

Permanent Media Systems

T and Y-Type
Simplex
Duplex

2596 Automatic
Temporary
Multi-Basket

MCS-Series
Control Systems
Media



Manual and automatic pipeline strainer family

EATON

Powering Business Worldwide



Eaton's filtration business is a global leader in manufacturing filtration products that include automatic self-cleaning and fabricated pipeline strainers, mechanically cleaned filters and strainers, bag, cartridge and depth sheet filtration systems, hydraulic and lubrication oil filtration and gas/liquid separators for industrial customers worldwide. Eaton has engineering and research and development centers in the USA, Belgium, Germany and China. Sales and service centers are located in 11 countries.

Eaton supplies high-quality systems, parts and services to markets that include automotive, food and beverage, ethanol and biofuels, oil and gas, pharmaceutical, power generation, pulp and paper, chemical, paints and coatings, electronics, iron and steel manufacturing, marine and municipal and industrial water. Eaton is well positioned in key markets and is expanding its global footprint with initiatives in the Americas, EMEA and Asia Pacific.

Eaton's filtration business has led the way with technology that meets the growing and rigorous demands of vital industrial sectors. Utilizing a variety of filtration technologies, Eaton has consistently implemented the best solutions available while continually striving to make a difference for customers and the environment.

Eaton filtration services

- State-of-the-art water testing lab facility
- Long-term or short-term equipment rental
- Field service—inspections, start-up, maintenance, repair and replacement
- Field trials
- Extensive network of manufacturer representatives and distributors worldwide
- Worldwide technical support in international markets
- Team of product specialists dedicated to providing application engineering

Eaton technologies

- Customized and modular solutions provide a full range of retention capabilities and construction materials in manual and automated designs
- ISO 9001-2008 quality management
- Standard ASME "U," "UM" Code and CRN Stamp
- "N" stamp available
- European standards - DIN/PED
- EPA compliant solutions
- Properly sized components to meet any specified flow rate and retention requirement
- NSF approved coatings
- Ultra low discharge strainer technology that offers reduced purge volumes

Eaton sustainability commitment

Eaton is unwavering in our commitment to being sustainable by design—in the way we operate, through the design of our products and through the energy and climate saving benefits our products deliver. Eaton issues a sustainability report as part of its annual report, available on www.eaton.com.



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Simplex
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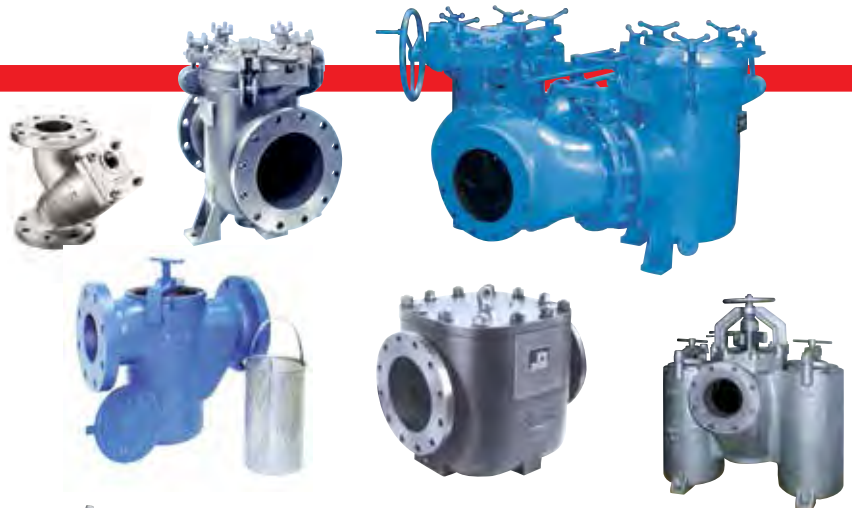
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Pipeline strainer family

Standard cast pipeline strainers

- Model 85 Y strainer
- Model 72 simplex strainer
- Model 73 simplex straight flow strainer
- Model 72SJ simplex steam jacketed strainer
- Model 72L simplex Tefzel®-lined strainer
- Model 30R economy simplex strainer
- Model 510 multi-basket simplex strainer
- Model 53BTX ball-type duplex strainer
- Model 50 plug-type duplex strainer
- Model 52 large duplex strainer
- Model 570 multi-basket duplex strainer
- Strainer options and temporary strainers
- Basket and screen technical data



Fabricated pipeline strainers

- Model 90 simplex strainer
- Model 950B duplex offset strainer
- Model 91 T-type strainer
- Fabrication options and technical data



Automatic backwashing strainers

- Model 2596 series motorized strainer
- Model 2596 2"–8" cast iron or stainless steel
- Model 2596 10"–16" cast ductile iron
- Model 2596 10"–60" fabricated carbon steel and stainless steel



Mechanically cleaned strainers

- MCS 500 magnetically coupled strainer
- MCS 1500 magnetically coupled strainer



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Eaton Strainer Applications

Chemicals

The presence of a pipeline strainer means a cleaner product, protection of equipment and simple separation of solids from liquids. By installing a pipeline strainer, noticeable improvements in chemical operations and guaranteed longer running life of equipment are possible.

Industrial and municipal water

Eaton strainers remove debris from lakes, streams and wells that can damage or clog equipment. They also remove leaves, insects, feathers, etc. From cooling tower water where the system is open to the atmosphere. For desalinization equipment, they take out unwanted matter from the water before it is treated for salt removal. Spent wastewater often passes through a basket strainer to take out material that should not go into a sewer or a waterway.

Pharmaceuticals and cosmetics

Ointments, lotions and similar products, which may contain clumps of undispersed or undissolved matter, are pumped through strainers. In the manufacture of lipstick, for instance, unwanted lumps can ruin the product.

Petroleum

Pipeline strainers clean unwanted material from petroleum products ranging from crude oil to gasoline. Fuel oil can contain gums, tars

or other dirt that can plug the nozzles of an oil burner. Every industrial oil burner is equipped with a strainer to screen these out. Similarly, refineries use strainers in oil handling operations to keep debris away from pumps and meters.

Pulp and paper

Smooth paper finishes require coatings be free of pigment clumps. Strainers in the coating lines catch and retain the lumps. They also clean traces of pulp or paper from white water effluent before it is discharged.

Process equipment

By installing a pipeline strainer ahead of expensive process equipment, the strainers protect against damage from scale, dirt or by-products, preventing costly shutdowns. Heat exchangers, condensers and pumps use strainers on their intake sides. Pipeline strainers keep flow meters and spray nozzles from clogging.

Paint, ink and latex

Undissolved lumps of resin, skins or clumps of pigment can ruin costly coating products. They are hard to detect, yet easy to avoid when using Eaton strainers.

Marine industry

Pipeline strainers are vital in handling seawater, which can contain a good deal of undesirable matter. Cooling lines, fire control lines, sanitary lines and general cleaning lines use strainers. Strainers also clean fuel, hydraulic and lubrication systems.

Tank cars and trucks

A basket strainer installed on a tank truck that dispenses liquids can catch unwanted solid material. Many chemical products undergo changes during storage or transport—which result in solid residues. The presence of solids in liquid fertilizers or pesticides, for example, can cause clogging of spray equipment.

Commercial buildings, hospitals and schools

Cooling towers and boilers use pipeline strainers to protect them from damage due to scaling.

Food industry

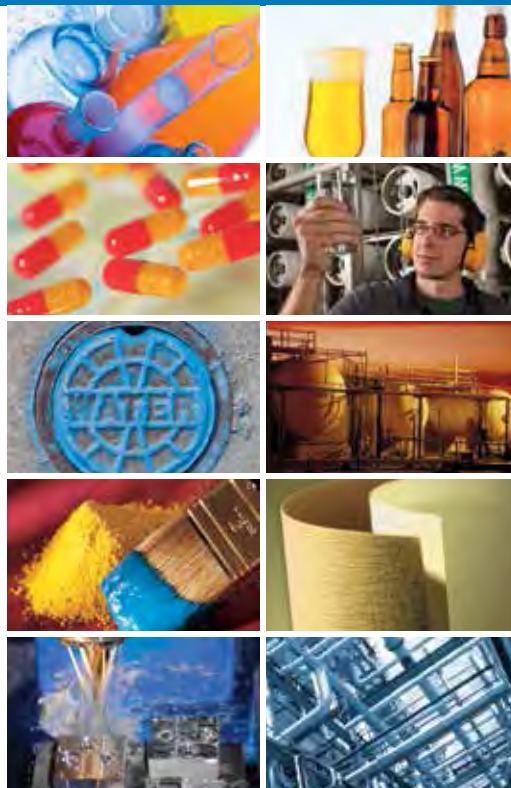
Strainers remove bits of pulp, skins or other unwanted matter from fruit juices. They remove lumps from chocolate syrup and wax from honey. The baking industry strains bone and gristle from molten lard with basket strainers and uses them to remove bits of dough, seeds, etc. From discharge water. Straining water allows it to be recycled and used for other purposes.

Power generation

The electric power industry uses strainers to clean water for cooling and to protect equipment. They also strain transformer oil to avoid clogging of the circulating lines.

More information

For specific, detailed application information, consult Eaton.



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Simplex, Duplex, Y-Type, Temporary, Baskets and Screens

Standard cast pipeline strainers

High performance systems for keeping debris out of your downstream equipment

Eaton standard cast pipeline strainers protect pumps, filters, nozzles, flow meters, valves, heat exchangers, condensers, oil burners, boilers and other process system components from damaging pipeline debris. Eaton maintains the largest and broadest inventory of strainers in the industry, and can provide off-the-shelf delivery of simplex, duplex and Y strainers in metals such as cast iron, carbon steel, bronze and stainless steel.



Y strainers function in a variety of liquid and gas steam straining applications to protect downstream process system components from damage or clogging by sand, gravel or other debris. Y strainers remove unwanted solids from liquid, gas or steam lines by means of a perforated or wire mesh element. Y strainers are cost-

effective when removing a small amount of material—resulting in long intervals between screen cleanings. To clean the strainer screen, shut down the line and remove the strainer cap. For applications with heavier dirt loading, Y strainers fitted with a "blow off" connection permits cleaning of the screen without removing it from the strainer body.

Simplex basket strainers are used when liquids require regular or frequent cleaning, and when the line can be shut down for short periods to clean or change the basket. Basket strainers hold substantially more material than Y strainers and offer a lower pressure drop. Installed



upright, in a horizontal line, the basket strainer lifts out from the top. This makes it easier to use with gummy or sticky fluids or with large pipeline sizes where the filled basket weight can be considerable.



Duplex basket strainers operate continuously so the pipeline flow never has to be shut down for strainer basket cleaning. When one basket is full, the flow shifts to the other one, making it easy to remove, clean and replace the first basket. Duplex or double basket strainers are valuable in locations in which it is impossible to shut off flow to stop the operation. Examples of these processes include cleaning fuel oil in large indus-

trial oil burners, all types of marine applications, screening water in cooling towers and straining fluids in continuously running chemical operations.

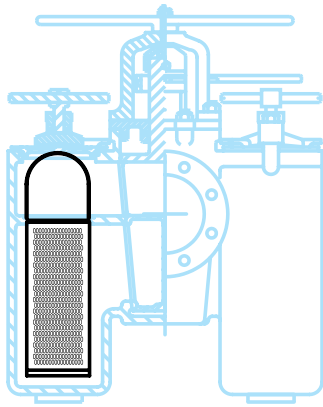
Eaton standard cast pipeline strainers meet customers' expectations and the highest standards, including:

- ISO 9001-2008 quality management
- Properly sized components to meet any specified retention requirement and flow rate
- NSF approved coatings
- Ultra low discharge strainer technology that offers reduced purged volumes

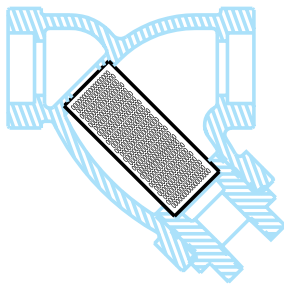
For more than 50 years, Eaton has led the way with designs that meet the growing and rigorous demands of process and manufacturing industries, utilities and municipalities around the world.



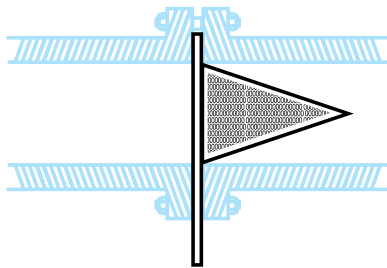
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Partial cutaway of plug type duplex strainer showing basket in position



Cutaway of Y strainer shows strainer screen in position

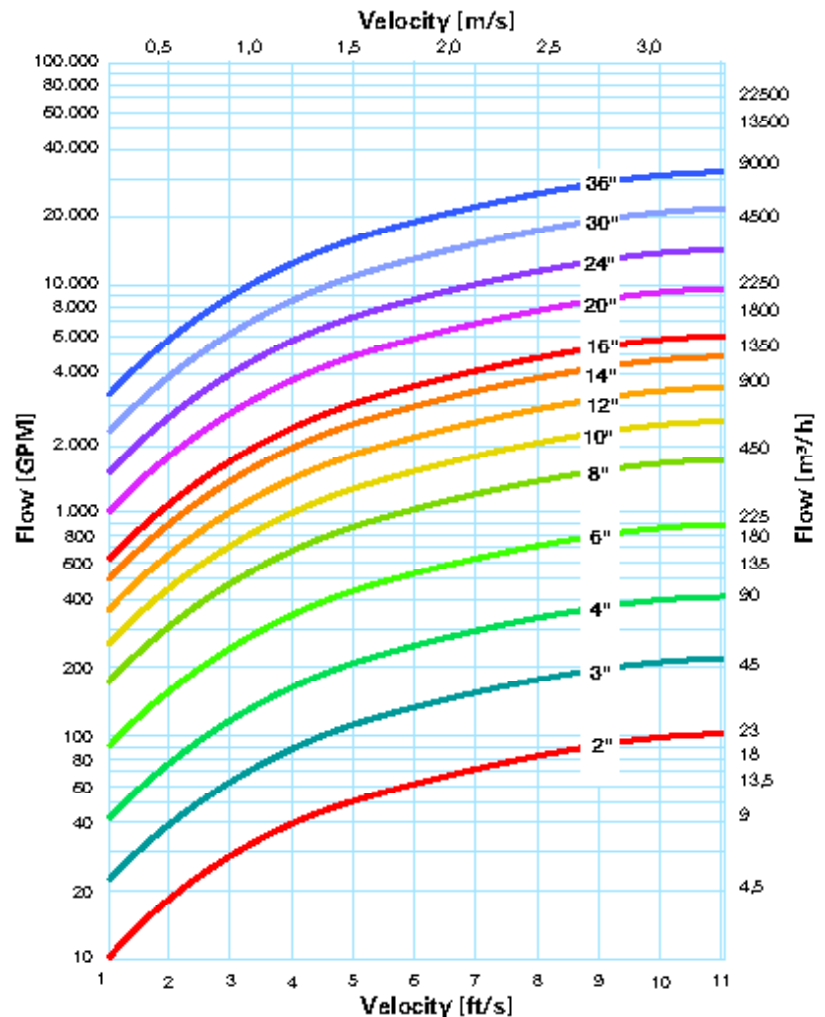


Cone type temporary strainer is shown bolted between two pipe flanges

Basic sizing guidelines

1. Select the correct screen and opening size, do not make smaller than necessary.
2. The quantity, type and nature of debris to be removed are considered.
3. The strainer meets the design pressure and temperature requirements of the pipeline.

Strainer sizing chart



US
EF-SSEA-3
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