

Permanent Strainer-Y Type

Product Coding
P410201XXX

Introduction

Y type strainer is a mechanical filtering device used in pipelines to remove solid debris, rust, scale, and other impurities from liquid, gas, or steam systems. It gets its name from its "Y" shape, where the main pipeline forms one leg of the "Y" and the straining element (screen) is installed in the angled branch. This configuration allows the strainer to trap solids while maintaining a compact design and relatively low pressure drop.

Features

- Excellent debris holding capacity
- Suitable for systems with heavy particulate loads
- Versatile orientation (horizontal and vertical installation direction)
- Prevents damage or fouling of pumps, valves, nozzles, and meters

Specifications

- **Main body:** The main housing is made of cast iron, carbon steel, stainless steel, bronze, or alloy steel.
- **Screen element:** A perforated or mesh screen positioned inside the branch of the "Y", which captures debris as the fluid passes through.
- **Blow-off/drain plug:** Located at the bottom of the strainer chamber, allowing for easy cleaning or automatic flushing of collected debris.
- **Cover/cap:** Bolted or threaded cap for removing the screen during maintenance.
- **End connections:** Available in flanged, threaded (NPT/BSP), or welded ends.



Fabricated Type

- Manufactured from pipe
- Flange connection



Forged Type

- Socket weld connection



Cast Type

- Flange connection

Applications

- Steam lines (protection of traps, regulators, and turbines)
- Water and wastewater systems (pump and valve protection)
- Petrochemical and refinery pipelines
- HVAC and chilled water systems
- Gas and air lines
- Power generation (boiler feedwater, condensate lines)
- Pharmaceutical and food process utilities



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