

## MAC Small Capsule Filter for LCD Color Resist

### Description

The MAC small capsule filter is designed to remove oversized or agglomerated pigment particles and gels from LCD color resist during coating. The polypropylene filtration media has a very sharp cut-off to assure passage of critical pigment particles while retaining unwanted contamination and minimizing premature plugging. The robust, thick-wall construction with integrally molded connectors reduces or eliminates capsule flexing to provide a steady, stable flow rate.

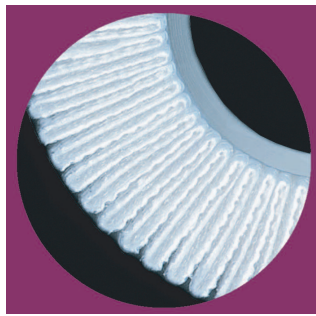
### Features and Benefits

- Swagelok<sup>1</sup> compatible connections
- Choice of two high-efficiency filter media options
  - Profile® Star: most effective for removal of agglomerated particles and gels
  - HDC® II: higher filter area for lower differential pressure, greater flow rate and longer service life
- Pressure-resistant design to 0.65 MPa (@20°C )
- Small internal hold-up volume minimizes loss of resist
- Small footprint enables capsule to be placed close to point-of-dispense

#### Profile Star Media



#### HDC II Media



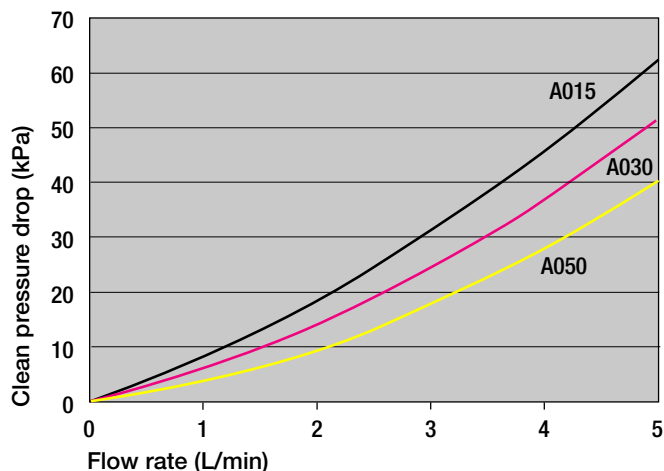
### Specifications

Materials	<ul style="list-style-type: none"> <li>• Filter medium: polypropylene</li> <li>• Housing: polypropylene</li> <li>• Core: high density polyethylene (HDPE)</li> </ul>
Removal Rating	<ul style="list-style-type: none"> <li>• Profile Star: 1 µm, 1.5 µm, 3 µm 5 µm</li> <li>• HDC II: 1.2 µm, 2.5 µm, 4.5 µm</li> </ul>
Maximum Operating Temperature	50°C / 122°F
Maximum Operating Pressure	0.65 MPa @ 20°C / 94 psi @ 68°F

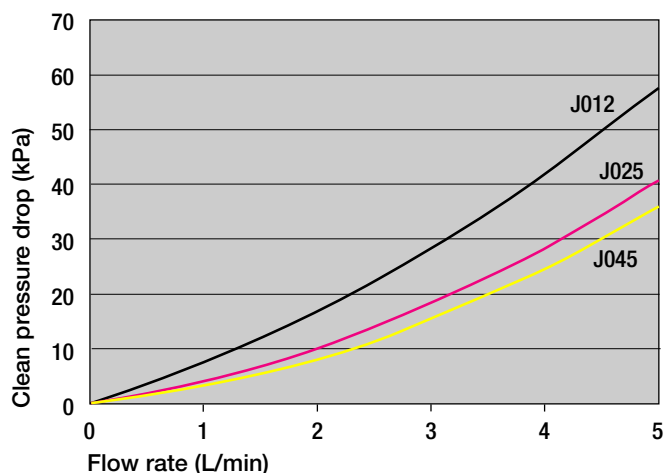
<sup>1</sup> Swagelok is a trademark of Swagelok Company.

## Pressure Drop vs. Liquid Flow Rate (Water, 20°C)<sup>2</sup>

### Profile Star Capsule

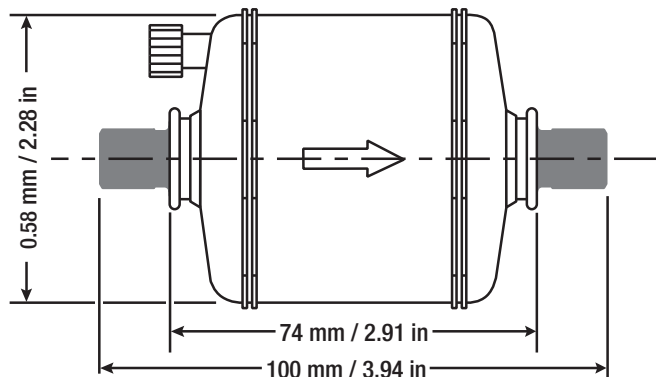


### HDC II Capsule



<sup>2</sup> For Liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoises.

### Dimensions (nominal)



Swagelok compatible connectors:

- in / out – ¼ in
- drain / vent – ⅜ in

### Part Numbers / Ordering Information

MACW  1 4C

Table 1

Code	Removal Ratings (µm)
<b>Profile Star Medium</b>	
A010	1
A015	1.5
A030	3
A050	5
<b>HDC II Medium</b>	
J012	1.2
J025	2.5
J045	4.5



Pall Corporation

#### Microelectronics

25 Harbor Park Drive  
Port Washington, NY 11050  
+1 800 360 7255 toll free US  
+1 516 484 3600 telephone  
+1 516 801 9711 fax  
microelectronics@pall.com

#### Nihon Pall Ltd

6-5-1, Nishishinjuku,  
Shinjuku-ku  
Tokyo 163-6017 Japan  
81.3.6901.5710 telephone  
81.3.5322.2109 fax  
www.pall.com/Japan/micro.asp

Visit us on the Web at [www.pall.com/micro](http://www.pall.com/micro)

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to [www.pall.com/corporate\\_contact](http://www.pall.com/corporate_contact)

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit [www.pall.com](http://www.pall.com) to verify that this information remains valid. Products in this document may be covered by one or more of the following patent numbers: EP 433661; US 5,133,878.

© Copyright 2011, Pall Corporation. Pall, , Profile and HDC are trademarks of Pall Corporation.

® Indicates a Pall trademark registered in the USA. **Filtration. Separation. Solution.**<sup>SM</sup> is a service mark of Pall Corporation.