

Air operated valve for process gas

# AGD1 <sup>1</sup><sub>2</sub> V Series AGD2<sup>1</sup><sub>2</sub>V Series

Metal diaphragm Standard



Model No.	Actuation	Cv flow factor
AGD11V	NC	Cv=0.26
AGD12V	NO	Cv=0.26

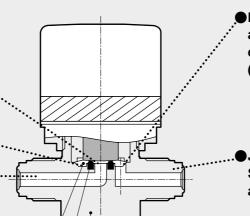
Model No.	Actuation	Cv flow factor		
AGD21V	NC	Cv=0.6		
AGD22V	NO	Cv=0.6		

# Standard diaphragm valve V series created from a pursuit of contamination control

- Continuous use possible up to 80℃
- Zero particle generation realized with optimum seal structure and improved surface roughness
- ■Valve dead space minimized ···
- Electropolished finish .... specifications

### Materials for wetted areas

No.	Parts name	Material
0	Diaphragm	Ni-Co alloy
0	Valve seat	PCTFE
8	Body	SUS316L



- High corrosion resistance and long life Ni-Co alloy diaphragm (4 million cycles achieved <sup>2</sup>)
- JXR joint connection \*1 Standard (male and female) and double barbed joints
- \*1: The JXR joint can be connected to the VCR joint.
- \*2: Life when working fluid is inert gas within specified range, which does not contain solids such as reaction products.

### **Specifications**

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Descriptions		AGD1*V	AGD2*V			
Working fluid	ĺ	Inert gas/process gas				
Working pressure range		1.3 ×10 <sup>-6</sup> to 1.0				
Fluid temperature	°	-10 1	to 80			
Ambient temperature	°	-10 1	to 80			
Valve seat leakage Pa⋅m³/	/s(He)	1.3×10	<sup>9</sup> or less			
External leakage Pa·m³/	/s(He)	2.8×10 <sup>-12</sup> or less				
Cv flow factor		0.26 0.6				
Connection		1/4" JXR male joint 1/4" JXR female joint 1/4" double barbed joint	3/8" JXR male joint 3/8" JXR female joint 3/8" double barbed joint			
Actuation		NC (normally closed) NO (normally open)	NC (normally closed) NO (normally open)			
Operating pressure		NC: 0.4 to 0.6	NC : 0.4 to 0.6			
	MPa	NO: 0.4 to 0.5	NO : 0.4 to 0.5			
Operating pressure connection	on port	Rc1/8				
Weight	kg	0.35 <sup>*1</sup>	0.88 <sup>*1</sup>			

<sup>\*1:</sup> Value for AGD11V-4RM (1/4-inch JXR male joint) and AGD21V-6RM (3/8-inch JXR male joint).



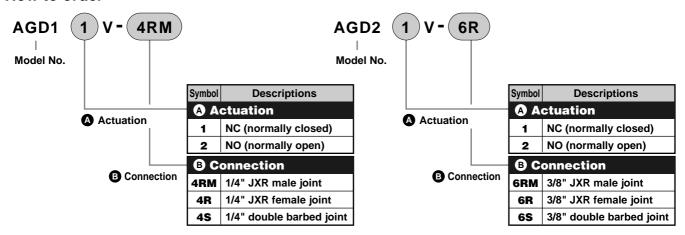
Always read page 9 in the introduction and pages 2 to 3 to ensure correct and safe use of this product.



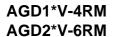
# AGD1½ V/AGD2½ V Series

Air operated valve for process gas

#### How to order

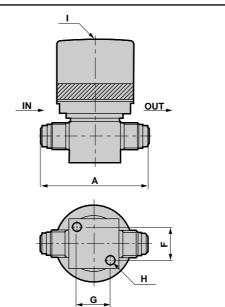


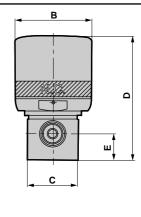
### **Dimensions**



JXR male joint





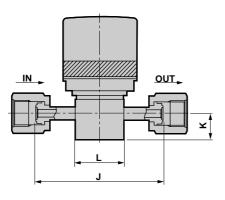


Model No.\Symbol	Actuation	A	В	C	D	E	F	G	Н		
AGD11V-4RM	NC	57	ø41	□27	67	14.3	18	18	2-M5 depth 6	Rc 1/8	
AGD12V-4RM	NO										
AGD21V-6RM	NC	76	70	~EE		06	46	20.2	20.2	2 ME donth 0	Do 1/9
AGD22V-6RM	NO		ø55	□35	86	16	20.2	20.2	2-M5 depth 8	Rc 1/8	

## AGD1\*V-4R AGD2\*V-6R

JXR female joint



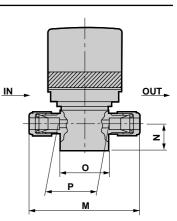


Model No. Symbol	Actuation	J	K	L	
AGD11V-4R	NC	70.6	14.3	□27	
AGD12V-4R	NO	70.0	14.3		
AGD21V-6R	NC	•	40		
AGD22V-6R	NO	83	16	□35	

## AGD1\*V-4S AGD2\*V-6S

Double barbed joint





Model No. Symbol	Actuation	M	N	0	P
AGD11V-4S	NC	62	14.3	□27	27.8
AGD12V-4S	NO	02	14.3	<b>□</b> 21	21.0
AGD21V-6S	NC	80	46		44.0
AGD22V-6S	NO	00	16	□35	44.3