

Depth-Clear H-Series

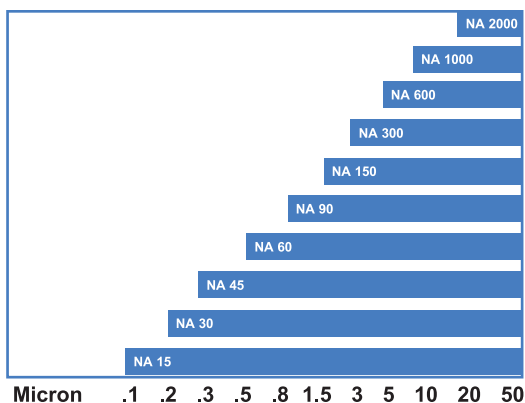
High Strength Lenticular Filters for Demanding Applications



Depth-Clear H Series lenticular filters are constructed using a specially formulated filter media comprised of cellulose, inorganic filter aids, and processed in a manner to impart a 150% increase in the strength of the media. Depth-Clear lenticular filters provide reliable particle retention and enhanced throughput for superior performance in critical applications. The filter medium utilizes mechanical and electrokinetic adsorptive capture mechanisms to remove particles, microorganisms, colloids, and other contaminants from process streams. The lenticular format allows the filtration process to occur within a totally enclosed environment to eliminate the potential for atmospheric contamination and product loss through leakage.

The Depth-Clear H Series 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. The media is manufactured by means of an advanced, highly automated production process that 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.

Nominal Retention Ratings



Features & Benefits

- Unique manufacturing process results in a media with greater than 150% more strength than standard media
- Distinctive formulation produces depth media that provides superior filtration and long on-stream life cycles. Particles are captured through a combination of mechanical capture and electrokinetic adsorption
- All raw materials are subject to stringent quality control procedures to ensure consistent and uniform product
- Available in our dual layer format. (See our Depth-Clear II literature for further information)
- High surface area lenticular filters provide superior filtration performance and long on-stream life cycles. Very broad selection of grades offered within each media series to meet the flow and retention requirements of an application. Special formulations and custom sheet sizes are available for high volume requirements
- All materials conform to FDA guidelines regarding material contact in food and beverage processing
- Manufactured in an ISO 9001 Certified Quality System Environment
- Biosafety – meets the requirements of USP-XXII, Class VI plastics at 121°C

Applications

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

Depth-Clear H-Series

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® and Expanded Teflon®
Bayonet Adapter:	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)

Performance Specifications

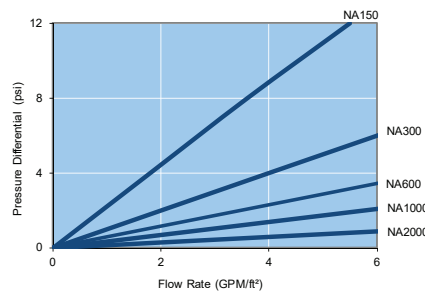
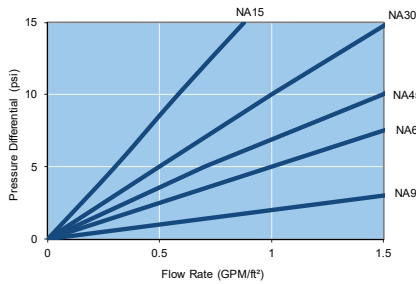
Maximum Pressure	35 psid @ 140°F / 60°C
Maximum Temperature	180°F / 82°C
Recommended Flow Rate	0.5 to 1 gpm/ft ² 20-40 L/min/m ²
Recommended Pre-Use Flush Volume	5 liters/ft ² of clean water or product

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 ² (m ²)	11 (1.0)	19 (1.8)	38 (3.5)	38 (3.5)
# Cells	9	16	14	14

Performance Characteristics

Water Flow Curve



Lenticular Filter Selection Guide

NA	1000	K	SH	C16	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	K Grade	KSH Standard High Strength	C9* C16 C17* D14 * Not available in bayonet style	01 EPR 03 Silicone 04 Nitrile 08 Viton® 09 Teflon® 15 Expanded Teflon®	B Bayonet Blank Flat

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.

DS_FB_DC H_11/17 Rev. 1E

Trademarks are property of respective owners.

Parker has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's Standard conditions of sale.

