



Asymmetric P-Nylon Filter



Description

Asymmetric P-Nylon filters utilize the proven defect-reducing nylon membranes but configured into a new, asymmetric pore geometry. This tapered pore design, with an opened upstream structure and a fine downstream region, allows for filtration removal ratings down to 20 nm with very low differential pressures.

- Ideal for critical point-of-use ultrapure water applications
- Naturally hydrophilic (no surface modifications)
- Quick rinse-up
- Low extractables
- Manufactured in a cleanroom environment
- Reduces defects by sieving and absorption
- Integrity testable

Specifications

Materials

- Medium: Asymmetric hydrophilic nylon 6,6
- Core, cage, and end caps: High density polyethylene (HDPE)
- Support and drainage: High density polyethylene (HDPE)
- O-ring options: Viton¹ and Teflon¹ encapsulated Viton

Removal Ratings

- 40 nm, 20 nm

Filter Areas

- 40 nm AND: 1.2 m² / 13 ft² per 254 mm / 10 in
- 20 nm ANM: 1.3 m² / 14 ft² per 254 mm / 10 in

Configurations

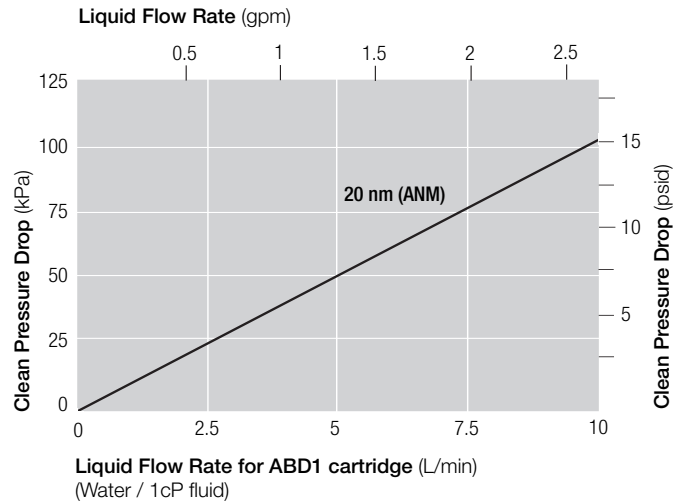
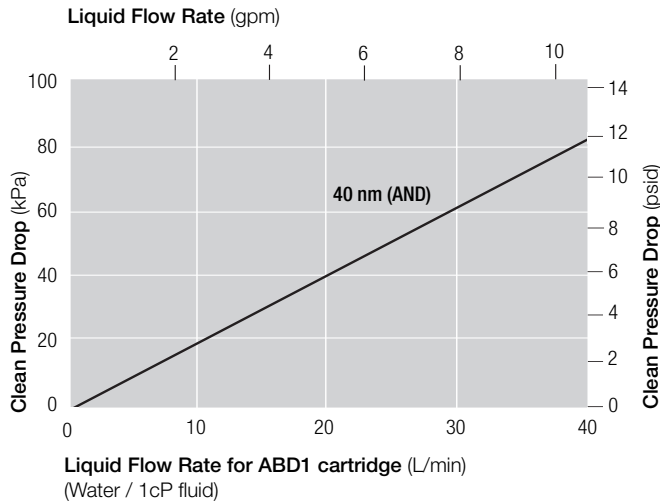
- Nominal length: 254 mm / 10 in, 508 mm / 20 in, 762 mm / 30 in, and 1016 mm / 40 in
- Diameter: 70 mm / 2.75 in
- O-ring size / end caps:
 - Code 3: 222 double O-ring / flat end
 - Code 8: 222 double O-ring / finned end
 - Code 7: 226 double O-ring bayonet lock / finned end
 - ABD09 Code 3: 222 double O-ring / flat end designed to retrofit Code 0 elements

Operating Conditions

- Maximum operating temperature: 50°C / 120°F
- Maximum forward / reverse Differential Pressure: 270 kPa @ 20°C / 40 psid @ 68°F

¹ Viton and Teflon are trademarks of E. I. du Pont de Nemours and Company

Pressure vs. Liquid Flow Rate²



* For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

Part Numbers / Ordering Information

Part Number ³	Removal Rating (nm)	Nominal Length (mm / in)	Configuration Code	O-Ring Material ⁴
ABD09AND3EH1	40	229 / 9	3	Teflon Encapsulated Viton
ABD1AND3EH1	40	254 / 10	3	Teflon Encapsulated Viton
ABD1AND8EH1	40	254 / 10	8	Teflon Encapsulated Viton
ABD1ANM3EH1	20	1254 / 10	3	Teflon Encapsulated Viton
ABD1ANM8EH1	20	254 / 10	8	Teflon Encapsulated Viton

² The above filter configurations are also available in 508 mm / 20 in, 762 mm / 30 in, and 1016 mm / 40 in lengths. These can be ordered by changing the fourth digit in the part number to a 2, 3 or 4 respectively.

³ Other O-ring materials are available.

Unit conversion: 1 bar = 100 kilopascals



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