

For High Purity Chemicals

Semicon Cupla

SCY 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



Fluorine contained resin packing seal and perfluoroelastomer packing seal are used to reduce required connection load and to achieve tight sealing.

- The material of body and spring are of stainless steel (SUS304), while that of valve is of fluorine contained resin. The combination shows excellent performance with various types of chemicals.
- Body (SUS304) is electropolished for enhanced corrosion resistance.
- Flanged body makes it easy to operate even with gloves.

Interchangeability check list (SCS Type - SCY Type)

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

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

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 packing) | Seal material | Mark | Working temperature range | Remarks |
| Working temperature range | Perfluoroelastomer | P | 0°C~+50°C | Standard material |
| Valve | Fluorine contained resin | | | |

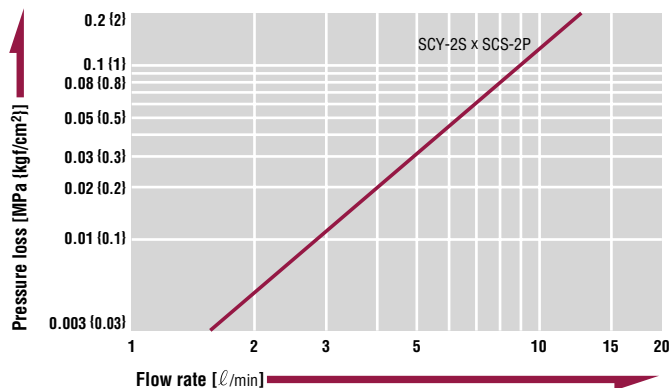
*If you need other seal material than Perfluoroelastomer, please consult with us.

Min. Cross-Sectional Area (mm²)

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

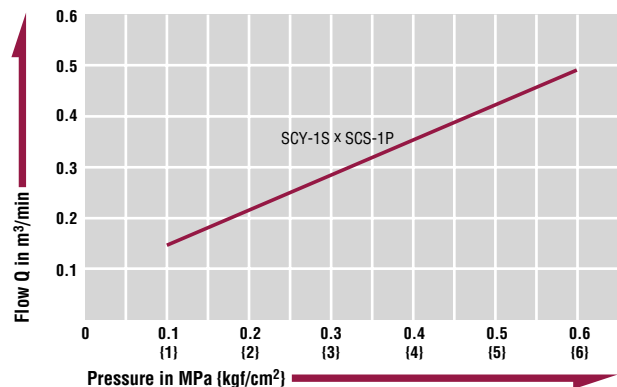
Flow Rate - Pressure Loss Characteristics

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



Pressure - Flow Characteristics

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



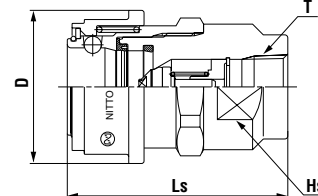
Interchangeability

Can be connected with plugs of SCS Type of the same size.

Models and Dimensions

WAF : WAF stands for width across flats.

Socket Female thread



| Model | Container capacity | Mass (g) | Dimensions (mm) | | | |
|------------|--------------------|----------|-----------------|----|--------------|------------------|
| | | | Ls | ØD | Hs(WAF) | T(Female thread) |
| SCY-1S | For 10ℓ~20ℓ | 116 | 48 | 29 | Two flats 18 | Rc 1/8 |
| SCY-1S-NPT | For 10ℓ~20ℓ | 116 | 48 | 29 | Two flats 18 | NPT 1/8 |
| SCY-2S | For 10ℓ~20ℓ | 180 | 58 | 33 | Two flats 22 | Rc 1/4 |
| SCY-2S-NPT | For 10ℓ~20ℓ | 180 | 58 | 33 | Two flats 22 | NPT 1/4 |
| SCY-3S | For 100ℓ~200ℓ | 292 | 65 | 39 | Two flats 27 | Rc 3/8 |
| SCY-4S | For 100ℓ~200ℓ | 519 | 72 | 50 | Two flats 35 | Rc 1/2 |
| SCY-6S | For 100ℓ~200ℓ | 862 | 88 | 59 | Two flats 41 | Rc 3/4 |
| SCY-8S | For 100ℓ~200ℓ | 1360 | 102 | 68 | Two flats 50 | Rc 1 |

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