

Metal Cartridge Filter-Sintered Pleated Mesh**Product Coding**
P45XXXXXX**Introduction**

Sintered pleated mesh filter cartridges are designed for applications where a large filtration surface is required, yet housing dimensions are limited. By forming multiple layers of woven stainless steel mesh into a pleated structure, these elements provide significantly increased surface area within the same cartridge size, reducing the number of filters needed in a system. Their multilayer construction ensures stable filtration performance for medium micron applications, while maintaining good flow characteristics. Although their intricate pleated geometry limits deep cleaning, these cartridges offer reliable service life and consistent operation across a wide range of industrial processes.

**Features**

- Multilayer woven mesh construction (typically 3 layers) for stable medium micron filtration
- Pleated design providing large effective filtration area in compact housing
- Good mechanical strength with high permeability and low pressure drop
- Suitable for filtration ratings above 5 μm
- Service life typically up to nine months depending on operating conditions
- Available in various stainless steel grades, including duplex options
- Reusable and cleanable depending on system conditions
- Custom sizes and end connections available to match existing housings

Applications

- Water treatment, cooling water, and process water filtration
- Hydraulic and lubrication circuits
- Fuel, oil, and solvent filtration
- Chemical and petrochemical units operating under moderate conditions
- Industrial machinery protection
- Gas and air pre-filtration
- Filtration stages where high surface area is essential and limited installation space is available



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