

Air-operated valve for chemical liquids AMD3<sup>1</sup><sub>2</sub> Series

• Orifice: Ø6.3 to Ø10



## Specifications

Descriptions			AMD3 <sup>1</sup> / <sub>3</sub> 2-*-8		AMD3 <sup>1</sup> <sub>3</sub> 2-*-10							
Working fluid	Chemical liquids, pure water (Note 1)											
Fluid temperature °C												
Withstanding pressure MPa												
Working pressure range (A $\rightarrow$ B) MPa		0 to 0.3 (Note 3)										
Working pressure range (B $\rightarrow$ A) MPa	a 0 to 0.1 (Note 3)											
Valve seat leakage cm3/min	n 0 (at, water pressure)											
Back pressure MPa	0 to 0.1 (Note 3)											
Ambient temperature °C	0 to 60											
Frequency												
Installation attitude	Free											
Connection	ODØ	010 tube o	connection (fitting int	tegrated type)	ODØ12 tube connection (fitting integrated type)							
Connection	OD3	3/8" tube o	connection (fitting in	tegrated type)	OD1/2" tube connection (fitting integrated type)							
Orifice	Ø6.3	Ø6.4	Ø7.5	Ø8	Ø9.4	Ø9.5	Ø10					
Cv value	0.	8	1.	25	1.8							
Bypass orifice (when bypass is installed)	Ø2.3											
Operation Operation pressure range MPa	NC 0.3 to 0.5, NO 0.3 to 0.5 (0.3 to 0.35 for high temperature use), double acting 0.3 to 0.4 (0.2 to 0.25 for high temperature use)											
section Operation pressure connection port	Rc1/8 (Note 2)											

Note 1: Check compatibility of the product's configuration materials working fluid, and ambient atmosphere before use.

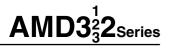
Note 2: Connect a resin fitting when connecting to the operation port.

(When using a metal fitting, select one with a reinforcement ring.)

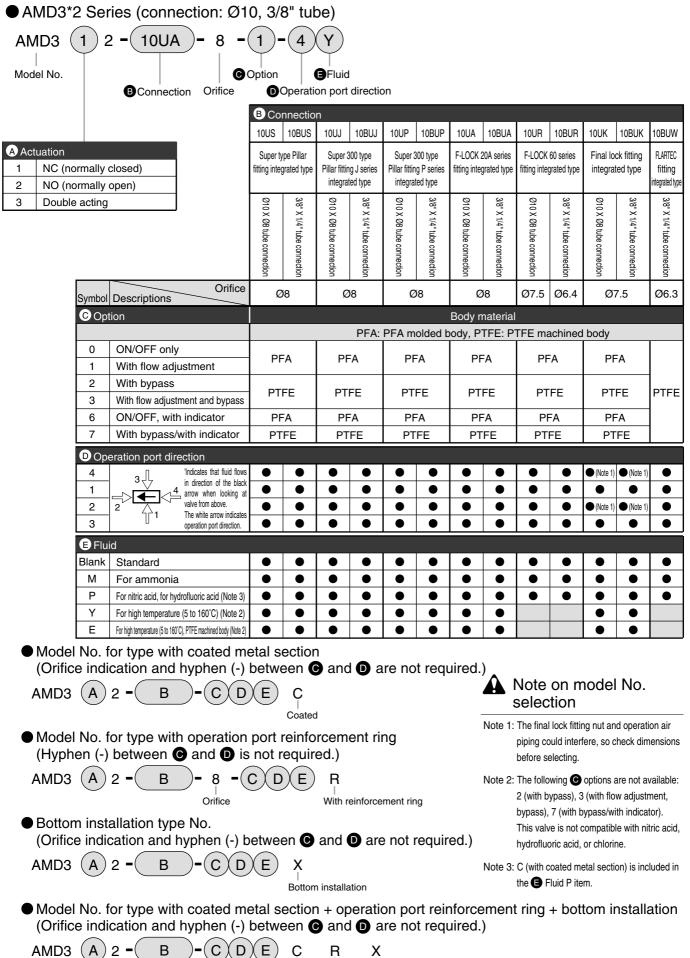
Note 3: See page 56 for high-pressure specifications.

Note 4: See pages 70 and 71 for flow characteristics.

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



## How to order



Coated

Bottom installation

With reinforcement ring

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<ul> <li>AMD3*2 Series (connection: Ø12, 1/2" tube)</li> <li>AMD3 1 2 - 12UJ - 10 - 1 - 4 M</li> <li>Model No.</li> <li>Connection Orifice</li> <li>Operation port direction</li> </ul>																	
					12US	nnectio 15BUS	n 12UJ	15D111	10110		10114		10110		10111/		
Actua	tion							15BUJ	12UP	15BUP	12UA	15BUA	12UR	15BUR	12UK	15BUK	15BUW
A Actuation			Super type Pillar fitting integrated type		Super 300 type Pillar fitting J series integrated type		Super 300 type Pillar fitting P series integrated type		F-LOCK 20A series fitting integrated type		F-LOCK 60 series fitting integrated type		Final lock, fitting integrated type		FLARTEC		
2 NO (normally open)															integrated type		
3 Double acting		Ø12	1/2"	Ø12	1/2"	Ø12	1/2"	Ø12	1/2"	Ø12	1/2"	Ø12	1/2"	1/2"			
	_				Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	Ø12 X Ø10 tube connection	1/2" X 3/8" tube connection	1/2" X 3/8" tube connection
	s	vmbol	Descriptions	Orifice	ø	10	Ø	10	Ø	10	Ø	10	Ø	9.5	ø	10	Ø9.4
			ion (Note 1)						Body n	/ material							
					PFA: PFA molded body, PTFE: PTFE machined body												
		0 1	ON/OFF only With flow adjustment		- PFA		PF	Ā	PFA		PF	Ā	PFA		PFA		PFA
	_	2 3	With bypass With flow adjust	ment and bypass	PFA		PFA		PFA		PTFE	PFA	PTFE		PFA		PTFE
		6	ON/OFF, wit	n indicator	PFA		PF	Ā	PFA		PFA		PFA		PFA		PFA
	L	7	With bypass/	with indicator	PFA		PF	Ā	PFA		PTFE PFA		PTFE				PTFE
		Оре	eration port dir								1			1		ļ	
	_	4	з	Indicates that fluid flows in direction of the black	•	•	•	•	•	•	•	•	•	•	•	• (Note 1)	•
	_	1 2		arrow when looking at valve from above.	•	•	•	•	•	•	•	•	•	•	•	(Note 1)	•
	-	2 3	2 f1	The white arrow indicates operation port direction.	•	•	•	•	•	•	•	•	•	•	•		
		E) Flui	d	oportation por anotation.		•	•	•	•		<u> </u>	•		•			-
		Blank	Standard							•					•		
		М	For ammonia	l	•			•	•	•	•	•	•		•		
		Ρ	For nitric acid, for hy	drofluoric acid (Note 3)	•	•	•	•	•	•	•	•	•	•	•		•
		Y	<b>.</b> .	e (5 to 160°C) (Note 2)	•	•	•	•	•	•	•	•			٠		
	L	E	• • •	C), PTFE machined body (Note 2)	•		•	•	•	•		•			•		
<ul> <li>Model No. for type with coated metal section (Orifice indication and hyphen (-) between S and are not required.)</li> <li>AMD3 A 2 - B - C D E C Coated</li> <li>C D E C Coated</li> </ul>																	
<ul> <li>Model No. for type with operation port reinforcement ring (Hyphen (-) between () and () is not required.)</li> <li>Note 1: The final lock fitting nut and operation port reinforcement ring before selecting.</li> </ul>									•								
AMD3 (A) 2 - (B) - 10 - (C) (D) (E) R Note 2: The following $\bigcirc$ options are not available.									vailable <sup>.</sup>								
<ul> <li>With reinforcement ring</li> <li>Bottom installation type No. (Orifice indication and hyphen (-) between () and () are not required.)</li> <li>2 (with bypass), 3 (with flow adjubypass), 7 (with bypass/with indication type No.</li> </ul>									ow adjustr rith indica ble with ni	ment, tor).							
AMD3 (A) 2 - B - C D E X Bottom installation								Note 3: C (with coated metal section) is included in the G Fluid P item.									
Model No. for type with coated metal section + operation port reinforcement ring + bottom installation (Orifice indication and hyphen (-) between G and D are not required.)																	
AMD	$\bigcap$	) 🤉 -	- B			•	R	X			,						
	JA	)	D		Coa	ated	П   With reir	 Botto	m install ent ring	lation							13