

# LENTICULAR™ CSD FILTERS

## DURABLE, HIGH-PURITY FILTRATION

The Lenticular CSD Filter Series use a composite material composed of high purity lignocellulose and inorganic filter aid agent. Its inner three-dimensional structure allows it to be a depth filter while providing excellent filtration efficiency, high contaminant holding capacity and longer lifetime.

The Lenticular CSD Filter Series combines an assortment of filter disks in one filter unit for easy installation. The edges of each filter disc are sealed through an injection molding process which ensures the integrity of the entire filter. This structure provides excellent stability against filter damage from long-term use.

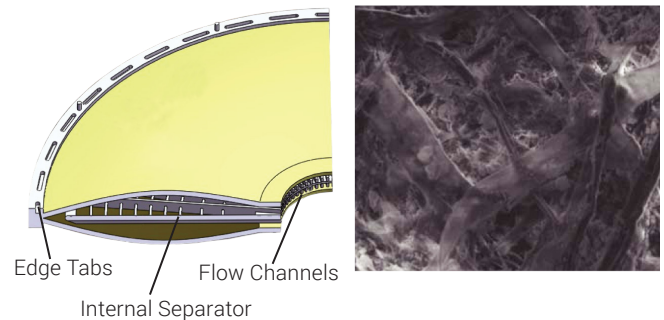
All raw materials are tested by strict quality control procedures to ensure the filter quality and performance capabilities.

### Excellent Retention Efficiency

As an inorganic filter aid, the naturally porous structure of the diatomite results in good adsorption and an increase in permeability. There is a small amount of synthetic resin in the filter paper which improves the wet strength of the paper, and provides a positive charge which adsorbs the negative charges, endotoxin, and other substances.

### Filter Use Characteristics

Using a high purity cellulose, reduces the level of ion precipitation and endotoxin making the CSD Series suitable for food and beverage and other high purity applications. The filter designs solve many of the problems found in typical disk-style filters such as leakage, heavy use, and high costs.



**FEATURE**

**BENEFIT**

**Cellulose filtration media with inorganic filter aid**

High contaminant holding capacity and longer lifetime

High-purity, absorbs negative charges, endotoxin, and other substances

**Sealed ends disk filter stacks**

High flow, stability against filter damage and layer leak-through

Excellent stability for long-term use

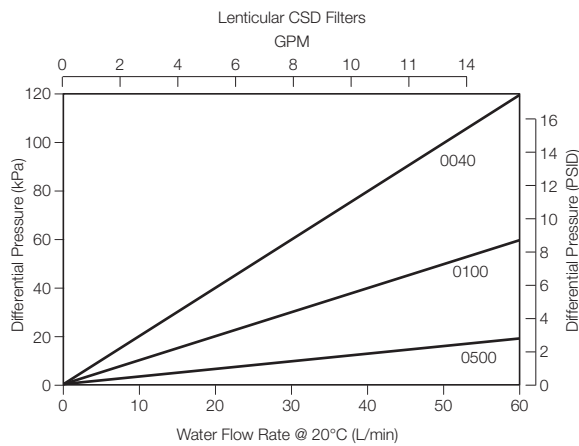
## APPLICATIONS

- Beer
- Bottled Water
- Juices
- Wine
- Brine Solution
- Edible Oils
- High-Fructose Corn Syrup

## SPECIFICATIONS

<b>Filter media</b>	Cellulose, Diatomaceous Earth
<b>Cage</b>	Polypropylene
<b>Max. Operating temperature</b>	80°C
<b>Max. Differential pressure</b>	0.24 MPa (2.4 bar, 35 psi) at 25°C
<b>Flush</b>	Pure water 50 lpm <sup>2</sup> Flow rate 10 lpm <sup>2</sup>
<b>Steam Sterilization (autoclave)</b>	121°C for 30 minutes

## FLOW CURVES



## FILTRATION AREA

Number of Lenses	12" Diameter	16" Diameter
7	0.7 m <sup>2</sup>	-
9	0.9 m <sup>2</sup>	2.1 m <sup>2</sup>
12	1.1 m <sup>2</sup>	2.8 m <sup>2</sup>
15	1.4 m <sup>2</sup>	3.5 m <sup>2</sup>
16	1.5 m <sup>2</sup>	3.7 m <sup>2</sup>

## ORDERING INFORMATION

EXAMPLE: **CSD0040SAD0E12TEF** 0.4 - 0.6 µm removal rating, standard grade, double open-end caps, 12", 12 lenses, with EPDM gaskets

### CSD



#### Removal Rating

*Sterile Filtration:*

0004 = 0.04 - 0.2 µm

0020 = 0.2 - 0.4 µm

0040 = 0.4 - 0.6 µm

*Fine Filtration:*

0060 = 0.6 - 0.8 µm

0100 = 0.8 - 1.5 µm

0150 = 1.5 - 3.0 µm

*Clarification:*

0300 = 3.0 - 6.0 µm

0500 = 5.0 - 12.0 µm

0600 = 6.0 - 15.0 µm

0700 = 7.0 - 18.0 µm



#### Grade

SA = Standard



#### End Cap\*

DOE = Double open end

\* Ask for options.



#### Diameter

12 = 12"

16 = 16"



#### Number of Lenses

S = 7 Lenses

N = 9 Lenses

T = 12 Lenses

F = 15 Lenses

D = 16 Lenses



### F

#### Seal Material

S = Silicone

E = EPDM

V = Viton

F = PTFE



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