

SUS316 Flow Controller - 1 way restricted

Flow Controller SUS316



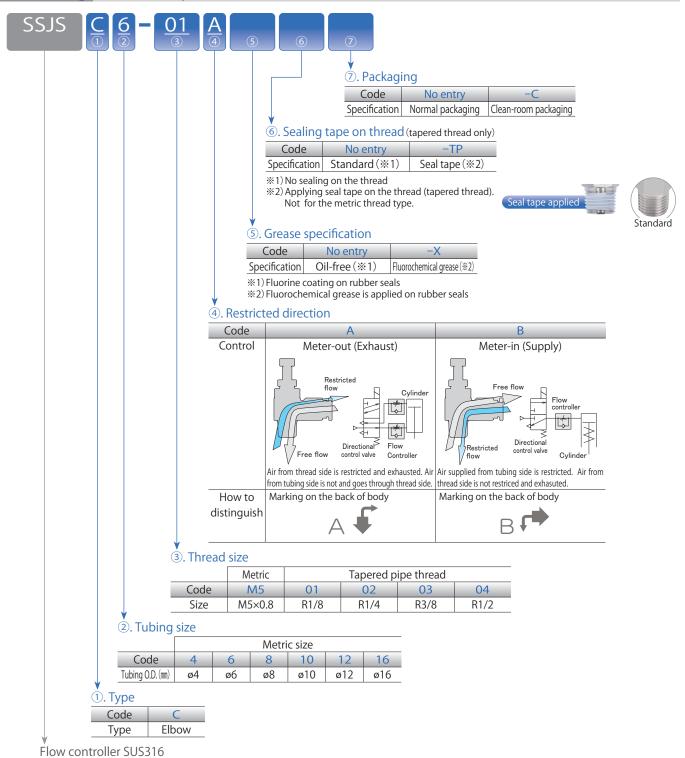
- All parts used are Free from Oil
- External parts are Food Sanitaion Law compliant (Refer to our website for details)
- External parts are made of SUS316 stainless steel
- The material of rubber seal is FKM (HNBR as to diaphragm)



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SUS316 Flow Controller

Model designation (Example)

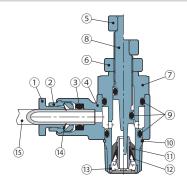


Specification

| Fluid medium | Air |
|------------------------------|---------------------------------------|
| Operating pressure range | 14.5 ~ 130 psi (0.1 ~ 0.9MPa) |
| Operating temperature range | 23 ~ 140° F (-5 ~ 60°C) (No freezing) |
| Valve seat cracking pressure | 7.25 psi (0.05MPa) |



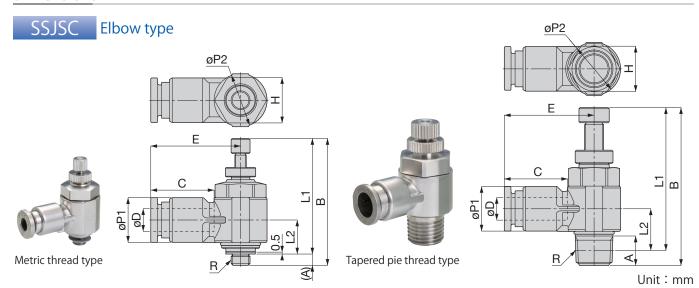
Structure Elbow type: SSJSC4-01A model



| No. | Part | Materical (Treatment) | | | | | |
|------|----------------|---|--|--|--|--|--|
| 1) | Release ring | SUS316 (※1) | | | | | |
| 2 | Guide ring | SUS316 | | | | | |
| 3 | Elastic sleeve | FKM (※1) | | | | | |
| 4 | Fitting | SUS316 | | | | | |
| (5) | Knob | SUS316 | | | | | |
| 6 | Locking nut | SUS316 | | | | | |
| 7 | Main body | SUS316 (※2) | | | | | |
| 8 | Needle | SUS316 | | | | | |
| 9 | O-ring | FKM (※1) | | | | | |
| 10 | C-ring | SUS316 | | | | | |
| (1) | Retainer | PBT | | | | | |
| (12) | Diaphragm | HNBR | | | | | |
| 13) | Core cylinder | Special stainless steel (Austenitic or Ferritic) (※3) | | | | | |
| (14) | Lock craws | SUS316 | | | | | |
| (15) | Tubing | Tubing Any applicable tubing | | | | | |

^{%1)} Fluorine coating

Dimensions



| Model | Tubing O.D. | R | ۸ | E | 3 | L | 1 | L2 | øP1 | øP1 øP2 | | Е | Hex | Weight | Price (\$) | |
|----------------|-------------|--------|------|--------|--------|--------|--------|------|------|---------|------|------|-----|--------|------------|--------|
| Model | øD | | А | (max.) | (min.) | (max.) | (min.) | LZ | ØFI | ØFZ | С | E . | Н | (g) | ⑦:No entry | ⑦:-C |
| SSJSC4-M5457 | 4 | M5×0.8 | 3 | 33.6 | 30.9 | 30.6 | 27.9 | 9 | 9.9 | 14 | 14.9 | 22.4 | 12 | 24 | 53.82 | 61.91 |
| SSJSC4-014567 | 4 | R1/8 | 7.8 | 41.8 | 35.2 | 37.8 | 31.2 | 11 | 9.9 | 14 | 14.9 | 22.4 | 12 | 28 | 55.45 | 63.82 |
| SSJSC6-M5457 | 6 | M5×0.8 | 3 | 33.6 | 30.9 | 30.6 | 27.9 | 9 | 11.8 | 14 | 16.8 | 23.8 | 12 | 26 | 53.82 | 61.91 |
| SSJSC6-014567 | O | R1/8 | 7.8 | 41.8 | 35.2 | 37.8 | 31.2 | 11 | 11.0 | 14 | | | 12 | 29 | 55.45 | 63.82 |
| SSJSC8-014567 | - 8 | R1/8 | 7.8 | 41.8 | 35.2 | 37.8 | 31.2 | 11.9 | 13.8 | 14 | 17.8 | 24.4 | 12 | 31 | 58.00 | 66.73 |
| SSJSC8-024567 | 0 | R1/4 | 10.6 | 49.2 | 42.5 | 43.2 | 36.5 | 13.1 | 13.0 | 19 | 17.0 | 26.7 | 17 | 57 | 70.18 | 80.73 |
| SSJSC10-024567 | 10 | R1/4 | 10.6 | 49.2 | 42.5 | 43.2 | 36.5 | 14.6 | 16.8 | 19 | 19.7 | 30.7 | 17 | 65 | 79.09 | 91.00 |
| SSJSC10-034567 | 10 | R3/8 | 13.2 | 56.5 | 47.9 | 50.2 | 41.6 | 16.9 | 10.0 | 23 | 31.2 | 21 | 96 | 118.18 | 135.91 | |
| SSJSC12-034567 | 12 | R3/8 | 13.2 | 56.5 | 47.9 | 50.2 | 41.6 | 18.4 | 19.8 | 23 | 23.3 | 36 | 21 | 107 | 151.36 | 174.09 |
| SSJSC12-044567 | 12 | R1/2 | 15.4 | 62.3 | 54.2 | 54.1 | 46 | 18.7 | 19.0 | 28 | | 37.3 | 24 | 151 | 163.64 | 188.18 |
| SSJSC16-044567 | 16 | R1/2 | 15.4 | 62.3 | 54.2 | 54.1 | 46 | 20.7 | 23.7 | 28 | 24 | 40.4 | 24 | 161 | 190.45 | 219.09 |

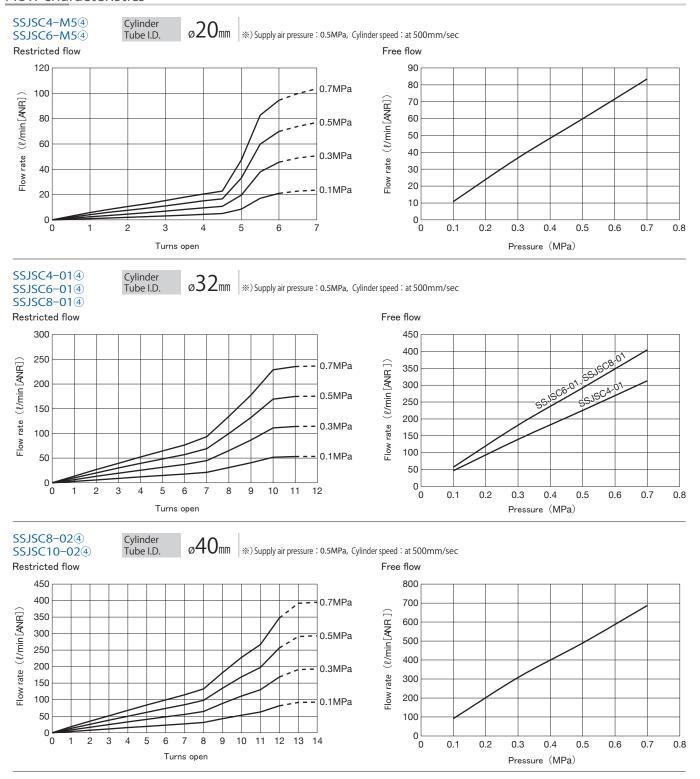
 $[\]ensuremath{\%}\xspace)$ L1 and L2 dimensions of tapered thread type are the ones after it is installed.

\$0.45 for 'Fluorochemical grease (-X) : ⑤' and 'Seal tape (-TP) : ⑥' to the price mentioned above respectively. For instance, in case of SSJSC8-02A-X-TP, add \$0.90 to \$70.18

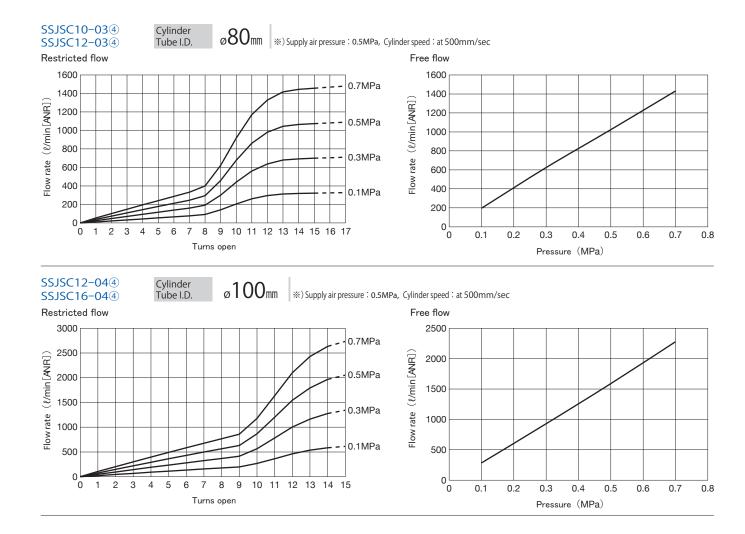
^{**2)} Metric thread type comes with a gasket (SUS316+FKM) but there is no sealing tape nor sealock on the tapered pipe thread.
**3) Anti-corrosivity is equivalent to SUS303

SUS316 Flow Controller

Flow characteristics







Safety instruction

- 1. When adjusting the speed of actuators, gradually open the air by turning the adjusting needle from a fully closed position. In case the needle is open, an actuator can move suddenly. Turn the needle clockwise to close, and couter-clockwise to open.
- 2. When adjusting the flow rate, turn the adjusting needle gradually from its fully closed postion. In case the needle is in open position, the impact of pressure may cause damages to the product.

⚠ Caution

- 1.Flow controller permits some air leakage. Do not use the product for the application which requires no leakage.
- 2.Tapered thread is not coated with Sealock. When applying seal tape or sealant on the thread, 1.5 to 2 screw ridges from the edge of the thread should be left unapplied.
- 3. Corrosion resistance and dust emission varies depending on operating environment. When any negative effect is expected on machines or apparatuses, please carry out a prior evaluation taking the operating environment into considerration.
- 4.The material of the retainer is PBT, the diaphragm is HNBR and the core cylinder is Special stainless steel (Austenitic or Ferritic). Do not use the product in case there is a possibility that the material will cause a problem.

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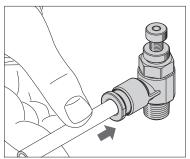
Installation

1. How to connect/disconnect a tubing to Push-in Fitting

①.Connecting tubings

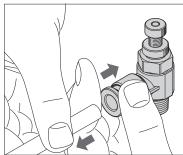
Insert a tubing into Push-in fitting up to the tube end. Lock-claws bite and hold the tubing spontaneously. The Elastic Sleeve seals the tubing at the same time.

Refer to "8-1. Instruction for Tube Insertion" under "Common Safety Instruction for Flttings" in the general catalog of PISCO



②.Tubing disconnection

The tubing is disconnected by pushing down the Release-ring to unlock the Lock-claws. Make sure to shut-off the air supply when disconnecting the tubing.



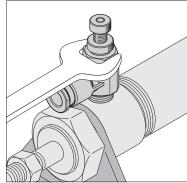
2. How to install

①. Tightening the thread

The product should be installed by a wrench. Regarding to models with tapered pipe threads, there is no Sealock applied on the threads. Seal tape or sealant may be applied when it is needed. Refer to the following chart 'Tightening toqrue and Gasket material' for installation.

Tightening torque and Gasket material

| | · · · · · · · · · · · · · · · · · · · | | | | | |
|-------------------|---------------------------------------|-------------------------|-----------------|--|--|--|
| Thread | Size | Tightening torque (N·m) | Gasket material | | | |
| Metric thread | M5×0.8 | 1 ~1.5 | SUS316 + FKM | | | |
| Taper pipe thread | R1/8 | 4.5 ~ 6.5 | | | | |
| | R1/4 | 7~9 | | | | |
| | R3/8 | 12.5 ~ 14.5 | _ | | | |
| | R1/2 | 20 ~ 22 | | | | |



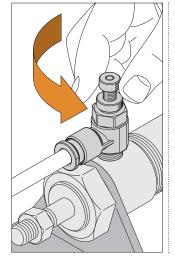
How to adjust

1. Speed adjustment of actuators

①.Increase speed

Turn the needle counterclockwise from a fully closed state.

The more the needle is opened, the faster the actuator moves. Make sure to fasten the locknut at the desired speed. The speed set can be changed without fastening the locknut.



②.Reducing speed

Turn the needel clockwise when the speed of actuator is faster than expected. Make sure to fasten the locknut at the desired speed. The speed set can be changed without fastening the locknut.

