

Chemical liquid manual valve MMD20·MMD30·MMD40 Series Metal free design with flow rate adjustment and closing functions

Orifice: Ø8/Ø10/Ø12/Ø16/Ø20

CAD

Subject to Export Trade Control Ordinances

*Target: Valves with Ø12 or larger orifice

Specifications

Descriptions	MMD20	ММ	D30	ММ	D40	
Working fluid	Chemical liquids, pure water, N2 gas, air					
Fluid temperature °C	5 to 60 (5 to 90) (Note 2)					
Withstanding pressure MPa	1.4					
Working pressure range MPa	0 to 0.5			0 to	0 to 0.4	
Valve seat leakage cm3/min	0 (at, water pressure)					
Ambient temperature °C	0 to 40					
Installation attitude	Free					
Connection (Note 1)	Rc3/8	Rc1/2		Rc3/4		
Orifice	Ø8	Ø10	Ø12	Ø16	Ø20	
Cv value	1.25	1.8	2.5	5.2	8	

Note 1: The fitting integrated type is also available.

Note 2: 5 to 40 °C for hydrofluoric acids.

Internal structure and parts list



No.	Parts name	Material	Quantity
1	Actuator assembly	CPVC	1
2	Body	PFA	1
3	Mounting plate	CPVC	1
4	Diaphragm	PTFE	1

Flow rate - No. of knob turns (at differential pressure 0.1MPa)



No. of knob turns - flow rate at differential pressure 0.1MPa

- Set the adjustment knob so that it opens at least 3/8 turn from fully closed. If closed further, vibration or flow fluctuation, etc., may occur, depending on working conditions.
- Tighten the knob with the following torque.

MMD20	0.4 to 0.6
MMD30	0.8 to 1.6
MMD40	2.0 to 2.8
	(N⋅m)

The material differs with the model. Contact CKD for details.

Read the precautions on pages 7 to 12 in the introduction before use.



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For medium temperature (5 to 90 °C)

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MMD₃²O_{Series}

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MMD40_{Series}

