Multi Cupla
MAM Type

For Multi-Port Connection (Manual)

Simultaneously connects several ports securely in one operation!
Greatly cuts cycle time in multiple ports replacement.

- Handles several ports at once.
- Simple action with lever enables easy connection/disconnection manually.
- Comes with lock mechanism to prevent accidental disconnection.
- Valve on socket side only.

Specifications

- Body material: Cupla - Brass (Chrome plated), Plate - Aluminum alloy (4, 8, 12 ports), Plate - Steel (16 ports)
- Locking unit: Steel and others
- Size (Thread): Rc 1/8
- Pressure unit: MPa, kgf/cm², bar, PSI
- Working pressure: 0.7 MPa, 7 kgf/cm², 7 bar, 102 PSI
- Seal material: NBR (SG)
- Working temperature range: -20°C to +60°C

Max. Tightening Torque

- Torque: 5 (Nm) [11 (kgf-cm)]

Interchangeability

- No connection is possible between plates with different number of ports.

Min. Cross-Sectional Area

- Per port: 15.9 mm²

Suitability for Vacuum

- Not suitable for vacuum application in either connected or disconnected condition.

Pressure – Flow Characteristics

<table>
<thead>
<tr>
<th>Pressure in MPa (kgf/cm²)</th>
<th>Flow rate in m³/min</th>
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<tbody>
<tr>
<td>0</td>
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<tr>
<td>0.1</td>
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<td>0.6</td>
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<tr>
<td>0.7</td>
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</tbody>
</table>

Pressure – Flow Characteristics Per port with Cupla

[Test conditions] Fluid: Air, Temperature: Room temperature

Models and Dimensions

Model MAM-1TP-4 x MAM-1S-4 (4 ports type)

- Application: R 1/8
- Mass: 150 g (Plug), 500 g (Socket)

Model MAM-1TP-8 x MAM-1S-8 (8 ports type)

- Application: R 1/8
- Mass: 250 g (Plug), 650 g (Socket)
**Models and Dimensions WAF**

WAF - WAF stands for width across flats.

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**Model MAM-1TP-12 x MAM-1S-12 (12 ports type)**

Application: R 1/8  Mass: 350 g (Plug), 800 g (Socket)

**Plug: Model MAM-1TP-12**

Dimensions (mm)

- Connect position: 30 (21)
- Disconnect position: 40 (179)
- Valve open position: 170

**Socket: Model MAM-1S-12**

Dimensions (mm)

- Connect position: 30 (21)
- Disconnect position: 40 (179)
- Valve open position: 170

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**Model MAM-1TP-16 x MAM-1S-16 (16 ports type)**

Application: R 1/8  Mass: 680 g (Plug), 1180 g (Socket)

**Plug: Model MAM-1TP-16**

Dimensions (mm)

- Connect position: 30 (21)
- Disconnect position: 40 (179)
- Valve open position: 170

**Socket: Model MAM-1S-16**

Dimensions (mm)

- Connect position: 30 (21)
- Disconnect position: 40 (179)
- Valve open position: 170

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**Plug Model MAS-1TP (Individual Cupla)**

- Application: R 1/8  Mass: 17 g
- Can be mounted on model MAM-1TP-4/MAM-1TP-8/MAM-1TP-12/MAM-1TP-16.

**Socket Model MAS-1S (Individual Cupla)**

- Application: R 1/8  Mass: 33 g
- Can be mounted on model MAM-1S-4/MAM-1S-8/MAM-1S-12/MAM-1S-16.

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Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.