

For High Purity Chemicals

Semicon Cupla

SCT Type

For semiconductor production installation using fluoro-resin pipe lines

| | | | | | |
|----------------------------------|------------------------|--------------------------|-------|-----|-----|
| Working pressure | Valve structure | Applicable fluids | | | |
| 0.2 MPa (2 kgf/cm ²) | Two-way shut-off | High purity chemicals | Water | Gas | Air |

Adopted is polytetrafluoroethylene (PTFE) for the body.

- Polytetrafluoroethylene (PTFE) body gives excellent resistance to chemicals.
- Automatic shut-off valves in both socket and plug prevent fluid outflow from lines on disconnection.
- No dissolution of metal ions from part in contact with liquid ensures excellent reliability.
- All components are cleaned, assembled, inspected and then packed in a clean room.
- Appropriate model can be selected from an abundant variety of sizes to suit your application and fluid.



Specifications

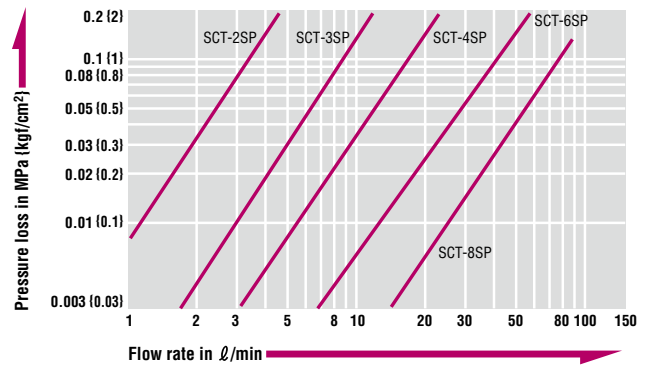
| | | | | |
|--|---------------------------------------|------|---------------------------|-------------------|
| Body material | Polytetrafluoroethylene (PTFE) | | | |
| Size | 1/4" • 3/8" • 1/2" • 3/4" • 1" | | | |
| Working pressure MPa (kgf/cm ²) | 0.2 {2} | | | |
| Pressure resistance MPa (kgf/cm ²) | 0.3 {3} | | | |
| Seal material | FEP-coated fluoro-rubber | Mark | Working temperature range | Remarks |
| Working temperature range | | — | +5°C~+50°C | Standard material |
| Valve | Fluorine contained resin (+5°C~+50°C) | | | |

Min. Cross-Sectional Area (mm²)

| Model | SCT-2SP | SCT-3SP | SCT-4SP | SCT-6SP | SCT-8SP |
|---------------------------|---------|---------|---------|---------|---------|
| Min. cross-sectional area | 12 | 34 | 54 | 103 | 225 |

Flow Rate – Pressure Loss Characteristics

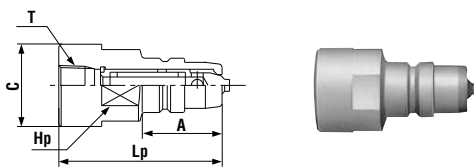
[Test conditions] • Fluid : Water • Temperature : 20°C ± 5°C



Models and Dimensions

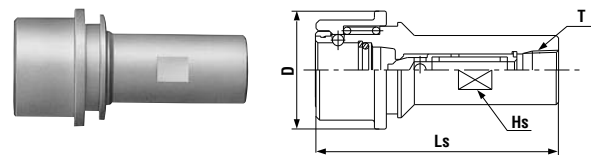
WAF : WAF stands for width across flat.

Plug Female thread



| Model | Mass (g) | Dimensions (mm) | | | | |
|------------|----------|-----------------|------|------|---------|------------------|
| | | Lp | A | øC | Hp(WAF) | T(Female thread) |
| SCT-2P | 43 | 59 | 30.5 | 27.5 | 24 | Rc 1/4 |
| SCT-2P-NPT | | | | | | 1/4-18NPT |
| SCT-3P | 77 | 68.5 | 33.5 | 34.5 | 30 | Rc 3/8 |
| SCT-3P-NPT | | | | | | 3/8-18NPT |
| SCT-4P | 91 | 69.5 | 37.5 | 39.5 | 36 | Rc 1/2 |
| SCT-4P-NPT | | | | | | 1/2-14NPT |
| SCT-6P | 160 | 78.5 | 45 | 48 | 41 | Rc 3/4 |
| SCT-6P-NPT | | | | | | 3/4-14NPT |
| SCT-8P | 300 | 112 | 60.5 | 59 | 50 | Rc 1 |
| SCT-8P-NPT | | | | | | 1-11.5NPT |

Socket Female thread



| Model | Mass (g) | Dimensions (mm) | | | |
|------------|----------|-----------------|------|---------|------------------|
| | | Ls | øD | Hp(WAF) | T(Female thread) |
| SCT-2S | 101 | 89.5 | 41 | 19 | Rc 1/4 |
| SCT-2S-NPT | | | | | 1/4-18NPT |
| SCT-3S | 156 | 102 | 49.5 | 24 | Rc 3/8 |
| SCT-3S-NPT | | | | | 3/8-18NPT |
| SCT-4S | 192 | 107 | 54.5 | 30 | Rc 1/2 |
| SCT-4S-NPT | | | | | 1/2-14NPT |
| SCT-6S | 340 | 123 | 68 | 36 | Rc 3/4 |
| SCT-6S-NPT | | | | | 3/4-14NPT |
| SCT-8S | 770 | 172.5 | 82 | 46 | Rc 1 |
| SCT-8S-NPT | | | | | 1-11.5NPT |

* Available end configurations are female ISO Rc thread and female NPT thread.

* Plug or socket with female ISO Rc end configuration has V-groove on the body as identification. (In case of female NPT thread, no V-groove on either plug or socket body.)

* Please inquire for the end configurations other than female thread, such as flanged or male thread.

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