

# Additional variation for Chemical liquid supply valve AMD\*1H Series

**New Product**



### Overview

Added this variation to meet the various needs of chemical liquid supply line or semiconductor manufacturing equipment.

### Variation descriptions

- Water-hammer reduction type (L)
- Control pressure reduction type (V)
- Control pressure + water-hammer reduction type (VL)

Model no.	Working pressure (MPa)	Control pressure (MPa)	Water-hammer Reduction type
AMD*1H-* - blank	0 to 0.7	0.5 to 0.7	
AMD*1H-* - L	0 to 0.7	0.5 to 0.7	WH reduction <b>NEW</b>
AMD*1H-* - V	0 to 0.5	0.4 to 0.6	<b>NEW</b>
AMD*1H-* - VL	0 to 0.5	0.4 to 0.6	WH reduction <b>NEW</b>

**Products subject to export trade control ordinances**

\*Subject: Orifice ø16 and over

## Wide product line-up to meet the needs of semiconductor manufacturing line in the next generation.

### Specifications

Additional specifications

Items	AMD*1H-*L	AMD*1H-*V	AMD*1H-*VL
Actuation	N.C. (normally closed) type		
Working fluid	Chemical liquids, pure water (Note 1)		
Fluid temperature °C	5 to 40		
Withstanding pressure MPa	1.4		
Working pressure range (A > B) MPa	0 to 0.7	0 to 0.5	0 to 0.5
Back pressure MPa	0 to 0.7	0 to 0.5	0 to 0.5
Control pressure range MPa	0.5 to 0.7	0.4 to 0.6	0.4 to 0.6
Operating pressure connection port	Rc1/8		
Ambient temperature °C	0 to 40		
Frequency	5 times/min. or less	15 times/min. or less	5 times/min. or less
Mounting attitude	Free		
Water-hammer reduction type	● (Note 2)	—	● (Note 2)

Note 1: Confirm the compatibilities between the material of product, working fluid and working environment before operating.

Note 2: The response time of water-hammer reduction type is longer than standard type. Consult with CKD for more details.

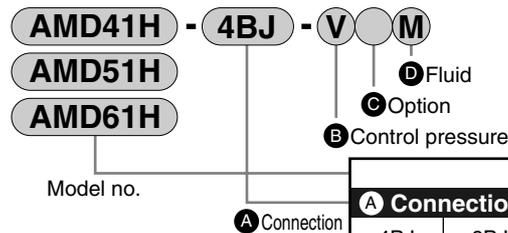
Note 3: Refer to "How to order" for orifice diameter.

**!** Refer to the safety precautions in "high-purity chemical liquid control system total (catalog No. CB-031A)" before operating.

# AMD\*1H Series

## How to order

### ● AMD\*1H Series



		AMD41H				AMD51H			AMD61H			
		A Connection										
		4BJ	6BJ	4BW	6BW	2W	4W	8BJ	8BW	6W	10BJ	8W
		SUPER 300 type PILLAR fitting P Series, integrated type		FLARTEC Fitting Integrated type		Welded PFA pipe extended		SUPER 300 type PILLAR fitting P Series, integrated type	FLARTEC Fitting Integrated type	Welded PFA pipe extended	SUPER 300 type PILLAR fitting P Series, integrated type	Welded PFA pipe extended
		1/2" x 3/8" tube connection	3/4" x 5/8" tube connection	1/2" x 3/8" tube connection	3/4" x 5/8" tube connection	Nominal 1/4" welded PFA pipe extended	Nominal 1/2" welded PFA pipe extended	1" x 7/8" tube connection	1" x 7/8" tube connection	Nominal 3/4" welded PFA pipe extended	1 1/4" x 1 1/10" tube connection	Nominal 1" welded PFA pipe extended
Symbol	Descriptions	Orifice diameter	ø10	ø16	ø10	ø16	ø10	ø16	ø22		ø25	
	Cv-value		2	5	2	4.5	2	5	9.5		14	
	Body material		PFA forming body									
B Control pressure		Blank	Standard (0.5 to 0.7MPa)		●	●	●	●	●	●	●	●
	V	0.4 to 0.6MPa		●	●	●	●	●	●	●	●	●
C Option		Blank	Standard		●	●	●	●	●	●	●	●
	L	Water-hammer reduction type		●	●	●	●	●	●	●	●	●
D Fluid		Blank	Standard		●	●	●	●	●	●	●	●
	M	Ammonia (Note 1)		●	●	●	●	●	●	●	●	●

Note 1: This is a custom order.

**⚠ Safety precautions** Refer to the safety precautions in " high-purity chemical liquid control system total (catalog No. CB-031A) before operating.

## ⚠ CAUTION

### 1 Note on water-hammer

Depending on the piping conditions, water-hammer could not be reduced as specified in the specifications. Execute a trial run to check the reduction of water-hammer after installation. Check the piping condition if no effect can be shown. Generally, shorter piping length and fewer bending points in the secondary side increases the effect of water-hammer reduction.

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