

For High Purity Chemicals

Semicon Cupla

SCS Type

For semiconductor manufacturing equipment

Working pressure



0.2 MPa
(2 kgf/cm²)

Valve structure



Two-way shut-off

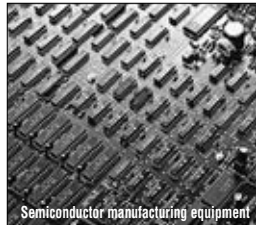
Applicable fluids



High purity chemicals
Water
Gas
Air



High purity chemicals
Water
Gas
Air



Adopted stainless steel body and fluorine contained resin valves.

- The body and spring material of stainless steel (SUS304), and valve of fluorine contained resin ensure excellent performance with various chemicals.
- Body (SUS304) is electropolished for enhanced corrosion resistance.
- Plug comes with a dust cap.

Specifications

| | | | | |
|--|--|-------------|---------------------------|-------------------|
| Body material | Electropolished stainless steel (SUS304) | | | |
| Size | 1/8" • 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 (Socket o-ring) | Seal material | Mark | Working temperature range | Remarks |
| | Perfluoroelastomer | P | 0°C~+50°C | Standard material |
| | Ethylene-propylene rubber * | EPDM (EPT) | 0°C~+50°C | Standard material |
| Working temperature range | Fluoro rubber * | FKM (X-100) | 0°C~+50°C | Standard material |
| Valve | Fluorine contained resin (1/8"•1/4") Fluorine contained resin+SUS304 (3/8"•1/2"•3/4"•1") | | | |

*Available on request.

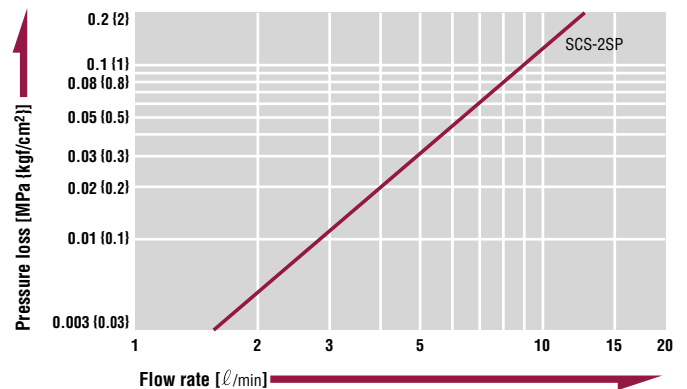
Min. Cross-Sectional Area

(mm²)

| Model | SCS-1SP | SCS-2SP | SCS-3P | SCS-4P | SCS-6P | SCS-8P |
|---------------------------|---------|---------|--------|--------|--------|--------|
| Min. Cross-Sectional Area | 15 | 23 | 28 | 71 | 110 | 162 |

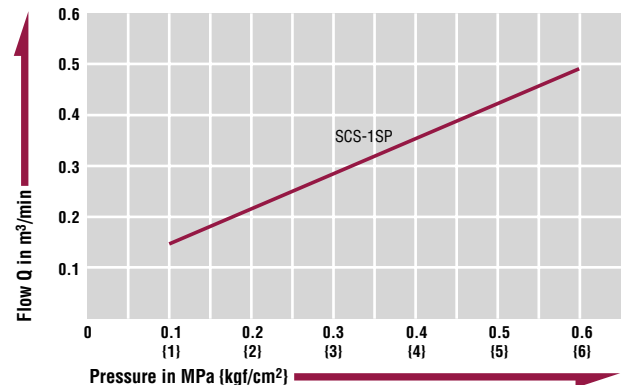
Flow Rate – Pressure Loss Characteristics

[Test conditions] • Fluid : water • Temperature : 10°C ± 5°C



Pressure - Flow Characteristics

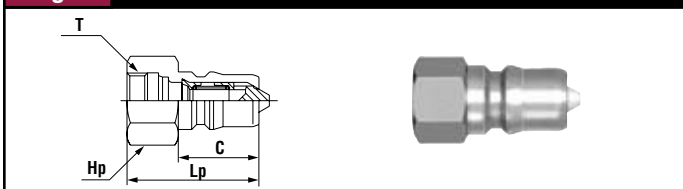
[Test conditions] • Fluid : Air • Temperature : 20°C ± 5°C



Models and Dimensions

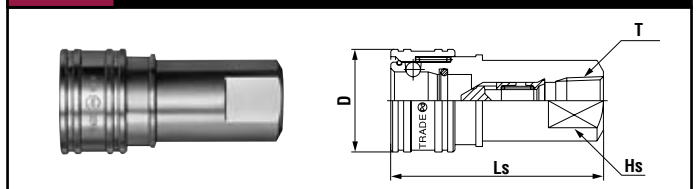
WAF : WAF stands for width across flats.

Plug Female thread



| Model | Container capacity | Mass (g) | Dimensions (mm) | | | |
|------------|--------------------|----------|-----------------|----|---------|------------------|
| | | | Lp | C | Hp(WAF) | T(Female thread) |
| SCS-1P | For 10ℓ~20ℓ | 17 | 29 | 19 | Hex.14 | Rc 1/8 |
| SCS-1P-UNS | For 10ℓ~20ℓ | 34 | 33 | 19 | Hex.21 | 19/32-18UNS |
| SCS-1P-NPT | For 10ℓ~20ℓ | 17 | 29 | 19 | Hex.14 | NPT 1/8 |
| SCS-2P | For 10ℓ~20ℓ | 32 | 34 | 22 | Hex.17 | Rc 1/4 |
| SCS-2P-UNS | For 10ℓ~20ℓ | 41 | 36 | 22 | Hex.21 | 19/32-18UNS |
| SCS-2P-NPT | For 10ℓ~20ℓ | 29 | 34 | 22 | Hex.17 | NPT 1/4 |
| SCS-3P | For 100ℓ~200ℓ | 61 | 40 | 25 | Hex.21 | Rc 3/8 |
| SCS-4P | For 100ℓ~200ℓ | 114 | 44 | 28 | Hex.29 | Rc 1/2 |
| SCS-6P | For 100ℓ~200ℓ | 198 | 52 | 36 | Hex.35 | Rc 3/4 |
| SCS-8P | For 100ℓ~200ℓ | 338 | 62 | 40 | Hex.41 | Rc 1 |

Socket Female thread



| Model | Container capacity | Mass (g) | Dimensions (mm) | | | |
|------------|--------------------|----------|-----------------|----|--------------|------------------|
| | | | Ls | øD | Hs(WAF) | T(Female thread) |
| SCS-1S-NPT | For 10ℓ~20ℓ | 84 | 48 | 24 | Two flats 14 | NPT 1/8 |
| SCS-2S-NPT | For 10ℓ~20ℓ | 138 | 58 | 28 | Two flats 19 | NPT 1/4 |

Interchangeability check list (SCS Type • SCY Type)

● indicates connection capability except for made-to-order products.

| Plug | Model | Socket | | | | | | | |
|----------|-------|----------|-----|-----|-----|----------|-----|-----|-----|
| | | SCS Type | | | | SCY Type | | | |
| | | -1S | -2S | -1S | -2S | -3S | -4S | -6S | -8S |
| SCS Type | -1P | ● | | ● | | | | | |
| | -2P | | ● | | ● | | | | |
| | -3P | | | | | ● | | | |
| | -4P | | | | | | ● | | |
| | -6P | | | | | | | ● | |
| | -8P | | | | | | | | ● |

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