Speed Controller with One-touch Fitting Plug-in Type

**AS□□□□P Series**

- Can be mounted directly to the One-touch fitting!
- No need for tools, reducing time required for mounting.

### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Rod and applicable tubing O.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meter-out type</td>
<td>Meter-in type</td>
</tr>
<tr>
<td></td>
<td>ø4</td>
</tr>
<tr>
<td>AS1000P-04-04</td>
<td>•</td>
</tr>
<tr>
<td>AS2000P-04-04</td>
<td>•</td>
</tr>
<tr>
<td>AS2000P-06-06</td>
<td>—</td>
</tr>
<tr>
<td>AS2500P-06-06</td>
<td>—</td>
</tr>
<tr>
<td>AS3000P-08-08</td>
<td>—</td>
</tr>
<tr>
<td>AS3000P-10-10</td>
<td>—</td>
</tr>
</tbody>
</table>

### Specifications

- **Fluid**
  - Air

- **Proof pressure**
  - 1.5 MPa

- **Max. operating pressure**
  - 1 MPa

- **Min. operating pressure**
  - 0.1 MPa

- **Ambient and fluid temperature**
  - −5 to 60°C (No freezing)

- **Applicable tubing material**
  - Nylon, Soft nylon, Polyurethane

### Flow Rate and Sonic Conductance

<table>
<thead>
<tr>
<th>Model</th>
<th>Rod and applicable tubing O.D. (Metric size)</th>
<th>Flow rate</th>
<th>Sonic conductance [dm³/(s ⋅ bar)]</th>
<th>Critical pressure ratio</th>
</tr>
</thead>
</table>
| AS1000P-04-04 | ø4 | 100 | 0.28 | 0.2
| AS2000P-04-04 | ø4 | 130 | 0.36 | 0.2
| AS2000P-06-06 | ø6 | 230 | 0.64 | 0.3
| AS2500P-06-06 | ø6 | 290 | 0.8 | 0.4
| AS3000P-08-08 | ø8 | 660 | 1.8 | 0.8
| AS3000P-10-10 | ø10 | 920 | 2.6 | 0.8

Note) Flow rate values are measured at 0.5 MPa and 20°C.

### How to Order

**AS 2000P-06-06**

- **Body size**
  - 010: M5 standard
  - 025: Ø6 standard
  - 030: Ø8 standard

- **Control type**
  - 0: Meter-out
  - 1: Meter-in

- **Rod O.D.—Applicable tubing O.D.**
  - 04-04: ø4—ø4
  - 06-06: ø6—ø6
  - 08-08: ø8—ø8
  - 10-10: ø10—ø10

- **Lock nut option**
  - Nil: Hexagon lock nut
  - J: Round lock nut

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### Warning

1. Do not use the body A in a continuously rotating place. It may damage the body A or fittings.

### Caution

Release from One-touch fitting

- The release ring slides up and down and does not come off from the body A with the drop prevention function.

1. Slide down the release ring, and push the release bushing to the end.
2. Bring up the body, while holding it down.
3. Take the finger off the release ring and remove the speed controller from the One-touch fitting.

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<Visual identification between meter-out and meter-in types>

The lock nut provides identification. The lock nut of the meter-out type is zinc chromated (The round lock nut is electroless nickel plated), and the one of the meter-in type is black zinc chromated.
Needle Valve/Flow Rate Characteristics

### Dimensions

#### Meter-out type

![Diagram of AS100P-04-04]

- **AS100P-04-04**
  - **Inlet pressure:** 0.5 MPa
  - Flow rate characteristic graph

![Diagram of AS200P-06-06]

- **AS200P-06-06**
  - **Inlet pressure:** 0.5 MPa
  - Flow rate characteristic graph

![Diagram of AS250P-06-06]

- **AS250P-06-06**
  - **Inlet pressure:** 0.5 MPa
  - Flow rate characteristic graph

![Diagram of AS300P-10-10]

- **AS300P-10-10**
  - **Inlet pressure:** 0.5 MPa
  - Flow rate characteristic graph

Note: The numbers above the flow rate characteristic curves in the charts show the tubing diameter as defined by the product number.

#### Meter-in type

![Diagram of AS100P-04-04]

- **AS100P-04-04**
  - **Inlet pressure:** 0.5 MPa
  - Flow rate characteristic graph

![Diagram of AS200P-06-06]

- **AS200P-06-06**
  - **Inlet pressure:** 0.5 MPa
  - Flow rate characteristic graph

![Diagram of AS250P-06-06]

- **AS250P-06-06**
  - **Inlet pressure:** 0.5 MPa
  - Flow rate characteristic graph

![Diagram of AS300P-10-10]

- **AS300P-10-10**
  - **Inlet pressure:** 0.5 MPa
  - Flow rate characteristic graph

Note: The numbers above the flow rate characteristic curves in the charts show the tubing diameter as defined by the product number.

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### Table of Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>oD</th>
<th>E</th>
<th>oF</th>
<th>oG</th>
<th>oH</th>
<th>J</th>
<th>K</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS100P-04-04</td>
<td>38.5</td>
<td>41.7</td>
<td>23.9</td>
<td>26.7</td>
<td>9.3</td>
<td>17</td>
<td>4</td>
<td>4</td>
<td>10</td>
<td>12.7</td>
<td>17.4</td>
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<tr>
<td>AS200P-04-04</td>
<td>46.4</td>
<td>51.4</td>
<td>31.4</td>
<td>36.4</td>
<td>30</td>
<td>11.6</td>
<td>18</td>
<td>6</td>
<td>13.6</td>
<td>12.7</td>
<td>18.9</td>
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<tr>
<td>AS250P-06-06</td>
<td>47.3</td>
<td>52.3</td>
<td>31.3</td>
<td>36.3</td>
<td>30</td>
<td>11.6</td>
<td>18</td>
<td>6</td>
<td>13.6</td>
<td>13.5</td>
<td>19.9</td>
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<tr>
<td>AS300P-06-06</td>
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<td>33.6</td>
<td>38.6</td>
<td>32</td>
<td>12.8</td>
<td>18</td>
<td>6</td>
<td>17</td>
<td>16.8</td>
<td>24.1</td>
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<td>AS300P-08-08</td>
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<td>60.5</td>
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<td>42</td>
<td>36</td>
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<td>19</td>
<td>8</td>
<td>8</td>
<td>22</td>
<td>18.5</td>
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<tr>
<td>AS300P-10-10</td>
<td>58.5</td>
<td>63.5</td>
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<td>42.5</td>
<td>39</td>
<td>18.5</td>
<td>22</td>
<td>10</td>
<td>10</td>
<td>22</td>
<td>21</td>
</tr>
</tbody>
</table>

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*Note: The table above provides the dimensions in millimeters.*