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# XRT PRODUCT SOLUTIONS

Professionalism Builds Quality  
Innovation Leads the Future

## XRT INSTRUMENT



# About Us

## ■ Our Company

XRT is a globally recognized china manufacturer of instrumentation, is a professional engaged in all kinds of pressure and temperature instrument design and development, manufacturing and sales in one of the enterprises.

Our reputation is built on high quality products, quick standard lead times, and exceptional customer support. We' re dedicated to providing our customers with complete satisfaction, from the first quote to the design and quality of the instrument they receive.XRT provides both standard and application specific products and is ready and willing to find a solution to all of your temperature and pressure needs.



National Standard Drafting Organization

Qingdao Brand

Top 100 Manufacturing Enterprises in Qingdao

ISO 9001 Certified Enterprise

## ■ Our Team

### Professional Team:

XRT has a team of over 130 employees, including 20 engineers, with more than 80% holding senior professional titles. Our members undergo rigorous training and gain extensive practical experience, ensuring we deliver expert service and support to our clients.

### Innovative Strength:

XRT's team is increasingly made up of young professionals who embrace challenges and drive continuous innovation, bringing fresh ideas and inspiration. Our team has successfully led dozens of projects to industry-leading positions and secured multiple patent certifications.

### Teamwork and Collaboration:

The XRT team excels in unity and collaboration, believing strongly in the power of teamwork. Over the past 8 years, we've built over 400 sales and service networks and successfully delivered more than 100 large-scale projects, ensuring top quality and timeliness.

# XRT INSTRUMENT

## ■ Our Culture



Customer First

XRT consistently focuses on customer needs, striving to meet their expectations and demands. We regularly conduct customer satisfaction surveys, with 90% of clients expressing high satisfaction with our products and services.



Quality First

Quality is the lifeline of XRT. We have established an advanced quality management system, achieving a product qualification rate of over 99.5%.



Integrity in  
Business

Integrity is the cornerstone of XRT. Over the past 8 years, we have maintained a flawless record with no service disputes, earning the trust and respect of our clients.



People First

Employees are the most valuable asset of the company. We place great emphasis on their growth and development, offering extensive training and learning opportunities, and creating a comfortable and safe working environment.



# Our Service

## ■ Our Solutions

### Standard Product Sales:

We provide a wide range of pressure and temperature measurement instruments in various models and specifications, tailored to meet diverse industry needs. Our standard products undergo strict quality control and testing to ensure high performance and accuracy, delivering reliable measurement solutions.

### Customized Service:

We provide tailored product customization to meet unique client needs. Customers can specify materials, measurement ranges, accuracy levels, and more. Our custom production ensures the final product precisely matches their requirements.

### OEM and ODM Services:

As a leading instrument manufacturer, we provide OEM and ODM services. Our robust R&D and production capabilities enable us to offer end-to-end solutions—from design and manufacturing to packaging and branding—customized to client needs. These services help reduce costs, boost market competitiveness, and ensure mutual success.

## ■ Target Clients

### Industrial Enterprises

Industrial Enterprises, including petrochemicals, power and energy, mechanical manufacturing, and food processing sectors, rely heavily on high-precision, stable, and durable instrumentation products. These are essential for continuous operation, safety monitoring, and process control, leading to improved efficiency, reduced failures, and lower maintenance costs.

### Research Institutions

Research Institutions, covering disciplines like physics, chemistry, materials science, and biomedical research, focus on the scientific and educational value of instrumentation products. These products must provide high precision, sensitivity, and stability to support research and teaching, driving the translation and application of scientific discoveries.

### Equipment Suppliers

Equipment Suppliers / System Integrators, serving automation, environmental protection, medical devices, and automotive sectors, prioritize compatibility, integration, and customization in instrumentation products. These products must integrate seamlessly into their systems, fulfilling varied customer demands and boosting overall performance and market competitiveness.

### Distributors / Agents

Distributors / Agents, operating in sectors like industrial automation, environmental monitoring, and medical device sales, prioritize market competitiveness, brand strength, and after-sales support for instrumentation products. These products must have a solid market reputation and fulfill user needs to capture end-customer interest. Full technical support and after-sales services from the manufacturer are essential to ensure smooth sales and customer satisfaction.



## ■ Why Choose Us



Brand Influence

XRT Instruments has built substantial brand influence in industrial automation, leveraging its technical expertise, superior product quality, and outstanding customer service. By focusing on innovation and R&D, the company's products are widely adopted across various industries, earning widespread customer trust and positive market feedback.



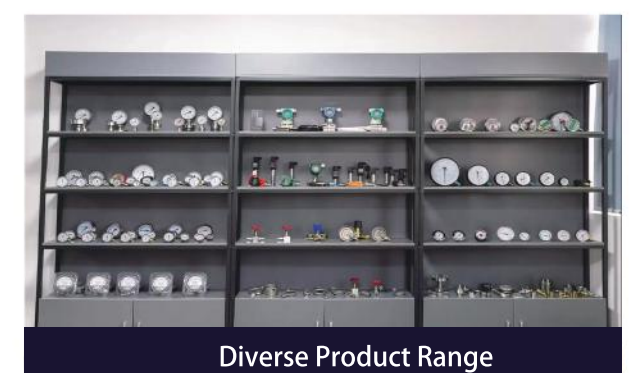
Professional Expertise

XRT's factory features state-of-the-art production equipment and a proficient technical team, guaranteeing all products meet international standards and customer needs. Known for their accuracy and reliability, Xiruite's instruments enjoy a prestigious reputation in the industry, offering effective measurement solutions to various industrial fields.



Comprehensive Certifications

XRT Instruments, renowned for its achievements in industrial automation, has earned multiple industry recognitions and awards. Holding certifications such as ISO quality management, patents, and safety approvals, the company exemplifies excellence in product development, production management, and quality control.



Diverse Product Range

We manufacture pressure gauges, bimetal thermometers, pressure transmitters, Gas regulators, welding cutting torches, RTDs, thermocouples, and related accessories to a variety of process markets worldwide. Xir Instruments supports various customization services to meet specific client needs, ensuring that each product is tailored to the customer's exact requirements.



# Commitment to Partnership

## ■ Superior Quality, Trusted Performance

- All our pressure and temperature instruments are rigorously tested to meet international standards (ISO, KS, etc.).
- Using premium materials and advanced manufacturing, we ensure high precision, durability, and reliable performance.
- Each unit is precisely calibrated for optimal operation in demanding environments.

## ■ Professional Service, Strict Confidentiality

- Service Support: Pre-sales selection advice, real-time order tracking, and post-sales maintenance and technical support.
- Confidentiality Commitment: Strict protection of customer information and business secrets, backed by signed NDAs to ensure data security.
- Customized solutions tailored to special requirements, with end-to-end confidentiality.



Empowering Your Business Success!  
Let's Collaborate for Excellence and Shared Achievements!



## ■ On-Time Delivery, Efficient Logistics

- Guaranteed timely order delivery with flexible logistics solutions.
- Expedited production and shipping services for urgent needs.
- Optimized inventory management to shorten lead times and meet your deadlines.

## ■ Collaborate for a Shared Future

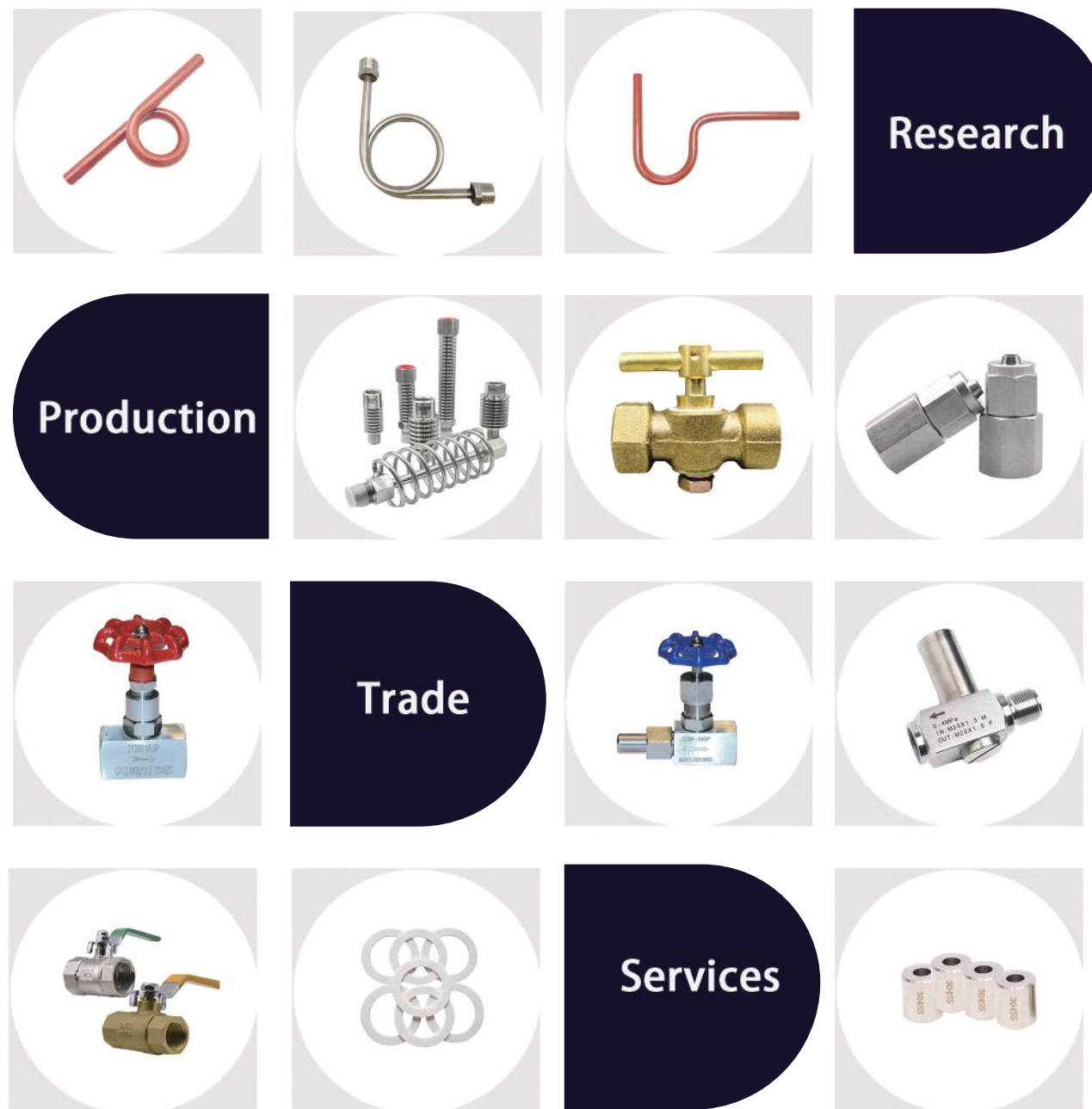
- Customer-centric approach, continuously improving products and services.
- Technical training and industry insights to support your growth.
- Committed to building long-term partnerships and creating greater value together.







# Pressure Gauge Accessories



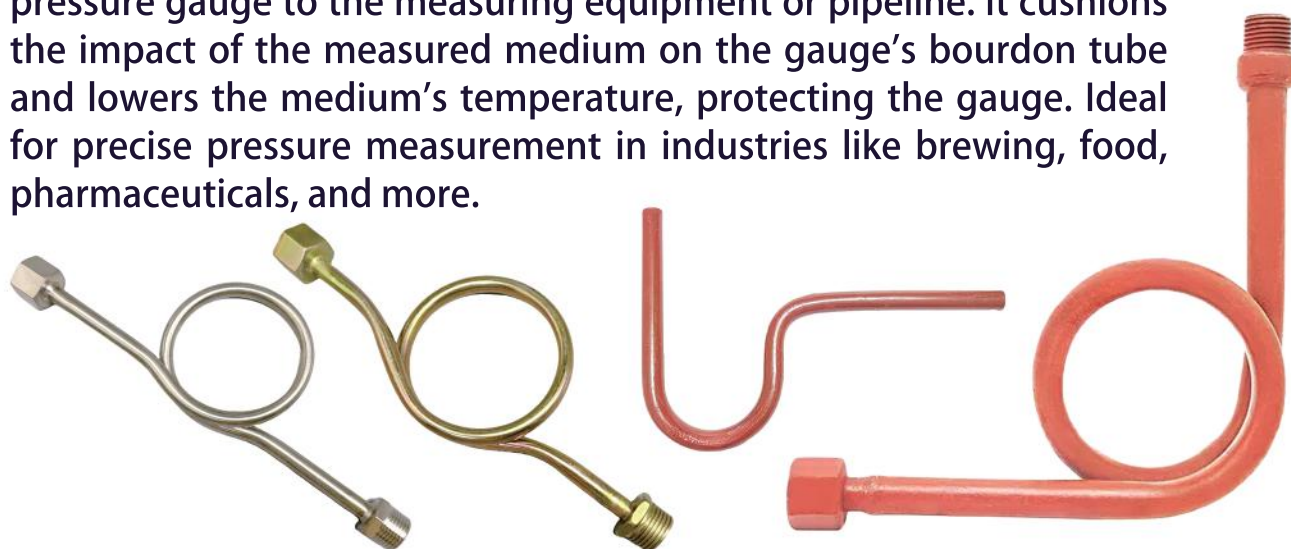
青岛希瑞特自动化设备有限公司  
Qingdao XRT Automation Equipment Co., Ltd.

The product images and information provided in this catalog are for reference only. Please refer to the actual products for accuracy. Our company reserves the final right of interpretation for this catalog and its products.

## High-Pressure Seamless Gauge Syphon

### Product Description

Pressure gauge syphon, or snubber/condensing tube, connects a pressure gauge to the measuring equipment or pipeline. It cushions the impact of the measured medium on the gauge's bourdon tube and lowers the medium's temperature, protecting the gauge. Ideal for precise pressure measurement in industries like brewing, food, pharmaceuticals, and more.



Specifications	Descriptions
Material	Stainless Steel, Steel, Carbon Steel, Alloy Steel
Outer Diameter	6mm, 8mm, 10mm, 12mm, 14mm, 18mm (customizable)
Wall Thickness	1.0mm, 1.5mm, 2.0mm, 2.5mm (adjusted based on pressure rating)
Bend Radius	10mm, 15mm, 20mm
Bend Angle	90° (standard), 45°, 180° (U-bend)
Connection Thread	G1/4, G1/2, NPT 1/4
Operating Temperature	-20°C ~ +300°C (Stainless Steel) -20°C ~ +200°C (Carbon Steel)
Coating	Galvanized (carbon steel anti-rust), Powder Coating (custom colors)
Polishing Grade	Mechanical Polishing (Ra ≤ 0.8 μm), Electrolytic Polishing (for high-purity environments)

## Pressure Gauge Needle Valve

### Product Description

The needle valve for pressure gauges is a precision control device situated between the gauge and the system. It controls media flow, regulates flow rates, and isolates the gauge, featuring a conical needle for precise control and high sealability under pressure. Ideal for high-pressure, corrosive, or high-temperature conditions, it is extensively utilized in petroleum, chemical, and pharmaceutical industries for gauge protection, system isolation, and flow regulation, constituting a vital element in pressure measurement systems.



Specifications	Descriptions
Body Material	SUS 304
Stem Material	SUS 304
Nominal Diameter	DN6, DN8, DN10, DN15, DN20
Connection Thread	G1/4, G1/2, NPT 1/4
Maximum Working Pressure	915 PSI, 64 Bar
Max Working Temperature	250°C
Leakage Class	Class IV (GB/T 12224 Standard) Class VI (API 598 Standard, for harsh conditions)
Sealing Test	100% Leak Test, Hydrostatic Test (1.5 × Working Pressure, 5-minute hold)
Flow Coefficient (Cv)	0.01 ~ 0.5 (determined by valve size and opening)

## 3 Valve Manifold for Differential Pressure Transmitter

### Product Description

A Three-Valve Manifold is a critical component in industrial process control, primarily used to connect differential pressure transmitters, pressure gauges, or other measuring instruments. It enables safe startup and shutdown, calibration, and maintenance functions. Its core role is to control the flow and balance of media from high and low-pressure sides through a combination of valves, preventing damage to instruments due to excessive pressure differences.



## Brass Pressure Gauge 3-Way Stopcock

### Product Description

The Pressure Gauge Three-Way Stopcock is a precision valve designed for controlling fluid direction and flow rate, especially suited for accurate pressure measurement and monitoring. It enables fluid diversion, convergence, or shut-off via a rotating handle. Compact and reliably sealed, it ensures stable operation in confined spaces.



Specifications	Descriptions
Body Material	304, 316, 316L, HC-276, Monel
Maximum Pressure	304: 6000PSI (413.68BAR), 316/316L: 6000PSI (413.68BAR), HC-276: 6000PSI (413.68BAR), Monel: 5000PSI (344.7BAR)
Operating Temperature	PTFE Seal: -38° C to 180° C, Graphite Seal: -24° C to 480° C
Sealing Material	PTFE (Polytetrafluoroethylene), Graphite
Inlet/Outlet/Test/Vent	NPT1/4-NPT1/2, Flange, Optional
Mounting Style	Remote mounting, Direct mounting
Number of Valves / Layout	2-way, 3-way, 5-way

Specifications	Descriptions
Nominal Diameter	DN15, DN20, DN25, DN32, DN40
Working Pressure Range	0~6.4 MPa
Operating Temperature Range	-20°C~+232°C
Body Material	Brass, Stainless Steel (optional)
Sealing Material	PTFE (Polytetrafluoroethylene)
Connection Type	1/2" x 1/2", 1/2" x M20x1.5 (depending on model)
Operation Type	Manual rotary stopcock



## Ball Valve with Level Handle

### Product Description

A lever-handle ball valve is a common device for controlling fluid flow in pipelines. It operates by rotating a bore inside the ball to open or close the flow. Compared to traditional valves, it offers quick operation, excellent sealing, and simple structure. The lever handle design intuitively indicates the valve's status: parallel to the pipe means fully open, perpendicular means fully closed, ensuring ease of use.



## Pressure Gauge Overpressure Saver

### Product Description

A Pressure Gauge Overpressure Saver is a safety device designed to protect precision pressure measurement equipment from damage caused by excessive pressure. It automatically activates when pressure exceeds preset limits, preventing gauge damage in applications like industrial process control and fluid transmission systems. This ensures the connected pressure gauge remains safe and functional.



Specifications	Descriptions
Material	Stainless Steel, Brass(Optional)
Handle Type	Lever Handle 3/8"-4", Butterfly Handle 1/2"-1.1/4"
Nominal Diameter	DN10, DN15, DN20, DN25, etc.
Sealing Material	PTFE (Polytetrafluoroethylene), Graphite, etc.
Surface:	Nickel plated, Chrome Plated or Natural Color
Connection	Thread in G, R, RC, RP, NPT, NPSM version; Compression; Soldering

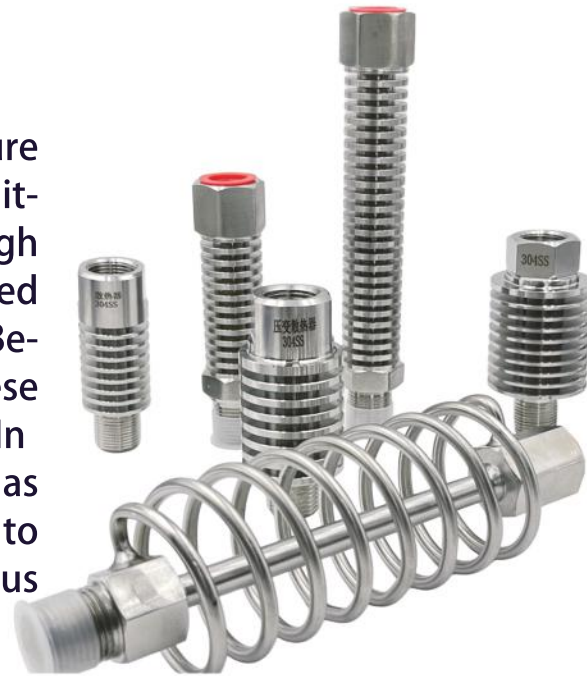
Specifications	Descriptions
Working Pressure	Typically 0-100 MPa, Depending on the Model
Overpressure Protection Threshold	Adjustable, Generally 1.2 to 1.5 Times the Rated Pressure
Material	304, 316, 316L
Connection Type	Threaded connections (e.g., G, R, NPT), flange connections, etc.
Temperature Range	-40° C to +120° C, Depending on Seal Material
Sealing Material	PTFE (Polytetrafluoroethylene), Graphite, etc.



## Pressure Gauge Cooling Tower

### Product Description

Cooling Tower Used Mainly to Protect Pressure Instruments, Gauges, Switches and Transmitters Directly Coming in Contacting with High Temperature Process Fluids or Vaporous Filled in Condensation Fluids. These Are Mounted Between Process and Pressure Instrument. These Are Mounted Between Process and Pressure Instrument. They Reduce Process Pulsation, Act as Heat Dispenser and Generate Cooling Effect to Save Instrument from Working at Dangerous Temperature.



## Socket Weld Full Coupling

### Product Description

A socket weld full coupling securely connects two pipe sections by inserting them into the coupling's socket and welding. Ideal for high-pressure and high-temperature environments in industries like oil, chemical, and power, it ensures reliable connections and excellent sealing, with superior corrosion resistance.



Specifications	
Material	SUS 304, 316L
Operating Temperature	-20° C to +350° C
Maximum Working Pressure	0-60 MPa, depending on the model
Connection Type	Thread: G1/2, M20×1.5; Flange: DN15/DN20
Cooling Efficiency	Up to 90%, depending on operating conditions
Protection Class	IP65

Specifications	Descriptions
Material	SUS 304,316L,Carbon Steel
Size Range	DN15-DN100 (1/2" - 4")
Working Pressure	Up to PN160 (Depends on Material and Size)
Working Temperature	-20° C to +450° C (Depends on Material)
Maximum Working Pressure	Socket Weld Connection
Connection Type	250°C
Surface Treatment	Pickling and passivation, polishing, etc.

## Pressure Gauge Adapter

### Product Description

A pressure gauge adapter is a conversion device used to connect different sizes or types of pipes, fittings, and measuring equipment. It facilitates the installation of pressure gauges in various piping systems or vessels for accurate pressure measurement. This adapter resolves installation challenges caused by mismatched pipe interface sizes or types, ensuring the pressure gauge is securely and correctly installed.



Specifications	Descriptions
Material	SUS 304, 316L
Size Range	DN15-DN100 (1/2" - 4")
Connection Thread	G1/2, M20×1.5, NPT, BSP, etc.
Working Pressure	Up to PN160 (Depends on Material and Size)
Working Temperature	-20° C to +450° C (Depends on Material)
Connection Type	Threaded Connection, Flange Connection
Surface Treatment	Pickling and passivation, polishing, nickel plating, etc.

## PTFE Sealing Washers

### Product Description

A PTFE sealing washer is a high-performance sealing component widely used in various industrial applications to prevent leaks and ensure sealing integrity. PTFE (Polytetrafluoroethylene) is extensively utilized due to its exceptional chemical stability, high-temperature resistance, low friction coefficient, and outstanding corrosion resistance. These properties make PTFE sealing washers ideal for industries such as chemicals, food processing, pharmaceuticals, oil, and gas.



Specifications	Descriptions
Material	Polytetrafluoroethylene
Size Range	Customizable based on customer needs, commonly 5mm to 300mm in diameter
Thickness	Typically 0.5mm to 5mm, customizable as required
Operating Temperature	-200° C to +260° C
Operating Pressure	Up to 20 MPa (depends on Size and Application)
Surface Finish	Smooth Surface
Color	White (pure PTFE)