

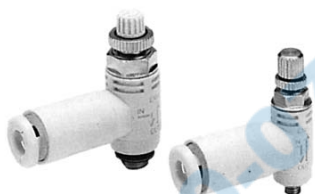
# Speed Exhaust Controller

## Series ASV

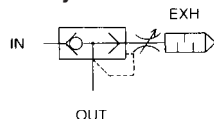
Size: M3, M5, 1/8, 1/4, 3/8

Integration of a quick exhaust valve and an exhaust restrictor permits high-speed cylinder operation.

- The effective area is two times larger. (In comparison with control by speed controller)  
Applicable model: ASV310F, ASV410F, ASV510F
- Silencer and One-touch fittings are installed.
- Flame resistant resin body as standard. (UL standard V-0)  
Applicable model: ASV310F, ASV410F, ASV510F
- Brass parts are all electroless nickel plated.



JIS Symbol



### How to Order

**ASV 3 1 0 F - 01 - 06 S K**

**Speed exhaust controller**

**Body size**

|   |     |
|---|-----|
| 1 | M3  |
| 2 | M5  |
| 3 | 1/8 |
| 4 | 1/4 |
| 5 | 3/8 |

**Type**

|   |              |
|---|--------------|
| 1 | Tee          |
| 2 | Elbow (Note) |

Note) "Elbow": M3, M5 only

**With One-touch fitting**

**Thread type**

|     |                |
|-----|----------------|
| Nil | M3, M5, U10/32 |
| N   | R              |
| N   | NPT            |

**Option**

|     |                    |
|-----|--------------------|
| Nil | None               |
| C   | With spatter cover |
| K   | Hexagonal lock nut |

Note) Option should be indicated in order of C and K. Available only for ASV310F, 410F and 510F.

**Seal**

| Symbol | Seal      | Applicable model  |
|--------|-----------|-------------------|
| Nil    | None      | ASV120F/E220F     |
| S      | With seal | ASV310F/410F/510F |

**Applicable tubing O.D.**

| Metric size |     | Inch size |        |
|-------------|-----|-----------|--------|
| 04          | ø4  | 03        | ø5/32" |
| 06          | ø6  | 07        | ø1/4"  |
| 08          | ø8  | 09        | ø5/16" |
| 10          | ø10 | 11        | ø3/8"  |
| 12          | ø12 | 13        | ø1/2"  |

**Port size**

|        |           |
|--------|-----------|
| M3     | M3 x 0.5  |
| M5     | M5 x 0.8  |
| U10/32 | 10-32 UNF |
| 01     | 1/8       |
| 02     | 1/4       |
| 03     | 3/8       |
| 04     | 1/2       |

### Model

| Model          | Port size | Applicable tubing O.D. (mm) |   |   |    |    |       |      |       |      |      | Effective area (mm <sup>2</sup> ) |            |
|----------------|-----------|-----------------------------|---|---|----|----|-------|------|-------|------|------|-----------------------------------|------------|
|                |           | 4                           | 6 | 8 | 10 | 12 | 5/32" | 1/4" | 5/16" | 3/8" | 1/2" | IN → OUT                          | OUT → EXH. |
| ASV120F-M3     | M3 x 0.5  | ●                           |   |   |    |    |       |      |       |      |      | 0.3                               | 0.3        |
| ASV220F-M5     | M5 x 0.8  | ●                           | ● |   |    |    |       |      |       |      |      | 1.3                               | 1.3        |
| ASV310F-01     | R 1/8     |                             | ● | ● |    |    |       |      |       |      |      | 7                                 | 8          |
| ASV310F-02     | R 1/4     |                             | ● | ● |    |    |       |      |       |      |      | 7                                 | 8          |
| ASV410F-01     | R 1/8     |                             |   | ● | ●  |    |       |      |       |      |      | 13.5                              | 14         |
| ASV410F-02     | R 1/4     |                             |   | ● | ●  |    |       |      |       |      |      | 13.5                              | 14         |
| ASV410F-03     | R 3/8     |                             |   | ● | ●  |    |       |      |       |      |      | 13.5                              | 14         |
| ASV510F-02     | R 1/4     |                             |   |   | ●  | ●  |       |      |       |      |      | 23                                | 27         |
| ASV510F-03     | R 3/8     |                             |   |   | ●  | ●  |       |      |       |      |      | 27                                | 29         |
| ASV510F-04     | R 1/2     |                             |   |   | ●  | ●  |       |      |       |      |      | 27                                | 29         |
| ASV220F-U10/32 | 10-32 UNF |                             |   |   |    | ●  | ●     |      |       |      |      | 1.3                               | 1.3        |
| ASV310F-N01    | NPT 1/8   |                             |   |   |    |    |       | ●    | ●     |      |      | 7                                 | 8          |
| ASV310F-N02    | NPT 1/4   |                             |   |   |    |    |       | ●    | ●     |      |      | 7                                 | 8          |
| ASV410F-N01    | NPT 1/8   |                             |   |   |    |    |       |      | ●     | ●    |      | 13.5                              | 14         |
| ASV410F-N02    | NPT 1/4   |                             |   |   |    |    |       |      | ●     | ●    |      | 13.5                              | 14         |
| ASV410F-N03    | NPT 3/8   |                             |   |   |    |    |       |      | ●     | ●    |      | 13.5                              | 14         |
| ASV510F-N02    | NPT 1/4   |                             |   |   |    |    |       |      |       | ●    | ●    | 23                                | 27         |
| ASV510F-N03    | NPT 3/8   |                             |   |   |    |    |       |      |       | ●    | ●    | 27                                | 29         |
| ASV510F-N04    | NPT 1/2   |                             |   |   |    |    |       |      |       | ●    | ●    | 27                                | 29         |

### Specifications

| Series                            | ASV120F                         | ASV220F | ASV310F/410F                           | ASV510F  |
|-----------------------------------|---------------------------------|---------|----------------------------------------|----------|
| Fluid                             | Air                             |         |                                        |          |
| Proof pressure                    | 1.5 MPa                         |         |                                        |          |
| Max. operating pressure           | 1 MPa                           |         |                                        |          |
| Min. operating pressure           | 0.1 MPa                         |         |                                        |          |
| Ambient and fluid temperature     |                                 |         |                                        |          |
| Number of needle rotations        | 10 turns                        | 8 turns | 12 turns                               | 15 turns |
| Applicable tubing material (Note) | Nylon, Soft nylon, Polyurethane |         |                                        |          |
| Option                            | Hexagonal lock nut              |         | With spatter cover, Hexagonal lock nut |          |

Note) Use caution regarding the max. operating pressure when soft nylon or polyurethane tubing is used.  
(Refer to pages 15-6-3 to 15-6-5 for details.)