Quick-fitting Type Coupling
Light Coupling Series

Features
- The Light Coupling models are couplings incorporating the quick-fitting joint for pneumatic piping.
- This series is compatible with the couplings existing in your factory.
- The socket comes with a stop mechanism that stops air simultaneously with the removal of the plug.
- Connection and disconnection of the couplings can be done with a single hand.
- The resin couplings are lightweight and compact (20, 15 series)
- The plug comes in not only the normal type but also the silencer type and the check valve type. The silencer type reduces the noise and shock at the release of the residual pressure, whereas the check valve type does not allow the flow of the residual pressure.
- Coupling module can be used not only to extend the coupling but also in combination with the Main Block. Number of blocks can be chosen for applications.

Construction (15 series)

*Component materials of 20, E3, and E7 series are different from the above diagram.

Graphical representation
*all sockets and plug with check valve only

Socket
- Sleeve spring (stainless steel)
- Valve guide (polyacetal)
- Valve spring (stainless steel)
- Metallic body (nickel-plated brass)
- Valve (polyacetal)
- Valve seal (nitrile rubber)
- Lock ball (stainless steel)
- O-ring (nitrile rubber)

Plug
- Elastic sleeve (nitrile rubber)
- Lock claw (stainless steel)
- Plug body (PBT with glass)
- Release ring (polyacetal)
- Tube

Specification

<table>
<thead>
<tr>
<th>Series</th>
<th>20 series</th>
<th>15 series</th>
<th>E7 series</th>
<th>E3 series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid admitted</td>
<td>Air</td>
<td>Air, Water (conditional)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service pressure range</td>
<td>0<del>150 psi (0</del>0.9MPa)</td>
<td>32<del>140°F (0</del>60°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service temperature range</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effective cross-section</td>
<td>20mm²</td>
<td>15mm²</td>
<td>7mm²</td>
<td>3mm²</td>
</tr>
</tbody>
</table>

*Conditions of Water (when used)
1. Operating temperature: 0 to 60°C (32 to 140°F)
2. Operating pressure: 0 to 0.3MPa (0 to 43.5 psi)
3. No water hammer is allowed.
4. Be sure to install the insert ring

Warning
Be fore using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on pages 23~24 and "Common Safety Instructions for Quick-Fitting Joint" on pages 29~31.

1. Before releasing the plug body other than the plug with check mechanism or silencer, make certain that the pressure inside the tube is zero and that the temperature of water has dropped below 30°C(86°F). Releasing at pressures above zero or with the water or thermal oil hotter than 30°C(86°F) may cause the plug to fly out, thus inflicting injuries or burns on you.

2. Never touch the sleeve on the socket when it is under pressure. Touching may release it.

3. When the fluid admitted with the E3 or E7 series is water, do not use the PISCO device unless the application satisfies all the conditions required in Specifications. Otherwise damage may be caused to the joint body, the tube may come off or leakage may result.

4. Provide brackets or other support means when the block is subject to bending loads or when the block consists of many joints. Use without such support means may cause deformation of the mated equipment or damage to the joint body.

5. Function

   - No code : Without silencer, without check valve
   - S : Silencer type
   - C : Check valve type

   *Fill this in only for 20 series

6. Color

   - W : Ivory
   - B : Black

   *Color variation is not available for CPP Thread Straight.

   *Fill this in only for 20 and 15 series.

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**Detailed Safety Instruction**

Be fore using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on pages 23~24 and "Common Safety Instructions for Quick-Fitting Joint" on pages 29~31.

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### Warning

1. When fitting the plug to the socket, make sure that it is pushed fully into the socket. Imperfect fitting may result in the falling out of the plug. After installation, pull the plug body lightly to make certain that it does not come off.

2. Be careful when you release the plug body with check mechanism or silencer with some internal pressure working. It can fly out under pressure.

3. When installing or removing the Coupling, use a supplied main block assembling wrench. Without the use of this tool, assembly may be difficult or deformation of the body may result.

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