

# aspire<sup>®</sup> 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, colloids and pyrogens 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.
- 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.
- Manufactured in an ISO 9001: 2008 Certified Quality System Environment.

### Applications

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

For more information,  
contact your aspire<sup>®</sup> representative at  
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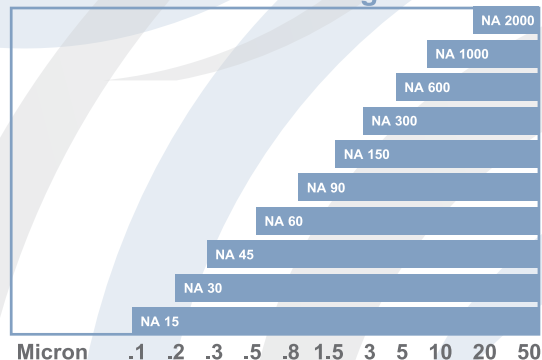
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## Depth Lenticular Filters for Critical Process Fluids

### Nominal Retention Ratings



### Performance Specifications

Maximum Pressure	Maximum Temperature	Recommended Flow Rate
35 psid @ 140°F / 60°C	180°F / 82°C	0.5 to 1 gpm/ft² 20.4 L/min/m²

### 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 (29.7)	10 7/8 (27.6)	10 7/8 (27.6)	13 (33.0)
Filter Area ft² (m²)	11 (1.0)	19 (1.77)	38 (3.5)	38 (3.5)
# Cells	9	16	14	14

### 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, Neoprene, Nitrile, Viton®, Expanded Teflon®
Bayonet Adaptor	Polypropylene
Support Material	Polypropylene

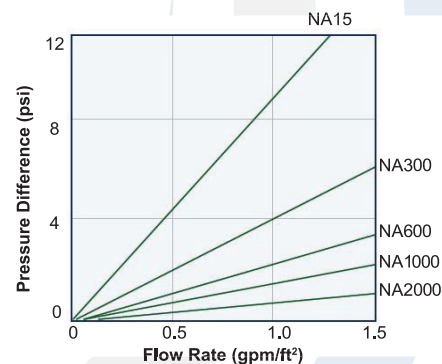
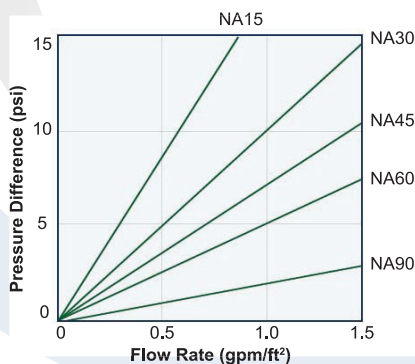
### Sterilization

In-situ Steam: 20 min. @ 134°C (273°F)  
 1 hr. @ 126°C (258°F)  
 Autoclave: 30 min. @ 121°C (249°F)

**FDA Conformity:** All materials conform to FDA standards regarding material contact during food and beverage processing.

**Toxicity:** Depth-Clear Series filter components comply with USP XXII standards for Class VI plastics at 121° C.

### Flow Curve in Water



### Lenticular Filter Selection Guide

Media	Micron Rating	Formulation	Series	Number of Cells	Gasket Material	Adapter
NA	1000	K	S	C9	01	B
NA = Depth-Clear	15 = 0.15 µm	K Grade	S = Standard	C9 C16 D14	01 = EPR 02 = Neoprene 03 = Silicone 04 = Nitrile 08 = Viton® 09 = Teflon® 15 = Expanded Teflon®	Bayonet = B Flat=Blank
	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					

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