



## STAINLESS STEEL SINTERED FILTER CARTRIDGE

HYDOREX stainless steel filter cartridges are design for most commercial filter housings as well as our own line housings. They are very good for high temperature, high pressure and high corrosion applications.

They can also lower your cost by providing longer on stream life and years of trouble free service. In addition, HYDOREX stainless steel filter cartridges are easy to cleaned and backwashable.

### Types of HYDOREX stainless steel sintered filter cartridges

#### Cylindric Sintered Wire Mesh Filter Cartridge

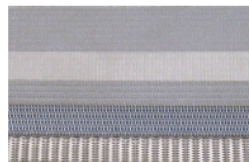
It is combination of few different layers stainless steel wire mesh for the widest application and brought together as per the different combination. They are sintered together through vacuum sinter, compression, rolling and made into a kind of porous material.

Characteristics:

- \* Large filtration surface.
- \* Steady filter rating. As to the two protective layers and sinter arts, the mesh of the filter layer is not easy to change.
- \* High mechanical strength. Excellent resistance to pressure and high mechanical strength due to the fourth and fifth layers reinforced.
- \* Washability. Easy to wash and backwash.
- \* Heat resistance. Heat resistant up to 480°C.
- \* Corrosion resistance. Corrosion resistance as a result of adopting SUS316L.
- \* Tractability. Suit to cut, punching, warp, tension and jointing.
- \* Micron size available : from 1 to 100 micron (nominal rating)



Cylindric filter cartridge



Few different layers stainless steel wire mesh



Pleated filter cartridge

#### Pleated Sintered Wire Mesh Filter Cartridge

It is combination of few different layers stainless steel wire mesh for the widest application and brought together as per the different combination. They are sintered together through vacuum sinter, compression, rolling and made into a kind of porous material.

Characteristics:

- \* Larger filtration surface.
- \* Steady filter rating. As to the two protective layers and sinter arts, the mesh of the filter layer is not easy to change.
- \* High mechanical strength. Excellent resistance to pressure and high mechanical strength due to the fourth and fifth layers reinforced.
- \* Washability. Easy to wash and backwash.
- \* Heat resistance. Heat resistant up to 480°C.
- \* Corrosion resistance. Corrosion resistance as a result of adopting SUS316L.
- \* Tractability. Suit to cut, punching, warp, tension and jointing.
- \* Micron size available : from 1 to 100 micron (nominal rating)



## STAINLESS STEEL SINTERED FILTER CARTRIDGE

Material available : SUS 304, SUS 316L.

Standard outer diameter : 63mm

Standard length : from 10", 20", 30", 40"

Standard connection : Double open end

Single open end with threaded + cone / flat

Single open end with 222 + cone / flat

Single open end with 226 + cone / flat

Other micron sizes, diameters, lengths, connections are also available upon request.

### Types Of Connectors



Threaded  
Open End



222 Open End



Gasket Open End



226 Open End



Cone Close End

### Filter Cartridge Selection Guide

Type	Micron Rating	Dirt Holding	On Stream Life	Cleanability	Back Flushability
Cylindrical Wire Cloth Sintered Cartridge	Nominal	Good	Good	The Best	The Best
Pleated Wire Cloth Sintered Cartridge	Nominal	Very Good	Very Good	Excellent	Excellent
Cylindrical Wire Fiber Sintered Cartridge	Absolute	Excellent	Excellent	Very Good	Very Good
Pleated Wire Fiber Sintered Cartridge	Absolute	The Best	The Best	Good	Good

Minimum operating and backwash pressure require : 2 barg

Average flow rate per 10" for 63mm outer diameter cylindrical filter cartridge : 1.5 m<sup>3</sup>/hr

Average flow rate per 10" for 63mm outer diameter pleated filter cartridge : 2 m<sup>3</sup>/hr

Average initial differential pressure : 0.05 barg

Operating and backwash flow rate, pressure drop may be various for :

- \* different types of filter cartridges
- \* different micron sizes filter cartridges
- \* different viscosity liquid
- \* different S.G. liquid
- \* different operating and backwash pressure
- \* different quality of liquid
- \* different temperature of liquid

Recommend to perform cleaning or backwash when differential pressure build up to 0.8 ~ 1 barg, to get better filtration efficiency.