

# EPNS.P

## Full metal pleated cartridge made of sintered metallic fibers

Removal of particles from gases and steam,  
fine filtration of aggressive media



### Description

EPNS.P-300 full metal filter cartridges are cartridge type filters containing the increased density pleated material made of sintered metallic fibers as the filter screen. The element is a full metal structure. The pleated configuration increases EPNS.P lifetime. Filter cartridges have high throughput and wide chemical compatibility.

Special hermetic sealing performed by argon arc welding makes it unnecessary to use various adhesive substances and soldering alloys that may be the source of contamination and the reason for limiting temperature conditions and chemical compatibility.

It is easier to clean the filter because of absence of an outer body.

### General applications

- Removal of particles from steam and gases;
- Fine purification of aggressive liquids (acids, solvents), polymers, highly viscous media under high temperatures in various industry fields;
- Filtration of condensate, water, detergents.

### Features and advantages

#### Features

The material is made of internally sintered stainless steel fibers

High thermochemical resistance

Reliability

#### Advantages

- High efficiency of filtration;
- High flow rates with low differential pressure;
- Mechanical strength of the element ensures multiple regenerations in any direction.

- Possibility to use elements for fine filtration of aggressive media;
- Withstand multiple chemical regeneration in a wide pH range and in-line steam sterilization.

- Ability to restore their operational properties ensures long element lifetime;
- Produced in compliance with the Quality Management System (9000 series ISO).

## Specifications

### Nominal micron rating

- for liquids  
3 µm
- for air, steam and gases  
< 0.4 µm

### Nominal Dimensions and Filter Areas

#### Filter Cartridges

H, mm	D, mm	S, m <sup>2</sup>
125 (5")	70	0.1
250 (10")	70	0.2
500 (20")	70	0.4
750 (30")	70	0.6
1000 (40")	70	0.8

**H** - height  
**D** - diameter  
**S** - filtration surface area

## Materials

Filter material	AISI 316L sintered metallic fibers
Body, end parts	AISI 304L stainless steel
O-rings	Silicone (viton, EPDM, fluoroplastic are available on request)

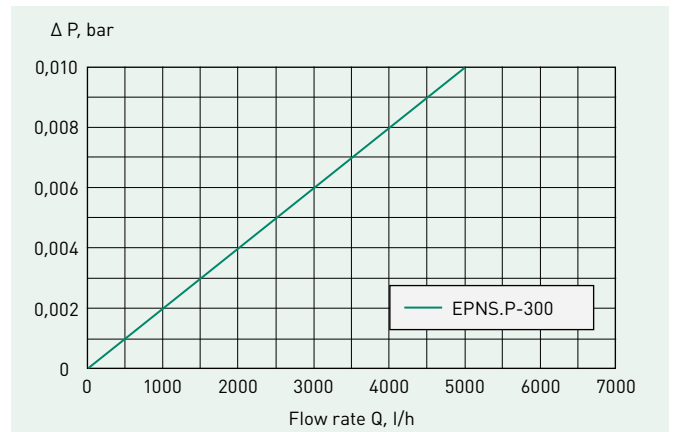
## Operational parameters

Maximal differential pressure	0.6 MPa
Maximal operational temperature	Limited by the operational temperature of the filter housing and seals type

## Sterilization and washing

Wash out and blowing	Direct and back wash with clean hot water, steam, chemical agents
Autoclaving	not limited
In-line steam sterilization	not limited

### Flow Rates (water) of EPNS.P-300, H = 250 mm (without hydrodynamic resistance of the bench)



## Filter Cartridges ordering information

EPNS.P	300	D	250
Brand	Nominal micron rating	Adapter code	Cartridge height
	Code	D	250 mm (10")
	300	B	500 mm (20")
		A	750 mm (30")
			1000 mm (40")