



Air operated valve for process gas

# LGD1<sup>1</sup>/<sub>2</sub> Series

# LGD2<sup>1</sup>/<sub>2</sub> Series

- Metal diaphragm



## Specifications

Descriptions	LGD1*	LGD2*
Working fluid	Inert gas/process gas	
Working pressure Pa(abs)-MPa(G)	1.3 x 10 <sup>-6</sup> to 0.99	
Fluid temperature °C	5 to 80	
Ambient temperature °C	5 to 80	
Valve seat leakage Pa·m <sup>3</sup> /sec.He	1.0 x 10 <sup>-10</sup> or less	
External leakage Pa·m <sup>3</sup> /sec.He	1.0 x 10 <sup>-10</sup> or less	
Cv (23°C under pressurization)	0.3	3/8" : 0.65
		1/2" : 0.7
Connection	1/4" VCR male fitting or equiv. 1/4" VCR female fitting or equiv. 1/4" double barbed fitting	1/2" VCR male fitting or equiv. (3/8" compatible) 1/2" VCR female fitting or equiv. (3/8" compatible) 3/8" double barbed fitting 1/2" double barbed fitting
Actuation	NC (normally closed) NO (normally open)	
Operating pressure MPa	NC : 0.4 to 0.6 NO : 0.4 to 0.5	
Operating port	M5	
Weight kg	0.23 <sup>**1</sup>	0.57 <sup>**1</sup>

\*1: Weight is the value with VCR male fitting or equiv.

## How to order

LGD1 1 - 4RM

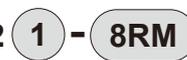


A Actuation

B Connection

Code	Content
<b>A Actuation</b>	
1	NC (normally closed)
2	NO (normally open)
<b>B Connection</b>	
4RM	1/4" male fitting (VCR or equiv.)
4R	1/4" female fitting (VCR or equiv.)
4S	1/4" double barbed fitting

LGD2 1 - 8RM

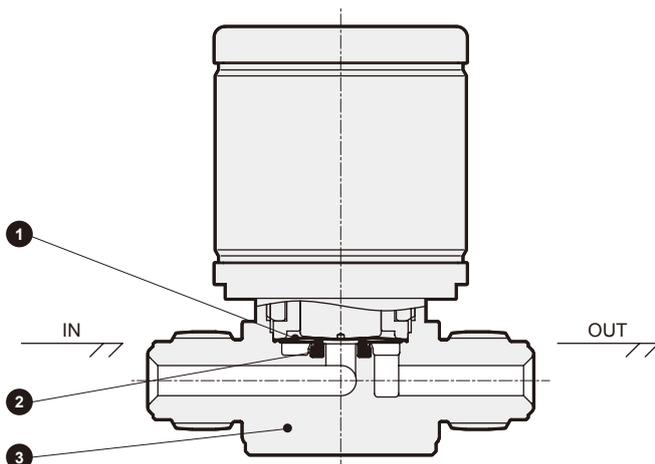


A Actuation

B Connection

Code	Content
<b>A Actuation</b>	
1	NC (normally closed)
2	NO (normally open)
<b>B Connection</b>	
8RM	1/2" male fitting (VCR or equiv.)
8R	1/2" female fitting (VCR or equiv.)
6S	3/8" double barbed fitting
8S	1/2" double barbed fitting

## Internal structure and parts list

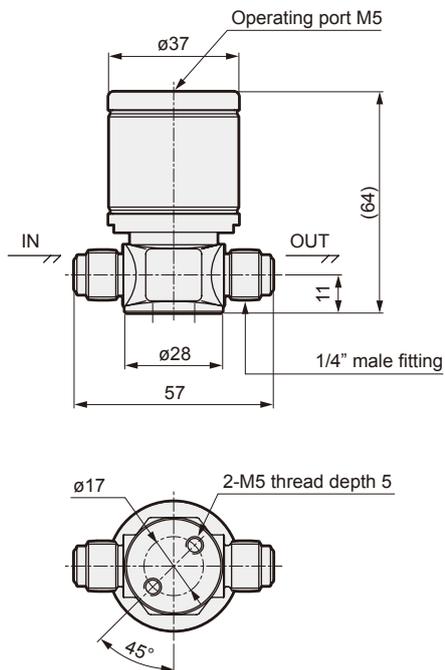


## Gas contact part materials

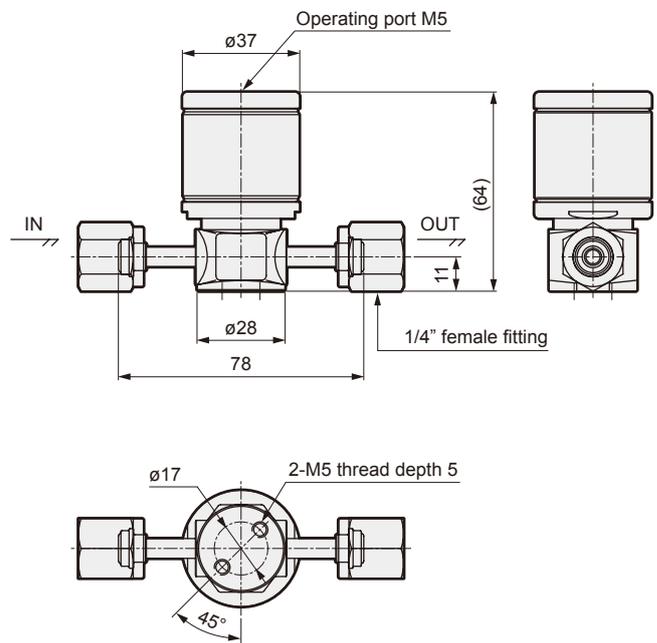
No.	Part name	Material
1	Diaphragm	Ni-Co alloy
2	Valve seat	PCTFE
3	Body	SUS316L

Dimensions

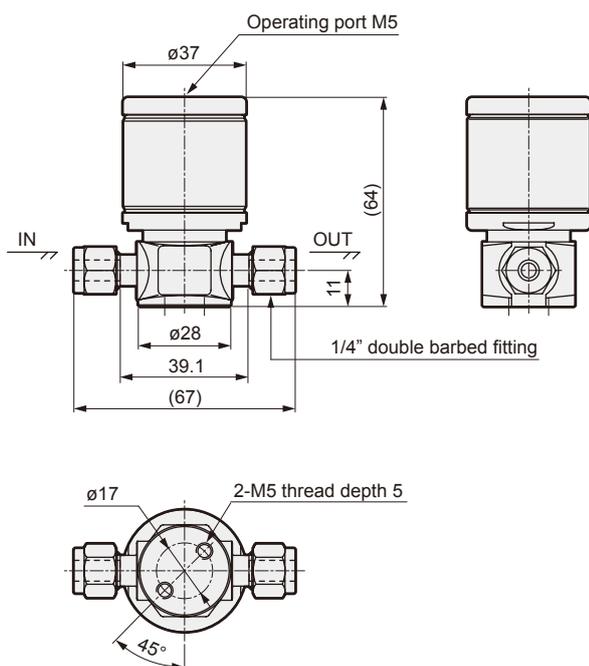
● LGD1\*-4RM



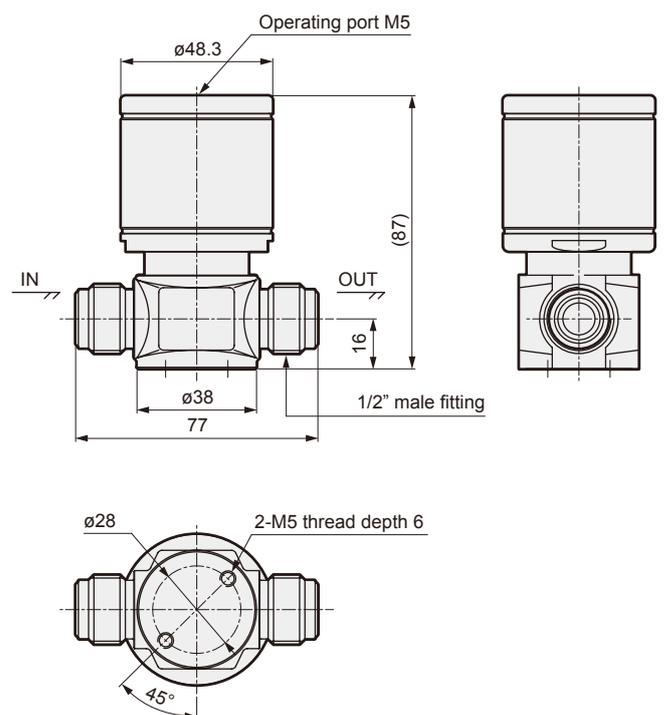
● LGD1\*-4R



● LGD1\*-4S

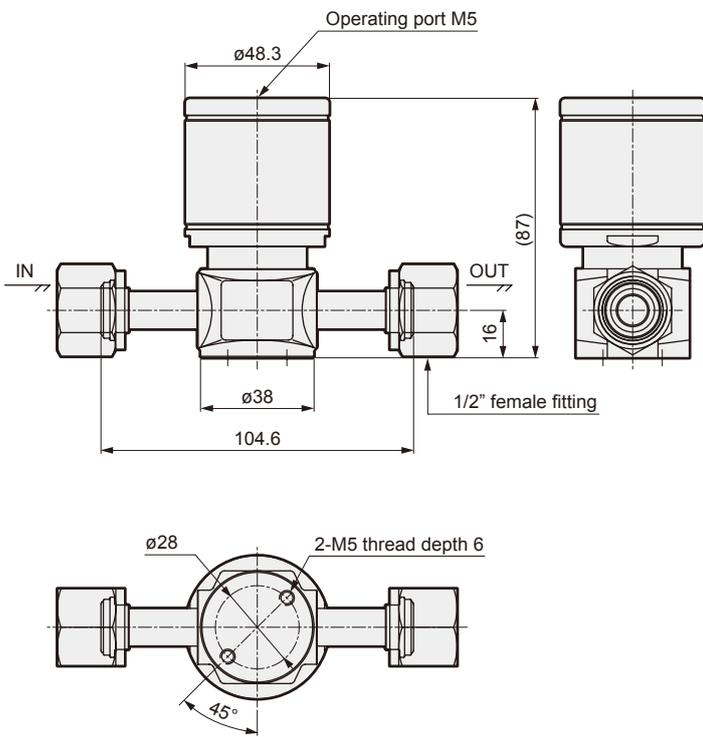


● LGD2\*-8RM

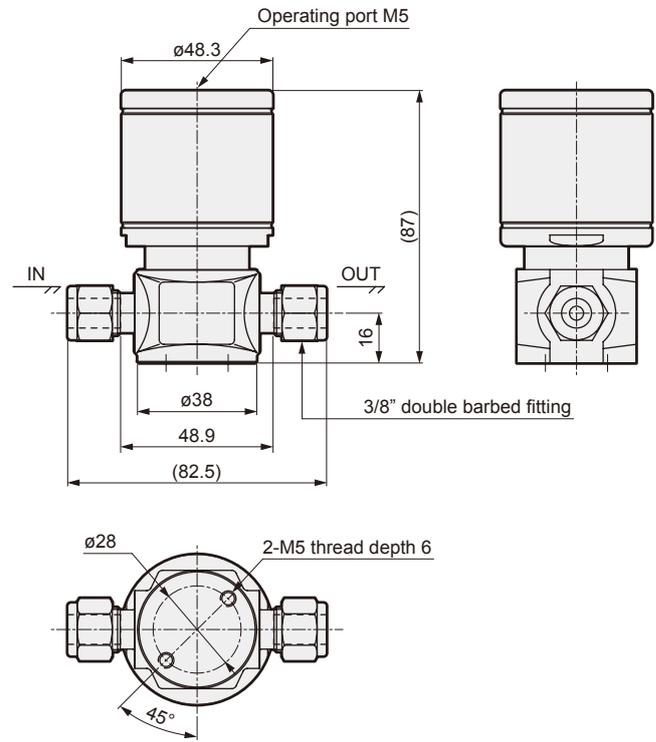


## Dimensions

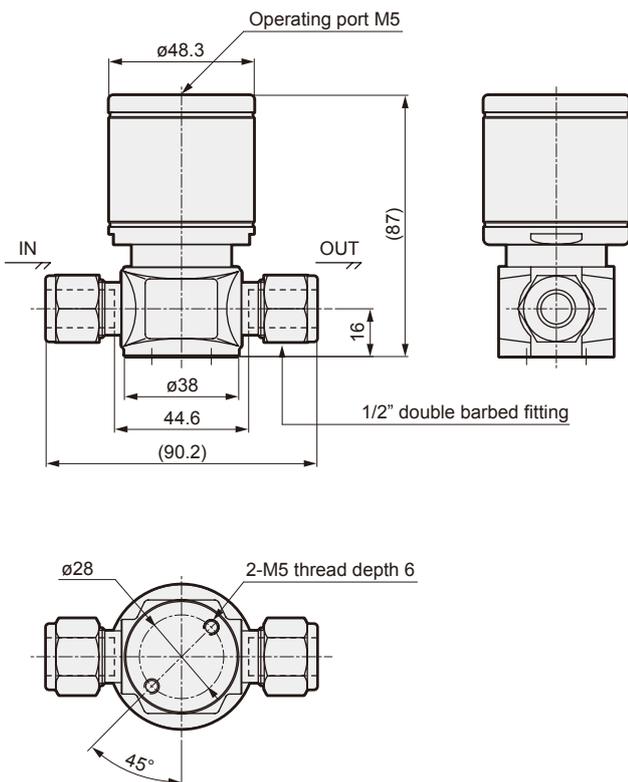
### ● LGD2\*-8R



### ● LGD2\*-6S



### ● LGD2\*-8S



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MEMO

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Manual valve for process gas

# LGD<sup>1</sup><sub>20</sub> Series

- Metal diaphragm
- 180° rotation



## Specifications

Descriptions	LGD10	LGD20
Working fluid	Inert gas/process gas	
Working pressure Pa(abs)-MPa(G)	1.3 x 10 <sup>-6</sup> to 0.99	
Fluid temperature °C	5 to 80	
Ambient temperature °C	5 to 60	
Valve seat leakage Pa·m <sup>3</sup> /sec.He	1.0 x 10 <sup>-10</sup> or less	
External leakage Pa·m <sup>3</sup> /sec.He	1.0 x 10 <sup>-10</sup> or less	
Cv (23°C under pressurization)	0.3	0.7
Connection	1/4" VCR male fitting or equiv. 1/4" VCR female fitting or equiv. 1/4" double barbed fitting	1/2" VCR male fitting or equiv. (3/8" compatible) 1/2" VCR female fitting or equiv. (3/8" compatible) 3/8" double barbed fitting 1/2" double barbed fitting
Weight kg	0.26 *1	0.57 *1

\*1: Weight is the value with VCR male fitting or equiv.

## How to order

LGD10- **4RM**

A Connection

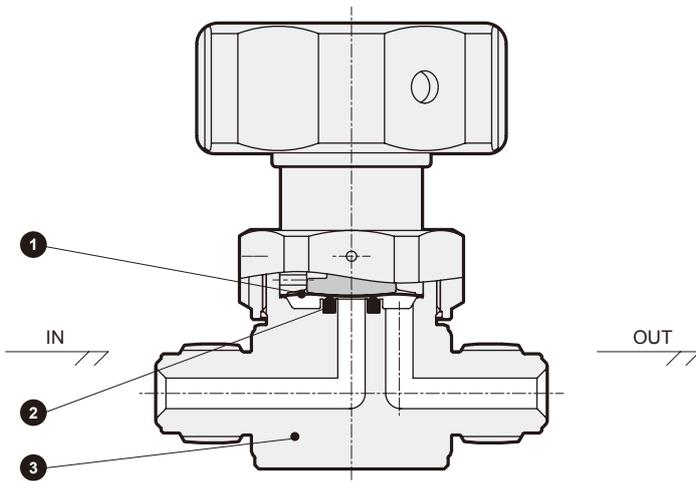
Code	Content
<b>A Connection</b>	
<b>4RM</b>	1/4" male fitting (VCR or equiv.)
<b>4R</b>	1/4" female fitting (VCR or equiv.)
<b>4S</b>	1/4" double barbed fitting

LGD20- **8RM**

A Connection

Code	Content
<b>A Connection</b>	
<b>8RM</b>	1/2" male fitting (VCR or equiv.)
<b>8R</b>	1/2" female fitting (VCR or equiv.)
<b>6S</b>	3/8" double barbed fitting
<b>8S</b>	1/2" double barbed fitting

## Internal structure and parts list

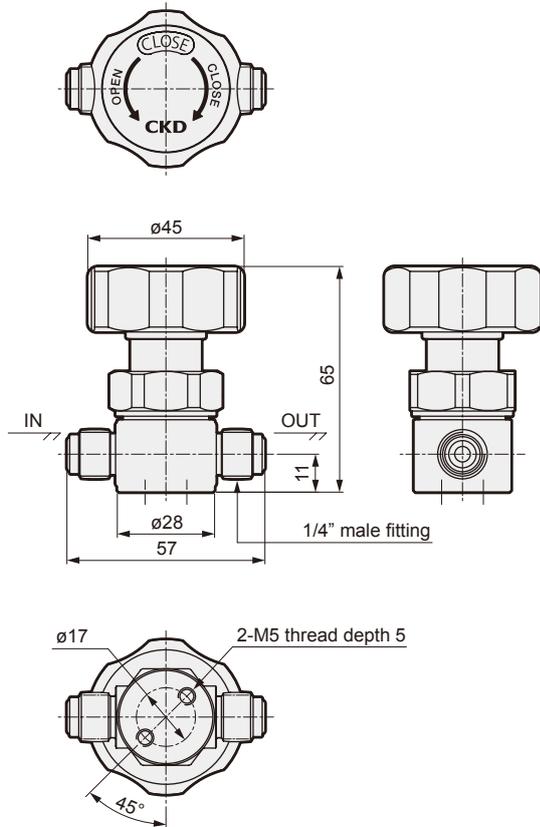


## Gas contact part materials

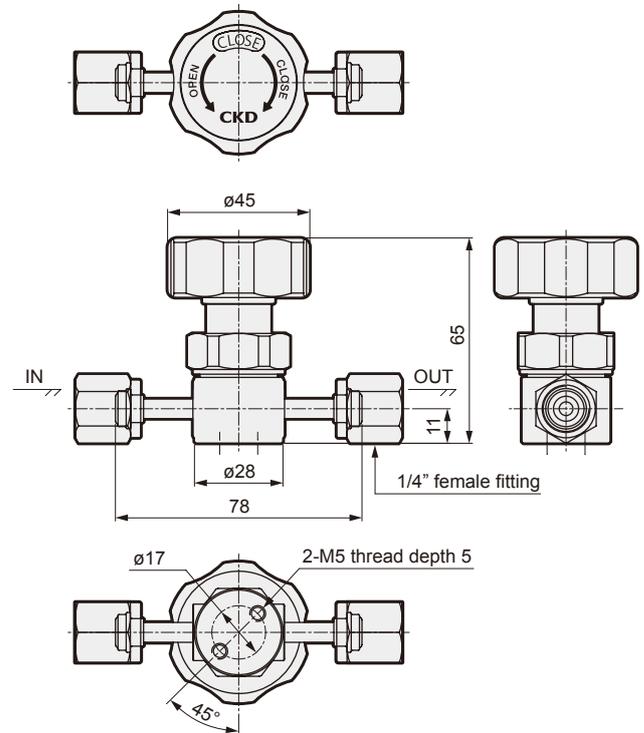
No.	Part name	Material
1	Diaphragm	Ni-Co alloy
2	Valve seat	PCTFE
3	Body	SUS316L

Dimensions

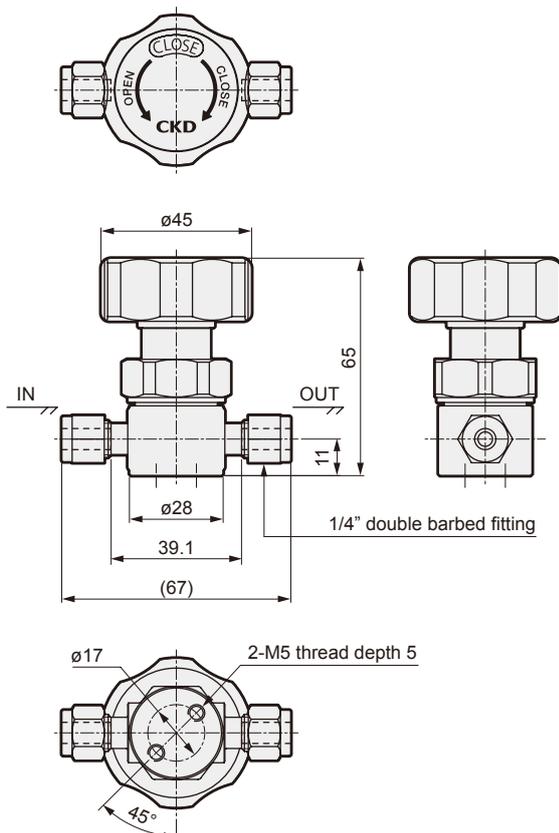
● LGD10-4RM



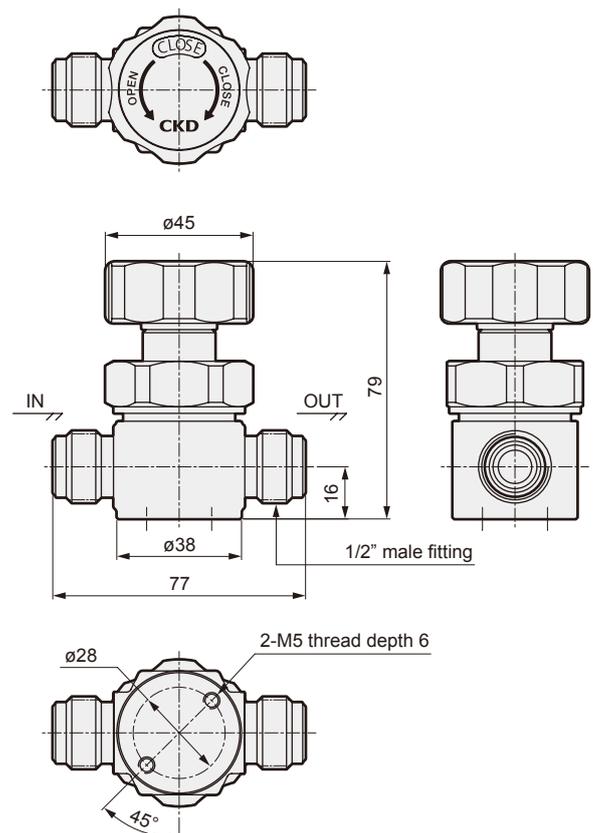
● LGD10-4R



● LGD10-4S



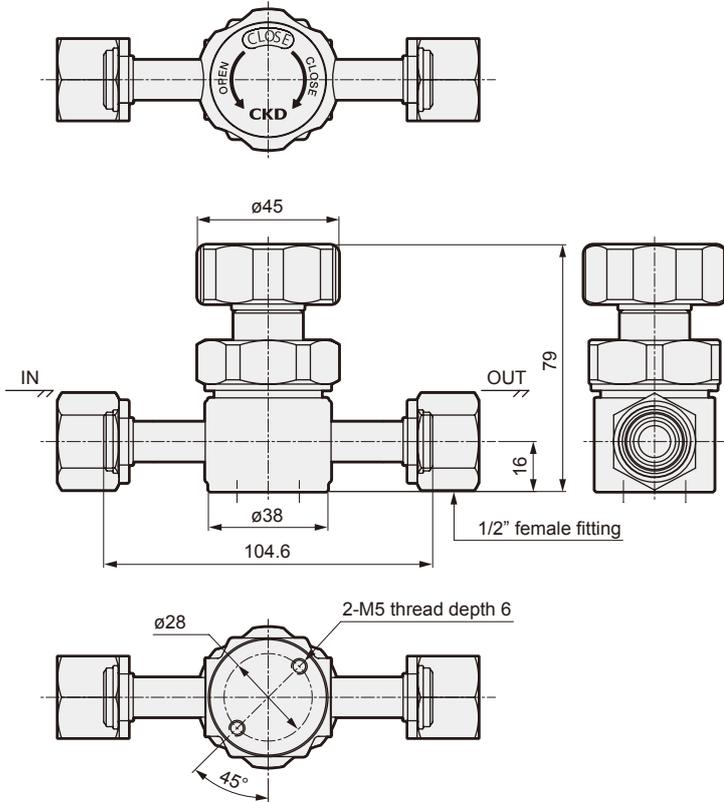
● LGD20-8RM



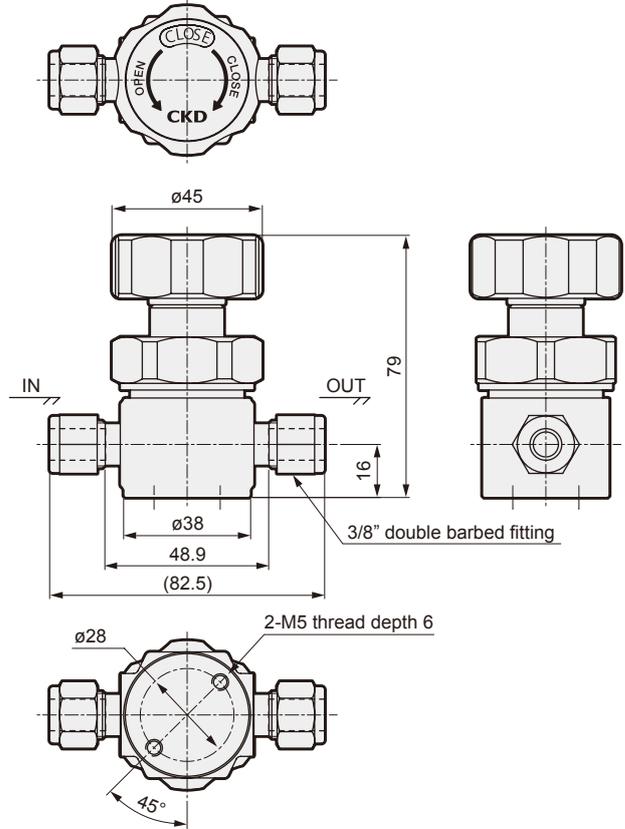
# LGD\*0 Series

## Dimensions

### ● LGD20-8R



### ● LGD20-6S



### ● LGD20-8S

