



Air operated valve for process gas

AGD0¹/₂V Series

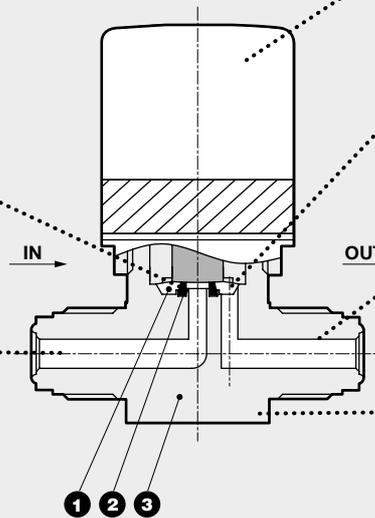
- Metal diaphragm
- Compact type



Model No.	Actuation	Cv flow factor	Model No.	Actuation	Cv flow factor
AGD01V	NC	Cv=0.1	AGD02V	NO	Cv=0.1

Saving space while maintaining basic operations

- Continuous use possible up to 80°C
- Zero particle generation realized with optimum seal structure and improved surface roughness
- Electropolished finish specifications



- Slim 30 diameter actuator
- High corrosion resistance and long life Ni-Co alloy diaphragm (4 million cycles achieved ^{*2})
- JXR joint connection ^{*1} 1/4-inch size male and female fittings
- 22.5mm compact body

Materials for wetted areas

No.	Parts name	Material
1	Diaphragm	Ni-Co alloy
2	Valve seat	PCTFE
3	Body	SUS316L

*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

Descriptions	AGD01V	AGD02V
Working fluid	Inert gas/process gas	
Working pressure range Pa(abs)-MPa	1.3×10 ⁻⁶ to 0.5	
Fluid temperature °C	-10 to 80	
Ambient temperature °C	-10 to 80	
Valve seat leakage Pa·m ³ /s(He)	1.3×10 ⁻⁹ or less	
External leakage Pa·m ³ /s(He)	2.8×10 ⁻¹² or less	
Cv flow factor	0.1	
Connection	1/4" JXR male joint 1/4" JXR female joint	
Actuation	NC (normally closed)	NO (normally open)
Operating pressure MPa	0.4 to 0.6	0.4 to 0.5 (fluid temperature ≤ 60°C) 0.4 to 0.45 (60°C < fluid temperature)
Operating pressure connection port	M5	
Weight kg	0.22 ^{*1}	

*1: Value for AGD01V-4RM (1/4-inch JXR male joint).



Precautions

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

How to order

AGD0 **1** V - **4R**

A Actuation

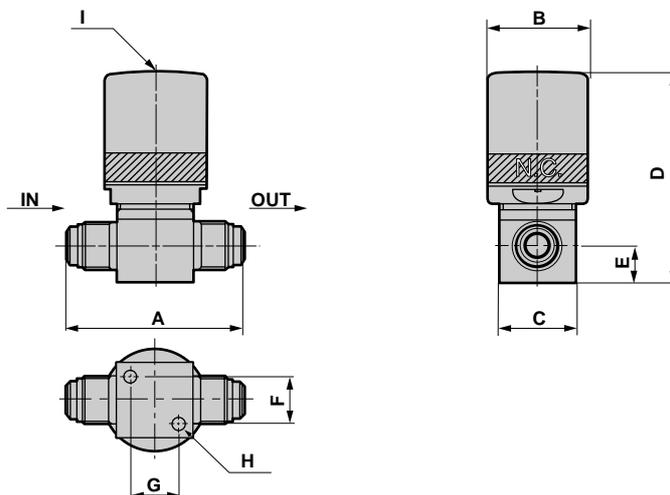
B Connection

Symbol	Descriptions
A Actuation	
1	NC (normally closed)
2	NO (normally open)
B Connection	
4RM	1/4" JXR male joint
4R	1/4" JXR female joint

Dimensions

AGD0*V-4RM

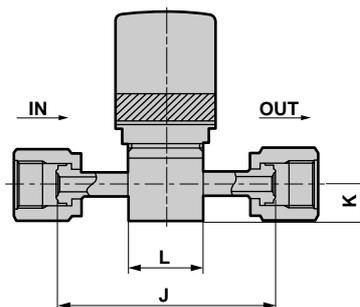
● JXR male joint



Model No. / Symbol	Actuation	A	B	C	D	E	F	G	H	I
AGD01V-4RM	NC	52	ø30	□22.5	63	11	14	14	2-M4 depth 5	M5
AGD02V-4RM	NO	52	ø30	□22.5	63	11	14	14	2-M4 depth 5	M5

AGD0*V-4R

● JXR female joint



Model No. / Symbol	Actuation	J	K	L
AGD01V-4R	NC	66	11	□22.5
AGD02V-4R	NO	66	11	□22.5