



**Pesflow**  
ONE STOP INDUSTRIAL VALVE SOLUTIONS

# STRAINERS

PRODUCT CATALOGUE



Manufactured & Marketed by Perfect Engineering Services



## Pesflow Strainers – Precision in Filtration

At Perfect Engineering Services, our commitment to engineering excellence is reflected in Pesflow, a trusted brand for high-quality industrial flow components. Among our flagship offerings, Pesflow strainers stand out for their robust construction, design versatility, and ability to protect critical components in complex process systems.

From startup protection to continuous filtration, Pesflow strainers are manufactured with superior materials and precision craftsmanship—ensuring reliability across applications and industries.

### Strainer Range We Offer:



**Conical  
Strainer**



**Y  
Strainer**



**Basket  
Strainer**



**T  
Strainer**



**Duplex  
Strainer**

### Industries Served:



**Paper  
Industry**



**HVAC &  
Utilities**



**Oil & Gas**



**Water  
Treatment**



**Chemical  
Industries**



**Pharma  
Industries**



**Power  
Plants**

### Salient Features:

- ◆ Pressure Ratings up to 2500 PSI
- ◆ Temperature Range: -29°C to 400°C
- ◆ Material Options: Carbon Steel, Stainless Steel, Monel, Hastelloy & more
- ◆ End Connections: Flanged, Threaded, Welded
- ◆ Standards: ASME, API, DIN



# Y Type Strainer

## Efficient Debris Removal for Critical Piping Systems

Pesflow Y-Type Strainers are ideal for protecting valves, pumps, and meters from solid contaminants in fluid lines. Their compact design allows easy installation, especially in confined spaces.



### Features

- ◆ Inline design ensures low-pressure drop
- ◆ Easy-to-clean removable screens
- ◆ Available with Blowdown Valve for inline maintenance
- ◆ Suitable for horizontal and vertical installation

### Technical Highlights

- ◆ Pressure Classes: 125 to 2500
- ◆ Screen Mesh Options: 20 to 300 mesh
- ◆ Body Materials: Cast Iron, Carbon Steel, Stainless Steel
- ◆ End Connections: Flanged, Threaded, Socket Weld

**Applications:** Steam pipelines, condensate systems, fuel lines, and chemical transfer lines.

# Basket Strainer

## High-Capacity Filtration for Process Reliability

Pesflow Basket Strainers are built for heavy-duty applications where large particle removal is crucial. Their basket-style screen provides a greater dirt-holding area, reducing cleaning frequency.

### Cover Heads for Strainers

Various types of cover removal aids are available, depending on the size and functionality of the strainer. While bolted covers are the standard design, other available options include:

- ▶ Davit Arm Assembly
- ▶ Y-Yoke Hinged Cover
- ▶ Quick-Opening Threaded Cover
- ▶ T-Bolt Hinged Cover
- ▶ Heat Conservation Cover



### Features

- ◆ Minimal pressure loss
- ◆ Quick opening cover options
- ◆ Custom basket depths and perforation sizes
- ◆ Cast and fabricated construction available

### Technical Highlights

- ◆ Pressure Ratings: Up to 100 Bar
- ◆ Temperature Range: Up to 400°C
- ◆ Body Options: Carbon Steel, Stainless Steel, FRP-lined
- ◆ Screen Types: Perforated, Mesh Lined (down to 5 microns)

**Applications:** Power plants, chemical refineries, paper mills, cooling towers.



## T Type Strainer

### Compact Inline Solution with High Dirt Holding Capacity

Pesflow T-Strainers provide versatile and compact filtration for horizontal pipeline installations. Engineered for high-capacity filtration while minimizing pressure drops.



#### Features

- ◆ Compact footprint
- ◆ Heavy-duty screens with perforated or mesh linings
- ◆ Easy access for cleaning
- ◆ Customizable end connections

#### Technical Highlights

- ◆ Pressure Classes: 125 to 2500
- ◆ Materials: Carbon Steel, SS304, SS316, Alloy Steel
- ◆ Screen Options: 20 to 300 mesh
- ◆ End Connections: Flanged, Threaded Butt Weld and Socket Weld

**Applications:** HVAC systems, utility water lines, chemical and petrochemical transfer systems.

## Duplex Strainer

### Uninterrupted Filtration – Zero Downtime Operation

Pesflow Duplex Strainers feature a dual-basket design allowing continuous operation. One basket can be cleaned while the other remains in service.



#### Features

- ◆ Dual-chamber for non-stop operation
- ◆ Quick changeover valves
- ◆ Suitable for high-flow, high-contaminant applications
- ◆ Davit arm and lifting arrangements for large units

#### Technical Highlights

- ◆ Pressure Classes: 150 to 2500
- ◆ Body Materials: Carbon Steel, SS304, SS316, Duplex SS
- ◆ Screen Options: Perforated & Mesh Combination
- ◆ End Connections: Flanged, Threaded, Quick-Open

**Applications:** Water intake systems, chemical plants, lubrication circuits, marine applications.





# Conical Strainer

## Temporary Filtration for Pipeline Commissioning

Pesflow Conical Strainers are used during startup or flushing to prevent system contamination. These temporary strainers are highly effective in removing rust, weld slag, and scale before regular operations begin.

### Features

- ❖ Available in Conical, Basket & Spectacle designs
- ❖ Installed upstream/downstream as required
- ❖ Micron Ratings: Down to 40 microns
- ❖ Optional spool piece for seamless integration

### Technical Highlights

- ❖ Sizes: 20 NB to 1200 NB
- ❖ Flow Configurations: In-to-out or Out-to-in
- ❖ Installation: Horizontal or Vertical
- ❖ Application Type: Temporary but effective startup protection

**Applications:** Commissioning of new pipelines, oil flushing, and water flow trials.

## Quality Assurance – Tested for Reliability

At Pesflow, quality is not just a process — it's a promise. Every strainer we manufacture undergoes a stringent quality assurance program to ensure durability, performance, and compliance with global standards. Our commitment to quality is demonstrated through in-house testing protocols as well as optional third-party inspections upon client request.

### In-House Testing Capabilities

We conduct a range of Non-Destructive Tests (NDT) and Type Tests to ensure every product meets the highest performance and safety standards.

Type Test	Description
Type Test	Verifies the product's design integrity and functional performance.
RT – Radiography Test	Identifies internal weld flaws using radiographic imaging.
UT – Ultrasonic Test	Detects internal material defects using ultrasonic sound waves.
MPT – Magnetic Particle Test	Highlights surface and near-surface discontinuities in ferromagnetic materials.
DPT – Dye Penetrant Test	Exposes surface cracks or porosity using dye inspection methods.

- ❖ All tests are conducted by trained professionals under strict compliance with ASME, API, and DIN standards.



## Third-Party Inspection (TPI) — Verified by Global Experts

To offer complete transparency and added assurance, PESFlow supports Third-Party Inspection (TPI) by leading inspection agencies upon client request. These agencies ensure unbiased quality verification and full compliance with global norms.

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|---|--|-----------------------------------|
| ◆ APAVE TIV India Pvt. Ltd.                         | ◆ International Certification Services Pvt. Ltd. | ◆ SGS India Pvt. Ltd.             |
| ◆ Bureau Veritas India Pvt. Ltd.                    | ◆ Intertek India Pvt. Ltd.                       | ◆ TUV India Pvt. Ltd.             |
| ◆ Certification Engineers International Ltd.        | ◆ IR Class Systems and Solutions Pvt. Ltd.       | ◆ TUV Rheinland (India) Pvt. Ltd. |
| ◆ Edlipse Engineering Global Pvt. Ltd.              | ◆ Meenaar Global Consultants LLP                 | ◆ TUV SUD South Asia Pvt. Ltd.    |
| ◆ Gulf Lloyds Industrial Services (India) Pvt. Ltd. | ◆ RITES Limited                                  | ◆ VCS Quality Services Pvt. Ltd.  |

## Why Choose Pesflow Strainers?

When you're selecting a strainer for your industrial system, you're not just buying a product — you're investing in performance, reliability, and long-term value. Here's why Pesflow Strainers should be your first choice:

### Engineered for Real-World Demands

From Y-Type to Duplex and Conical Strainers, PESFlow offers a complete range of filtration solutions built to withstand tough industrial conditions. Our designs ensure high flow efficiency, minimal pressure drop, and long-term operational stability.

### Tested for Total Reliability

Each unit goes through rigorous in-house quality checks, including Radiography (RT), Ultrasonic (UT), Magnetic Particle (MPT), Dye Penetrant (DPT), and Type Testing — ensuring structural integrity, performance, and safety in every product delivered.

### Third-Party Certified When You Need It

For projects that require independent validation, we support inspection and certification from top global agencies such as TUV, SGS, Bureau Veritas, RITES, and many others — offering you full transparency and trust.

### Tailored to Your Application

Every process is unique — and so is every PESFlow strainer. Choose from a wide range of mesh sizes, pressure ratings, end connections, and materials to get a solution that fits seamlessly into your system and delivers exactly what your operations demand.

**Pesflow Strainers — Built to Perform. Trusted to Protect. Ready for Your Process.**



## Our Clients





**Emerging global brand in industrial valve and steam engineering solutions.**

**Steam Audit | Steam Engineering | Manufacturing & Supply  
Installation & Commissioning | Training & Education | AMC**



## **Address**

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