

Air-operated valve for chemical liquids

AMDZ¹/₃ / AMDO¹/₃ Series

This compact high-performance valve greatly reduces causes of particle formation with its PFA molded body.

Orifice: Ø1.6 to Ø4



Specifications

Descriptions	AMDZ*-*-2	AMD0*-*-4					
Working fluid	Chemical liquids, pure water, N₂ gas, air						
Fluid temperature °C	5 to 80						
Withstanding pressure MPa	1						
Working pressure range (A → B) MPa	0 to 0.5						
Working pressure range (B → A) MPa	0 to 0.3						
Valve seat leakage cm³/min	0 (at, water pressure)						
Back pressure MPa	0 to 0.3						
Ambient temperature °C	0 to 60						
Frequency	30 times/n	30 times/min or less					
Installation attitude	Fre	Free					
Connection	Rc1/8 OD Ø3 tube connection OD 1/8" tube connection	Rc1/8 OD Ø6 tube connection OD 1/4" tube connection					
Orifice	Ø2	Ø4					
Cv value	0.08 (Note 1, 2)	0.32 (Note 2)					
Operation Operation pressure MPa	NC/NO 0.3 to 0.5, do	NC/NO 0.3 to 0.5, double acting 0.2 to 0.3					
Section Operation port	15						

Note 1: The Cv for the PFA body connection Rc 1/8 is 0.12.

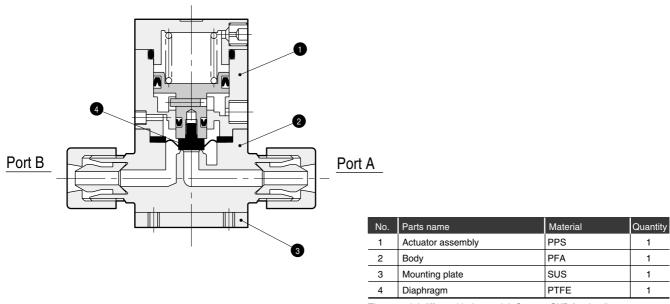
Note 2: The Cv of the SUS body is 80% of the Cv for the PFA body connection Rc 1/8.

Note 3: Check the compatibility of the product's configuration materials, working fluid, and ambient atmosphere before use.

Note 4: See page 6 for using this value for acidic fluids.

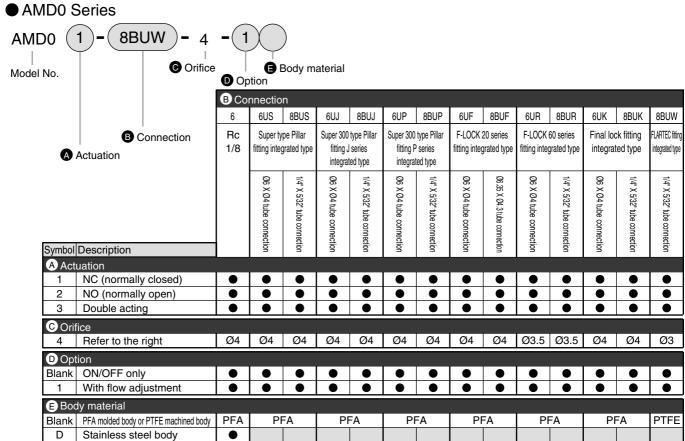
Note 5: See pages 72 and 73 for flow characteristics.

Internal structure and parts list



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

How to ord									
AMDZ 1 - 6 - 2 - D Model No. Body material Option									
		B Connection							
	Orifice	6	3US	6BUS	3UF	3UR	6BUR		
B Connection A Actuation		Rc 1/8	Super type Pillar fitting integrated type		F-LOCK 20 series fitting integrated type	F-LOCK 60 series fitting integrated type			
			Ø3 X Ø2 tube connection	1/8" X 0.086" tube connection	Ø3 X Ø2 tube connection	Ø3 X Ø2 tube connection	1/8" X 1/16" tube connection		
Symbol	Description		on	ion	on .	9	fion		
A Act	uation								
1	NC (normally closed)	•	•	•	•	•	•		
2	NO (normally open)	•	•	•	•	•	•		
3	Double acting			•	<u> </u>				
© Orit	ice								
2	Refer to the right	Ø2	Ø2	Ø2	Ø2	Ø1.6	Ø1.6		
D Opt									
Blank	ON/OFF only	•	•	•	•	•	•		
1	With flow adjustment (Only NC type)			•	•				
■ Body material									
Blank	PFA molded body or PTFE machined body	PFA	PF	A	PTFE	PT	FE		
D	Stainless steel body								





Note on model No. selection

Note 1: See page 6 when selecting an all-resin actuator used with acidic fluids.

Note 2: The actuator soft-shut (diaphragm) model also available reduces foaming and improves drip prevention. Contact CKD for details.