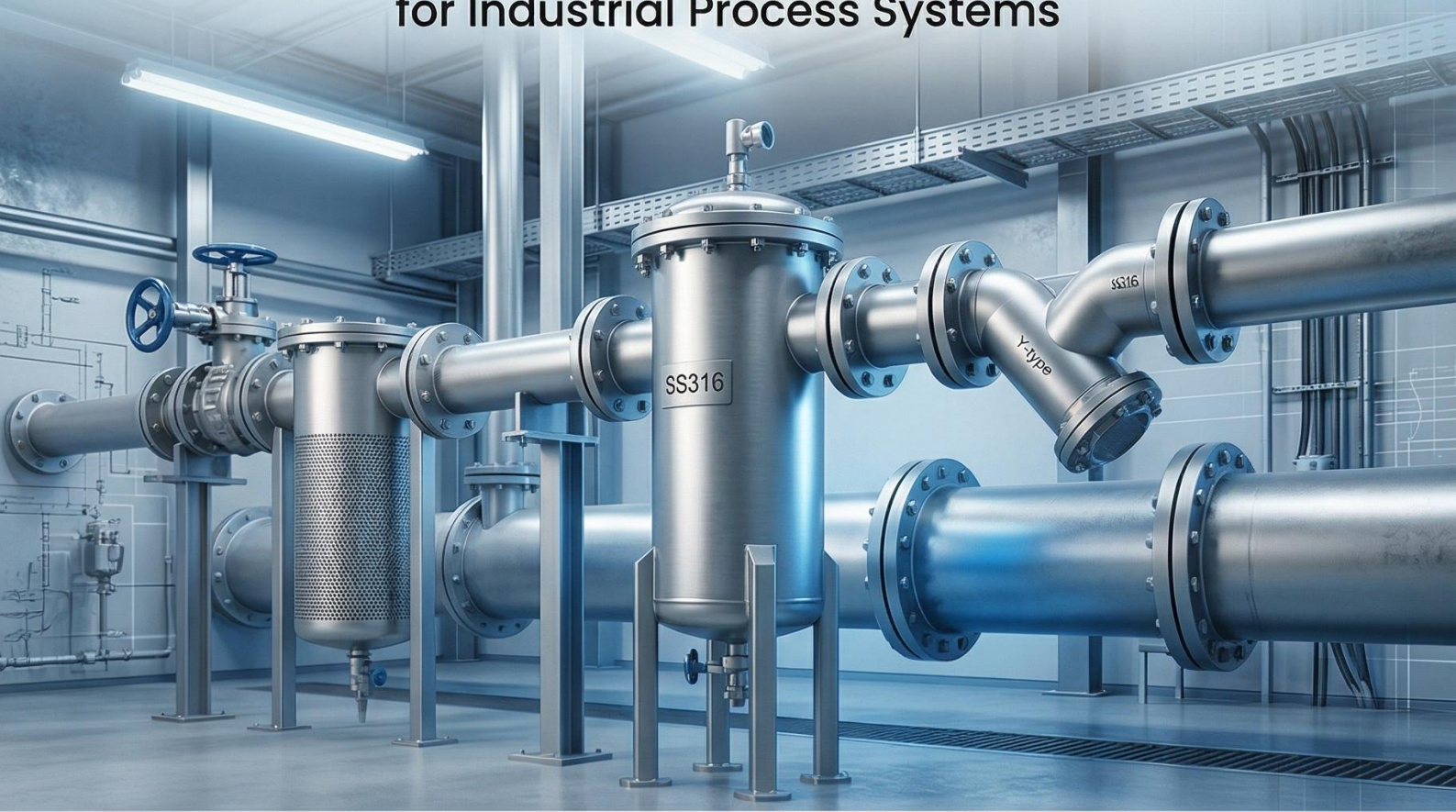
Rain Power
FILTRATION

Scan to Connect on WhatsApp

INDUSTRIAL STRAINER SYSTEMS

Advanced Filtration and Protection Solutions for Industrial Process Systems



- Continuous Filtration Operation
- Equipment Protection Against Debris
- Reduced Manual Intervention
- High Dirt Retention Capacity
- Automation Integrated Systems

Industrial Pipelines | Cooling Water Systems | Chemical Processing Lines | Utility Networks | Pump Protection Systems

Engineered Filtration. Reliable Protection.

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Rain Power

COMPANY OVERVIEW AND ENGINEERING FOUNDATION

ABOUT THE COMPANY

Rain Power Filtration operates as an engineering-driven organization focused on industrial filtration and flow control systems. The company develops solutions that protect process equipment, maintain system efficiency, and ensure stable long-term operation under demanding industrial conditions.

Manufacturing capabilities include fabrication of stainless steel and carbon steel assemblies such as strainers, pipeline modules, and engineered skid systems. Emphasis is placed on material integrity, hydraulic performance, and durability in real-world applications.

Execution capability extends beyond supply, covering engineering design, system integration, and operational support aligned with industrial performance requirements.

VISION

To establish a strong engineering presence by delivering dependable filtration and flow control solutions that consistently meet industrial performance expectations.

MISSION

To engineer systems that enhance operational efficiency and safeguard downstream equipment;

- To apply practical design principles aligned with real site conditions;
- To maintain consistency in manufacturing quality and execution standards;
- To support long-term plant performance through reliable engineering solutions.

CORE VALUES

- Engineering Discipline
- Quality Assurance
- Operational Reliability
- Client-Oriented Approach
- Continuous Technical Improvement



ENGINEERING STRENGTH

- System-oriented design approach focused on performance and durability
- Controlled fabrication processes ensuring dimensional accuracy and structural strength
- Application-based selection methodology for optimal system integration
- Adaptability to varied industrial environments and process conditions
- Commitment to long-term operational stability and reduced maintenance cycles.



Structured Engineering. Consistent Performance.

Rain Power

INDUSTRIAL APPLICATIONS AND SYSTEM INTEGRATION

1. APPLICATION COVERAGE

Water and Utility Systems	Chemical Processing Plants	Pharmaceutical Manufacturing Units	Food and Beverage Industry
Cooling Water Circulation Systems	Power Generation Facilities	Textile and Process Industries	Oil and Gas Utility Systems

2. FUNCTIONAL ROLE OF STRAINERS

Strainers play a critical role in protecting downstream equipment by removing suspended solids, debris, and unwanted particles from process fluids. They are essential for maintaining flow consistency, preventing damage to pumps and valves, and improving overall system reliability. Used as primary or secondary filtration components, strainers ensure uninterrupted operation by minimizing clogging and reducing maintenance frequency in industrial pipelines.

3. SYSTEM INTEGRATION POINTS

Strainers are typically installed at key points within a process system:

- Before pumps to prevent mechanical damage
- Upstream of control valves to avoid blockage
- At heat exchanger inlets to maintain efficiency
- In cooling water circuits to remove debris
- Ahead of dosing and instrumentation lines

Proper placement ensures maximum protection and performance.

4. INDUSTRIAL PROSPECTS

Growing industrial demand for reliable filtration systems is driven by:

- Increasing automation in process industries
- Need for equipment protection and lifecycle extension
- Strict operational reliability requirements
- Reduction in downtime and maintenance costs

Strainers form a critical part of modern industrial infrastructure.



"Positioning Matters. Protection Follows."

Rain Power FILTRATION

SELF-CLEANING STRAINER



Iconic Feature Strip

- Continuous Filtration
- No Shutdown Required
- Automatic Cleaning Cycle
- Stable Pressure Drop
- Low Maintenance

Iconic Working Logic

Flow → Filtration → ΔP → ΔP Rise → Auto Trigger → Cleaning → Discharge → Flow Continues

Technical Snapshot

Type — Automatic Self Cleaning Strainer	
MOC — SS / MS / CI	Filtration — 25 to 1000 micron
Screen — SS316	Pressure — Up to 10 bar
Size — DN50 to DN300	Cleaning — Motorized / DP based

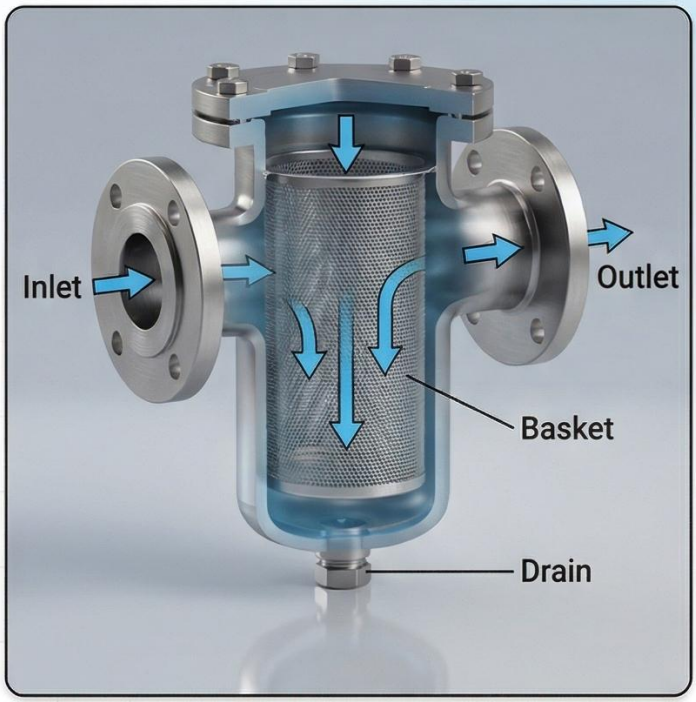
Application Icon Block

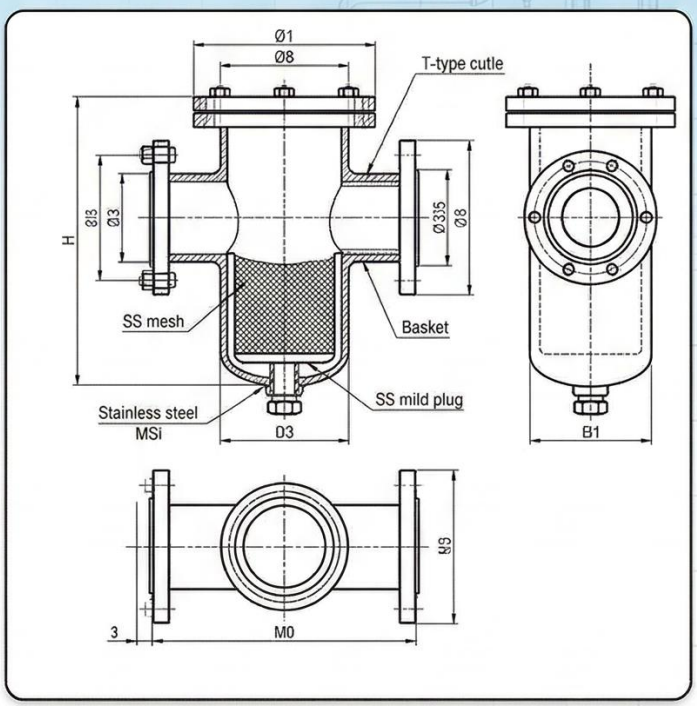
RO Feed · Cooling Water · ETP / STP · Process Lines · Continuous Plants

No Operator. No Shutdown. Only Flow.

Rain Power FILTRATION

SIMPLEX BASKET STRAINER





[≡] **[Type** — Simplex Basket Strainer]

→ **[Flow** — Inside → Basket → Outside]

[Function — Solid particle removal]

[Operation — Manual]

Technical Snapshot

Size	Filtration	Pressure	Temperature	MOC
DN25 to DN300	500 to 3000 micron	PN10 / PN16	Up to 120°C	SS / MS / CI

Working Flow

Flow → → Filtration → → Dirt Capture → → Clean Outlet →

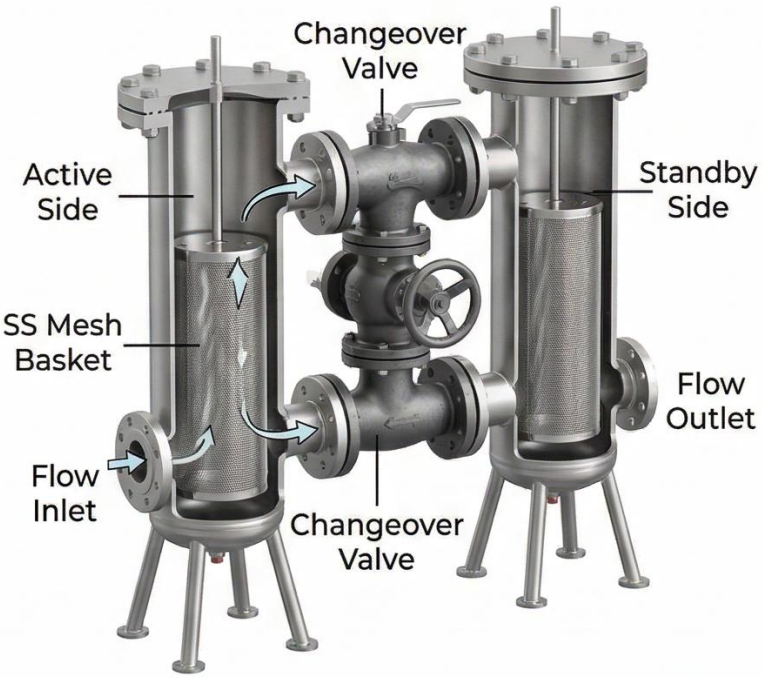
Application Strip

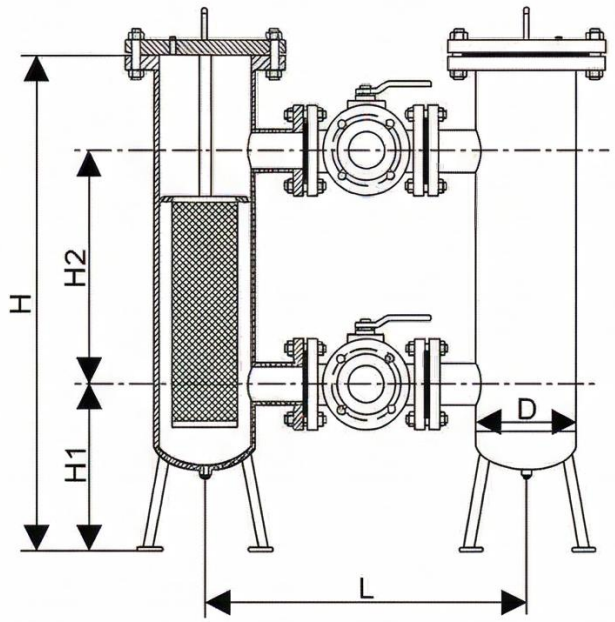
Pump Lines | Cooling Water | Utility Systems | Pre-Filtration

Visual Clarity. Practical Engineering.

Rain Power Filtration

DUPLEX BASKET STRAINER





GA Drawing

Type
Duplex Basket Strainer

Function
Continuous filtration

Operation
Manual changeover

Flow
One line active, one standby

Size	Filtration	Pressure	Temperature	MOC
DN50 to DN600	100 to 3000 micron	PN10 / PN16	Up to 120°C	SS / MS / CI





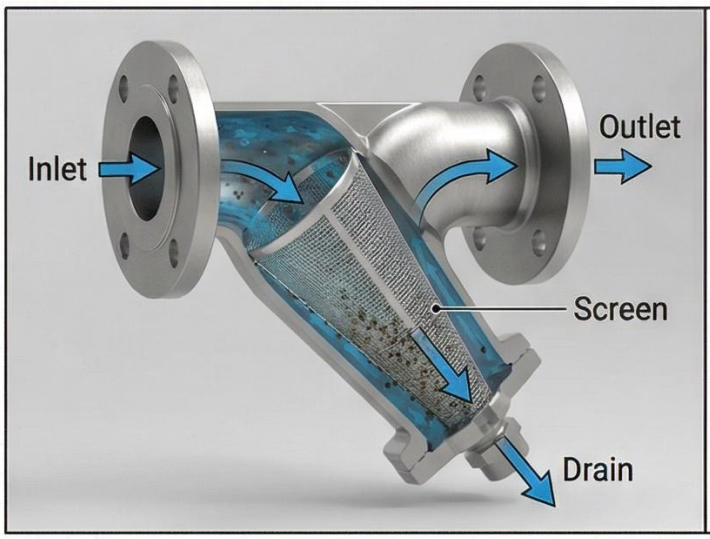
No Shutdown During Cleaning

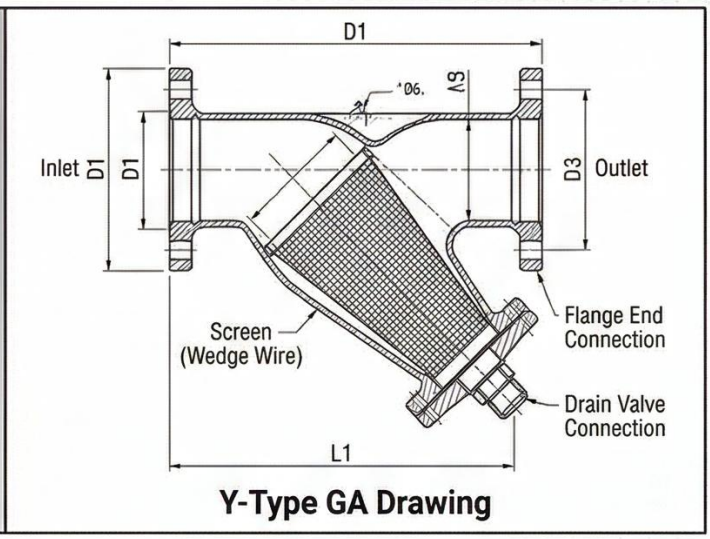
↳ Higher cost and space requirement

Continuous Flow. Zero Downtime.

Rain Power FILTRATION

Y-TYPE STRAINER





Y-Type GA Drawing

→ **Type** — Y-Type Strainer

Function — Inline filtration

→ **Flow** — Straight + angled screen

Operation — Manual cleaning

Technical Snapshot

Size	Filtration	Pressure	Temperature	MOC
DN15 to DN300	100 to 2000 micron	PN10 / PN16	Up to 150°C	SS / MS / CI

Visual Working flow

Flow → Filtration → Particle Retention → Clean Outlet

Application Strip

Steam Lines | Water Lines | Process Piping | Pump Protection

LIMITATION: Low dirt holding capacity

Compact Design. Inline Protection.

Rain Power Filtration

SUPPORT • SERVICE • SOLUTIONS



SPARE PARTS AVAILABILITY

Components:

- SS Basket Elements
- Wedge Wire Screens
- Gaskets (EPDM/PTFE)
- Drain Valves
- Fasteners and Covers

Support:

- Ready stock for standard sizes
- Custom fabrication available

SERVICE SUPPORT

- Installation supervision
- Commissioning support
- Troubleshooting assistance
- Performance optimization
- Annual maintenance support

INSTALLATION SUPPORT

- Guidance for pipeline integration
- Orientation and placement support
- Start-up assistance
- Operational training

CONTACT US

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Engineered Products. Supported for Life.