Air-operated valve for chemical liquids

AMD2$^{1}_{2}{}^{1}_{3}$ / AMD3$^{1}_{2}{}^{1}_{3}$ / AMD4$^{1}_{2}{}^{1}_{3}$ / AMD5$^{1}_{2}{}^{1}_{3}$ Series

Eliminating causes of particle formation with PFA-molded body

● Orifice: Ø8/Ø10/Ø12/Ø16/Ø20/Ø22/Ø25

CAD

Subject to Export Trade Control Ordinances

*Target: Valves with Ø12 or larger orifice

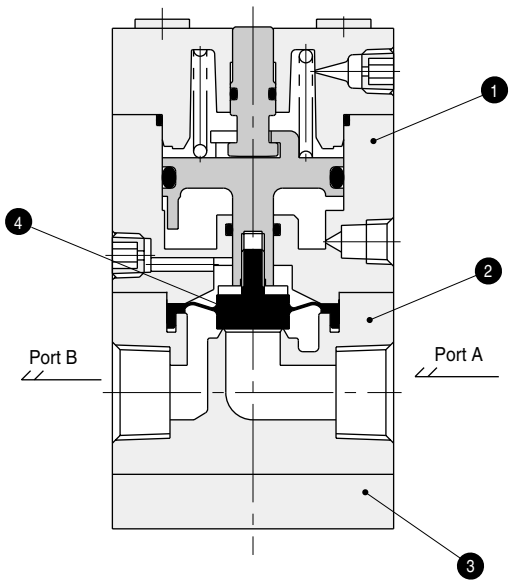
Specifications

Descriptions		AMD2*-10-8	AMD3*-15-12		AMD4*-20-20		AMD5*-25-25	
Working fluid		Chemical liquids, pure water, N_2 gas, air						
Fluid temperature	˚C	5 to 60 (5 to 90) (5 to 150) (Note 3)						
Withstanding pressure	MPa	1.4						
Working pressure range (A → B)	MPa	0 to 0.5			0 to 0.4		0 to 0.3	
Working pressure range (B → A)	MPa	0 to 0.3			0 to 0.2		0 to 0.2	
Valve seat leakage	cm³/min	0 (at, water pressure)						
Back pressure	MPa	0 to 0.3			0 to 0.2			
Ambient temperature	˚C	0 to 40						
Frequency		30 times/min or less			20 times/min or less			
Installation attitude		Free						
Port size (Note 1)		Rc3/8	Rc1/2		Rc3/4		Rc1	
Orifice		Ø8	Ø10	Ø12	Ø16	Ø20	Ø22	Ø25
Cv value		1.25	1.8	2.5	5.2	8	9.5	12
Operation section	Operation pressure	MPa	NC/NO 0.3 to 0.5, double acting 0.2 to 0.3					
	Operation port		Rc1/8					

Note 1: The fitting integrated type is also available.
Note 2: See pages 72 and 73 for flow characteristics.
Note 3: 5 to 40 ˚C for hydrofluoric acids.

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

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

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