

## Stainless Steel Speed Controller (Elbow Type) Series **ASG**

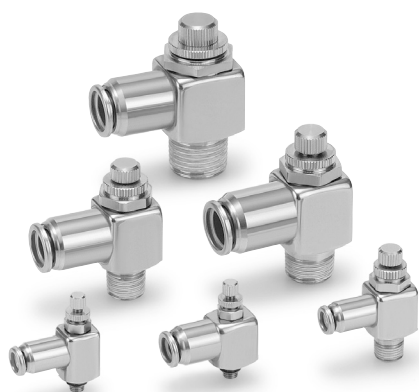
### Material:

### **Stainless steel 316**

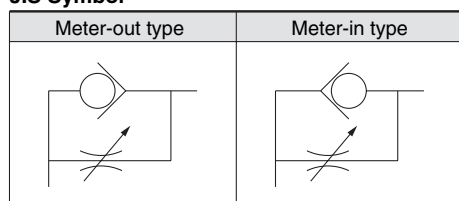
(Sealant: Special FKM)  
(Seat ring: Stainless steel 303)

### Applicable tubing materials

- FEP
- PFA
- Nylon
- Soft nylon
- Polyurethane
- Polyolefin



### JIS Symbol



Conforms to Food Sanitation Laws  
(Material of the component parts meets the apparatus  
and container packaging standards.)

### Flow Rate and Effective Area

| Model                  |                                   | ASG22□F-M5 | ASG32□F-01 |        | ASG42□F-02 |         | ASG52□F-03 |          | ASG62□F-04 |
|------------------------|-----------------------------------|------------|------------|--------|------------|---------|------------|----------|------------|
| Tubing O.D. (mm)       |                                   | ø4, ø6     | ø4         | ø6, ø8 | ø6         | ø8, ø10 | ø8         | ø10, ø12 | ø12        |
| Controlled (free) flow | Flow rate (ℓ/min (ANR))           | 100        | 180        | 230    | 390        | 460     | 790        | 920      | 1580       |
|                        | Effective area (mm <sup>2</sup> ) | 1.5        | 2.7        | 3.5    | 6          | 7       | 12         | 14       | 24         |

Note) Flow rate is measured at 0.5 MPa and 20°C.

### Model

| Elbow type | Port size | Applicable tubing O.D. (mm) |   |   |    |    | Applicable cylinder bore size (mm) |
|------------|-----------|-----------------------------|---|---|----|----|------------------------------------|
|            |           | 4                           | 6 | 8 | 10 | 12 |                                    |
| ASG22□F-M5 | M5 x 0.8  | ●                           | ● |   |    |    | 6, 10, 16, 20                      |
| ASG32□F-01 | R1/8      | ●                           | ● | ● |    |    | 20, 25, 32                         |
| ASG42□F-02 | R1/4      |                             | ● | ● | ●  |    | 20, 25, 32, 40                     |
| ASG52□F-03 | R3/8      |                             |   | ● | ●  | ●  | 40, 50, 63                         |
| ASG62□F-04 | R1/2      |                             |   |   |    | ●  | 63, 80, 100                        |

### Specifications

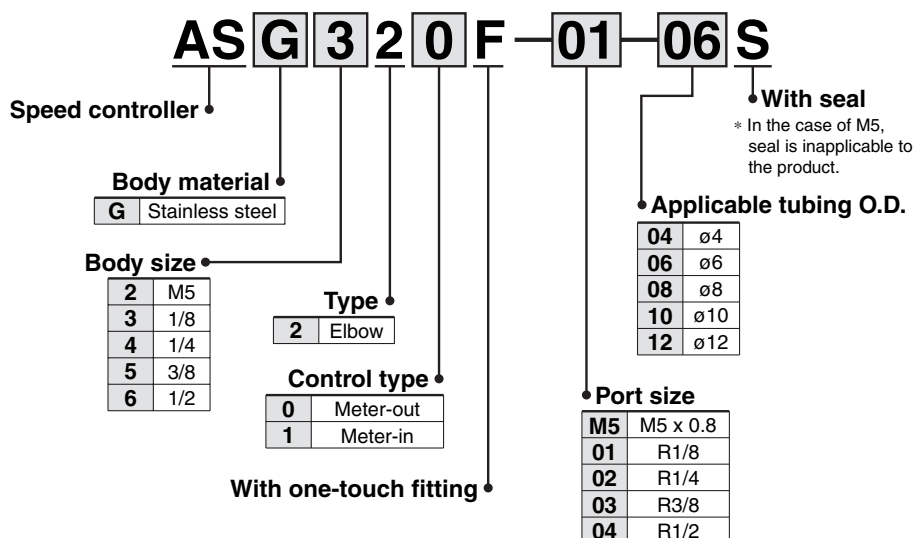
|                               |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| Fluid                         | Air                                                                       |
| Proof pressure                | 1.5 MPa                                                                   |
| Max. operating pressure       | 1 MPa                                                                     |
| Min. operating pressure       | 0.1 MPa                                                                   |
| Ambient and fluid temperature | -5 to 60°C (No freezing)                                                  |
| Number of needle rotations    | 10 turns (8 turns <sup>Note 1)</sup> )                                    |
| Applicable tubing material    | FEP, PFA, Nylon, Soft nylon, Polyurethane <sup>Note 3)</sup> , Polyolefin |

Note 1) In case of ASG22□F-M5

Note 2) Please be cautious of the max. operating pressure when soft nylon or polyurethane tubing is used.

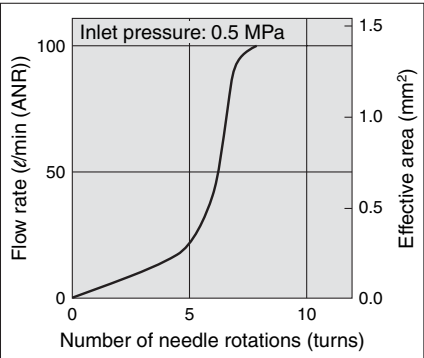
Note 3) When polyurethane tubing is used, please use an inner sleeve.

### How to Order

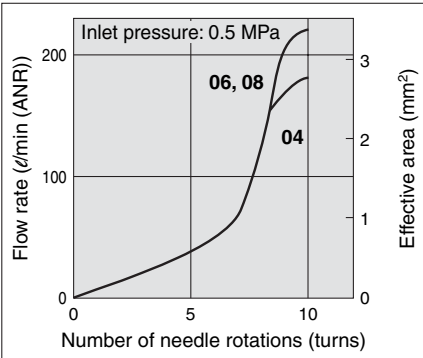


Needle Valve: Flow Characteristics

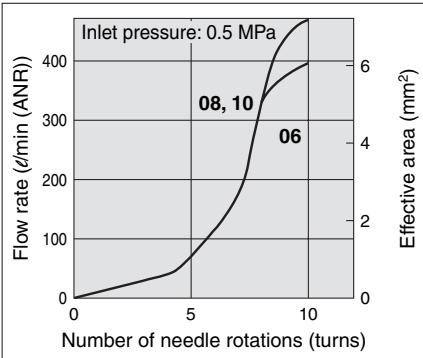
**ASG220F-M5**  
**ASG221F-M5**



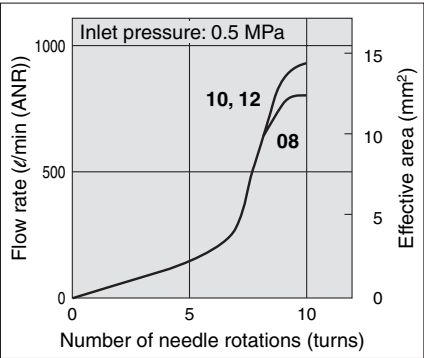
**ASG320F-01**  
**ASG321F-01**



**ASG420F-02**  
**ASG421F-02**



**ASG520F-03**  
**ASG521F-03**



**ASG620F-04**  
**ASG621F-04**

