

# Speed Controller: Standard Type

## Series AS

### In-line Type

Compact size saves space.

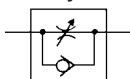
Speed may be accurately controlled even at low speeds.

Constant speed easily set.

Retainer prevents an accidental loss of needle.



JIS Symbol



#### Model/Flow Rate and Effective Area

| Model     | Port size | Free flow               |                                   | Controlled flow         |                                   | Applicable cylinder bore size (mm) | Weight (g) |
|-----------|-----------|-------------------------|-----------------------------------|-------------------------|-----------------------------------|------------------------------------|------------|
|           |           | Flow rate (l/min (ANR)) | Effective area (mm <sup>2</sup> ) | Flow rate (l/min (ANR)) | Effective area (mm <sup>2</sup> ) |                                    |            |
| AS1000-M3 | M3 x 0.5  | 20                      | 0.3                               | 20                      | 0.3                               | 2.5, 4, 6                          | 4.7        |
| AS1000-M5 | M5 x 0.8  | 90                      | 1.4                               | 80                      | 1.2                               | 6, 10, 16, 20, 25                  | 33         |
| AS2000-01 | 1/8       | 340                     | 5.2                               | 250                     | 3.8                               | 20, 25, 32, 40                     | 90         |
| AS2000-02 | 1/4       | 340                     | 5.2                               | 250                     | 3.8                               |                                    | 115        |
| AS3000-02 | 1/4       | 810                     | 12.3                              | 810                     | 12.3                              | 32, 40, 50, 63                     | 130        |
| AS3000-03 | 3/8       | 810                     | 12.3                              | 810                     | 12.3                              |                                    | 124        |
| AS4000-02 | 1/4       | 1,670                   | 25.5                              | 1,670                   | 25.5                              | 40, 50, 63                         | 221        |
| AS4000-03 | 3/8       | 1,670                   | 25.5                              | 1,670                   | 25.5                              | 80, 100                            | 214        |
| AS4000-04 | 1/2       | 1,670                   | 25.5                              | 1,670                   | 25.5                              |                                    | 205        |
| AS5000-02 | 1/4       | 2,840                   | 44                                | 2,840                   | 44                                | 40, 50, 63                         | 242        |
| AS5000-03 | 3/8       | 4,270                   | 66                                | 4,270                   | 66                                | 80, 100                            | 233        |
| AS5000-04 | 1/2       | 4,270                   | 66                                | 4,270                   | 66                                |                                    | 224        |

Note) Flow rate values are measured at 0.5 Mpa and 20°C.

#### Specifications

|                                  |                          |
|----------------------------------|--------------------------|
| Fluid                            | Air                      |
| Proof pressure note)             | 1.5 MPa (1.05 MPa)       |
| Max. operating pressure note)    | 1 MPa (0.7 MPa)          |
| Min. operating pressure note)    | 0.05 MPa (0.1 MPa)       |
| Ambient and fluid temperature    | -5 to 60°C (No freezing) |
| Number of needle rotations note) | 8 turns (10 turns)       |

Note) ( ): Values for AS1000.

#### Accessory

| Description | Part no. | Applicable model |
|-------------|----------|------------------|
| Nipple      | M-5N     | AS1000           |

Note) AS1000 with nipple: AS1000-M5-N

#### How to Order

**AS 1 000 — [ ] M5 — [ ]**

**Body size**

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

**Thread type**

|     |                        |
|-----|------------------------|
| Nil | Metric thread (M3, M5) |
| N   | Rc                     |
| F   | NPT                    |

**Bore size**

| Bore size | Applicable series            |
|-----------|------------------------------|
| M3        | M3 x 0.5 AS1000              |
| M5        | M5 x 0.8 AS1000              |
| 01        | Rc 1/8 AS2000                |
| 02        | Rc 1/4 AS2000/3000/4000/5000 |
| 03        | Rc 3/8 AS3000/4000/5000      |
| 04        | Rc 1/2 AS4000/5000           |

**Option**

|                  |                               |
|------------------|-------------------------------|
| H <sup>(1)</sup> | High temperature (-5 to 80°C) |
| L <sup>(2)</sup> | Low temperature (-30 to 60°C) |

Note 1) AS5000 is available as special.  
AS1000 is not applicable.  
Note 2) AS1000, AS2000 are not applicable.

#### Caution

Be sure to read before handling. Refer to pages 15-18-3 to 15-18-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 15-8-6 to 15-8-8 for Precautions on every series.