

# Depth-Clear S-Series

Depth Lenticular Filters for Critical Process Fluids



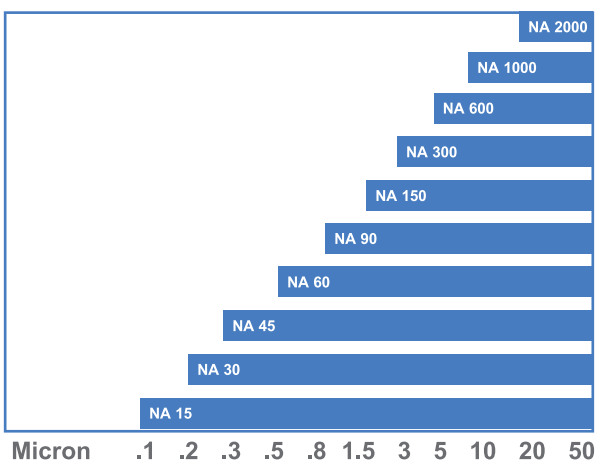
Depth-Clear S-Series depth lenticular filters, constructed of specially formulated cellulose media and inorganic filter aids, provide reliable particle retention and enhanced throughput for superior performance in critical applications. The filter media utilizes mechanical and electrokinetic adsorptive capture mechanisms to remove particles, microorganisms, and colloids from critical process streams. The lenticular format allows the filtration process to occur within a totally enclosed environment. This eliminates the potential for atmospheric contamination and product loss through leakage.

The Depth-Clear proprietary formulation process produces filter media with a highly effective filtration area that provides superior particle retention, high contaminant holding capacity, and long on-stream filter life. Manufacturing by means of an advanced, highly automated production process results in very consistent product quality and filtration performance. Each grade is formulated to optimize the retention and flow characteristics, allowing a wide selection of choices to meet an application's filtration requirements.

## Features & Benefits

- High surface area lenticular filters provide superior filtration performance and long on-stream life cycles.
- The proprietary formulation process results in depth media with exceptional particle retention via mechanical and electrokinetic capture.
- The advanced manufacturing process controls result in very uniform filtration media and consistent lot-to-lot performance.
- Available in our dual layer format. (See our Depth-Clear II series literature)
- Lenticular filters are easy to handle and install allowing for quick and easy change-outs. Very high surface area per filter results in small space requirements for filter housings.
- All materials conform to FDA guidelines regarding material contact in food and beverage processing.
- Biosafety – meets the requirements of USP-XXII, Class VI plastics at 121 °C.
- Manufactured in an ISO 9001 Certified Quality System Environment

## Nominal Retention Ratings



## Applications

- Beer
- Brines, Broths, Edible Oil
- Chemicals
- Fragrances
- High Fructose Corn Syrup
- Inks and Dyes
- Juices, Cider
- Resins
- Varnishes
- Wine

## Specifications

### Materials of Construction

Media:	Cellulose fibers with inorganic filter aids and resin binders
Flat Adapter:	Polypropylene
Core Straps:	Stainless Steel
O-rings/Gaskets:	EPR, Silicone, Nitrile, Viton®, Teflon®, Expanded Teflon®
Bayonet Adapter:	Polypropylene with Stainless Steel Ring
Support Material:	Polypropylene

### Performance Specifications

Maximum Pressure	35 psid @ 140°F
Maximum Temperature	180°F
Recommended Flow Rate	0.5 to 1 gpm/ft <sup>2</sup> 20-40 L/min/m <sup>2</sup>

### Nominal Dimensions

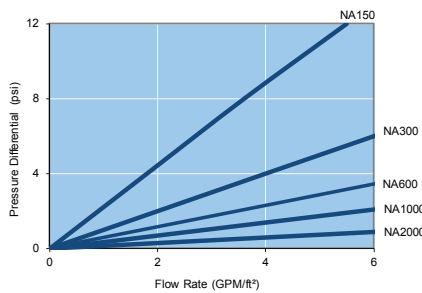
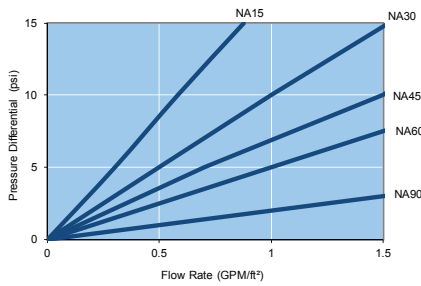
Cartridge Size	C9	C16	D14	D14B
Diameter in. (cm)	11 1/8 (28.3)	11 1/8 (28.3)	16 3/4 (42.6)	16 3/4 (42.6)
Height in. (cm)	7 11/16 (19.5)	10 7/8 (27.6)	10 7/8 (27.6)	13 (33.0)
Filter Area ft <sup>2</sup> (m <sup>2</sup> )	11 (1.0)	19 (1.8)	38 (3.5)	38 (3.5)
# Cells	9	16	14	14

### Sterilization

Steam in Place	125°C for 30 minutes @ 0.3 bar (43 psi) max
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## Performance Characteristics

### Water Flow Curve



## Lenticular Filter Selection Guide

NA	1000	K	S	C9	01	B
Media	Micron Rating	Formulation	Series	Number of Cells	Gasket Material	Adapter
NA Depth-Clear	15 0.15 µm 30 0.3 µm 45 0.45 µm 60 0.6 µm 90 0.9 µm 150 1.5 µm 300 3.0 µm 600 6.0 µm 1000 10.0 µm 2000 20.0 µm	K Grade	S Standard	C9* C16 C17 D14  * Not available in bayonet style	01 EPR 03 Silicone 04 Nitrile 08 Viton® 09 Teflon® 15 Expanded Teflon®	B Bayonet Flat Blank

**WARNING:** This product can expose you to chemicals including silica, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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