**COALESCING FILTER & ADSORBER**

- Extensive range of coalescing filter elements to remove oil and sub-micron particles down to 0,01 microns
- Optional 3 micron pre-filter integrated in the coalescing element eliminates the need for a separate particulate element. Coalescing filter elements include 0,3 and 0,01 microns
- Adsorber filter (activated carbon) for removal of odors and hydrocarbon vapor
- Innovative two position plastic drain with manual and semi-automatic functions. Additional drains include an automatic style (brass) and manual (stainless steel).
- Polycarbonate and Aluminium bowls with or without glass gauge, to meet industry all applicaiton requirements
- Visual or electrical differential pressure Indicators for condition monitoring of filter element
- Air Purity Class according to ISO 8573-1: 2010
- Optional extended temperature range of +80°C

### Performance Data

<table>
<thead>
<tr>
<th>Series</th>
<th>651</th>
<th>652</th>
<th>653</th>
<th>653 High Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port sizes</td>
<td>1/8, 1/4</td>
<td>1/4, 3/8, 1/2</td>
<td>3/4</td>
<td>1</td>
</tr>
<tr>
<td>Thread type</td>
<td>G (NPTF in option)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Micron Rating</td>
<td>I/min (ANR)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Nominal flow - ISO 6358**

- P1 = 6,3 bar
- ΔP = 0,35 bar

<table>
<thead>
<tr>
<th>Port</th>
<th>0,3 μm</th>
<th>0,01 μm</th>
<th>0,3 μm</th>
<th>0,01 μm</th>
<th>0,3 μm</th>
<th>0,01 μm</th>
<th>0,3 μm</th>
<th>0,01 μm</th>
<th>0,3 μm</th>
<th>0,01 μm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8</td>
<td>430</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>310</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1/4</td>
<td>480</td>
<td>800</td>
<td>-</td>
<td>-</td>
<td>350</td>
<td>710</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3/8</td>
<td>820</td>
<td>-</td>
<td>790</td>
<td>-</td>
<td>710</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1/2</td>
<td>870</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>830</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3/4</td>
<td>-</td>
<td>-</td>
<td>2550</td>
<td>-</td>
<td>-</td>
<td>1900</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2600</td>
<td>8250</td>
<td>-</td>
<td>-</td>
<td>2250</td>
<td>7700</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

- 651 Series maximum flow at 6,3 bar inlet pressure to maintain air purity class is 100 l/min.
- 652 Series maximum flow at 6,3 bar inlet pressure to maintain air purity class is 300 l/min.
- 653 Series maximum flow at 6,3 bar inlet pressure to maintain air purity class is 700 l/min.
- 653 Series - High Flow maximum flow at 6,3 bar inlet pressure to maintain air purity class is 1640 l/min.

### Materials in contact with fluid

<table>
<thead>
<tr>
<th>Body</th>
<th>Aluminium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seals</td>
<td>NBR/FPM</td>
</tr>
<tr>
<td>Coalescing filter element</td>
<td>Borosilicate Microfiber &amp; Polyester</td>
</tr>
<tr>
<td>Filter element end cap</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Adsorber</td>
<td>Activated carbon</td>
</tr>
<tr>
<td>Bowl</td>
<td>Polycarbonate or aluminium</td>
</tr>
</tbody>
</table>

### Air Purity Class - ISO 8573-1: 2010*

<table>
<thead>
<tr>
<th>Micron Rating</th>
<th>0,3 μm</th>
<th>0,01 μm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Purity Class</td>
<td>(3:7:3)</td>
<td>(2:7:2)</td>
</tr>
</tbody>
</table>

* 651 Series maximum flow at 6,3 bar inlet pressure to maintain air purity class is 100 l/min.
* 652 Series maximum flow at 6,3 bar inlet pressure to maintain air purity class is 300 l/min.
* 653 Series maximum flow at 6,3 bar inlet pressure to maintain air purity class is 700 l/min.
* 653 Series - High Flow maximum flow at 6,3 bar inlet pressure to maintain air purity class is 1640 l/min.
HOW TO ORDER

Coalescing Filter & Adsorber

Thread connection
G = ISO 228/1-G
8 = NPTF

Product series
651
652
653

Revision letter
A

Product type
A = Adsorber - Activated Carbon
F = Filter - Coalescing
H = High Flow Version (653 Series)

Elements
D = 0,3 micron - Coalescer (Green)
E = 0,01 micron - Coalescer (Red)
F = Adsorber - Activated carbon (Grey)
M = 0,3 micron coalescer with 3 micron prefilter (Green)
N = 0,01 micron coalescer with 3 micron prefilter (Red)

Bowl type
K = Metal bowl without sight gauge
L = Metal bowl with sight gauge (glass)
P = Polycarbonate bowl with bowl guard

Drain type
0 = Without
A = Auto drain normally open
N = Manual/Semi-automatic drain
Q = Manual drain - Stainless steel

Options
A00 = Without option
101 = Side Mounting Brackets
105 = High temperature (+80°C)
109 = FPM seals
117 = ATEX zones 1-21
124 = CUTR Certification (EAC)
125 = CUTR Ex
202 = 105 + 109

Indication type
E = Electrical differential pressure indicator
H = Differential pressure visual pop-up indicator
J = No differential pressure indicator

Port size
1 = 1/8 (651 Series)
2 = 1/4 (651 or 652 Series)
3 = 3/8 (652 Series)
4 = 1/2 (652 Series)
5 = 3/4 (653 Series)
6 = 1 (653 Series)

Configurator - CAD Files

All leaflets are available on: www.asco.com

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10 - Air Preparation
Coalescing Filter Flow Charts

651 Filter | 0.3µ Filtration | 1/8 Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

651 Filter | 0.3µ Filtration | 1/4 Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

652 Coalescing Filter | 0.3µ Filtration | 1/4 Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

652 Coalescing Filter | 0.3µ Filtration | 3/8 Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

652 Coalescing Filter | 0.3µ Filtration | 1/2 Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

652 Coalescing Filter | 0.3µ Filtration | 7/8 Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

653 Coalescing Filter | 0.3µ Filtration | 1" Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

653 Coalescing Filter | 0.3µ Filtration | 1½" Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

653 Coalescing Filter | 0.3µ Filtration | 2½" Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)

653 High Flow Coalescing Filter | 0.3µ Filtration | 1" Ports
Flow - Q (l/min ANR)
Pressure Drop - ∆P (bar)