



Manual valve for chemical liquids, metal-free

# MMD\*0M Series

A valve designed to support strong acid (hydrochloric acid, hydrofluoric acid) lines in semiconductor manufacturing.

● Connection tube size:  $\varnothing 10$ ,  $\varnothing 12$ ,  $\varnothing 25$ , 3/8", 1/2", 3/4", 1"



**Export controlled items**

\*Eligibility: MMD50M

## Specifications

Item	MMD30M		MMD50M	
Working fluid	Chemical liquids, pure water, air, N <sub>2</sub> gas (*1)			
Fluid temperature °C	5 to 40			
Proof pressure MPa	1.0			
Working pressure (A→B)MPa	0 to 0.5			
Valve seat leakagecm <sup>3</sup> /min	0 (water pressure)			
Back pressure MPa	0 to 0.5			
Ambient temperature°C	0 to 40			
Mounting orientation	Unrestricted			
Connection	O.D. $\varnothing 3/8$ " tube connection O.D. $\varnothing 10$ tube connection	O.D. $\varnothing 1/2$ " tube connection O.D. $\varnothing 12$ tube connection	O.D. $\varnothing 3/4$ " tube connection	O.D. $\varnothing 1$ " tube connection O.D. $\varnothing 25$ tube connection
Orifice size	$\varnothing 8$	$\varnothing 10$	$\varnothing 16$	$\varnothing 22$
Cv value	1.25	1.8	5.5	9.5
Weight kg	0.28		1.1	

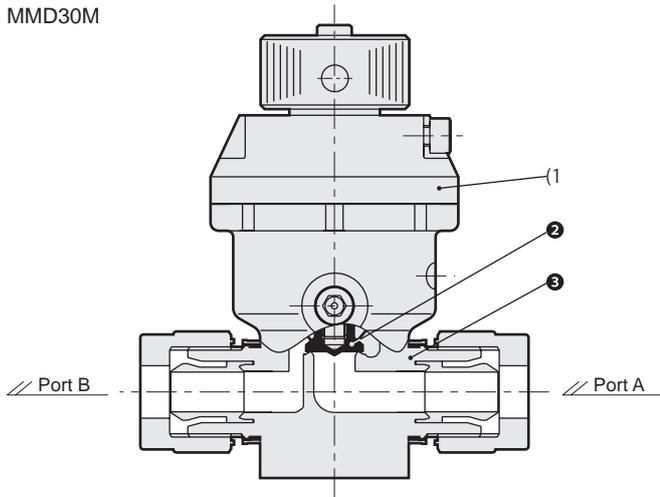
\*1: Check the compatibility of product structural materials, working fluids and atmosphere.

Part 3R  
Part 2  
Part 1  
High pressure  
Metal-free  
Air operated valve  
Large bore size  
PVC  
Drainage  
Part 3RN  
Part 2  
High pressure  
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

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

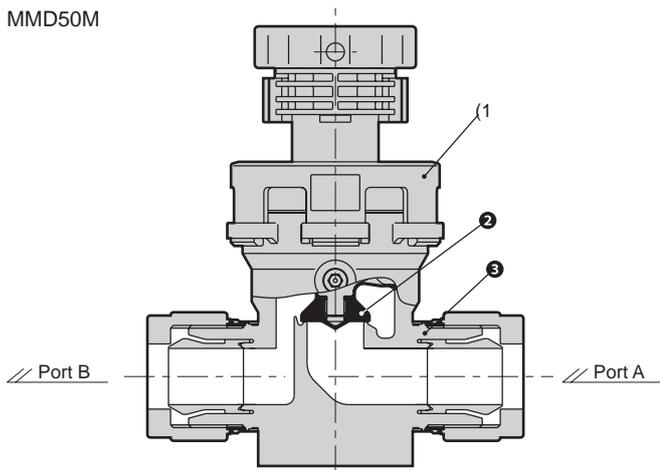
### Internal structure and parts list

MMD30M



Part No.	Part name	Material
1	Actuator	PP, etc.
2	Diaphragm	PTFE
3	Body	PFA

MMD50M



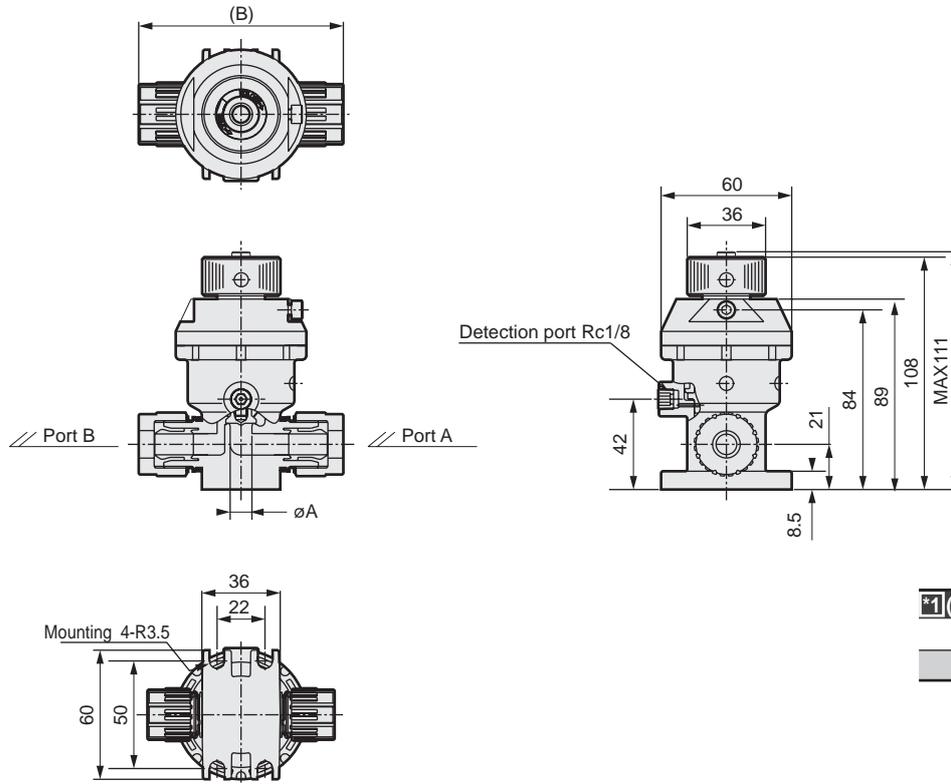
Part No.	Part name	Material
1	Actuator	PVDF and others
2	Diaphragm	PTFE
3	Body	PFA

Air operated valve	Part3R	High pressure	Metal-free	Large bore size	Polyvinyl chloride	Drainage
	Part2	High pressure	Metal-free	Large bore size	Polyvinyl chloride	Drainage
	Part1	High pressure	Metal-free	Large bore size	Polyvinyl chloride	Drainage
Manual valve	Part3RN	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part2	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part1	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
Regulator	Part3R	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part2	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part1	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
Flow rate adjusting valve	Part3R	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part2	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part1	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
Fine level Switch	Part3R	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part2	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part1	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
Related products	Part3R	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part2	High pressure	Metal-free	Large bore size	PVDF and others	Drainage
	Part1	High pressure	Metal-free	Large bore size	PVDF and others	Drainage



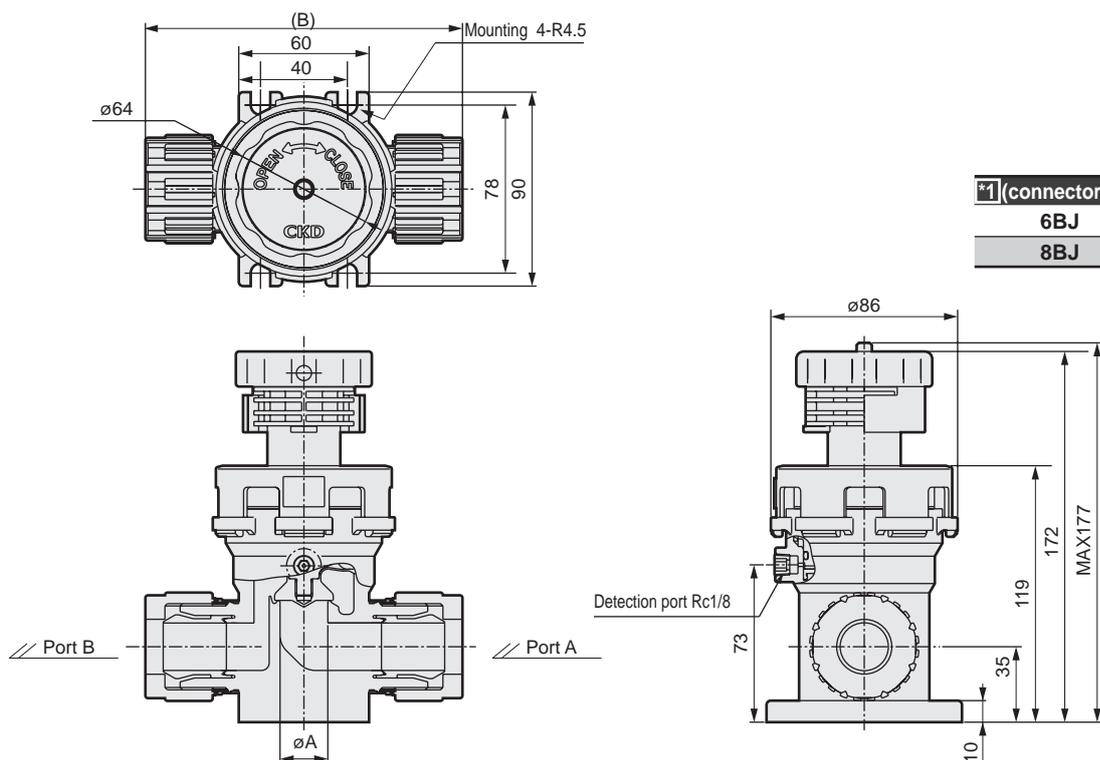
### Dimensions

●MMD30M- \*1



*1 (connector No.)	øA	B
3BJ	8	86
4BJ	10	94

●MMD50M- \*1



*1 (connector No.)	øA	B
6BJ	16	132
8BJ	22	146

Part3R	Part2	Part1	Air operated valve	High pressure	Metal-free	Large bore size	Polyvinyl chloride	Drainage	
Part3RN	Part2	Manual valve		High pressure	Metal-free	Large bore size	Drip prevention valve	Single unit	Air operated integrated
Part3R	Part2			High pressure	Metal-free	Large bore size		Pilot	Manual
Part3R	Part2			High pressure	Metal-free	Large bore size		Regulator	Manual
Part3R	Part2	Part1	Flow rate adjusting valve	Electric	Manual	Manual Fine flow rate	Fine level Switch	Related products	
Part3R	Part2	Part1		Manual	Manual	Manual Fine flow rate			