**All Metal Exterior**

Speed Controller with One-touch Fitting

*Except sealant*

- Improved environmental resistance with the all metal exterior

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**Application**

Environment where welding spatter scatters

- Insertion status can be checked visually.
- Prevents disconnection with the convex part inside the cover.
- Flexibility is provided when the tube is bent.

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**Related Equipment/Spatter cover**

Prevents adhesion and entry of welding spatters!

- Flexibility is provided when the tube is bent.
- Insertion status can be checked visually.
- Prevents disconnection with the convex part inside the cover.

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**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 FR double layer, FR Three-layer, FR soft nylon

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**How to Order**

- **AS X737**
  - Body size: 2 - 1/8, 1/4 standard
  - Control type: 0 - Meter-out, 1 - Meter-in
  - Thread size: 01 - R1/8, 02 - R1/4, 03 - R3/8

- **Model**
  - **With One-touch fitting**
  - **With sealant**
  - **All metal exterior**

- **Applicable tubing O.D.**
  - 06 - ø6
  - 08 - ø8
  - 10 - ø10

*Note* For selecting applicable tubing O.D., refer to the "Model".

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**Model Port size Applicable tubing O.D.**

- **AS22-01-F-S-X737** R1/8 6, 8, 10
- **AS22-02-F-S-X737** R1/4 6, 8, 10
- **AS32-03-F-S-X737** R3/8 6, 8, 10

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**Note**

- Meter-out and meter-in types can be visually differentiated by the lock nut.
- The lock nut on the meter-out type is brass color, while the meter-in type is black.

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**INFORMATION**

- Improved environmental resistance with the all metal exterior

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**AS-X737**
AS-X737

Construction

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 A</td>
<td>ZDC (Zinc alloy)</td>
<td>Chromating</td>
</tr>
<tr>
<td>2</td>
<td>Body B</td>
<td>Brass</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Needle</td>
<td>Brass</td>
<td>Electroless nickel plating</td>
</tr>
<tr>
<td>4</td>
<td>Seat ring</td>
<td>Brass</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Lock nut</td>
<td>Brass</td>
<td>Meter-cut</td>
</tr>
<tr>
<td>6</td>
<td>Handle</td>
<td>Brass</td>
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</tr>
<tr>
<td>7</td>
<td>C-ring</td>
<td>Steel wire</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Cassette</td>
<td>Stainless steel</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Seal</td>
<td>NBR</td>
<td></td>
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<tr>
<td>10</td>
<td>O-seal</td>
<td>NBR</td>
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<tr>
<td>11</td>
<td>O-ring</td>
<td>NBR</td>
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</tbody>
</table>

Flow Rate and Sonic Conductance

<table>
<thead>
<tr>
<th>Model</th>
<th>Applicable tubing O.D.</th>
<th>Controlled Flow Free flow</th>
<th>Sonic conductance dm³/s·bar</th>
<th>Critical pressure ratio</th>
<th>Flow rate L/min (ANR)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ø6, ø8</td>
<td>230</td>
<td>0.7</td>
<td>0.25</td>
<td>200</td>
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<tr>
<td></td>
<td>ø6, ø8, ø10, ø8</td>
<td>390</td>
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<td>0.3</td>
<td>100</td>
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<tr>
<td></td>
<td>ø8</td>
<td>460</td>
<td>1.4</td>
<td>0.25</td>
<td>100</td>
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<tr>
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<td>ø8, ø10, ø8</td>
<td>790</td>
<td>2.4</td>
<td>0.25</td>
<td>50</td>
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<tr>
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<td>ø8, ø10, ø8</td>
<td>920</td>
<td>2.8</td>
<td>0.25</td>
<td>10</td>
</tr>
</tbody>
</table>

Note) Inner tubing O.D. applies to the FR double layer and FR three-layer.

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Applicable tubing O.D.</th>
<th>T</th>
<th>H</th>
<th>D1</th>
<th>D2</th>
<th>L1</th>
<th>L2</th>
<th>A MAX.</th>
<th>M</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>AS22</td>
<td>1-01-F06S-X737</td>
<td>6</td>
<td>R1/8</td>
<td>12</td>
<td>15.5</td>
<td>20.7</td>
<td>28</td>
<td>32.4</td>
<td>13.6</td>
<td>27.7</td>
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<tr>
<td>AS22</td>
<td>1-01-F08S-X737</td>
<td>8</td>
<td>R1/4</td>
<td>17</td>
<td>19.5</td>
<td>22.5</td>
<td>22.3</td>
<td>34.8</td>
<td>16.4</td>
<td>48.7</td>
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<td>AS22</td>
<td>1-02-F06S-X737</td>
<td>6</td>
<td>R1/4</td>
<td>17</td>
<td>19.5</td>
<td>25.3</td>
<td>35.1</td>
<td>34.8</td>
<td>16.4</td>
<td>48.8</td>
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<tr>
<td>AS22</td>
<td>1-02-F08S-X737</td>
<td>8</td>
<td>R3/16</td>
<td>19</td>
<td>18.2</td>
<td>30.8</td>
<td>40.6</td>
<td>30.8</td>
<td>17.1</td>
<td>56.2</td>
</tr>
<tr>
<td>AS22</td>
<td>1-02-F10S-X737</td>
<td>10</td>
<td>R3/16</td>
<td>19</td>
<td>18.2</td>
<td>27.1</td>
<td>39.3</td>
<td>42.8</td>
<td>16.4</td>
<td>79.4</td>
</tr>
<tr>
<td>AS32</td>
<td>1-03-F08S-X737</td>
<td>8</td>
<td>R3/16</td>
<td>19</td>
<td>18.2</td>
<td>27.1</td>
<td>39.3</td>
<td>42.8</td>
<td>16.4</td>
<td>79.4</td>
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<td>10</td>
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<td>79.4</td>
</tr>
</tbody>
</table>

Related Equipment

Spatter cover
(Applicable tubing: FR soft nylon, FR double layer, FR three-layer)

<table>
<thead>
<tr>
<th>Model</th>
<th>Applicable tubing O.D.</th>
<th>L1</th>
<th>L2</th>
<th>oD1</th>
<th>oD2</th>
</tr>
</thead>
<tbody>
<tr>
<td>KQB2-06C-X1124</td>
<td>6</td>
<td>24.6</td>
<td>16.6</td>
<td>13.5</td>
<td>11.6</td>
</tr>
<tr>
<td>KQB2-08C-X1124</td>
<td>8</td>
<td>30.2</td>
<td>20.6</td>
<td>16.4</td>
<td>14.2</td>
</tr>
<tr>
<td>KQB2-10C-X1124</td>
<td>10</td>
<td>34.4</td>
<td>24.6</td>
<td>19.3</td>
<td>16.2</td>
</tr>
</tbody>
</table>

* Since the spatter cover is designed for multi-layer (double layer, three-layer) tubing, sufficient effects cannot be obtained in foreign matter flow-in or followability for single-layer tubing.
* The cover can be attached regardless of the single-layer/multi-layer tubing.

Safety Instructions
Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

 Needle Valve/Flow-rate Characteristics

AS22|1-01-F06S-X737

Inlet pressure: 0.5 MPa

Flow rate L/min (ANR)

AS22|1-02-F08S-X737

Inlet pressure: 0.5 MPa

Flow rate L/min (ANR)

AS32|1-03-F10S-X737

Inlet pressure: 0.5 MPa

Flow rate L/min (ANR)

Can also be used for the KQB2/KQG2 series.
* Cannot be used for union "Y" (KQBU/KQG2U) 2-port side.

Spatter cover

Silicone rubber

Sales unit: 10 pcs./bag

Metal One-touch Fittings
Series KQB2

Stainless Steel 316 One-touch Fittings
Series KQG2

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* The cover can be attached regardless of the single-layer/multi-layer tubing.