

Metal Nozzle Filter

Product Coding
P440XXXXXX

Introduction

Metal nozzle filters are devices used in applications where uniform flow distribution over the filter media is required. They are installed above a filter media, acting as distributors. Using nozzle filters instead of long cartridge filters leads to more efficient use of vessel space and reduced operational costs. They are also installed on a floor blow a filter media to prevent the escape of filtration media (sand, resin, activated carbon, etc). Key design factors include design pressure and temperature, allowable pressure drop, and uniform flow distribution across the vessel's cross-section. Euroslot Pars's type nozzle filters are made using V-Wire screens as the main filtration element, typically manufactured from stainless steel or alloy steels. This construction provides higher mechanical strength and requires less filtration area to achieve the same pressure drop compared to other filter types. Additionally, these filters offer reliable performance over a wide temperature range and exhibit excellent resistance to corrosive environments.

Features

- Uniform flow distributed filtration
- Space efficient design
- Customizable slot size
- High mechanical strength
- Low pressure drop
- Superior temperature resistance

Applications

- **Wastewater treatment:** High pressure and high temperature filters, media filtration units, and industrial wastewater clarification.
- **Chemical and petrochemical processing:** Suitable for corrosive fluids, high temperature reactions, and media retention in catalytic beds.
- **Sand filter:** Provides stable media support and uniform flow distribution during filtration and back-washing cycles.
- **Power plants and cooling systems:** Used in cooling water filtration, boiler feedwater treatment, and thermal process systems.

Element Types

- V-Wire screen
- Perforated
- Woven mesh
- Perforated + woven mesh



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