

# Throttle (Needle) Valve Brass

Push-in fitting type brass needle valve for use in environments of high heat and weld spatters

## ⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

## Model Designation (Example)

|                   |                 |                 |                    |     |     |
|-------------------|-----------------|-----------------|--------------------|-----|-----|
| <b>KJN</b><br>(1) | <b>C</b><br>(2) | <b>6</b><br>(3) | <b>- 01</b><br>(4) | (5) | (6) |
|-------------------|-----------------|-----------------|--------------------|-----|-----|

### (1) Throttle (Needle) Valve Brass

### (2) Type

**C** : Elbow

### (3) Tube dia. (øD)

| Code           | 4  | 6  | 8  | 10  | 12  |
|----------------|----|----|----|-----|-----|
| Tube O.D. (mm) | ø4 | ø6 | ø8 | ø10 | ø12 |

### (4) Thread size (R)

|             | Metric thread | Taper pipe male thread |           |           |           |
|-------------|---------------|------------------------|-----------|-----------|-----------|
| Code        | <b>M5</b>     | <b>01</b>              | <b>02</b> | <b>03</b> | <b>04</b> |
| Thread size | M5×0.8        | R1/8                   | R1/4      | R3/8      | R1/2      |

### (5) Cover

| Code  | No code    | -1            |
|-------|------------|---------------|
| Cover | With cover | Without cover |

### (6) Seal rubber material (Optional)

| Code      | No code | -F  |
|-----------|---------|-----|
| Materials | HNBR    | FKM |

## Characteristics

Best suitable for high heat and spatter environments.

HNBR is used for seal material.

FKM specifications are also available as an option.

Invasion of tiny weld spatter can be shut out by using Release-ring cover

Avoiding invasion of tiny spatter from between release-ring and tube by using Release-ring cover (CS: refer to Tube Fitting Brass Series) which is separately sold.

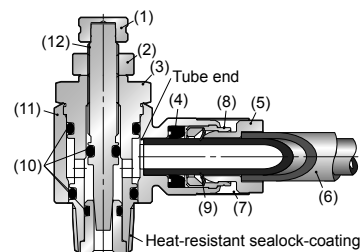
## Specifications

|                         |                                          |                                         |
|-------------------------|------------------------------------------|-----------------------------------------|
| Fluid medium            | Air, Water (Conditional*)                |                                         |
| Max. operating pressure | 1.0 MPa                                  |                                         |
| Max. vacuum             | -100 kPa                                 |                                         |
| Operating temp. range   | HNBR spec. :<br>0 to 100°C (No freezing) | FKM spec. :<br>0 to 120°C (No freezing) |

△Warning \* When the fluid medium is water, be sure to read and follow the conditions below.

1. Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium.
2. Tap water in Japan, which is soft water (low mineral content) can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
3. Be sure to place Insert Ring (WR) into the tube edge when using water as a fluid medium.

## Sectional drawing



| No.  | Parts          | Material                      |
|------|----------------|-------------------------------|
| (1)  | Knob           | Nickel-plated brass           |
| (2)  | Lock nut       | Nickel-plated brass           |
| (3)  | Thread body    | Nickel-plated brass           |
| (4)  | Elastic sleeve | HNBR (Standard specification) |
| (5)  | Release-ring   | Nickel-plated brass           |
| (6)  | Tube           | Anti-spatter tube, etc.       |
| (7)  | Cover          | Nickel-plated brass           |
| (8)  | Guide ring     | Nickel-plated brass           |
| (9)  | Lock claws     | Stainless steel               |
| (10) | O-ring         | HNBR (Standard specification) |
| (11) | Metallic body  | Nickel-plated brass           |
| (12) | Needle         | Nickel-plated brass           |

\*The gasket material of M5 thread is SUS316 + FKM.

RoHS2 (2011/65/EU+EU2015/863) compliant

| With cover                                                                                                  |                           | Without cover                                                                                               |                             | Type                                                                                | Model code<br>CSøD | Image of installing<br>release ring cover                                            |
|-------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|
| Type                                                                                                        | Model code<br>KJNCøD-R[6] | Type                                                                                                        | Model code<br>KJNCøD-R-1[6] | Release-ring cover<br><b>CS</b>                                                     |                    |                                                                                      |
| Elbow<br><b>KJNC</b><br> | KJNC4-M5[6]               | Elbow<br><b>KJNC</b><br> | KJNC4-M5-1[6]               |  | CS6                |  |
|                                                                                                             | KJNC4-01[6]               |                                                                                                             | KJNC4-01-1[6]               |                                                                                     | CS8                |                                                                                      |
|                                                                                                             | KJNC6-M5[6]               |                                                                                                             | KJNC6-M5-1[6]               |                                                                                     | CS10               |                                                                                      |
|                                                                                                             | KJNC6-01[6]               |                                                                                                             | KJNC6-01-1[6]               |                                                                                     | CS12               |                                                                                      |
|                                                                                                             | KJNC6-02[6]               |                                                                                                             | KJNC6-02-1[6]               |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC6-03[6]               |                                                                                                             | KJNC6-03-1[6]               |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC8-01[6]               |                                                                                                             | KJNC8-01-1[6]               |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC8-02[6]               |                                                                                                             | KJNC8-02-1[6]               |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC8-03[6]               |                                                                                                             | KJNC8-03-1[6]               |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC10-02[6]              |                                                                                                             | KJNC10-02-1[6]              |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC10-03[6]              |                                                                                                             | KJNC10-03-1[6]              |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC10-04[6]              |                                                                                                             | KJNC10-04-1[6]              |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC12-03[6]              |                                                                                                             | KJNC12-03-1[6]              |                                                                                     |                    |                                                                                      |
|                                                                                                             | KJNC12-04[6]              |                                                                                                             | KJNC12-04-1[6]              |                                                                                     |                    |                                                                                      |



CAD data is available  
at PISCO website.

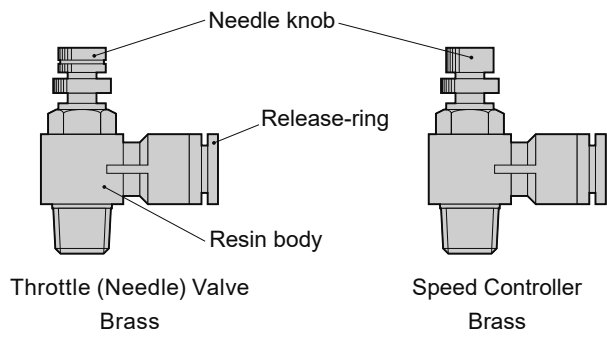


Packaging specifications  
1 pc. /bag  
10 pcs. /bag: Release-ring cover



Options  
[6]: -F ⇒ Seal rubber material FKM specification

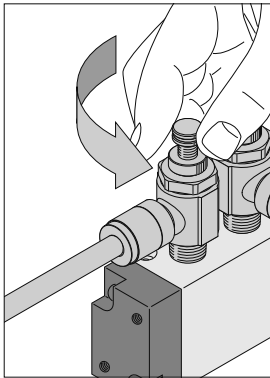
# ■ How to identify similar products



| Type                          | Needle knob         |
|-------------------------------|---------------------|
| Throttle (Needle) Valve Brass | With flat groove    |
| Speed Controller Brass        | Without flat groove |

# ■ How to adjust flow rate

(1) Increasing flow rate  
When the needle knob of Throttle (Needle) Valve is turned counterclockwise from the fully closed position, the fluid flow rate will increase. Make sure to tighten the lock nut at the desired flow rate so that the flow rate setting cannot be changed.



(2) Reducing flow rate  
If the needle knob of Throttle (Needle) Valve is turned too far (if the flow rate is too large), turn it clockwise to reduce the fluid flow rate. Make sure to tighten the lock nut at the desired flow rate so that the flow rate setting cannot be changed.

