Series AMD can separate and remove aerosol state oil mist in compressed air and remove carbon or dust of more than 0.01 µm. It should be used as prefilter of compressed air for precision instruments or clean room required for higher clean air.

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>AMD150</th>
<th>AMD250</th>
<th>AMD350</th>
<th>AMD450</th>
<th>AMD550</th>
<th>AMD650</th>
<th>AMD850</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated flow (l/min (ANR))</td>
<td>200</td>
<td>500</td>
<td>1000</td>
<td>2000</td>
<td>3500</td>
<td>6000</td>
<td>12000</td>
</tr>
<tr>
<td>Port size (Nominal size B)</td>
<td>⅜, ⅝, ⅞</td>
<td>⅜, ⅝, ⅞</td>
<td>⅜, ⅝, ⅞</td>
<td>⅜, ⅝, ⅞</td>
<td>⅝, ⅞</td>
<td>⅞, ⅑</td>
<td>⅛, ⅜</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.38</td>
<td>0.55</td>
<td>0.9</td>
<td>1.4</td>
<td>2.1</td>
<td>4.2</td>
<td>10.5</td>
</tr>
</tbody>
</table>

**Note:** Max. flow capacity at a pressure of 0.7 MPa. Max. flow varies depending on operating pressure. Refer to "Flow Characteristics" (page 14-20-24) and figure of "Max. Air Flow" (page 14-20-23).

### Model/Self-standing Type

<table>
<thead>
<tr>
<th>Model</th>
<th>AMD800</th>
<th>AMD900</th>
<th>AMD1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated flow (l/min (ANR))</td>
<td>8000</td>
<td>24000</td>
<td>40000</td>
</tr>
<tr>
<td>Port size (Nominal size B)</td>
<td>2&quot; flange</td>
<td>2&quot;, 3&quot;, 4&quot; flange</td>
<td>4&quot;, 6&quot; flange</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>100</td>
<td>220</td>
<td>430</td>
</tr>
</tbody>
</table>

### Model/Piping Support Type

<table>
<thead>
<tr>
<th>Model</th>
<th>AMD801</th>
<th>AMD901</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated flow (l/min (ANR))</td>
<td>8000</td>
<td>24000</td>
</tr>
<tr>
<td>Port size (Nominal size B)</td>
<td>2&quot; flange</td>
<td>2&quot;, 3&quot;, 4&quot; flange</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>50</td>
<td>140</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Compressed air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. operating pressure</td>
<td>1.0 MPa</td>
</tr>
<tr>
<td>Min. operating pressure</td>
<td>0.05 MPa</td>
</tr>
<tr>
<td>Proof pressure</td>
<td>1.5 MPa</td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>5 to 60°C</td>
</tr>
<tr>
<td>Filtration</td>
<td>0.01 µm (95% particle size collection)</td>
</tr>
<tr>
<td>Oil mist removal rate</td>
<td>Max. 0.1 mg/m³ (ANR) (At saturation of element oil, less than 0.01 mg/m³ (ANR) = 0.008 ppm)</td>
</tr>
<tr>
<td>Element life</td>
<td>2 years or when pressure drop reaches 0.1 MPa</td>
</tr>
</tbody>
</table>

**Note 1:** 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type) in the case of types with auto-drain.

**Note 2:** At oil mist density of 30 mg/m³ ANR is blown out by compressor.

Refer to "Made to Order Specifications" on page 14-20-55.

### Accessory (Option)

| Bracket assembly With cap bolt and spring washer | BM51 | BM52 | BM53 | BM54 | BM55 | BM56 | BM57 |

**Caution**

Be sure to read before handling. Refer to pages 14-21-3 to 4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, pages 14-14-6 to 8 for Precautions on every series, and pages 14-20-62 to 64 for more detailed precautions on every series.
How to Order

<table>
<thead>
<tr>
<th>AMD</th>
<th>250</th>
<th>B</th>
<th>J</th>
</tr>
</thead>
</table>

Body size

- 150: 1/8 Standard
- 250: 1/4 Standard
- 350: 3/8 Standard
- 450: 1/2 Standard
- 550: 3/4 Standard
- 650: 1 Standard
- 850: 1 1/2 Standard

Thread type

- Nil
- Rc
- F
- G
- N
- NPT

Port size

- 01: 1/8
- 02: 1/4
- 03: 3/8
- 04: 1/2
- 05: 3/4
- 06: 1
- 10: 1
- 14: 1 1/2
- 20: 2

Option

- J: Drain guide 1/4" female thread
- R: IN-OUT reversal direction
- T: Element service indicator

Accessory (Option) *

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Bracket</td>
</tr>
<tr>
<td>C</td>
<td>N.C. auto-drain</td>
</tr>
<tr>
<td>D</td>
<td>N.O. auto-drain</td>
</tr>
</tbody>
</table>

* Refer to the table below for accessory/option combinations.

Note) Refer to “How to Order Bowl Assembly” on page 14-20-59.

Accessory/Option Combinations

<table>
<thead>
<tr>
<th>Accessory (Option)</th>
<th>Accessory</th>
<th>Description</th>
<th>Applicable model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C</td>
<td>N.C. auto-drain</td>
<td>AMD150 AMD250 AMD350 AMD450 AMD550 AMD650 AMD850</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>N.O. auto-drain</td>
<td>AMD150 AMD250 AMD350 AMD450 AMD550 AMD650 AMD850</td>
</tr>
<tr>
<td></td>
<td>J</td>
<td>Drain guide 1/4&quot; female thread</td>
<td>AMD150 AMD250 AMD350 AMD450 AMD550 AMD650 AMD850</td>
</tr>
<tr>
<td></td>
<td>R</td>
<td>IN-OUT reversal direction</td>
<td>AMD150 AMD250 AMD350 AMD450 AMD550 AMD650 AMD850</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>Element service indicator</td>
<td>AMD150 AMD250 AMD350 AMD450 AMD550 AMD650 AMD850</td>
</tr>
</tbody>
</table>

Self-standing type AMD800 to AMD1000

<table>
<thead>
<tr>
<th>AMD</th>
<th>800</th>
<th>20</th>
</tr>
</thead>
</table>

Body size

- 8
- 9
- 10

Type

- 00: With manual drain cock
- 10: With auto-drain

Port size

- 20: 2" flange
- 30: 3" flange
- 40: 4" flange

Piping support type AMD801/901

<table>
<thead>
<tr>
<th>AMD</th>
<th>801</th>
<th>20</th>
</tr>
</thead>
</table>

Body size

- 8

Type

- 01: With manual drain cock
- 11: With auto-drain

Port size

- 20: 2" flange
- 30: 3" flange
- 40: 4" flange

Model Selection

Select the model in accordance with the following procedure taking the inlet pressure and max. air flow into consideration.

(Example) Inlet pressure: 0.6 MPa
Max. air flow capacity: 5 m³/min (ANR)

1. Select the point of contact A of inlet pressure and max. air capacity in the graph.
2. AMD650 is obtained when the max. flow line is above the point of intersection A in the graph.

Note) Make sure to select a model that has the maximum flow rate line above the obtained intersecting point. With a model that has the maximum flow rate line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.
Flow Characteristics/Select the model taking the max. flow capacity into consideration. Element oil saturation - Initial condition

Note) Compressed air over max. flow line in the table below may not meet the specifications of the product. It may cause damage to the element.

<table>
<thead>
<tr>
<th>Element oil saturation</th>
<th>Initial condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>1</td>
<td>2AMD450 AMD150 AMD550 AMD900/901</td>
</tr>
<tr>
<td>4B1B</td>
<td>350 AMD800/801</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Series AMD</th>
<th>Max. flow line</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD150</td>
<td></td>
</tr>
<tr>
<td>AMD250</td>
<td></td>
</tr>
<tr>
<td>AMD350</td>
<td></td>
</tr>
<tr>
<td>AMD450</td>
<td></td>
</tr>
<tr>
<td>AMD550</td>
<td></td>
</tr>
<tr>
<td>AMD650</td>
<td></td>
</tr>
<tr>
<td>AMD800/801</td>
<td></td>
</tr>
<tr>
<td>AMD900/901</td>
<td></td>
</tr>
<tr>
<td>AMD100</td>
<td></td>
</tr>
</tbody>
</table>

Pressure drop (MPa)

Air flow rate (l/min (ANR))

Pressure drop (MPa)

Air flow rate (m³/min (ANR))

Series AMD

14-20-24
**Construction**

**AMD150 to AMD650**

![Diagram of AMD150 to AMD650](image1)

**Element assembly:** With gasket and O-ring

**Replacement Parts**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Aluminum die-cast</td>
<td>Chrome treated</td>
</tr>
<tr>
<td>2</td>
<td>Housing</td>
<td>Aluminum die-cast</td>
<td>Epoxy coating on inner surface</td>
</tr>
<tr>
<td>3</td>
<td>Sight glass</td>
<td>Tempered glass</td>
<td></td>
</tr>
</tbody>
</table>

*AMD850 is aluminum casted.

**Component Parts**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>SGP-E, SS400</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Sight glass</td>
<td>SGP-E, SS400</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Element</td>
<td>SGP-E, SS400</td>
<td></td>
</tr>
</tbody>
</table>

**AMD800 to 1000**

![Diagram of AMD800 to 1000](image2)

**Element**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Filter case</td>
<td>SGP-E, SS400</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cover</td>
<td>SS400</td>
<td></td>
</tr>
</tbody>
</table>

**Replacement Parts**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Element</td>
<td>NBR</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Packing</td>
<td>NBR</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Packing</td>
<td>NBR</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Gasket</td>
<td>V#6500</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>O-ring</td>
<td>NBR</td>
<td></td>
</tr>
</tbody>
</table>

**AMD880/900/1000 AMD801/901**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Filter case</td>
<td>SGP-E, SS400</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cover</td>
<td>SS400</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Refer to page 14-20-59 for “How to Order Bowl Assembly”.

**Note:** Sight glass is indicated in the figure above for easy understanding of parts, however mounting position is different. Refer to dimensions on pages 14-20-26 to 14-20-27 for details.

**AMD850 is aluminum casted.**
### Series AMD

#### AMD150 to AMD650 Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Port size (Nominal size B)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Dimensions with mounting bracket</th>
<th>Element service indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H</td>
<td>I</td>
<td>J</td>
<td>K</td>
<td>L</td>
<td>M</td>
<td>N</td>
<td>O</td>
<td>P</td>
</tr>
<tr>
<td>AMD150</td>
<td>⅛, ⅛, ⅛</td>
<td>159</td>
<td>13</td>
<td>100</td>
<td>63</td>
<td>20</td>
<td>63</td>
<td>10</td>
<td>166</td>
<td>56</td>
</tr>
<tr>
<td>AMD250</td>
<td>⅛, ⅛</td>
<td>172</td>
<td>13</td>
<td>113</td>
<td>76</td>
<td>20</td>
<td>76</td>
<td>10</td>
<td>187</td>
<td>66</td>
</tr>
<tr>
<td>AMD350</td>
<td>⅛, ⅛</td>
<td>178</td>
<td>16</td>
<td>119</td>
<td>76</td>
<td>20</td>
<td>76</td>
<td>10</td>
<td>187</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>⅜, ⅜</td>
<td>204</td>
<td>16</td>
<td>145</td>
<td>90</td>
<td>20</td>
<td>90</td>
<td>10</td>
<td>218</td>
<td>80</td>
</tr>
<tr>
<td></td>
<td>⅜, ⅜</td>
<td>210</td>
<td>19</td>
<td>151</td>
<td>90</td>
<td>20</td>
<td>90</td>
<td>10</td>
<td>218</td>
<td>80</td>
</tr>
<tr>
<td>AMD450</td>
<td>⅜, ⅜</td>
<td>225</td>
<td>19</td>
<td>166</td>
<td>106</td>
<td>20</td>
<td>106</td>
<td>10</td>
<td>241</td>
<td>90</td>
</tr>
<tr>
<td>AMD550</td>
<td>⅜, ⅜</td>
<td>232</td>
<td>22</td>
<td>173</td>
<td>106</td>
<td>20</td>
<td>106</td>
<td>10</td>
<td>241</td>
<td>90</td>
</tr>
<tr>
<td>AMD650</td>
<td>⅜, ⅜</td>
<td>259</td>
<td>22</td>
<td>200</td>
<td>122</td>
<td>20</td>
<td>122</td>
<td>10</td>
<td>277</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>⅛, ⅛</td>
<td>311</td>
<td>32</td>
<td>253</td>
<td>160</td>
<td>20</td>
<td>160</td>
<td>10</td>
<td>334</td>
<td>150</td>
</tr>
</tbody>
</table>
**Micro Mist Separator Series AMD**

### AMD850 Dimensions

**Accessory**
D: With auto-drain (N.O.) for AMD850

**Option**
T: With element service indicator

---

### Micro Mist Separator Series AMD

**HA**
**AT**
**ID**
**AMG**
**AFF**
**AM**
**Misc.**

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Port size (Nominal size B)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Dimensions with mounting bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD850</td>
<td>1 1/2, 2</td>
<td>460.5</td>
<td>42</td>
<td>348</td>
<td>220</td>
<td>57.5</td>
<td>220</td>
<td>10</td>
<td>H: 463.5, I: 180, J: 30, K: 15, L: 24, M: 13, N: 120, O: 164, P: 220, Q: 110, R: 18, S: 6</td>
</tr>
</tbody>
</table>

---

**Dimensions with mounting bracket**

**Micro Mist Separator Series AMD**

---

**Accessibility**

**Auto-drain**

**Element service indicator**

---

**Model**

**Port size**

**Dimensions**

---

**Bracket**

**Drain**

**Maintenance space**

---

**Diameter**

**Height**

---

**SMC**

---

**14-20-27**
Series AMD

AMD801/901/800/900/1000 Dimensions

### AMD801/901

![Diagram of AMD801/901](image1)

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection (Flange)</th>
<th>A</th>
<th>øB</th>
<th>øC</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD801</td>
<td>2B</td>
<td>400</td>
<td>280</td>
<td>60</td>
<td>760</td>
<td>150</td>
<td>270</td>
<td>1033</td>
<td>3</td>
<td>887</td>
</tr>
<tr>
<td>AMD901</td>
<td>2B, 3B, 4B</td>
<td>620</td>
<td>445</td>
<td>12B</td>
<td>795</td>
<td>300</td>
<td>520</td>
<td>1318</td>
<td>3</td>
<td>972</td>
</tr>
</tbody>
</table>

### AMD800/900/1000

![Diagram of AMD800/900/1000](image2)

<table>
<thead>
<tr>
<th>Model</th>
<th>Connection (Flange)</th>
<th>A</th>
<th>øB</th>
<th>øC</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>Anchor bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD800</td>
<td>2B, 3B</td>
<td>500</td>
<td>300</td>
<td>8B</td>
<td>300</td>
<td>1300</td>
<td>1430</td>
<td>1520</td>
<td>20</td>
<td>M16 x 400</td>
</tr>
<tr>
<td>AMD900</td>
<td>2B, 3B, 4B</td>
<td>720</td>
<td>560</td>
<td>400</td>
<td>300</td>
<td>1320</td>
<td>1480</td>
<td>1585</td>
<td>24</td>
<td>M20 x 500</td>
</tr>
<tr>
<td>AMD1000</td>
<td>4B, 6B</td>
<td>870</td>
<td>745</td>
<td>550</td>
<td>300</td>
<td>1380</td>
<td>1610</td>
<td>1740</td>
<td>24</td>
<td>M20 x 500</td>
</tr>
</tbody>
</table>

Please refer to Made to Order Specifications of Series AMD on pages 14-20-55 to 14-20-57.
Safety Instructions

These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by labels of "Caution", "Warning" or "Danger". To ensure safety, be sure to observe ISO 4414 Note 1), JIS B 8370 Note 2) and other safety practices.

⚠️ Caution : Operator error could result in injury or equipment damage.

⚠️ Warning : Operator error could result in serious injury or loss of life.

⚠️ Danger : in extreme conditions, there is a possible result of serious injury or loss of life.

Note 1) ISO 4414: Pneumatic fluid power--General rules relating to systems.
Note 2) JIS B 8370: General Rules for Pneumatic Equipment

⚠️ Warning

1. The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.
   Since the products specified here are used in various operating conditions, their compatibility for the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements. The expected performance and safety assurance will be the responsibility of the person who has determined the compatibility of the system. This person should continuously review the suitability of all items specified, referring to the latest catalog information with a view to giving due consideration to any possibility of equipment failure when configuring a system.

2. Only trained personnel should operate pneumatically operated machinery and equipment.
   Compressed air can be dangerous if an operator is unfamiliar with it. Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

3. Do not service machinery/equipment or attempt to remove components until safety is confirmed.
   1. Inspection and maintenance of machinery/equipment should only be performed once measures to prevent falling or runaway of the driver objects have been confirmed.
   2. When equipment is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for this equipment and exhaust all residual compressed air in the system.
   3. Before machinery/equipment is restarted, take measures to prevent shooting-out of cylinder piston rod, etc.

4. Contact SMC if the product is to be used in any of the following conditions:
   1. Conditions and environments beyond the given specifications, or if product is used outdoors.
   2. Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverages, recreation equipment, emergency stop circuits, clutch and brake circuits in press applications, or safety equipment.
   3. An application which has the possibility of having negative effects on people, property, or animals, requiring special safety analysis.
## Selection

### Warning

1. **Confirm the specifications.**
   
   Products represented in this catalog are designed for use in compressed air applications only (including vacuum), unless otherwise indicated.
   
   Do not use the product outside their design parameters.
   
   Please contact SMC when using the products in applications other than compressed air (including vacuum).

## Operating Environment

### Warning

1. **Do not use in environments where the product is directly exposed to corrosive gases, chemicals, salt water, water or steam.**
2. **Do not expose the product to direct sunlight for an extended period of time.**
3. **Do not use in a place subject to heavy vibrations and/or shocks.**
4. **Do not mount the product in locations where it is exposed to radiant heat.**

## Maintenance

### Warning

1. **Maintenance procedures are outlined in the operation manual.**
   
   Not following proper procedures could cause the product to malfunction and could lead to damage to the equipment or machine.
2. **Maintenance work**
   
   If handled improperly, compressed air can be dangerous. Assembly, handling and repair of pneumatic systems should be performed by qualified personnel only.
3. **Drain flushing**
   
   Remove drainage from air filters regularly. (Refer to the specifications.)
4. **Shut-down before maintenance**
   
   Before attempting any kind of maintenance make sure the supply pressure is shut off and all residual air pressure is released from the system to be worked on.
5. **Start-up after maintenance and inspection**
   
   Apply operating pressure and power to the equipment and check for proper operation and possible air leaks. If operation is abnormal, please verify product set-up parameters.
6. **Do not make any modifications to the product.**
   
   Do not take the product apart.

## Piping

### Caution

1. **Before piping**
   
   Make sure that all debris, cutting oil, dust, etc. are removed from the piping.
2. **Wrapping of pipe tape**
   
   When screwing piping or fittings into ports, ensure that chips from the pipe threads or sealing material do not get inside the piping. Also, when the pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.

## Air Supply

### Warning

1. **Operating fluid**
   
   Please consult with SMC when using the product in applications other than compressed air (including vacuum).
   
   Regarding products for general fluid, please ask SMC about applicable fluids.
2. **Install an air dryer, aftercooler, etc.**
   
   Excessive condensate in a compressed air system may cause valves and other pneumatic equipment to malfunction.
   
   Installation of an air dryer, after cooler etc. is recommended.
3. **Drain flushing**
   
   If condensate in the drain bowl is not emptied on a regular basis, the bowl will over flow and allow the condensate to enter the compressed air lines.
   
   If the drain bowl is difficult to check and remove, it is recommended that a drain bowl with the auto-drain option be installed.
   
   For compressed air quality, refer to “Air Preparation Equipment” catalog.
4. **Use clean air**
   
   If the compressed air supply is contaminated with chemicals, synthetic materials, corrosive gas, etc., it may lead to breakdown or malfunction.

## Mounting

### Warning

1. **Instruction manual**
   
   Install the products and operate them only after reading the instruction manual carefully and understanding its contents.
   
   Also keep the manual where it can be referred to as necessary.
2. **Securing the space for maintenance**
   
   When installing the products, please allow access for maintenance.
3. **Tightening torque**
   
   When installing the products, please follow the listed torque specifications.
Quality Assurance Information (ISO 9001, ISO 14001)

Reliable quality of products in the global market

To enable our customers throughout the world to use our products with even greater confidence, SMC has obtained certification for international standards “ISO 9001” and “ISO 14001”, and created a complete structure for quality assurance and environmental controls. SMC products pursue to meet its customers' expectations while also considering company's contribution in society.

Quality management system
ISO 9001
This is an international standard for quality control and quality assurance. SMC has obtained a large number of certifications in Japan and overseas, providing assurance to our customers throughout the world.

Environmental management system
ISO 14001
This is an international standard related to environmental management systems and environmental inspections. While promoting environmentally friendly automation technology, SMC is also making diligent efforts to preserve the environment.
The CE mark indicates that machines and components meet essential requirements of all the EC Directives applied. It has been obligatory to apply CE marks indicating conformity with EC Directives when machines and components are exported to the member Nations of the EU. Once “A manufacturer himself” declares a product to be safe by means of CE marking (declaration of conformity by manufacturer), free distribution inside the member Nations of the EU is permissible.

- **CE Mark**
  SMC provides CE marking to products to which EMC and Low Voltage Directives have been applied, in accordance with CETOP (European hydraulics and pneumatics committee) guidelines.

- **As of February 1998, the following 18 countries will be obliged to conform to CE mark legislation**
  Iceland, Ireland, United Kingdom, Italy, Austria, Netherlands, Greece, Liechtenstein, Sweden, Spain, Denmark, Germany, Norway, Finland, France, Belgium, Portugal, Luxembourg

- **EC Directives and Pneumatic Components**
  - **Machinery Directive**
    The Machinery Directive contains essential health and safety requirements for machinery, as applied to industrial machines e.g. machine tools, injection molding machines and automatic machines. Pneumatic equipment is not specified in Machinery Directive. However, the use of SMC products that are certified as conforming to EN Standards, allows customers to simplify preparation work of the Technical Construction File required for a Declaration of Conformity.
  
  - **Electromagnetic Compatibility (EMC) Directive**
    The EMC Directive specifies electromagnetic compatibility. Equipment which may generate electromagnetic interference or whose function may be compromised by electromagnetic interference is required to be immune to electromagnetic affects (EMS/immunity) without emitting excessive electromagnetic affects (EMI/emission).
  
  - **Low Voltage Directive**
    This directive is applied to products, which operate above 50 VAC to 1000 VAC and 75 VDC to 1500 VDC operating voltage, and require electrical safety measures to be introduced.
  
  - **Simple Pressure Vessels Directive**
    This directive is applied to welded vessels whose maximum operating pressure (PS) and volume of vessel (V) exceed 50 bar/L. Such vessels require EC type examination and then CE marking.
SMC Product Conforming to International Standards

national Standards

you to comply with EC directives and CSA/UL standards.

CSA Standards & UL Standards

UL and CSA standards have been applied in North America (U.S.A. and Canada) symbolizing safety of electric products, and are defined to mainly prevent danger from electric shock or fire, resulting from trouble with electric products. Both UL and CSA standards are acknowledged in North America as the first class certifying body. They have a long experience and ability for issuing product safety certificate. Products approved by CSA or UL standards are accepted in most states and governments beyond question. Since CSA is a test certifying body as the National Recognized Testing Laboratory (NRTL) within the jurisdiction of Occupational Safety and Health Administration (OSHA), SMC was tested for compliance with CSA Standards and UL Standards at the same time and was approved for compliance with the two Standards. The above CSA NRTL/C logo is described on a product label in order to indicate that the product is approved by CSA and UL Standards.

TSSA (MCCR) Registration Products

TSSA is the regulation in Ontario State, Canada. The products that the operating pressure is more than 5 psi (0.03 MPa) and the piping size is bigger than 1 inch. fall into the scope of TSSA regulation.

Products conforming to CE Standard

With CE symbol for simple visual recognition

In this catalog each accredited product series is indicated with a CE mark symbol. However, in some cases, every available models may not meet CE compliance. Please visit our web site for the latest selection of available models with CE mark.

http://www.smcworld.com
SMC’s Global Service Network

America

U.S.A. SMC Corporation of America
3011 North Franklin Road Indianapolis, IN 46226, U.S.A.
TEL: 317-899-4440 FAX: 317-899-3102

CANADA SMC Pneumatics (Canada) Ltd.
6768 Financial Drive Mississauga, Ontario, L5N 7J6 Canada
TEL: 905-812-0400 FAX: 905-812-8686

MEXICO SMC Corporation (Mexico), S.A. DE C.V.
Carr. Silao-Trejo K.M. 2.5 S/N, Predio San Jose del Duranzo
C.P. 36100, Silao, Gto., Mexico

CHILE SMC Pneumatics (Chile) S.A.
Av. La Montaña 1,115 km. 16.5 P. Norte Parque
Industrial Valle Grande, Lampa Santiago, Chile
TEL: 02-270-8600 FAX: 02-270-8601

ARGENTINA SMC Argentina S.A.
Teodoro Garcia 3860 (1427) Buenos Aires, Argentina
TEL: 011-4555-5762 FAX: 011-4555-5762

BOLIVIA SMC Pneumatics Bolivia S.R.L.
Avenida Beni Numero 4665
Santa Cruz de la Sierra-Casilla de Correo 2281, Bolivia
TEL: 591-3-3428383 FAX: 591-3-3499900

VENezUELA SMC Neumatica Venezuela S.A.
Apartado 40152, Avenida Nueva Granada, Edificio Waniac,
Local 5, Caracas 1040-A, Venezuela
TEL: 2-632-1310 FAX: 2-632-3871

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Galicia 1650 esq. Gabato C.P. 11200, Montevideo, Uruguay
TEL: 2-401-6603 FAX: 2-409-4306

BRAZIL SMC Pneumaticos Do Brasil Ltda.
Rua. Dra. Maria Fidelis, nr. 130, Jardim Pirapora-Diadema-S.P.
CEP: 09900-350, Brasil
TEL: 11-4001-1177 FAX: 11-4071-6636

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Calle 18 69-05 Apart. Aereo 081045 Santa Fe de Bogota, Colombia
TEL: 1-424-9240 FAX: 1-424-9260

Europe

U.K. SMC Pneumatics (U.K.) Ltd.
Vincent Avenue, Crowhill, Milton Keynes, MK9 0AN, Backinghamshire, U.K.
TEL: 01908-563888 FAX: 01908-561185

GERMANY SMC Pneumatik GmbH
Bosching 13-15 D-63329 Egelsbach, Germany
TEL: 06103-4020 FAX: 06103-402139

ITALY SMC Italia S.p.A.
Via Garibaldi 62 I-20061 Carugate Milano, Italy
TEL: 02-9271365 FAX: 02-9271366

FRANCE SMC Pneumatique S.A.
1 Boulevard de Strasbourg, Parc Gustave Eiffel, Bussy Saint Georges, F-77600
Marne La Vallee Cedex 3 France
TEL: 01-64-76-10-00 FAX: 01-64-76-10-10

SWEDEN SMC Pneumatics Sweden AB
Ekshagsvägen 29-31, S-141 05 Huddinge, Sweden
TEL: 08-603-07-00 FAX: 08-603-07-10

SWITZERLAND SMC Pneumatik AG
Dorfstrasse 7, Postfach 117, CH-8446 Weislingen, Switzerland
TEL: 052-396-3131 FAX: 052-396-3191

AUSTRIA SMC Pneumatik GmbH (Austria)
Girakstrasse 8, A-2100 Korneuburg, Austria
TEL: 0-2262-6228-0 FAX: 0-2262-62285

SPAIN SMC España, S.A.
Zuazobidea 14 Pol. Ind. Jundiz 01015 Vitoria, Spain
TEL: 945-184-100 FAX: 945-184-510

IRELAND SMC Pneumatics (Ireland) Ltd.
2002 Citywest Business Campus, Naas Road, Saggart, Co. Dublin, Ireland
TEL: 01-403-9000 FAX: 01-466-0385

NETHERLANDS (Associated company) SMC Pneumatics BV
De Ruyterkade 120, NL-1011 AB Amsterdam, Netherlands
TEL: 020-5318888 FAX: 020-5318880

GREECE (Distributor) S.Parianopoulos S.A.
7, Konstantinoupoleos Street 11655 Athens, Greece
TEL: 01-3426076 FAX: 01-3455578

DENMARK SMC Pneumatik A/S
Knudsminde 4 B DK-8300
Odder, Denmark
TEL: 70252900 FAX: 70252901
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Europe

FINLAND SMC Pneumatics Finland OY
PL72, Tiestinnytynre 4, SF-02231 Espoo, Finland
Tél: 09-8595-80  Fax: 09-8595-8595

NORWAY SMC Pneumatics Norway A/S
Vollveien 13C, Granfoss Næringspark N-1366 LYSAKER, Norway
Tél: 67-12-90-20  Fax: 67-12-90-21

BELGIUM (Distributor) SMC Pneumatics N.V./S.A.
Nijverheidsstraat 20 B-2160 Wommelgem Belgium
Tél: 03-355-1464  Fax: 03-355-1466

POLAND SMC Industrial Automation Polska Sp.z.o.o.
ul. Konstruktoroka 11A, PL-02-673 Warszawa, Poland
Tél: 22-548-5085  Fax: 22-548-5087

TURKEY (Distributor) Entek Pnömatik San. ve Tic. Ltd. Sti
Perpa Tic. Merkezi Kat:11 No.1625 80270 Okmeydani İstanbul, Türkiye
Tél: 0212-221-1512  Fax: 0212-221-1519

RUSSIA SMC Pneumatik LLC.
36/40 Sredny prospect V.O. St. Petersburg 199004, Russia
Tél: 812-118-5445  Fax: 812-118-5449

CZECH SMC Industrial Automation CZ s.r.o.
Hudcova 78a, CZ-61200 Brno, Czech Republic
Tél: 05-4121-8034  Fax: 05-4121-8034

HUNGARY SMC Hungary Ipari Automatizálási kft.
Budafoki ut 107-113 1117 Budapest
Tél: 01-371-1343  Fax: 01-371-1344

ROMANIA SMC Romania S.r.l.
Str. Franzel, Nr. 29, Sector 2, Bucharest, Romania
Tél: 01-3205111  Fax: 01-3205119

SLOVAKIA SMC Priemyselná automatizácia, s.r.o.
Nová 3, SK-83103 Bratislava
Tél: 02-4445-6275  Fax: 02-4445-6228

SLOVENIA SMC Industrijska Avtomatilca d.o.o.
Grajski trg 15, SLO-8660 Zuzemberk, Slovenia
Tél: 07388-5240  Fax: 07388-5249

LATVIA SMC Pneumatics Latvija SIA
Šmērļa iel. 1-705, Rīga LV-1006
Tél: 777 94 74  Fax: 777 94 75

SOUTH AFRICA (Distributor) Hyflo Southern Africa (Pty.) Ltd.
P.O.Box 240 Paardenlaand 7420 South Africa
Tél: 021-511-7021  Fax: 021-511-4456

EGYPT (Distributor) Saadani Trading & Ind. Services
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Tél: 3-548-50-34  Fax: 3-548-50-34

Oceania/Asia

AUSTRALIA SMC Pneumatics (Australia) Pty., Ltd.
14-18 Hudson Avenue Castle Hill NSW 2154, Australia
Tél: 02-9354-8222  Fax: 02-9894-5719

NEW ZEALAND SMC Pneumatics (New Zealand) Ltd.
8C Sylvia Park Road Mt.Wellington Auckland, New Zealand
Tél: 09-573-7002  Fax: 09-573-7002

TAIWAN SMC Pneumatics (Taiwan) Co., Ltd.
17, Lane 205, Nansan Rd., Sec.2, Luzhu-Hsian, Taoyuan-Hsien, TAIWAN
Tél: 03-322-3443  Fax: 03-322-3387

HONG KONG SMC Pneumatics Hong Kong) Ltd.
2F/F, Clifford Centre, 778-784 Cheung, Sha Wan Road, Lai Chi Kok, Kowloon, Hong Kong
Tél: 2744-0121  Fax: 2785-1314

SINGAPORE SMC Pneumatics (S.E.A.) Pte. Ltd.
89 Tuas Avenue 1, Jurong Singapore 639520
Tél: 6861-0888  Fax: 6861-1889

PHILIPPINES SHOKETSU SMC Corporation
Unit 201 Common Goal Tower, Madrigal Business Park, Ayala Alabang Muntinlupa, Philippines
Tél: 02-8090565  Fax: 02-8090586

Lot 36 Jalan Delima1/1, Subang Hi-Tech Industrial Park, Batu 3 40000 Shah Alam Selangor, Malaysia
Tél: 03-56350590  Fax: 03-56350602

SOUTH KOREA SMC Pneumatics Korea Co., Ltd.
Woolim e-BIZ Center (Room 1008), 170-5, Guro-Ong, Guro-Gu, Seoul, 152-050, South Korea
Tél: 02-3219-0700  Fax: 02-3219-0702

CHINA SMC (China) Co., Ltd.
7 Wan Yuan St. Beijing Economic & Technological Development Zone 100176, China
Tél: 010-67882111  Fax: 010-67881837

THAILAND SMC Thailand Ltd.
1346 Moo 5, Tiwanon Road, Bangkadi, Amphur Muang, Pathumthani 12000, Thailand
Tél: 02-963-7099  Fax: 02-501-2937

INDIA SMC Pneumatics (India) Pvt. Ltd.
D-107 to 112, Phase-2, Extension, Noida, Dist. Gautam Budh Nagar, U.P., 201 305, India
Tél: (0120)-4568730  Fax: 0120-4568933

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Tél: 021-625-5458  Fax: 021-625-5886

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Tél: 02-6761574  Fax: 02-6708173

14-21-21
Can separate and remove aerosol state oil mist in compressed air and remove particles such as carbon or dust of more than 0.01 μm.

Use this product as a pre-filter for compressed air for precision instruments or clean room requiring higher clean air.

Modular connection is possible with AMD150C to 550C. (For details, refer to page 61.)

**Specifications**

- **Fluid**: Compressed air
- **Max. operating pressure**: 1.0 MPa
- **Min. operating pressure**: 0.05 MPa
- **Proof pressure**: 1.5 MPa
- **Ambient and fluid temperature**: 5 to 60°C
- **Nominal filtration rating**: 0.01 μm (Filtration efficiency: 99.9%)
- **Oil mist density at outlet**: Max. 0.1 mg/m³ (ANR)
  (Before saturated with oil, less than 0.01 mg/m³ (ANR) = 0.008 ppm)
- **Element life**: 2 years (1 year for flange type)
  or when pressure drop reached 0.1 MPa

- With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)
- Oil mist density at 30 mg/m³ (ANR) blown out by compressor.

**Accessory**

- **Applicable model**
  - AMD150C
  - AMD250C
  - AMD350C
  - AMD450C
  - AMD550C
  - AMD650
  - AMD850
- **Bracket assembly (with 2 mounting screws)**
  - AM-BM101
  - AM-BM102
  - AM-BM103
  - AM-BM104
  - AM-BM105
  - BM56
  - BM57

**Caution**

Be sure to read this before handling.

Refer to back pages 1 and 2 for Safety Instructions, “Precautions for Handling Pneumatic Devices” (M-03-E3A) for Common Precautions, and back pages 3 through to 7 for Specific Product Precautions.
**How to Order**

**Options**

**Symbol F: Rubber material: Fluororubber**
Fluororubber is used for the parts such as O-ring and gasket.

**Symbol R: IN-OUT reversal direction**
Air flow in the separator is changed to right to left. (Air flow direction of the standard: Left to right.)

**Symbol T: With element service indicator**
Saturation of the separator can be observed visually or by an electrical signal. (Element life check)

**Symbol V: Degreasing wash, white vaseline**
Body/housing is degreasing washed. The lubrication grease for O-ring and gasket is changed to white vaseline.

**Symbol H: For medium air pressure (1.6 MPa)**
Can be used up to 1.6 MPa at maximum.

**Symbol S: With differential pressure switch (with indicator)**
Saturation of the separator can be observed visually or by an electrical signal.

*The rated contact voltage is different from "U".*

Max. contact capacity: 10 VA AC, 10 W DC
Rated contact voltage (max. operating current): 125 V AC (0.08 A), 30 V DC (0.33 A)

**Symbol J: Drain guide 1/4 female threaded**
Can be piped to the drain exhaust port.

**Symbol U: With differential pressure switch (with indicator)**
Saturation of the separator can be observed visually or by an electrical signal.

*The rated contact voltage is different from "S".*

Max. contact capacity: 10 W DC
Rated contact voltage (max. operating current): 30 V DC (0.33 A)

**Auto Drain Specifications/Option Combinations**

*Available: ○ Not available ○, △: Plural options cannot be selected. (i.e. Combinations such as C-FV, D-FHV, J-ST are not possible.)

**Option**

- **Symbol F:** Rubber material: Fluororubber
- **Symbol R:** IN-OUT reversal direction
- **Symbol T:** With element service indicator
- **Symbol V:** Degreasing wash, white vaseline

**Auto Drain Specifications/Option Combinations**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>○○○○○○○○○</td>
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<tr>
<td>C</td>
<td>○○○○○○○○○</td>
</tr>
<tr>
<td>D</td>
<td>○○○○○○○○○</td>
</tr>
<tr>
<td>J</td>
<td>○○○○○○○○○</td>
</tr>
</tbody>
</table>

- **Symbol F:** Rubber material: Fluororubber
- **Symbol R:** IN-OUT reversal direction
- **Symbol T:** With element service indicator
- **Symbol V:** Degreasing wash, white vaseline

**Made to Order**

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order").

**Symbol**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>Nil</td>
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<tr>
<td>X6</td>
<td>With differential pressure gauge (GD40-2-01)</td>
</tr>
<tr>
<td>X15</td>
<td>With IN-OUT flange</td>
</tr>
<tr>
<td>X17</td>
<td>With differential pressure gauge (GD40-2-01) and IN-OUT flange</td>
</tr>
<tr>
<td>X26</td>
<td>N.C., N.O. auto drain, drain piping type</td>
</tr>
</tbody>
</table>

**Options**

- **Symbol F:** Rubber material: Fluororubber
- **Symbol R:** IN-OUT reversal direction
- **Symbol T:** With element service indicator
- **Symbol V:** Degreasing wash, white vaseline

**Auto Drain Specifications/Option Combinations**

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**Option**

- **Symbol F:** Rubber material: Fluororubber
- **Symbol R:** IN-OUT reversal direction
- **Symbol T:** With element service indicator
- **Symbol V:** Degreasing wash, white vaseline

**Auto Drain Specifications/Option Combinations**

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<tr>
<td>J</td>
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</tr>
</tbody>
</table>

- **Symbol F:** Rubber material: Fluororubber
- **Symbol R:** IN-OUT reversal direction
- **Symbol T:** With element service indicator
- **Symbol V:** Degreasing wash, white vaseline

**Auto Drain Specifications/Option Combinations**

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<th>Symbol</th>
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<td>With IN-OUT flange</td>
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<td>With differential pressure gauge (GD40-2-01) and IN-OUT flange</td>
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<td>X26</td>
<td>N.C., N.O. auto drain, drain piping type</td>
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</table>

**Options**

- **Symbol F:** Rubber material: Fluororubber
- **Symbol R:** IN-OUT reversal direction
- **Symbol T:** With element service indicator
- **Symbol V:** Degreasing wash, white vaseline
Micro Mist Separator  Series AMD

How to Order

**AMD650/850**

<table>
<thead>
<tr>
<th>Body size</th>
<th>Thread type</th>
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<tr>
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<tr>
<td>850</td>
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**Option**

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<th>Description</th>
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<tr>
<td>N</td>
<td>Drain cock (Without auto drain)</td>
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<tr>
<td>D</td>
<td>N.O. auto drain</td>
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</table>

**Port size**

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<tr>
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<th>Size 650</th>
<th>Size 850</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Accessory**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Brackets</td>
</tr>
</tbody>
</table>

**Auto drain**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Drain cock</td>
</tr>
</tbody>
</table>

**Made to Order**

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

**Free standing type AMD800/810 to 10□0**

<table>
<thead>
<tr>
<th>Body size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Model Selection**

Select a model in accordance with the following procedure taking the inlet pressure and the max. air flow rate into consideration.

(Example) Inlet pressure: 0.6 MPa

1. Obtain the intersecting point A of inlet pressure and max. air flow rate in the graph.
2. The AMD650 is obtained when the max. flow line is above the intersecting point A in the graph.

**Piping support type AMD801/811/9□1**

<table>
<thead>
<tr>
<th>Body size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Maximum Air Flow**

Note: Make sure to select a model that has the max. flow line above the obtained intersecting point. With a model that has the max. flow line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.
Flow Characteristics/Select the model taking the max. flow capacity into consideration. ( Element oil saturation Initial condition)

Note) Compressed air over max. flow line in the table below may not meet the specifications of the product. It may cause damage to the element.

<table>
<thead>
<tr>
<th>Model</th>
<th>Pressure drop (MPa)</th>
<th>Air flow rate (l/min (ANR))</th>
<th>Pressure drop (MPa)</th>
<th>Air flow rate (l/min (ANR))</th>
<th>Pressure drop (MPa)</th>
<th>Air flow rate (l/min (ANR))</th>
<th>Pressure drop (MPa)</th>
<th>Air flow rate (l/min (ANR))</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD150C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMD250C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMD350C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMD450C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMD550C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMD650</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMD80/81</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMD850</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Series AMD
Construction

AMD150C to 550C, AMD650

AMD850

Component Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Aluminum die-casted</td>
<td>Chrome treated</td>
</tr>
<tr>
<td>2</td>
<td>Housing</td>
<td>Aluminum die-casted**</td>
<td>Epoxy coating on inner surface</td>
</tr>
<tr>
<td>3</td>
<td>Sight glass</td>
<td>Tempered glass</td>
<td>—</td>
</tr>
</tbody>
</table>

* The AMD850 is aluminum casted.

Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Applicable model</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Element</td>
<td>Glass fiber, others</td>
<td>Except option F</td>
<td>AMD150C AMD250C AMD350C AMD450C AMD550C AMD650 AMD850 AMD810</td>
</tr>
<tr>
<td>2</td>
<td>Element</td>
<td>Aluminum die-casted</td>
<td>For option F</td>
<td>AMD-EL150-F AMD-EL250-F AMD-EL350-F AMD-EL450-F AMD-EL550-F AMD-EL850</td>
</tr>
</tbody>
</table>

* Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
* Refer to back page 6 for replacement of auto drain.
* Element assemblies for Made to Order (X6, X12, X15, X17, X20, X26, X37) are same as those for standard (see the above table).

AMD80/81/9/0/9/1/10/0

Component Parts/Material

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Model</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Filter case</td>
<td>SGP-E, SS400</td>
<td>AMD600/810/3010/0, AMD601/811/9/1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cover</td>
<td>SGP-E, SS400</td>
<td>AMD600/810/3010/0, AMD601/811/9/1</td>
<td></td>
</tr>
</tbody>
</table>

Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Model</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Element</td>
<td>NBR</td>
<td>63174, 63148</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Seal</td>
<td>NBR</td>
<td>0.010 x 0.09 x 0.03</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Seal</td>
<td>NBR</td>
<td>0.010 x 0.09 x 0.03</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Gasket</td>
<td>NBR</td>
<td>V-56500, AL-61S, AL-60S</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>O-ring</td>
<td>NBR</td>
<td>J8 BS401035, J8 BS401035</td>
<td></td>
</tr>
</tbody>
</table>

* Refer to "How to Order Bowl Assembly" on page 63.

Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 31 through to 34 for details.
Series AMD

Dimensions

AMD150C to 550C

Auto drain
C: With auto drain (N.C.)
D: With auto drain (N.O.)

Combination of D: With auto drain (N.O.) and H: For medium air pressure

Option
J: Drain guide 1/4 female threaded

S, U: With differential pressure switch (with indicator)

T: With element service indicator

<table>
<thead>
<tr>
<th>Model</th>
<th>Port size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Bracket related dimensions</th>
<th>Element service indicator related dimensions</th>
<th>Differential pressure switch related dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD150C</td>
<td>1/8, 1/4</td>
<td>158</td>
<td>10</td>
<td>99</td>
<td>63</td>
<td>20</td>
<td>63</td>
<td>10</td>
<td>173 56 20 5 6 6 12 6 10 35 54</td>
<td>70 26 4.5 1.6 24 37 32 41</td>
<td></td>
</tr>
<tr>
<td>AMD250C</td>
<td>1/4, 3/8</td>
<td>172</td>
<td>14</td>
<td>113</td>
<td>76</td>
<td>20</td>
<td>76</td>
<td>10</td>
<td>190 65 24 8 6 6 12 6 10 40 66</td>
<td>80 28 5 2 27 37 36 41</td>
<td></td>
</tr>
<tr>
<td>AMD350C</td>
<td>3/8, 1/2</td>
<td>204</td>
<td>18</td>
<td>145</td>
<td>90</td>
<td>20</td>
<td>90</td>
<td>10</td>
<td>222 80 28 8 7 7 14 7 12 50 80</td>
<td>95 34 5 2.3 32 37 42 41</td>
<td></td>
</tr>
<tr>
<td>AMD450C</td>
<td>1/2, 3/4</td>
<td>225</td>
<td>20</td>
<td>166</td>
<td>106</td>
<td>20</td>
<td>106</td>
<td>10</td>
<td>246 90 31 10 9 9 18 9 15 55 88</td>
<td>111 50 9 3.2 37 37 43 41</td>
<td></td>
</tr>
<tr>
<td>AMD550C</td>
<td>3/4, 1</td>
<td>259</td>
<td>24</td>
<td>200</td>
<td>122</td>
<td>20</td>
<td>122</td>
<td>15</td>
<td>278 100 33 10 9 9 18 9 15 65 102</td>
<td>126 60 10 3.2 39 37 51 41</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions (mm)

Auto drain
C: With auto drain (N.C.)
D: With auto drain (N.O.)

Combination of D: With auto drain (N.O.) and H: For medium air pressure

Option
J: Drain guide 1/4 female threaded

S, U: With differential pressure switch (with indicator)

T: With element service indicator
**Dimensions**

**AMD150C to 550C, AMD650**

<table>
<thead>
<tr>
<th>Auto drain</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>D: With auto drain (N.O.)</td>
<td>J: Drain guide 1/4 female threaded</td>
</tr>
<tr>
<td>Drain cock: Black</td>
<td>1/4 female threaded</td>
</tr>
<tr>
<td>Φ10 one-touch fitting</td>
<td></td>
</tr>
</tbody>
</table>

**Maintenance space**

**Series AMD**
Series AMD

Dimensions

AMD850

Auto drain
D: With auto drain (N.O.) for AMD850

Option
T: With element service indicator

Bracket (Accessory)

Rc 3/8 female threaded
Dimensions

**AMD801/811/9□1**

- **Model:** AMD801/811
- **Connection (Flange):** 50(2B), JIS 10K FF flange
- **Dimensions:**
  - A: 400
  - B: 280
  - C: 150(6B)
  - D: 760
  - E: 150
  - F: 270
  - G: 1033
  - H: 3
  - J: 887

**AMD9□1**

- **Model:** AMD9□1
- **Connection (Flange):** 50(2B), 80(3B), 100(4B), JIS 10K FF flange
- **Dimensions:**
  - A: 620
  - B: 445
  - C: 300(12B)
  - D: 795
  - E: 300
  - F: 520
  - G: 1318
  - H: 3
  - J: 972

**AMD800/810/9□0/10□0**

- **Model:** AMD800/810
- **Connection (Flange):** 50(2B), 80(3B), JIS 10K FF flange
- **Dimensions:**
  - A: 500
  - B: 300
  - C: 300(12B)
  - D: 1300
  - E: 1430
  - F: 1520
  - G: 1318
  - H: 3
  - J: 887
- **Anchor bolt:** M16 x 400

- **Model:** AMD9□0
- **Connection (Flange):** 50(2B), 80(3B), 100(4B), JIS 10K FF flange
- **Dimensions:**
  - A: 720
  - B: 560
  - C: 400
  - D: 1320
  - E: 1480
  - F: 1585
  - G: 1318
  - H: 3
  - J: 972
- **Anchor bolt:** M20 x 500

- **Model:** AMD10□0
- **Connection (Flange):** 100(4B), 150(6B), JIS 10K FF flange
- **Dimensions:**
  - A: 870
  - B: 745
  - C: 550
  - D: 1380
  - E: 1610
  - F: 1740
  - G: 1318
  - H: 3
  - J: 972
- **Anchor bolt:** M20 x 500
Spacer for Modular Connection

Select a spacer from those listed below when combining modular type AFF2C to 22C, AM/150C to 550C. The spacer must be ordered separately.
(Note: Spacer with bracket (Y200T to Y600T) cannot be used.)

⚠️ Caution

Modular connection
Mount the attached bracket on one side when connecting 2 sets.
Mount the attached brackets on both sides when connecting 3 sets or more.
As a guideline for the number of brackets, one bracket should be mounted for every 2 products.

Combination examples of modular applicable products

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part no.</th>
<th>Model</th>
<th>Description</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y200</td>
<td>AMH250C-□□B</td>
<td>1 pc.</td>
<td>Y300</td>
<td>AME250C</td>
<td>1 pc.</td>
</tr>
<tr>
<td>Y300</td>
<td>Y300</td>
<td>1 pc.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Arrangement example

AMH250C-□□B — 1 pc.
AME250C — 1 pc.
Y300 — 1 pc.
Spacer: Y300
Bracket:

Arrangement example

AMH250C-□□B — 1 pc.
AME250C — 1 pc.
AMF250C-□□B — 1 pc.
Y300 — 2 pcs.

Spacer

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y200</td>
<td>3</td>
<td>35.5</td>
<td>18.5</td>
<td>48</td>
<td>AFF2C, AM/150C</td>
</tr>
<tr>
<td>Y300</td>
<td>4</td>
<td>47</td>
<td>26</td>
<td>59</td>
<td>AFF4C, AM/250C</td>
</tr>
<tr>
<td>Y400</td>
<td>5</td>
<td>57</td>
<td>31</td>
<td>65</td>
<td>AFF8C, AM/350C</td>
</tr>
<tr>
<td>Y500</td>
<td>5</td>
<td>61</td>
<td>33</td>
<td>75</td>
<td>AFF11C, AM/450C</td>
</tr>
<tr>
<td>Y600</td>
<td>6</td>
<td>75.5</td>
<td>41</td>
<td>86</td>
<td>AFF22C, AM/550C</td>
</tr>
</tbody>
</table>

Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Y200</th>
<th>Y300</th>
<th>Y400</th>
<th>Y500</th>
<th>Y600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal</td>
<td>HNBR</td>
<td>Y200P-061S</td>
<td>Y300P-060S</td>
<td>Y400P-060S</td>
<td>Y500P-060S</td>
<td>Y600P-060S</td>
</tr>
</tbody>
</table>
Piping Adapter

Dimensions (mm)

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Thread type and port size</th>
<th>Male thread side A</th>
<th>Female thread side B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDF-AP609</td>
<td>R 3/8 NPT 3/8</td>
<td>30</td>
<td>15</td>
<td>22</td>
<td>Brass</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Bowl Assembly

Bowl assembly for the AFF and AM series can be replaced without removing the main body from piping if the drain exhaust specification is to be changed from the drain cock type to the auto drain type or if the bowl has been damaged.

How to Order Bowl Assembly

- **AFF2C to 22C, AM, AMD, AMH, AMG150C to 550C**

**AM-CA**

**Body size**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>150C</td>
<td>250C</td>
</tr>
<tr>
<td>350C</td>
<td>450C</td>
</tr>
<tr>
<td>550C</td>
<td></td>
</tr>
</tbody>
</table>

**Drain exhaust**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>With drain cock</td>
</tr>
<tr>
<td>C</td>
<td>With N.C. auto drain</td>
</tr>
<tr>
<td>D</td>
<td>With N.O. auto drain</td>
</tr>
<tr>
<td>J</td>
<td>With drain guide (Note 1)</td>
</tr>
</tbody>
</table>

Note 1) Drain piping and piping for a stop valve such as a ball valve are required.

- **Option**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Rubber material: Fluororubber</td>
</tr>
<tr>
<td>F</td>
<td>For medium air pressure (1.6 MPa)</td>
</tr>
<tr>
<td>H</td>
<td>Degreasing wash, white vaseline</td>
</tr>
</tbody>
</table>

- **Thread type** (Note 2)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Rc</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Note 3</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>NPT</td>
<td></td>
</tr>
</tbody>
</table>

Note 2) Corresponded to the drain exhaust symbol C, D and J. Select according to the body thread type.

Note 3) Not corresponded to the drain exhaust symbol C and D. Select no symbol when the body thread symbol is F.

**Applicable Model**

<table>
<thead>
<tr>
<th>Bowl assembly model</th>
<th>Applicable model</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM-CA150C</td>
<td>AFF2C, AM150C, AMD150C, AMH150C, AMG150C</td>
</tr>
<tr>
<td>AM-CA250C</td>
<td>AFF4C, AM250C, AMD250C, AMH250C, AMG250C</td>
</tr>
<tr>
<td>AM-CA350C</td>
<td>AFF6C, AM350C, AMD350C, AMH350C, AMG350C</td>
</tr>
<tr>
<td>AM-CA450C</td>
<td>AFF11C, AM450C, AMD450C, AMH450C, AMG450C</td>
</tr>
<tr>
<td>AM-CA550C</td>
<td>AFF22C, AM550C, AMD550C, AMH550C, AMG550C</td>
</tr>
</tbody>
</table>

- **AFF37B/75B**

**AFF-CA**

**Body size**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>37B</td>
<td>75B</td>
</tr>
</tbody>
</table>

**Drain exhaust**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>With drain cock</td>
</tr>
<tr>
<td>D</td>
<td>With N.O. auto drain</td>
</tr>
<tr>
<td>J</td>
<td>With drain guide (Note 2)</td>
</tr>
</tbody>
</table>

Note 1) Body size 75B is equipped with a ball valve (Rc3/8 female threaded). Mount a piping adapter IDF-AP609 (page 62) to the ball valve if NPT3/8 female threaded is required.

Note 2) Drain piping and piping for a stop valve such as a ball valve are required. For body size 75B, substitute with a ball valve. (symbol: A)

- **Thread type** (Note 3)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Rc</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Note 4</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>NPT</td>
<td></td>
</tr>
</tbody>
</table>

Note 3) Corresponded to the drain exhaust symbol D and J. Select according to the body thread type.

Note 4) Not corresponded to the drain exhaust symbol C and D. Select no symbol when the body thread symbol is F.

Auto Drain Specifications/Option Combinations

♂: Available ■: Not available △: Plural options cannot be selected.

(i.e. Combinations such as C-FV, D-FHV are not possible.)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>F</th>
<th>H</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>C</td>
<td>△</td>
<td>△</td>
<td>△</td>
</tr>
<tr>
<td>D</td>
<td>△</td>
<td>△</td>
<td>△</td>
</tr>
<tr>
<td>J</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>
**How to Order Bowl Assembly**

**AM, AMD, AMH, AMG Series**

**AM-CA 650-**

**AMD**

**AMH**

**AMG**

- **Body size**
  - 650
  - 850

- **Thread type** (Note 3)
  - Symbol
  - Type
  - Nil
  - Rc
  - F
  - G
  - N
  - NPT

- **Note 3** Corresponded to the drain exhaust symbol D and J. Select according to the body thread type.

- **Drain exhaust**
  - **Symbol**
    - A: With drain cock (Note 1)
    - D: With N.O. auto drain
    - J: With drain guide (Note 2)

- **Note 1** Body size 850 is equipped with a ball valve (Rc3/8 female threaded). Mount a piping adapter IDF-AP609 (page 62) to the ball valve if NPT3/8 female threaded is required.

- **Note 2** Drain piping and piping for a stop valve such as a ball valve are required. For body size 850, substitute with a ball valve. (symbol: A)

**AME, AMF150C to 550C**

**AME-CA - A -**

- **Body size**
  - 150C
  - 250C
  - 350C
  - 450C
  - 550C

- **Option** (Note)
  - Symbol
  - Description
  - Nil
  - F: Rubber material: Fluororubber
  - H: For medium air pressure (1.6 MPa)
  - V: Degreasing wash, white vaseline

- **Note** Combination of FH is not available.

**Applicable Model**

<table>
<thead>
<tr>
<th>Bowl assembly model</th>
<th>Applicable model</th>
</tr>
</thead>
<tbody>
<tr>
<td>AME-CA150C</td>
<td>AME150C, AMF150C</td>
</tr>
<tr>
<td>AME-CA250C</td>
<td>AME250C, AMF250C</td>
</tr>
<tr>
<td>AME-CA350C</td>
<td>AME350C, AMF350C</td>
</tr>
<tr>
<td>AME-CA450C</td>
<td>AME450C, AMF450C</td>
</tr>
<tr>
<td>AME-CA550C</td>
<td>AME550C, AMF550C</td>
</tr>
</tbody>
</table>

**AME, AMF650/850**

**AME-CA 650-A**

**AMF**

- **Body size**
  - 650
  - 850
Dimensions: AFF, AM, AMD, AMH, AMG Series

Size: AFF2C to 22C, AFF37B, AM☐150C to 550C, AM☐650

<table>
<thead>
<tr>
<th>AFF series</th>
<th>AM, AMD, AMG, AMH series</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2C</td>
<td>150C</td>
<td>134</td>
<td>63</td>
<td>148</td>
</tr>
<tr>
<td>4C</td>
<td>250C</td>
<td>139</td>
<td>76</td>
<td>153</td>
</tr>
<tr>
<td>8C</td>
<td>350C</td>
<td>162</td>
<td>90</td>
<td>176</td>
</tr>
<tr>
<td>11C</td>
<td>450C</td>
<td>178</td>
<td>106</td>
<td>192</td>
</tr>
<tr>
<td>22C</td>
<td>550C</td>
<td>202</td>
<td>122</td>
<td>216</td>
</tr>
<tr>
<td>37B</td>
<td>650</td>
<td>245</td>
<td>160</td>
<td>259</td>
</tr>
</tbody>
</table>

Note 1) Model no. labels are not affixed to the AM-CA150C to 550C.
Note 2) Select according to the body thread type.
Applicable tubing size for one-touch fitting
Rc: ø10
NPT: ø3/8 inch

Size: AFF75B, AM☐850

Note 1) Model no. labels are not affixed to the AM-CA150C to 550C.
Note 2) Select according to the body thread type.
Applicable tubing size for one-touch fitting
Rc: ø10
NPT: ø3/8 inch
## Compressed Air Cleaning Filter Series

### Made to Order/Special Specifications

Please consult with SMC for detailed specifications, size and delivery.

### Made to Order

<table>
<thead>
<tr>
<th>Contents</th>
<th>Symbol</th>
<th>Applicable model</th>
<th>Reference page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. With Differential Pressure Gauge (GD40-2-01)</td>
<td>X6</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.68</td>
</tr>
<tr>
<td>2. With Differential Pressure Switch (With Indicator)</td>
<td>X37</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.69</td>
</tr>
<tr>
<td>3. With IN-OUT Flange</td>
<td>X15</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.69</td>
</tr>
<tr>
<td>4. With Pressure Differential Gauge (GD40-2-01), IN-OUT Flange</td>
<td>X17</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.70</td>
</tr>
<tr>
<td>5. N.C., N.O. Auto Drain, Drain Piping Type</td>
<td>X26</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.70</td>
</tr>
<tr>
<td>6. White Vaseline Specifications</td>
<td>X12</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.70</td>
</tr>
<tr>
<td>7. Mist Separator for High Flow Rate (0.3 μm)</td>
<td>X13</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.71</td>
</tr>
</tbody>
</table>

### Special Specifications

<table>
<thead>
<tr>
<th>Contents</th>
<th>Applicable model</th>
<th>Reference page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean Series (10-Series)</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.72</td>
</tr>
<tr>
<td>Copper-free, Fluorine-free (20-Series)</td>
<td>AFF, AM, AMD, AME, AMF, AMG, AMH</td>
<td>P.72</td>
</tr>
</tbody>
</table>
Compressed Air Cleaning Filter Series
Made to Order 1
Please consult with SMC for detailed specifications, size and delivery.

1. With Differential Pressure Gauge (GD40-2-01)
A differential pressure gauge that keeps track of the filter life is installed on the filter itself. This facilitates piping and achieves a compact design.

Specifications
Applicable model
AFF2C to 22C, 37B, 75B

How to Order
AFF □ □ □ □ □ □ □ □ □ X6
Option * (Not applicable with F, H, S, T, U, V)

Port size □
Thread type □
Body size □
Accessory □
Auto drain □

Specifications
Applicable model
AM150C to 550C, 650, 850, AMD150C to 550C, 650, 850, AMH150C to 550C, 650, 850

How to Order
AM □ □ □ □ □ □ □ □ □ X6
Option * (Not applicable with F, H, S, T, U, V)

Port size □
Thread type □
Body size □
Accessory □
Auto drain □

Note) • The AMG series is not applicable since water drops could ingress inside its differential pressure gauge, resulting in malfunction or damage to the product.
• Cannot be mounted to the AME and AMF series. (It affects the cleanliness at the outlet.)

2. With Differential Pressure Switch (With indicator) (125 VAC, 30 VDC)
Allows visual confirmation of differential pressure which indicates the element life. The built-in contact enables remote control.

Specifications
Applicable model
AFF37B, 75B

How to Order
AFF □ □ □ □ □ □ □ □ □ X37
Option * (Not applicable with T)

Port size □
Thread type □
Body size □
Accessory □

Specifications
Applicable model
AM650, 850, AMD650, 850, AMH650, 850

How to Order
AM □ □ □ □ □ □ □ □ □ X37
Option * (Not applicable with T)

Port size □
Thread type □
Body size □
Accessory □

Note) • The AMG series is not applicable since water drops could ingress inside its differential pressure gauge, resulting in malfunction or damage to the product.

Dimensions

<table>
<thead>
<tr>
<th>AFF series</th>
<th>AM, AMD, AMH series</th>
<th>Port size</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>2C</td>
<td>150C</td>
<td>1/8, 1/4</td>
<td>239</td>
<td>80</td>
</tr>
<tr>
<td>4C</td>
<td>250C</td>
<td>1/4, 3/8</td>
<td>252</td>
<td>80</td>
</tr>
<tr>
<td>8C</td>
<td>350C</td>
<td>3/8, 1/2</td>
<td>284</td>
<td>80</td>
</tr>
<tr>
<td>11C</td>
<td>450C</td>
<td>1/2, 3/4</td>
<td>305</td>
<td>80</td>
</tr>
<tr>
<td>22C</td>
<td>550C</td>
<td>3/4, 1</td>
<td>339</td>
<td>80</td>
</tr>
<tr>
<td>37B</td>
<td>650</td>
<td>1, 1 1/2</td>
<td>391</td>
<td>80</td>
</tr>
<tr>
<td>75B</td>
<td>850</td>
<td>1 1/2, 2</td>
<td>541</td>
<td>80</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AFF series</th>
<th>AM, AMD, AMH series</th>
<th>Port size</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>37B</td>
<td>650</td>
<td>1, 1 1/2</td>
<td>352</td>
</tr>
<tr>
<td>75B</td>
<td>850</td>
<td>1 1/2, 2</td>
<td>501</td>
</tr>
</tbody>
</table>
3. With IN-OUT Flange

Makes flange piping easier when filter ports on IN and OUT are flange connection. (Flange material: Carbon steel)

Specifications

| Applicable model | AFF11C, 22C, 37B, 75B |

How to Order

- Refer to “How to Order” for standard specifications.

4. With Differential Pressure Gauge (GD40-2-01), IN-OUT Flange

The differential pressure gauge is mounted on the main body to monitor the life of a filter by checking its clogging status. Ports on IN and OUT are flange connection type. (Flange material: Carbon steel)

Specifications

| Applicable model | AFF11C, 22C, 37B, 75B |

How to Order

- Refer to “How to Order” for standard specifications.

Note) The AMG series is not applicable since water drops could ingress inside its differential pressure gauge, resulting in malfunction or damage to the product.
5. N.C., N.O. Auto Drain, Drain Piping Type

Drain piping type (drain guide specification) to the drain exhaust from N.C. auto drain and N.O. auto drain. N.C. type is not available for the AFF37B and AM·650.

Specifications

| Applicable model | AFF2C to 22C, 37B |

How to Order

| Option* | (Drain cock, drain guide and F, H, V are not applicable.) | Auto drain* | (Available for N.C., N.O. auto drain only) |

Specifications

| Applicable model | AM·150 to 650 |

6. White Vaseline Specifications

Changed the grease for O-rings and gaskets as lubricant to white vaseline.

Specifications

| Applicable model | AFF37B, 75B |

How to Order

| Option* | Refer to “How to Order” for standard specifications. |

Specifications

| Applicable model | AM650, 850, AMD650, 850, AME650, 850, AMF650, 850, AMG650, 850, AMH650, 850 |

Dimensions

\[ \text{(A)} \]

Drain

1/4 female threaded

<table>
<thead>
<tr>
<th>AFF series</th>
<th>AM, AMD, AMG, AMH series</th>
<th>Port size</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Size</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2C</td>
<td>150C</td>
<td>1/8, 1/4</td>
<td>159</td>
</tr>
<tr>
<td>4C</td>
<td>250C</td>
<td>1/4, 3/8</td>
<td>172</td>
</tr>
<tr>
<td>8C</td>
<td>350C</td>
<td>3/8, 1/2</td>
<td>204</td>
</tr>
<tr>
<td>11C</td>
<td>450C</td>
<td>1/2, 3/4</td>
<td>225</td>
</tr>
<tr>
<td>22C</td>
<td>550C</td>
<td>3/4, 1</td>
<td>259</td>
</tr>
<tr>
<td>37B</td>
<td>650</td>
<td>1, 1 1/2</td>
<td>311</td>
</tr>
</tbody>
</table>
Clean Series (10-Series)

Clean Series products are used in cleaner environments such as in clean rooms as compared to a general factory environment. For further details, refer to the Clean Series catalog.

Copper-free, Fluorine-free (20-Series)

To eliminate effects on color CRTs, etc. by copper ion or fluorine resin, copper materials are electroless-nickel plated or changed to copper-free materials to prevent the generation of copper ions. (It is not applicable to the AMD, AME, AMF and AMH series because those include fluorine resin in the filter material of the element.)

Specifications

| Applicable model | AFF2C to 22C, 37B, 75B |

How to Order

Refer to “How to Order” for standard specifications.

Specifications

| Applicable model | AFF2C to 22C, 37B |

How to Order

Refer to “How to Order” for standard specifications.

Specifications

| Applicable model | AFF75B |

Specifications

| Applicable model | AM150C to 550C, 650, 850, AMD150C to 550C, 650, 850, AMH150C to 550C, 650, 850 |

Specifications

| Applicable model | AM850, AMG850 |

Compressed Air Cleaning Filter Series

Please consult with SMC for detailed specifications, size and delivery.
Drain is automatically discharged in a reliable manner, without requiring human operators.

Highly resistant to dust and corrosion, operates reliably, and a bowl guard is provided as standard equipment.

Be sure to read this before handling. Refer to back pages 1 and 2 for Safety Instructions, “Precautions for Handling Pneumatic Devices” (M-03-E3A) for Common Precautions.

Selection

Use the auto drain under the following operating conditions in order to prevent malfunction.
1) Operate the compressor above 3.7 kw (400 l/min (ANR)).
2) Use the AD402 at an operating pressure above 0.1 MPa and AD600 above 0.3 MPa.

Piping

Piping should be done under the following conditions in order to prevent malfunction. For drain piping, use a pipe whose I.D. is not less than ø10 and length not more than 5 m. Avoid riser piping.

How to Order

AD402 - Option

<table>
<thead>
<tr>
<th>Thread type</th>
<th>Nil</th>
<th>Rc</th>
<th>N</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port size</td>
<td>Symbol</td>
<td>IN</td>
<td>OUT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>02</td>
<td>1/4</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>03</td>
<td>3/8</td>
<td>3/4</td>
<td></td>
</tr>
</tbody>
</table>

AD600 - Option

<table>
<thead>
<tr>
<th>Thread type</th>
<th>Nil</th>
<th>Rc</th>
<th>N</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port size</td>
<td>Symbol</td>
<td>IN</td>
<td>OUT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>06</td>
<td>3/4</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
Working Principle (AD402)

• When no pressure is applied inside the bowl 10, float 5 descends of its own weight and valve 9 closes the chamber 6 hole. Piston 8 is pushed down by spring 11, and drain passes through the chamber's long hole 12 to enter the housing and is discharged.

• When pressure is applied inside the bowl:
  When pressure is 0.1 MPa or more, it overcomes the force of spring 11, allowing the piston 8 to ascend, and comes in contact with O-ring 4. Thus, the inside of the bowl 10 is isolated from the outside.

• When drain has accumulated:
  Float 5 ascends due to flotation and opens the chamber hole 6, allowing the pressure to enter the chamber 6. Piston 8 descends due to internal pressure and the force of spring 11, and the accumulated drain is discharged through drain guide 13.

Component Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Aluminum die-casted</td>
</tr>
</tbody>
</table>

Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>O-ring</td>
<td>NBR</td>
<td>AD402 AD600</td>
</tr>
<tr>
<td>3</td>
<td>Gauze</td>
<td>Stainless steel</td>
<td>20062 AD34PA</td>
</tr>
<tr>
<td>8</td>
<td>Piston assembly</td>
<td>AD34PA</td>
<td>20025A</td>
</tr>
</tbody>
</table>

Note 1) Internal assembly: Assembly for parts 4 to 7 except 8.
Note 2) Part no. for bowl assembly: AD34
Note 3) Part no. for bowl 10: 201016
Reliably discharges even highly viscous drain
- Highly resistant to dust and highly viscous drain, the valve opens and closes reliably to discharge the drain.

High drain discharge capacity
- With a large discharge port, a large amount of drain can be discharged in a single operation.
- Elimination of residual drain inside the tank and pipes prevents the generation of foreign matter such as dried rust or drain, which could adversely affect the equipment located on the outlet side.

Low power consumption: 4 W
- A long pipe can also be connected to the discharge port.
- Can be connected directly to a compressor.

Model/Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>ADM200-□□□□□</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>Air</td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>1.0 MPa</td>
</tr>
<tr>
<td>Proof pressure</td>
<td>1.5 MPa</td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>–5 to 60 °C (No freezing)</td>
</tr>
<tr>
<td>Operating cycle</td>
<td></td>
</tr>
<tr>
<td>Operating time</td>
<td>1 time in a minute (Standard)</td>
</tr>
<tr>
<td>Power source</td>
<td>100, 200 VAC %/Hz, Other</td>
</tr>
<tr>
<td>Power consumption</td>
<td>4 W</td>
</tr>
<tr>
<td>Port size</td>
<td>IN: ¾, ½</td>
</tr>
<tr>
<td>Mass</td>
<td>550 g</td>
</tr>
</tbody>
</table>

* If the operating cycle is twice in a minute (operating time 2 sec. x 2) operating time is 4 sec. each minute.

Specific Product Precautions

**Warning**
1. Install this product after discharging the drainage that has already accumulated in the tank. Otherwise, it could lead to malfunction.
2. Install this product, so that the drain port could face downwards. Otherwise, it could lead to malfunction.

**Caution**
Provide a stop valve before the ADM200 to facilitate maintenance and inspection.

Mounting

**Warning**
- Piping should be done under the following conditions in order to prevent malfunction.
- For drain piping, use a pipe whose I.D. is not less than ø5 and length not more than 5 m. Avoid riser piping.

**Caution**
- If the valve becomes clogged with debris, press the manual button to flush out the debris. Otherwise, it could lead to malfunction.

Maintenance

**Caution**

How to Order

<table>
<thead>
<tr>
<th>ADM200</th>
<th>03</th>
<th>1</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Thread type</th>
<th>Nil</th>
<th>RC</th>
<th>N</th>
<th>NPT</th>
<th>F</th>
<th>G</th>
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<tbody>
<tr>
<td>Port size</td>
<td>IN</td>
<td>OUT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symbol</td>
<td>03</td>
<td>¾</td>
<td>¾</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>04</td>
<td>½</td>
<td>¾</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating time/Applicable compressor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
</tbody>
</table>
Mounting Example

![Diagram showing the mounting example of a compressor system.]

Construction/Dimensions

![Diagram showing the construction and dimensions of the system components.]

<table>
<thead>
<tr>
<th>Component Parts</th>
<th>Replacement Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No.</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>1</td>
<td>Body</td>
</tr>
<tr>
<td>2</td>
<td>Cap</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Motor part no. in the case of 100 VAC: 812PG-AC100V
Related Products: Heavy Duty Auto Drain
Series ADH4000

Easy maintenance
Can maintain without removing the existing piping.

No need for electric power and no waste of air.
Float type auto drain allows automatic drain discharge without electric power.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto drain type</td>
<td>Float type</td>
</tr>
<tr>
<td>Auto drain valve type</td>
<td>N.O. (Normally open: Open in the case of pressure loss)</td>
</tr>
<tr>
<td>Proof pressure</td>
<td>2.5 MPa</td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>1.6 MPa</td>
</tr>
<tr>
<td>Operating pressure range</td>
<td>0.05 to 1.6 MPa</td>
</tr>
<tr>
<td>Fluid</td>
<td>Compressed air</td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>5 to 60°C (With no condensation)</td>
</tr>
<tr>
<td>Max. drain discharge</td>
<td>400 cc/min (Pressure 0.7 MPa, in the case of water)</td>
</tr>
<tr>
<td>Mass</td>
<td>1.2 kg (With bracket: 1.3 kg)</td>
</tr>
<tr>
<td>Paint color</td>
<td>White</td>
</tr>
</tbody>
</table>

Note) Use for an air compressor with flow more than 50 l/min (ANR).

Accessory (Option)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part no.</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket set</td>
<td>BM58</td>
<td>Bracket ........................................ 1 pc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M6 x 10 ℓ (Hexagon socket head cap screw) 2 pcs.</td>
</tr>
<tr>
<td>Ball valve piping set</td>
<td>ADH-C400</td>
<td>Ball valve/Rc 1/2 ................................ 1 pc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Barrel nipple/R 1/2 ............................ 2 pcs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elbow/Rc 1/2 ..................................... 1 pc.</td>
</tr>
</tbody>
</table>

Note) Accessory (Option) is included, but not assembled.

How to Order

ADH4000 - 04

Accessory (Option)*

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Contents</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>None (Standard)</td>
<td>—</td>
</tr>
<tr>
<td>B</td>
<td>Bracket set</td>
<td>—</td>
</tr>
<tr>
<td>C</td>
<td>Ball valve piping set</td>
<td>Not available for G/NPT threads.</td>
</tr>
</tbody>
</table>

* Notes
1) When more than one option is desired, enter in alphabetical order.
2) Accessory is not assembled.
3) Refer to each drawing of dimensions and mounting methods for details.
Specific Product Precautions

Be sure to read this before handling. Refer to back pages 1 and 2 for Safety Instructions, “Precautions for Handling Pneumatic Devices” (M-03-E3A) for Common Precautions.

Design

Caution
1. Use this product in an area where the air pressure does not exceed 1.6 MPa. If exceeding 1.6 MPa, it could lead to an accident or malfunction.
2. An air pressure of 0.05 MPa and an air compressor’s discharge flow rates higher than 50 l/min (ANR) are required. Below these values, the air will be exhausted continuously from the drain exhaust port.
3. Keep the compressed air and the ambient temperature of the location where this product is installed within the range of 5 to 60°C. Exceeding this range could lead to a failure or malfunction.
4. Avoid using this product in an area where corrosive gases, flammable gases or organic solvents are contained in the compressed air or in the surrounding air.

Selection

Caution
1. The maximum dischargeable drainage rate is 400 cc/min. If using this product in excess of this value, there could be causing the drain to flow over to the outlet side.

Piping

Caution
1. Use piping of 1/2" or larger for drain inlet and avoid riser piping.
2. For drain piping, use a pipe whose I.D. is not less than 8 mm and length not more than 10 m. Do not make any upward angles in drain line. Be sure to secure exhaust port piping since drain is under pressure.

Mounting

Caution
1. When not draining sufficiently, open the bleed valve so that drain could run through easily.

Maintenance

Caution
1. Check drain condition periodically (more than once a day). Also, push the flushing button to open the exhaust valve.
2. Pilot air is exhausted from the exhaust port indicated in “Dimensions”. Do not cover this exhaust port. Clean the exhaust port so that port is not blocked by dust, etc.
3. When solid foreign objects exceeding 1 mm come in, the main valve may become blocked. After recovering the internal pressure of this product to 0 MPa (atmospheric pressure), remove the hexagon socket head cap screw (M6) from the body part and wash inside with water to remove foreign solid objects blocking the main valve.
4. When using this product, drain may not easily enter the product. In such a case, adjust the open angle of its bleed valve to lower the pressure a bit inside the bowl so that drain could run through easily.

Component Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Aluminum alloy</td>
<td>Baking finish</td>
</tr>
<tr>
<td>2</td>
<td>Housing</td>
<td>Aluminum alloy</td>
<td>Baking finish</td>
</tr>
<tr>
<td>3</td>
<td>Drain guard</td>
<td>Aluminum alloy</td>
<td>Baking finish</td>
</tr>
<tr>
<td>4</td>
<td>Float</td>
<td>Foam rubber</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Pilot valve</td>
<td>Stainless steel + Rubber</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Lever</td>
<td>Resin</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Flushing button</td>
<td>Brass</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Orifice</td>
<td>Resin</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Diaphragm</td>
<td>Rubber</td>
<td></td>
</tr>
</tbody>
</table>

Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Part no.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Repair kit for main valve</td>
<td>ADH-D400</td>
<td>Kit includes parts from (10-1) to (10-5)</td>
</tr>
<tr>
<td>11</td>
<td>O-ring</td>
<td>G85(B)</td>
<td>Material: NBR</td>
</tr>
</tbody>
</table>

Note) When changing parts, follow the operating manual. Do not disassemble other parts.
Series ADH4000

Dimensions

**Option: Reference Figure of Assembly**

- **Piping example of ball valve piping set**
  - (45) (41) (64) (100)

- **Bracket (Option)**
  - 120
  - 100
  - 200 (Maintenance space)

- **Bracket mounting hole** (Both sides)

- **Drain inlet 1/2 female threaded**
  - (Refer to “How to Order” for type of thread.)

- **Drain outlet 1/2 female threaded**
  - (Refer to “How to Order” for type of thread.)

- **Octagonal width across flats 30**
- **Hexagon width across flats 27**
- **Model no. label**
- **Caution label**

- **M6 Hexagon socket head cap screw**
  - [Applicable hexagon wrench key nominal size 5]

- **Flushing button**
  - (Refer to “Maintenance” 4.)

- **Bleed valve**

- **Pilot exhaust port**
The pressure differential at the inlet and the outlet of compressed air equipment can be viewed at a glance on the differential pressure gauge. It is ideal for the maintenance control of filters.

Compact and lightweight
Can be installed easily by merely providing a bypass circuit.
Provided with a protective cover to prevent hazards.

### Model/Specifications

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Compressed air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. operating pressure</td>
<td>1 MPa</td>
</tr>
<tr>
<td>Proof pressure</td>
<td>1.5 MPa</td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>5 to 60°C</td>
</tr>
<tr>
<td>Port size Rc</td>
<td>1/8</td>
</tr>
<tr>
<td>Scale range</td>
<td>0 to 0.2 MPa</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.006 MPa</td>
</tr>
<tr>
<td>Dial size</td>
<td>ø40</td>
</tr>
<tr>
<td>Mass (g)</td>
<td>300</td>
</tr>
</tbody>
</table>

### Main Parts Material

- **Case**: Zinc die-casted
- **Internal part**: Brass, Phosphor bronze
- **Window**: Polyester
- **Scale plate**: Stainless steel

### Accessory

- **Nylon tube**: T0425 (0.5 m)
- **Male connector**: H04-01 (1 pc.)
- **Male elbow**: DL04-01 (1 pc.)

### Piping Example

1. This product cannot be used in a location where pulsations could occur frequently.

### Dimensions

- **Thread for mounting bracket**
- **Low pressure side**
  - Rc ⅛
- **High pressure side**
  - R ⅛
- **Thread depth**: 7

### Caution

1. **Design**

   - The HIGH and LOW marks on the back of the differential pressure gauge indicate the high pressure and low pressure sides respectively. Connect the HIGH side to the inlet side of the filter or other devices and the LOW side to their outlet side. Do not use a stop valve to prevent damage to the differential pressure gauge if the valve is inadvertently left open or closed.

2. **Mounting**

   - Install the differential pressure gauge vertically.
   - The piping of the differential pressure gauge must be connected securely because it will break if it becomes detached.

---

**Related Products:**

**Differential Pressure Gauge**

**Series GD40-2-01**
These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of “Caution,” “Warning” or “Danger.” They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC), Japan Industrial Standards (JIS)*1 and other safety regulations*2).

*1) ISO 4414: Pneumatic fluid power – General rules relating to systems.
ISO 4413: Hydraulic fluid power – General rules relating to systems.
IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
JIS B 8370: General rules for pneumatic equipment.
JIS B 8361: General rules for hydraulic equipment.
JIS B 9960-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
etc.

*2) Labor Safety and Sanitation Law, etc.

---

**Caution:** Operator error could result in injury or equipment damage.

**Warning:** Operator error could result in serious injury or loss of life.

**Danger:** In extreme conditions, there is a possibility of serious injury or loss of life.

---

**Warning**

1. **The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.**
   Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. **Only personnel with appropriate training should operate machinery and equipment.**
   The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. **Do not service or attempt to remove product and machinery/equipment until safety is confirmed.**
   1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
   2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
   3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. **Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.**
   1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
   2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
   3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
   4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

---

Back page 1
Safety Instructions

⚠ Caution

The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited Warranty and Disclaimer/Compliance Requirements

The product used is subject to the following “Limited Warranty and Disclaimer” and “Compliance Requirements”. Read and accept them before using the product.

Limited Warranty and Disclaimer

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered.\(^3\) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.

\(^3\) Vacuum pads are excluded from this 1 year warranty.

- A vacuum pad is a consumable part, so it is warranted for a year after it is delivered.
- Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

When the product is exported, strictly follow the laws required by the Ministry of Economy, Trade and Industry (Foreign Exchange and Foreign Trade Control Law).
**Specific Product Precautions 1**

Be sure to read this before handling. Refer to back pages 1 and 2 for Safety Instructions, and “Precautions for Handling Pneumatic Devices” (M-03-E3A) for Common Precautions.

---

### Caution

1. **Design**
   
   **Caution**

   1. Design the layout so that the mist separator should be installed in an area that is less susceptible to pulsations.
      
      The element could be damaged if a difference between the inlet pressure and the outlet pressure exceeds 0.1 MPa.

   2. Be careful of dust generation by the pneumatic equipment mounted on the outlet side.
      
      When installing pneumatic equipment on the outlet side of the AM/L series, dust particles may come off from outlet equipment, which will lower the cleanliness of compressed air. Consider this impact upon the cleanliness of compressed air when installing pneumatic equipment on the outlet side.

   3. **About when to use N.C. auto drain and N.O. auto drain.**
      
      When using the AFF2C to 22C, 37B, 75B, AM/L150C to 550C, 650, 850 with normally open (N.O.) auto drain, air may ceaselessly blow out of the drain discharge area when an air compressor with a small air discharge volume is used since the valve does not close unless the air pressure is 0.1 MPa or higher. Therefore, when using a compressor for 3.7 kW or less, make sure to use the normally closed (N.C.) auto drain. The minimum operating pressure is 0.15 MPa even with N.C. auto drain.

   4. **Use a tubing with proper size and length for drain piping of auto drain.**
      
      When using the AFF2C to 22C, 37B, AM/L150C to 550C, 650 with auto drain:
      
      - Normally closed (N.C.): Use tubing O.D. 10 mm and keep the whole length within 5 m.
      - Normally open (N.O.): Use tubing I.D. 9 mm or more and keep the whole length within 2.8 m.

   5. **Provide a design that prevents back pressure and back flow.**
      
      Back pressure or back flow may damage an element.

   6. **Keep the certificate of Class 2 Pressure Vessel in a safe place.**
      
      Products below are subject to Class 2 Pressure Vessel Act. Certificate will be sent in 2 to 4 weeks later after the shipment of the product.
      
      - Main Line Filter: AFF220A
      - Micro Mist Separator: AMD998/108/98

---

### Warning

1. **Hold the female thread side and tighten to the recommended torque when screwing in the piping material.**

   Insufficient tightening torque may cause loosening or defective sealing. Over-tightening torque may damage the thread etc. If it is tightened without holding the female thread side, excessive force will be directly applied to the piping bracket resulting in a product failure.

2. **Do not apply torsional moment or bending moment (except the product’s own weight) to the bracket.** It may damage the bracket. Support external piping separately.

3. **Inflexible piping such as steel piping tends to be affected by spread of excessive moment load or vibration from the piping side. Lay flexible tubing between the steel pipe and the product to prevent such effects.**
**Series AM□/AFF**

**Specific Product Precautions 2**

Be sure to read this before handling. Refer to back pages 1 and 2 for Safety Instructions, and "Precautions for Handling Pneumatic Devices" (M-03-E3A) for Common Precautions.

---

### Selection

**Caution**

1. About the system composition of purifying compressed air

Compressed air generally contains particulate contaminants as listed below, though there are some variations due to the compressor type and specifications. Determine the system configuration according to the desired cleanliness of compressed air and application, while referring to the "Air Preparation Equipment Selection Guide" for the AM□ series (Best Pneumatics).

**Particulate contaminants in compressed air**
- Water (drainage)
- Dust sucked from ambient air
- Degenerated oil from compressor
- Solid foreign matter such as rust inside piping and oil

2. Select according to the maximum flow consumption.

When compressed air is used for air blow, etc., find the maximum air consumption before selecting the size of the AM□ series. (If compressed air exceeding the maximum flow rate is supplied, it can result in decline of the cleanliness of compressed air or element damage.)

### Piping

**Caution**

1. Connect it with IN and OUT ports in proper location. It does not work with the connection reversed.

In the case of the AFF2C to 22C, 37B, 75B, AM□150C to 550C, 650, 850

Verify the direction of the flow of the compressed air and the “□” or “△” mark that indicates the inlet of the product before connecting. It cannot be used if connected in the opposite direction.

---

### Mounting

**Caution**

1. About the mounting orientation of the products

Make sure to install this product on horizontal piping. If it is installed diagonally, laterally, or upside down, the drain separated by the element will splash to the outlet side.

---

In the case of the AFF75A to 220A, AMD801, 901, 800, 900, 1000

INLET and OUTLET of compressed air is labeled on the side of flange. Be sure to connect correctly.

2. Use an air blower to flush the piping before connecting the piping.

Use an air blower to thoroughly flush the piping, or wash the piping to remove any cutting chips, cutting oil, or debris from inside the piping before connecting them.

3. Wrapping of sealant tape

When screwing in the pipes or fittings, make sure to prevent cutting chips or the sealant material on the threaded portion of the pipe from entering the piping. If sealant tape is to be used, leave about 1.5 to 2 ridges of threads uncovered.

4. Modular connection

Mount the attached bracket on one side when connecting 2 sets. Mount the attached brackets on both sides when connecting 3 sets or more. As a guideline for the number of brackets, one bracket should be mounted for every 2 products.
Series AM/AFF
Specific Product Precautions 3

Be sure to read this before handling. Refer to back pages 1 and 2 for Safety Instructions, and “Precautions for Handling Pneumatic Devices” (M-03-E3A) for Common Precautions.

---

**Air Supply**

⚠️ **Caution**

1. The mist separator is not applicable to gases other than compressed air.
   The mist separator is not applicable to gases other than compressed air (example: oxygen, hydrogen, flammable gas, mixed gas).

2. Do not use compressed air that contains chemicals, organic solvents, salt, or corrosive gases.
   Do not use compressed gas containing chemicals, organic solvents, salt or corrosive gas. This can cause rust, damage to rubber and resin parts, or malfunction.

3. Operate within the specified operating pressure range.
   Damage, failure, or malfunction may occur if the mist separator is operated above the maximum operating pressure. If the mist separator is used below the minimum operating pressure, increase in the air-flow resistance due to clogging will have such influence that the desired flow rate cannot be obtained.
   If the mist separator is used under a low pressure such as for a blower, conduct sufficient tests by users to confirm the specifications and performances.

---

**Maintenance**

⚠️ **Caution**

1. Replace the element immediately when the time for its replacement has arrived.
   To replace the element, replace the O-ring and the gasket, too. For the replacement procedure, refer to the operating manual. (For element dimensions, refer to back page 6.)

   **<Element replacement>**
   In the case of the AFF2C to 22C, 37B, 75B, AM150C to 550C, 650, 850
   The replacement interval for the element is when the pressure drop reaches 0.1 MPa or after two years of operation, whichever comes first. A pressure drop can be verified with the element service indicator (T) or with differential pressure gauge (Made to Order).
   In the case of the AFF75A to 220A, AMD800 to 1000, AMD801, 901
   The replacement interval for the element is when the pressure drop reaches 0.1 MPa or after one year of operation, whichever comes first. Confirm the pressure drop with a pressure gauge. (With pressure gauge: G)

2. Be sure to exhaust the drain accumulated in the filter container.
   Failure to discharge the drain will allow the accumulated drain to flow over to the outlet side. When using the AFF2C to 22C, 37B, 75B, AM150C to 550C, 650, 850 with drain cock, drain guide or ball valve, discharge the drain before the drainage level reaches the center of the sight glass. If the drain is not discharged properly, it will flow over to the outlet side.

---

**Operating Environment**

⚠️ **Caution**

1. Do not use in the following environments, as this can cause failure.
   1) In locations having corrosive gases, organic solvents, and chemical solutions, or in locations where these elements are likely to adhere to the equipment.
   2) In locations where salt water, water, or water vapor could come in contact with the equipment.
   3) In locations that is exposed to shocks and vibrations.

2. Be careful about the contamination of the workpieces due to entrainment of the ambient air.
   If compressed air is used for air blow, compressed air blowing out from the blow nozzle may entrain foreign matter (solid particles and liquid particles) floating in the ambient air, blowing it against the workpieces and causing adhesion. Therefore, sufficient precautions must be taken about the ambient environment.

---

*Back page 5*
**Caution**

3. In the case of a type with auto drain
- The auto drain operates when the drainage level reaches the top of the sight glass, and the drain will be discharged.
- When using the AFF2C to 22C, 37B, AM□/L50132 150C to 550C, 650 with auto drain, the drain is automatically discharged with the knob tightened to the “S” side. Manual drain discharge, however, is also possible.

<Manual operation>
A manual knob attached to the auto drain end is tightened to the “S” side in normal operation. The drain can be discharged by loosening it to the “O” side. (Be careful, however, if pressure remains inside the filter when the drain is discharged, the drain will blow out from the drain port.)

4. The drain exhaust parts replacement method and necessary parts are different depending on when it was manufactured.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Drain cock</td>
<td>AM-SA002</td>
<td></td>
<td></td>
<td>2C to 22C</td>
</tr>
<tr>
<td>Drain guide</td>
<td>AM-SA003</td>
<td></td>
<td></td>
<td>2B to 37B</td>
</tr>
<tr>
<td>N.O. auto drain</td>
<td></td>
<td></td>
<td>AD43PA-D</td>
<td>150C to 550C</td>
</tr>
<tr>
<td>N.C. auto drain</td>
<td></td>
<td></td>
<td>AD53PA-D</td>
<td>150 to 650</td>
</tr>
<tr>
<td>Ball valve set</td>
<td>AM-SA004</td>
<td></td>
<td></td>
<td>7SB, 850</td>
</tr>
<tr>
<td>N.O. auto drain</td>
<td>AD34PA-D</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note) Jig (AM-SA005) for replacing auto drain is necessary for the 75B or 850.

**Caution**

1. Element interchange
Following is the element dimensions for the AFF and AM□ series:
Since elements for the same body size have the same dimensions, they are interchangeable. However, do not interchange them easily since it can cause various kinds of problems.
If interchanging the elements is unavoidable, replace the product model number label, too.

![Element Dimensions](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>Element dimensions (Reference value)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>øA</td>
</tr>
<tr>
<td>AFF2C, AFF2B, AM150C, AM150</td>
<td>49</td>
</tr>
<tr>
<td>AMD150C, AMD150, AMH150C, AMH150</td>
<td>58</td>
</tr>
<tr>
<td>AFF4C, AFF4B, AM250C, AM250</td>
<td>70</td>
</tr>
<tr>
<td>AMD250C, AMD250, AMH250C, AMH250</td>
<td>82</td>
</tr>
<tr>
<td>AFF6C, AFF8B, AM350C, AM350</td>
<td>96</td>
</tr>
<tr>
<td>AMD350C, AMD350, AMH350C, AMH350</td>
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<td>AMD650, AMH650</td>
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</table>

2. About oil-free products
The AFF and AM□ series includes parts (such as resin parts, rubber parts, and elements) that does not allow degreasing wash. Therefore, oil-free products with all parts degreasing washed is not available.

3. Degreasing wash
Certain parts such as the body and housing can be degreasing washed. Contact SMC after confirming the specifications. (available as Option or Made to Order)

4. Change of oil
On the AFF and AM□ series, no oil such as grease is applied to parts exposed to compressed air. However, for certain specifications, there are some parts to which oil is applied. It is possible to change the type of applied oil (as Option or Made to Order).

**Series AM□/AFF**

Specific Product Precautions 4

Be sure to read this before handling. Refer to back pages 1 and 2 for Safety Instructions, and “Precautions for Handling Pneumatic Devices” (M-03-E3A) for Common Precautions.
Discontinued Model and Equivalent Model

The AFF and AM/L50132 series were remodeled to products introduced in this catalog in 1988. Along with the new models, old models were provided mainly for the purpose of maintenance. However, due to the aging of metal dies and extreme decline in the quantity, the procurement of parts and consequently the maintenance of the production system became difficult. For this reason, old models were discontinued in 1994, as detailed in the table below. Use the equivalent model listed there.

### Discontinued Model and Equivalent Model

<table>
<thead>
<tr>
<th>Product name</th>
<th>Model</th>
<th>Period of production discontinuance</th>
<th>Period of production discontinuance for maintenance parts</th>
<th>External dimensions of product Width x Depth x Height</th>
<th>Model</th>
<th>External dimensions of product Width x Depth x Height</th>
<th>Page</th>
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Note) Some models have different heights depending on the port size. They are shown in parentheses.
Safety Instructions

Be sure to read “Precautions for Handling Pneumatic Devices” (M-03-E3A) before using.