

# Z, H Series

Flow control valve

- SP**  
Straight type
- SPE**  
Elbow type
- SPF**  
Flat type
- SPER**  
Universal elbow type
- SPSR**  
Universal type
- SPR**  
Universal type  
(Air inlet specifications)



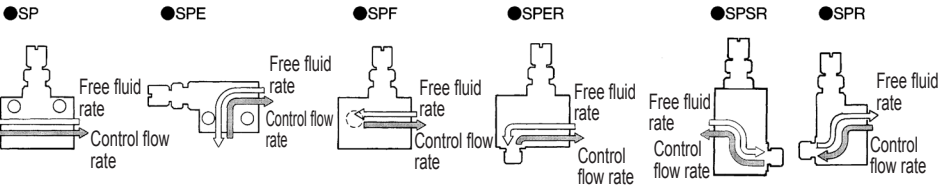
## Specifications

| Model No.                | Unit            | SP-Z-M3 | SPER-Z-M3 | SPSR-Z-M3 | SPR-Z-M3N |
|--------------------------|-----------------|---------|-----------|-----------|-----------|
| Port size                |                 | M3x0.5  |           |           |           |
| Effective area           | mm <sup>2</sup> | 0.4     |           |           |           |
| Cv value (fully open)    |                 | 0.022   |           |           |           |
| Fluid                    |                 | Air     |           |           |           |
| Operating pressure range | MPa             | 0~0.8   |           |           |           |
| Ambient temperature      | °C              | -5~60   |           |           |           |
| Weight                   | g               | 3       | 4         | 5         | 4         |

| Model No.                | Unit            | SP-H-M5 | SPE-H-M5 | SPF-H-M5 | SPER-H-M5 | SPSR-H-M5 | SPR-H-M5N |
|--------------------------|-----------------|---------|----------|----------|-----------|-----------|-----------|
| Port size                |                 | M5x0.8  |          |          |           |           |           |
| Effective area           | mm <sup>2</sup> | 1       |          |          |           |           |           |
| Cv value (fully open)    |                 | 0.056   |          |          |           |           |           |
| Fluid                    |                 | Air     |          |          |           |           |           |
| Operating pressure range | MPa             | 0~0.8   |          |          |           |           |           |
| Ambient temperature      | °C              | -5~60   |          |          |           |           |           |
| Weight                   | g               | 10      | 10       | 15       | 15        | 16        | 15        |

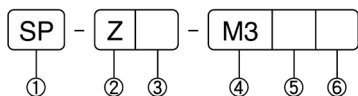
Note) Effective area: value measured when flow rate of speed controller is fully open. When the temperature falls below 5 °C, please provide air dryer to prevent water frozen.

## Control Method



ADD

## Representation



### ① Type

SP : Straight type  
 SPE : Elbow type  
 SPF : Flat type  
 SPER: Universal Elbow type  
 SPSR: Universal type  
 SPR : Universal type(Air inlet specifications)

### ② Series

Z: Z series  
 H: H series

### ③ Surface treatment

Without mark : Standard  
 S : Electroless nickel plating

### ④ Port size

M3: M3×0.5  
 M5: M5×0.8

### ⑤ Control method method

Without mark : Outlet flow control  
 N : Inlet flow control

Note) Inlet flow control is only available with SPR type

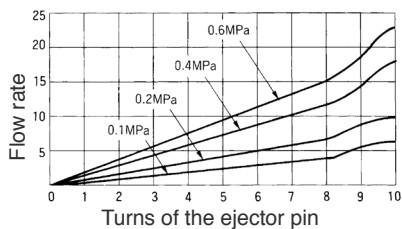
### ⑥ Special style

Without mark : Standard  
 N1 : No oil treatment

## Characteristic of the flow rate

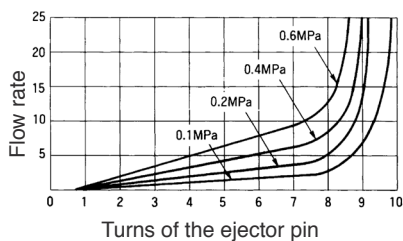
### Z Series

ℓ/min (ANR)

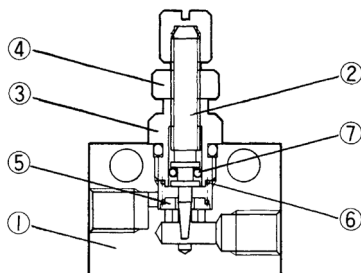


### H Series

ℓ/min (ANR)



## Structure



## Main Components

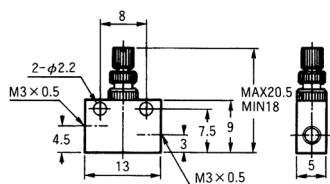
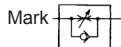
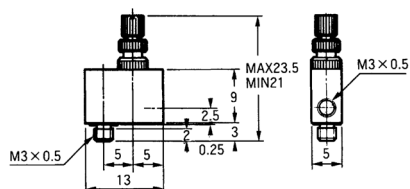
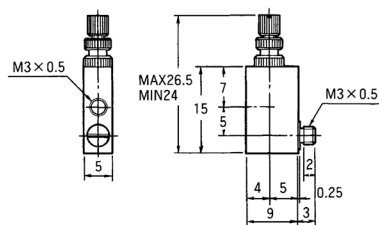
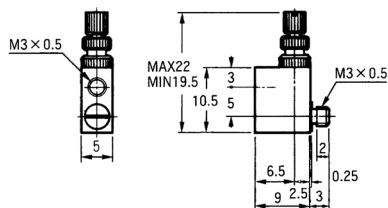
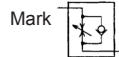
| No. | Component Name   |
|-----|------------------|
| 1   | Body             |
| 2   | Ejector pin      |
| 3   | Top cap          |
| 4   | Mounting nut     |
| 5   | Check valve seat |
| 6   | Spring           |
| 7   | O-ring           |



### Caution

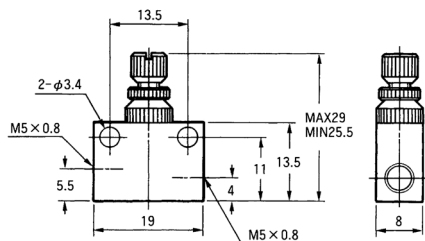
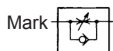
Before using speed control valve, please check the flowing direction first.

(Unit: mm)

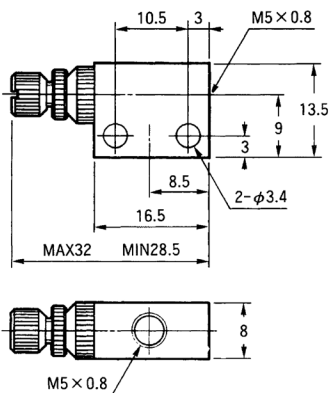
**SP-Z-M3****SPSR-Z-M3****SPER-Z-M3****SPR-Z-M3N**

(Unit: mm)

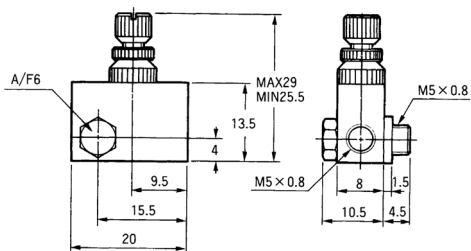
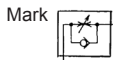
**SP-H-M5**



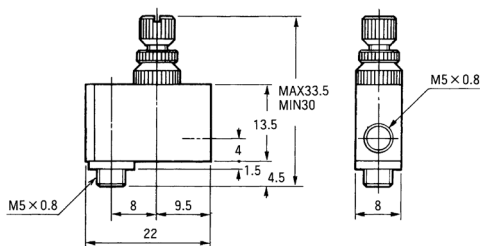
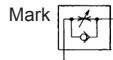
**SPE-H-M5**



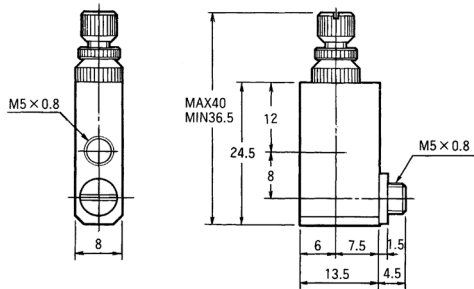
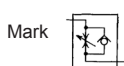
**SPF-H-M5**



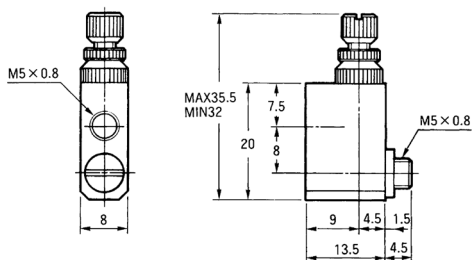
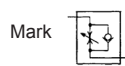
**SPER-H-M5**



**SPSR-H-M5**



**SPR-H-M5N**



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