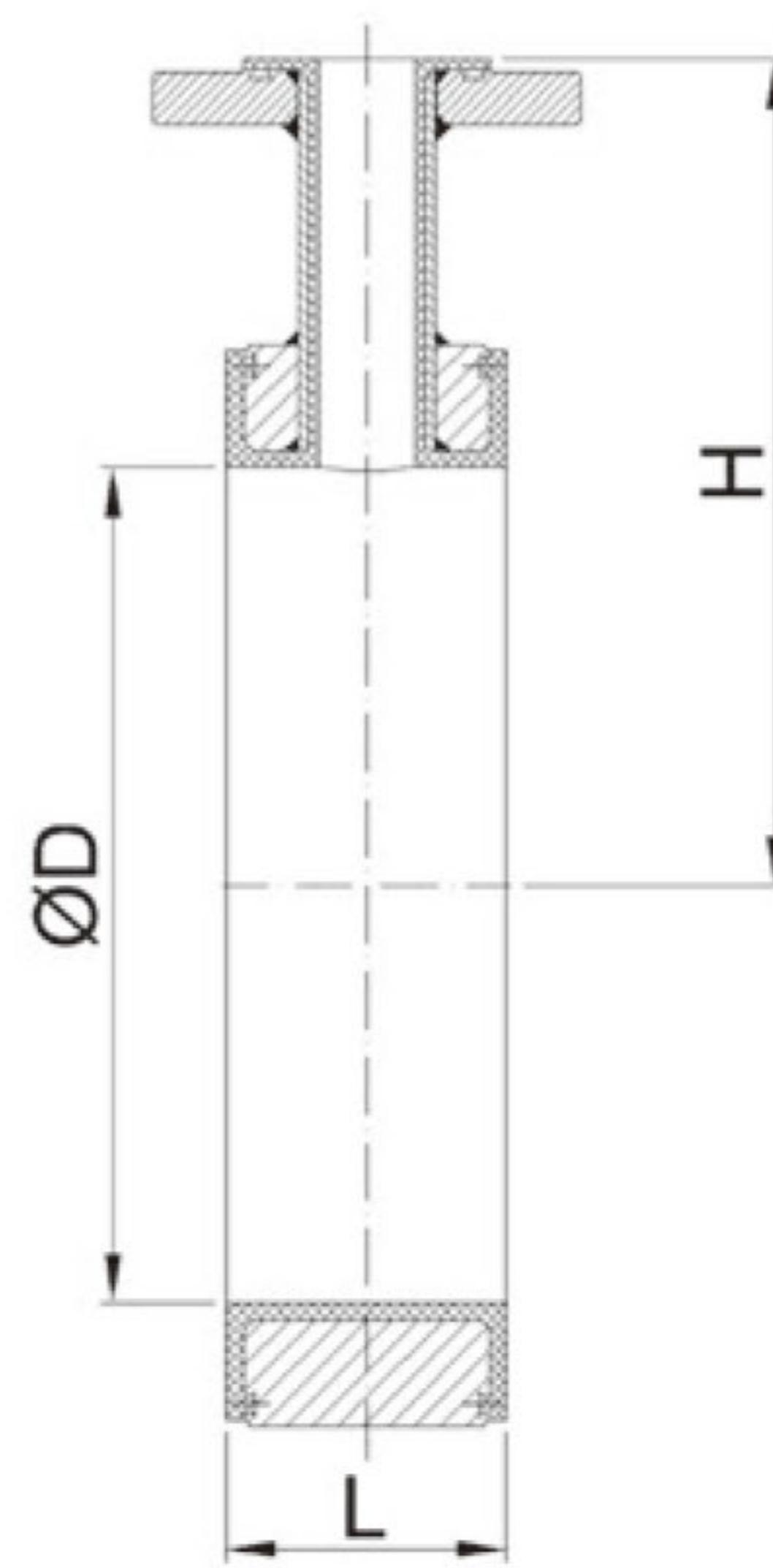


偏心异径管 ECCENTRIC REDUCER

同心异径管 CONCENTRIC REDUCER

公称通径 Size(mm)		L(mm)	ΦD×Φd(mm)	ΦD×Φd(mm)	材料 Material		公差 Tolerance(mm)
DN	JIS 10K		PFA	PTFE	PFA	PTFE	
20×15	20A×15A	100	20×15	20×15	√	√	±1.5
25×15	25A×15A	100	25×15	25×15	√	√	±1.5
25×20	25A×20A	100	25×20	25×20	√	√	±1.5
40×20	40A×20A	100	40×20	40×20	√	√	±1.5
40×25	40A×25A	100	40×25	40×25	√	√	±1.5
50×20	50A×20A	127	50×20	50×20	√	√	±1.5
50×25	50A×25A	127	50×25	50×25	√	√	±1.5
50×40	50A×40A	127	50×40	50×40	√	√	±1.5
65×50	65A×50A	127	60×50	60×50	√	√	±2
80×50	80A×50A	152	72×50	72×50	√	√	±2
100×50	100A×50A	152	91×50	91×50	√	√	±2
100×65	100A×65A	152	91×60	91×60	√	√	±2
100×80	100A×80A	152	91×72	91×72	√	√	±2
125×80	125A×80A	194	114×72	114×72	√	√	±2
125×100	125A×100A	194	114×91	114×91	√	√	±2
150×80	150A×80A	200	140×72	140×72	√	√	±2
150×100	150A×100A	200	140×91	140×91	√	√	±2
200×100	200A×100A	200	194×91	194×91	√	√	±2
200×150	200A×150A	200	194×140	194×140	√	√	±2
250×150	250A×150A	250	245×140	245×140	√	√	±2
250×200	250A×200A	250	245×194	245×194	√	√	±2
300×200	300A×200A	300	296×194	296×194	√	√	±3
300×250	300A×250A	300	296×245	296×245	√	√	±3
350×250	350A×250A	350	340×245	340×245	√	√	±3
350×300	350A×300A	350	340×296	340×296	√	√	±3
400×300	400A×300A	400	390×296	390×296	√	√	±3
400×350	400A×350A	400	390×340	390×340	√	√	±3
450×350	450A×350A	450	435×340	435×340	√	√	±3
450×400	450A×400A	450	435×390	435×390	√	√	±3
500×400	500A×400A	500	485×390	485×390	√	√	±3
500×450	500A×450A	500	485×435	485×435	√	√	±3

模压PFA管件 PFA Lined Pipes



仪表接头
INSTRUMENT
CONNECTOR

公称通径 Size(mm)		L(mm)	H(mm)	ΦD(mm)	ΦD(mm)	材料 Material		公差 Tolerance (mm)
DN	JIS 10K			PFA	PTFE	PFA	PTFE	
40×25	40A×25A	60	102	40	40	✓	✓	±1.5
40×32	40A×32A	60	102	40	40	✓	✓	±1.5
50×25	50A×25A	60	114	50	50	✓	✓	±1.5
50×32	50A×32A	60	114	50	50	✓	✓	±1.5
50×40	50A×40A	75	114	50	50	✓	✓	±1.5
65×25	65A×25A	60	127	60	60	✓	✓	±2
65×32	65A×32A	60	127	60	60	✓	✓	±2
65×40	65A×40A	75	127	60	60	✓	✓	±2
65×50	65A×50A	75	127	60	60	✓	✓	±2
80×25	80A×25A	60	140	72	72	✓	✓	±2
80×32	80A×32A	60	140	72	72	✓	✓	±2
80×40	80A×40A	75	140	72	72	✓	✓	±2
80×50	80A×50A	75	140	72	72	✓	✓	±2
100×25	100A×25A	60	165	91	91	✓	✓	±2
100×32	100A×32A	60	165	91	91	✓	✓	±2
100×40	100A×40A	75	165	91	91	✓	✓	±2
100×50	100A×50A	75	165	91	91	✓	✓	±2
125×25	125A×25A	60	194	114	114	✓	✓	±2
125×32	125A×32A	60	194	114	114	✓	✓	±2
125×40	125A×40A	75	194	114	114	✓	✓	±2
125×50	125A×50A	75	194	114	114	✓	✓	±2
150×25	150A×25A	60	203	140	140	✓	✓	±2
150×32	150A×32A	60	203	140	140	✓	✓	±2
150×40	150A×40A	75	203	140	140	✓	✓	±2
150×50	150A×50A	75	203	140	140	✓	✓	±2
200×25	200A×25A	60	228	194	194	✓	✓	±2
200×32	200A×32A	60	228	194	194	✓	✓	±2
200×40	200A×40A	75	228	194	194	✓	✓	±2
200×50	200A×50A	75	228	194	194	✓	✓	±2
250×25	250A×25A	60	280	119	119	✓	✓	±2
250×32	250A×32A	60	280	245	245	✓	✓	±2
250×40	250A×40A	75	280	245	245	✓	✓	±2
250×50	250A×50A	75	280	245	245	✓	✓	±2
300×25	300A×25A	60	305	296	296	✓	✓	±3
300×32	300A×32A	60	305	296	296	✓	✓	±3
300×40	300A×40A	75	305	296	296	✓	✓	±3
300×50	300A×50A	75	305	296	296	✓	✓	±3
350×25	350A×25A	60	366	340	340	✓	✓	±3
350×32	350A×32A	60	366	340	340	✓	✓	±3
350×40	350A×40A	75	366	340	340	✓	✓	±3
350×50	350A×50A	75	366	340	340	✓	✓	±3
400×25	400A×25A	60	416	390	390	✓	✓	±3
400×32	400A×32A	60	416	390	390	✓	✓	±3
400×40	400A×40A	75	416	390	390	✓	✓	±3
400×50	400A×50A	75	416	390	390	✓	✓	±3
450×25	450A×25A	60	467	435	435	✓	✓	±3
450×32	450A×32A	60	467	435	435	✓	✓	±3
450×40	450A×40A	75	467	435	435	✓	✓	±3
450×50	450A×50A	75	467	435	435	✓	✓	±3
500×25	500A×25A	60	518	485	485	✓	✓	±3
500×32	500A×32A	60	518	485	485	✓	✓	±3
500×40	500A×40A	75	518	485	485	✓	✓	±3
500×50	500A×50A	75	518	485	485	✓	✓	±3

专利证书 Patent Certificate

证书号 第 15858209 号



实用新型专利证书

实用新型名称：一种钢衬四氟管

发明人：傅光胜

专利号：ZL 2021 2 2441937.0

专利申请日：2021 年 10 月 11 日

专利权人：淄博太极工业搪瓷有限公司

地址：256400 山东省淄博市桓台县果里工业园泰山路 100 号

授权公告日：2022 年 02 月 18 日 授权公告号：CN 2158621

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局长
申长雨



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其他事项参见续页

证书号 第 16778070 号



实用新型专利证书

实用新型名称：一种碳化硅换热器

发明人：傅光胜

专利号：ZL 2022 2 0513419.7

专利申请日：2022 年 03 月 10 日

专利权人：淄博太极工业搪瓷有限公司

地址：256400 山东省淄博市桓台县果里工业园泰山路 100 号

授权公告日：2022 年 06 月 21 日 授权公告号：CN 216790963 U

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局长
申长雨



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其他事项参见续页

证书号 第 16762550 号



实用新型专利证书

实用新型名称：一种碳化硅换热器的自适应螺塞及管板密封结构

发明人：傅光胜

专利号：ZL 2022 2 0513431.8

专利申请日：2022 年 03 月 10 日

专利权人：淄博太极工业搪瓷有限公司

地址：256400 山东省淄博市桓台县果里工业园泰山路 100 号

授权公告日：2022 年 06 月 21 日 授权公告号：CN 216790963 U

国家知识产权局依照中华人民共和国专利法经过初步审查，决定授予专利权，颁发实用新型专利证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。专利权期限为十年，自申请日起算。

专利证书载专利权登记时的法律状况、专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。



局长
申长雨



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其他事项参见续页

证书号 第 15858209 号

专利权人应当依照专利法及其实施细则规定缴纳年费。本专利的年费应当在前缴纳。未按照规定缴纳年费的，专利权自应当缴纳年费期满之日起终止。

申请日时本专利记载的申请人、发明人信息如下：
申请人：

淄博太极工业搪瓷有限公司

发明人：
傅光胜

第 2 页 (共 2 页)

证书号 第 16778070 号

专利权人应当依照专利法及其实施细则规定缴纳年费。本专利的年费应当在前缴纳。未按照规定缴纳年费的，专利权自应当缴纳年费期满之日起终止。

申请日时本专利记载的申请人、发明人信息如下：
申请人：

淄博太极工业搪瓷有限公司

发明人：
傅光胜

第 2 页 (共 2 页)

证书号 第 16762550 号

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申请日时本专利记载的申请人、发明人信息如下：
申请人：

淄博太极工业搪瓷有限公司

发明人：
傅光胜

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