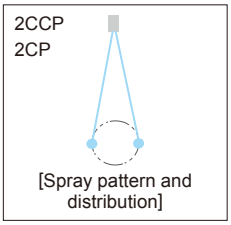
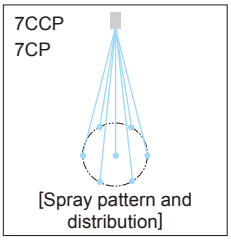
# Multi-Orifice Solid Stream Jet

Made-to-Order

# 2CCP·7CCP/2CP·7CP




- Multiple solid streams with high impact force.
- 2-orifice and 7-orifice nozzles are available.
- Compact design.

**[STANDARD PRESSURE]**
1.0 MPa

**[APPLICATIONS]**
Cleaning: Wire and felt parts of paper making machines, dandy rolls, machine parts, bottles, vehicles, returnable containers

## 2CCP, 7CCP SERIES (all metal)

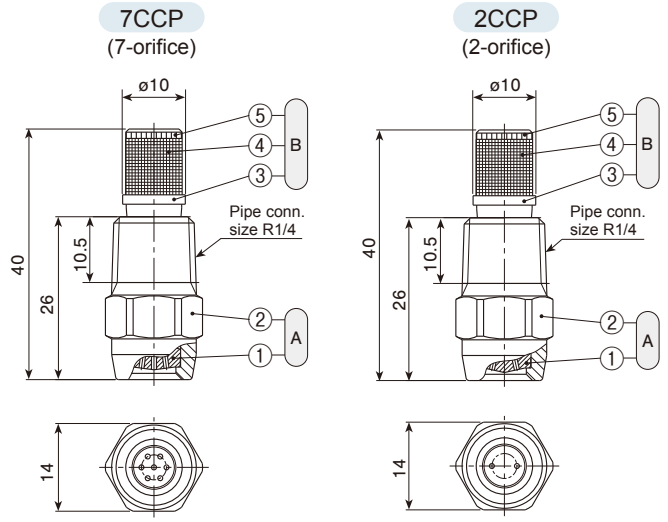
| | |
|---|---|
| Structure | • Metal one-piece structure.<br>Some models are available with strainer. |
| Material | • S303<br>SPECIAL ORDER MATERIAL: S420J2 (nozzle orifice only) |
| Weight*1 | • 16 g |

*1) With strainer, add 2 g to the above weight.

[Note] Appearance and dimensions may differ slightly depending on material and nozzle code.

DRAWING

Unit: mm




Ⓐ **Nozzle** (①Nozzle orifice ②Nozzle body)
Ⓑ **Strainer** (③Strainer holder ④Strainer screen ⑤Strainer cap)

## 2CP, 7CP SERIES (with ceramic orifice)

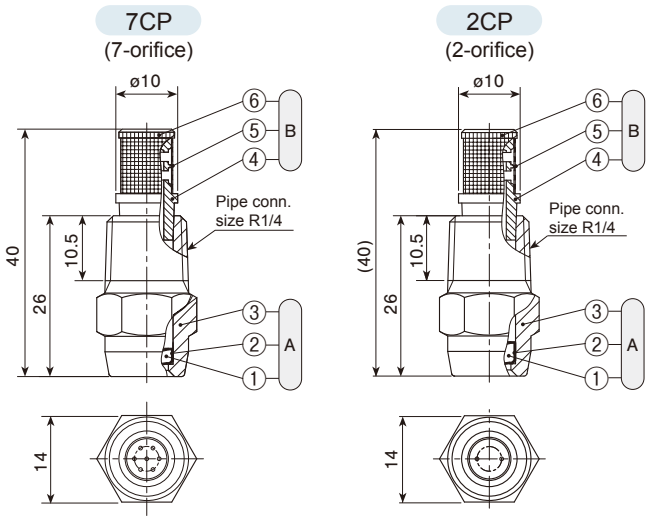
| | |
|---|---|
| Structure | • One-piece structure with a ceramic orifice insert.<br>Almost all models are available with strainer. |
| Material | • Nozzle orifice: ceramic<br>• Metal parts: S303 |
| Weight*2 | • 17 g |

*2) With strainer, add 5 g to the above weight.

[Note] Appearance and dimensions may differ slightly depending on material and nozzle code.

DRAWING

Unit: mm




Ⓐ **Nozzle** (①Ceramic orifice ②Adhesive: Araldite® H ③Nozzle body)
Ⓑ **Strainer** (④Strainer holder ⑤Strainer screen ⑥Strainer cap)

## ■2CCP/2CP Series (two-orifice nozzles)

| Spreading angle code | Spray capacity code | 2CCP (metal) | 2CP (with ceramic orifice) | Spreading angle*3 (°) 0.5 MPa | 1 MPa | 2 MPa | Spray capacity (L/min) 0.3 MPa | 0.5 MPa | 0.7 MPa | 1 MPa | 1.5 MPa | 2 MPa | 3 MPa | Free passage diameter (mm) | Strainer mesh size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 09 | | ● | 25 | 25 | 25 | 0.47 | 0.61 | 0.72 | 0.86 | 1.05 | 1.22 | 1.49 | 0.5 | 100 |
| | 12 | | ● | 25 | 25 | 25 | 0.68 | 0.88 | 1.04 | 1.24 | 1.52 | 1.75 | 2.15 | 0.6 | 100 |
| | 17 | ● | ● | 25 | 25 | 25 | 0.92 | 1.19 | 1.41 | 1.68 | 2.06 | 2.38 | 2.91 | 0.7 | 50 |
| | 22 | ● | ● | 25 | 25 | 25 | 1.19 | 1.54 | 1.82 | 2.18 | 2.67 | 3.08 | 3.78 | 0.8 | 50 |
| | 34 | ○ | ○ | 25 | 25 | 25 | 1.87 | 2.42 | 2.86 | 3.42 | 4.19 | 4.84 | 5.92 | 1.0 | – |
| 15 | 09 | | ● | 15 | 15 | 15 | 0.47 | 0.61 | 0.72 | 0.86 | 1.05 | 1.22 | 1.49 | 0.5 | 100 |
| | 12 | | ● | 15 | 15 | 15 | 0.68 | 0.88 | 1.04 | 1.24 | 1.52 | 1.75 | 2.15 | 0.6 | 100 |
| | 17 | ● | ● | 15 | 15 | 15 | 0.92 | 1.19 | 1.41 | 1.68 | 2.06 | 2.38 | 2.91 | 0.7 | 50 |
| | 22 | ● | ● | 15 | 15 | 15 | 1.19 | 1.54 | 1.82 | 2.18 | 2.67 | 3.08 | 3.78 | 0.8 | 50 |
| | 34 | ○ | ○ | 15 | 15 | 15 | 1.87 | 2.42 | 2.86 | 3.42 | 4.19 | 4.84 | 5.92 | 1.0 | – |
| 10 | 09 | | ● | 10 | 10 | 10 | 0.47 | 0.61 | 0.72 | 0.86 | 1.05 | 1.22 | 1.49 | 0.5 | 100 |
| | 12 | | ● | 10 | 10 | 10 | 0.68 | 0.88 | 1.04 | 1.24 | 1.52 | 1.75 | 2.15 | 0.6 | 100 |
| | 17 | ● | ● | 10 | 10 | 10 | 0.92 | 1.19 | 1.41 | 1.68 | 2.06 | 2.38 | 2.91 | 0.7 | 50 |
| | 22 | ● | ● | 10 | 10 | 10 | 1.19 | 1.54 | 1.82 | 2.18 | 2.67 | 3.08 | 3.78 | 0.8 | 50 |
| | 34 | ○ | ○ | 10 | 10 | 10 | 1.87 | 2.42 | 2.86 | 3.42 | 4.19 | 4.84 | 5.92 | 1.0 | – |

●: Available with or without strainer ○: Only available without strainer

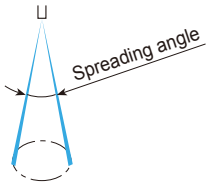
## ■7CCP/7CP Series (seven-orifice nozzles)

| Spreading angle code | Spray capacity code | 7CCP (metal) | 7CP (with ceramic orifice) | Spreading angle*3 (°) 0.5 MPa | 1 MPa | 2 MPa | Spray capacity (L/min) 0.3 MPa | 0.5 MPa | 0.7 MPa | 1 MPa | 1.5 MPa | 2 MPa | 3 MPa | Free passage diameter (mm) | Strainer mesh size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 30 | | ● | 15 | 15 | 15 | 1.65 | 2.13 | 2.52 | 3.01 | 3.69 | 4.26 | 5.21 | 0.5 | 100 |
| | 43 | | ● | 15 | 15 | 15 | 2.38 | 3.07 | 3.63 | 4.34 | 5.32 | 6.14 | 7.52 | 0.6 | 100 |
| | 59 | ● | ● | 15 | 15 | 15 | 3.22 | 4.16 | 4.92 | 5.88 | 7.20 | 8.32 | 10.2 | 0.7 | 50 |
| | 76 | ● | ● | 15 | 15 | 15 | 4.18 | 5.40 | 6.38 | 7.63 | 9.34 | 10.8 | 13.2 | 0.8 | 50 |
| | 119 | ○ | ○ | 15 | 15 | 15 | 6.52 | 8.41 | 9.96 | 11.9 | 14.6 | 16.8 | 20.6 | 1.0 | – |

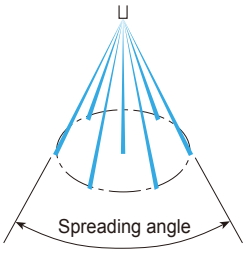
●: Available with or without strainer ○: Only available without strainer

*3) The spreading angle is the angle between the solid streams. For a seven-orifice nozzle it is the angle between the two streams directly opposite to each other and the furthest apart.

**2CCP/2CP**




**7CCP/7CP**




## HOW TO ORDER

To inquire about or order a specific nozzle please refer to this coding system.

### Two-Orifice Nozzles

Example: 1/4M 2CP 2517 S303W

| 1/4M | 2CP | 25 | 17 | S303 | W |
|---|---|---|---|---|---|
| Pipe conn. size*4 | Series | Spreading angle code | Spray capacity code | Material | Strainer |
| | ☐ 2CCP<br>☐ 2CP | ☐ 25<br>☐ 15<br>☐ 10 | ☐ 09<br>☐ ⟆<br>☐ 34 | | ☐ W (with strainer)<br>☐ (Blank indicates "without strainer") |

### Seven-Orifice Nozzles

Example: 1/4M 7CP 1559 S303W

| 1/4M | 7CP | 15 | 59 | S303 | W |
|---|---|---|---|---|---|
| Pipe conn. size*4 | Series | | Spray capacity code | Material | Strainer |
| | ☐ 7CCP<br>☐ 7CP | | ☐ 30<br>☐ ⟆<br>☐ 119 | | ☐ W (with strainer)<br>☐ (Blank indicates "without strainer") |

*4) "M" indicates male thread ("R" of the ISO standard), e.g. 1/4M = R1/4.

These nozzle series are made-to-order.