

# EPNS

## Stainless steel mesh pleated Filter Cartridge in Polypropylene Case

For preliminary filtration of highly contaminated solutions and highly viscous liquids



### Description

EPNS filter cartridges are cartridge type filters on the basis of the pleated material made of metal mesh (stainless steel AISI 304) with the effective filtration area from 0.22 to 1 m<sup>2</sup>. The pleated structure of the cartridge provides extended area of the surface compared to cylindrical metal Filter Cartridges, increasing thereby flow rates and lifetime of EPNS.

### Features and advantages

#### Features

Pleated, strong

High thermochemical resistance

Reliability

#### Advantages

- High filtration rates and lifetime with low hydraulic resistance;
- Mechanical strength of the element ensures multiple regenerations, wash outs and sterilizations in any direction.
- Possibility to use elements for filtration of aggressive liquids under the temperatures up to 95 °C;
- 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 (ISO 9001:2008).

### Materials

Filter material	304L stainless steel mesh
Draining layer	304L stainless steel mesh
Body, end parts	Polypropylene + armlen
O-rings	Silicone (viton, EPDM available)

## Specifications

### Micron rating

- 5 µm
- 10 µm
- 20 µm
- 40 µm
- 70 µm
- 100 µm

### Nominal Dimensions and Filter Areas

#### Filter Cartridges

H, mm	D, mm	S, m <sup>2</sup>
250 (10")	70	0.22
500 (20")	70	0.44
750 (30")	70	0.66
1000 (40")	70	0.88

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

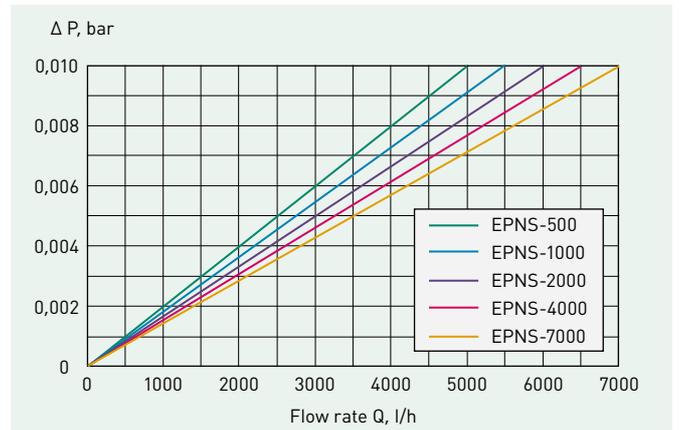
## Operational parameters

Maximal differential pressure	0.5 MPa at 20 °C, 0.2 MPa at 80 °C
Maximal operational temperature	90 °C

## Sterilization and washing

Wash out	Direct and back wash with hot water (up to 95 °C), chemical reagents, CIP washing
Autoclaving	In a wide range
Steam sterilization	In a wide range

## Flow Rates of EPNS



## Filter Cartridges ordering information

EPNS	500	A1	500
Brand	Micron rating	Adapter code	Cartridge height
	Code	A	250 mm (10")
	500	D	500 mm (20")
	1000	D1	750 mm (30")
	2000	A1	1000 mm (40")
	4000	B	
	7000	B(SI)	
	10000		