



Flow rate adjusting valve

FMD00 Series

To support highly corrosive fluids,
Designed fine flow rate adjusting valve.

- Connection tube size: $\phi 6$, $\phi 10$, 1/4", 3/8"



Specifications

Item	FMD00-*	FMD00-*-1
Working fluid	Pure water, chemical liquids, air, N ₂ gas (*1)	
Fluid temperature °C	5 to 80 (*2)	
Proof pressure MPa	1	
Working pressure MPa	0 to 0.3	
Ambient temperature °C	0 to 40	
Mounting orientation	Unrestricted	
Connection	O.D. $\phi 6$ tube connection (integrated fitting) O.D. 1/4" tube connection (integrated fitting) O.D. $\phi 10$ tube connection (integrated fitting) O.D. 3/8" tube connection (integrated fitting)	
Orifice size	$\phi 1.6$	$\phi 3.5$
Weight kg	0.11	

*1: Check the compatibility of product structural materials, working fluids and atmosphere.

*2: For use with hydrofluoric acid, or when the fluid temperature exceeds 40°C, consult with CKD.

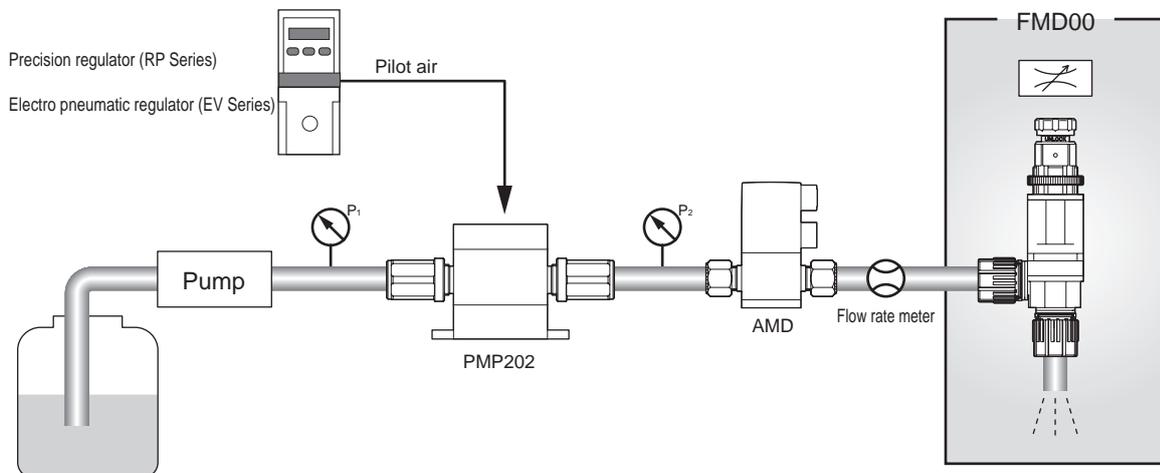
How to order

FMD00 - **6UP** - **1**

Model No. ① Connection ② Orifice size

		① Connection			
		6UP	8BUP	10UP	10BUP
		Super 300 Pillar fitting P series integrated			
		$\phi 6 \times \phi 4$ tube connection	1/4" x 5/32" tube connection	$\phi 10 \times$ $\phi 8$ tube connection	3/8" x 1/4" tube connection
Code	Description	② Orifice size			
Blank	$\phi 1.6$	●	●	●	●
1	$\phi 3.5$	●	●	●	●

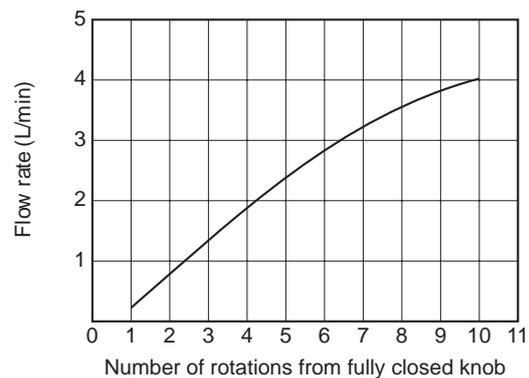
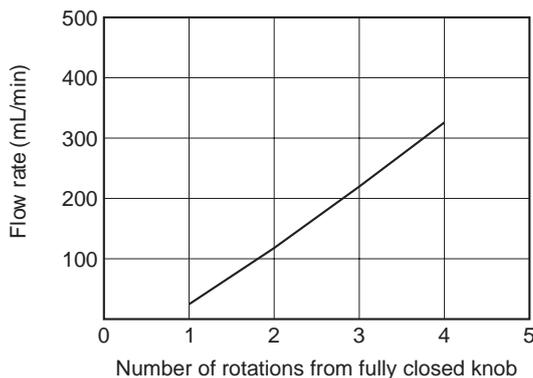
Applications



Flow characteristics $\Delta P 0.1 \text{MPa}$ fluid: Water (reference data)

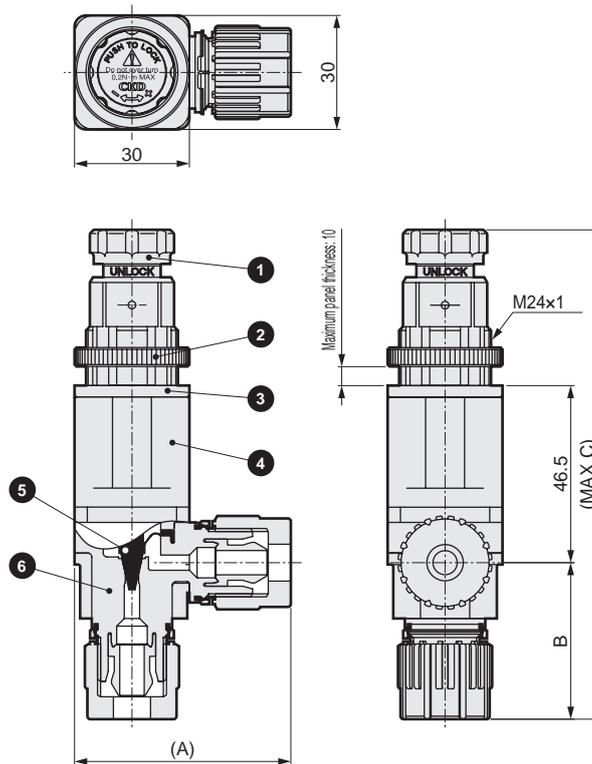
● FMD00-8BUP (orifice size: $\phi 1.6$)

● FMD00-8BUP-1 (orifice size: $\phi 3.5$)



⚠ Always read the precautions on Intro Pages 7 to 14 before use.

Internal structure and Parts list / Dimensions



Part No.	Part name	Material
1	Knob	PP
2	Lock nut	PP
3	Gasket	FKM
4	Cover	PP
5	Diaphragm	PTFE
6	Body	PFA

The material and structure may vary depending on the model number. Contact CKD for details.

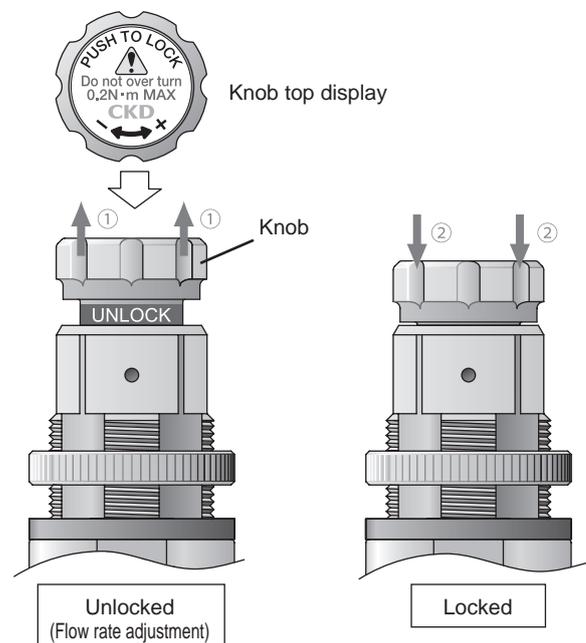
Connector No.	A	B	C
6UP	51	36	123
8BUP	51	36	123
10UP	57	42	129
10BUP	57	42	129

Operation mode of flow rate adjusting valve

When operating the flow regulating valve, be sure to adjust while checking the flow rate with the flow meter, and be careful not to turn the knob too much.

(The knob rotational torque should be 0.2 N·m or less)

- When increasing the flow rate
Slide the knob up until you can see the word UNLOCK. (↑ (1))
[Unlocked] Turn the knob in the + direction.
- When decreasing the flow rate
Slide the knob up until you can see the word UNLOCK. (↑ (1))
[Unlocked] Turn the knob in the - direction.
- Knob lock
After operating the knob, you can lock the knob by sliding the knob down until the word UNLOCK cannot be seen.
(↓ (2)) [Locked]
→ **This can prevent misoperation.**



Air operated valve	Part3R	High pressure	Part2	Part1	Manual valve	Part3RN	High pressure	Part2	Drip prevention valve	Air operated integrated	Regulator	Flow rate adjusting valve	Manual Fine flow rate	Fine level Switch	Related products
	Part2	High pressure	Part1	Part3RN		High pressure	Part2								
	Part1	High pressure	Part1	Part3RN		High pressure	Part2								

WARNING

Install the valve body to the equipment with the panel mount. If mounted only with fittings, the main body and piping/fitting may be damaged.

CAUTION

1 Flow rate configuration

- When operating the valve, operate the knob with rotational torque of 0.2 N·m or less. Operating with torque larger than 0.2 N·m may damage the product.
- When unlocking, do not pull the knob forcibly.
- When carrying this product, do not dangle it by the knob.
- For use, be sure to confirm that there is no vibration under actual use conditions. Vibration may reduce the product life.
- As this product does not have a sealing function, fluid cannot be sealed. To seal the fluid, use a valve with a sealing function. Sealing the fluid with this product may crush the valve seat and lower the flow controllability of the product.
- When set to a fine flow rate, the valve opening will also be very small. Therefore, if foreign matter is mixed into the fluid, the valve may clog and the flow rate may change.
- If there is a change in the fluid temperature, the valve opening may change due to volume expansion of the fluororesin and the flow rate may change.

Part 3R	Air operated valve	
Part 2		
Part 1		
High pressure		
Metal-free		
Large bore size		
PVC		
Drainage		
Part 3RN		
Part 2		
High pressure	Manual valve	
Metal-free		
Large bore size		
Single unit		
Air operated Integrated		Drip prevention valve
Pilot		
Manual		Regulator
Electric		
Manual		Flow rate adjusting valve
Manual Fine flow rate		
Fine level Switch	Related products	