



Air operated valve for chemical liquids (3-port valve)

# AMGZ0 / AMG00 Series

● Connection tube size:  $\varnothing 3$ ,  $\varnothing 6$ ,  $\varnothing 6.35$ , 1/8", 1/4"

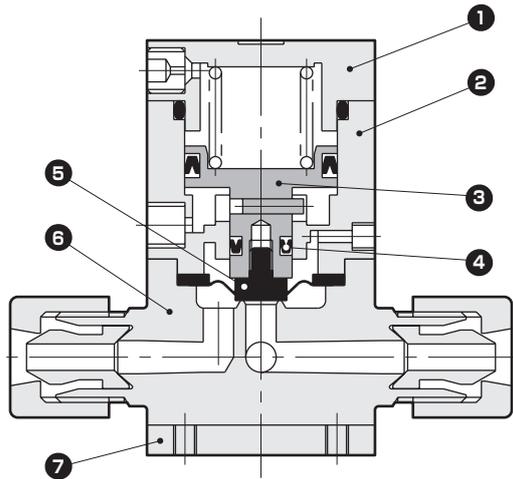


## Specifications

Item	AMGZ0*-2	AMG00*-4
Working fluid	Chemical liquid, pure water, N <sub>2</sub> gas, air (*1)	
Fluid temperature °C	5 to 80	
Proof pressure MPa	1.0	
Working pressure (A→B)MPa	0 to 0.5	
Working pressure (B→A)MPa	0 to 0.3	
Valve seat leakagecm <sup>3</sup> /min	0 (water pressure)	
Back pressure MPa	0 to 0.3	
Ambient temperature°C	0 to 60	
Frequency	30 cycles/min. or less	
Mounting orientation	Unrestricted	
Connection	O.D. $\varnothing 3$ tube connection O.D. 1/8" tube connection	O.D. $\varnothing 6$ tube connection O.D. $\varnothing 6.35$ tube connection O.D. 1/4" tube connection
Orifice size	$\varnothing 2$	$\varnothing 4$
Cv value	0.08	0.32
Operating section	Operating pressure MPa	0.3 to 0.5
	Operating port	M5
Weight kg	0.12	0.21

\*1: Cannot be used with acidic fluids. Check the compatibility of product structural materials, working fluids and atmosphere.

## Internal structure and parts list



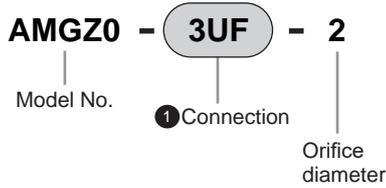
Part No.	Part name	Material
1	Cover	PPS
2	Cylinder	PPS
3	Piston rod	SUS303
4	Y packing	NBR
5	Diaphragm	PTFE
6	Body	PFA, PTFE
7	Mounting plate	SUS304

The material and structure may vary depending on the model number. Contact CKD for details.

Always read the precautions on Intro Pages 7 to 14 before use.

### How to order

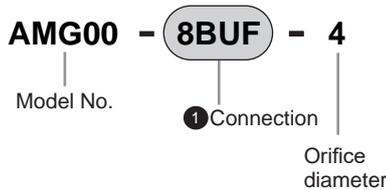
#### ● AMGZO Series



Description	① Connection									
	3US	6BUS	3UP	6BUP	3UF	3UR	6BUR			
	Super Type Pillar fitting Integrated		Super 300 Pillar fitting P series integrated		F-LOCK 200 Series Integrated fitting	F-LOCK 60 Series Integrated fitting				
	ø3 x ø2 tube connection	1.8" x 0.086" tube connection	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			
<b>Orifice size</b>	Refer to text at right						ø2	ø1.6		
<b>Body material</b>	PFA molded body or PTFE machined body						PFA	PFA	PTFE	PTFE

\* Machined PTFE products will be manufactured on a per-order basis.

#### ● AMG00 Series



Description	① Connection																
	6US	8BUS	6UP	8BUP	6UF	8BUF	6UR	8BUR	6UK	8BUK	8BUW						
	Super Type Pillar fitting Integrated		Super 300 Pillar fitting P series integrated		F-LOCK 200 Series Integrated fitting		F-LOCK 60 Series Integrated fitting		Final Lock Fitting Integrated		Flaretek Fitting Integrated						
	ø6 x ø4 tube connection	1/4" x 5/32" tube connection	ø6 x ø4 tube connection	1/4" x 5/32" tube connection	ø6 x ø4 tube connection	ø6.35 x ø4.3 tube connection	ø6 x ø4 tube connection	1/4" x 5/32" tube connection	ø6 x ø4 tube connection	1/4" x 5/32" tube connection	1/4" x 5/32" tube connection						
<b>Orifice size</b>	Refer to text at right											ø4	ø3.5	ø4	ø3		
<b>Body material</b>	PFA molded body or PTFE machined body											PFA	PTFE	PTFE	PTFE	PTFE	PTFE

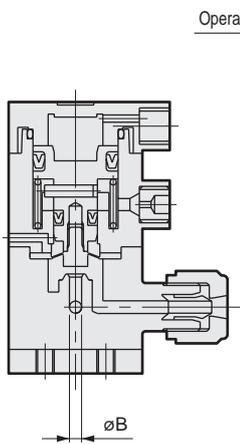
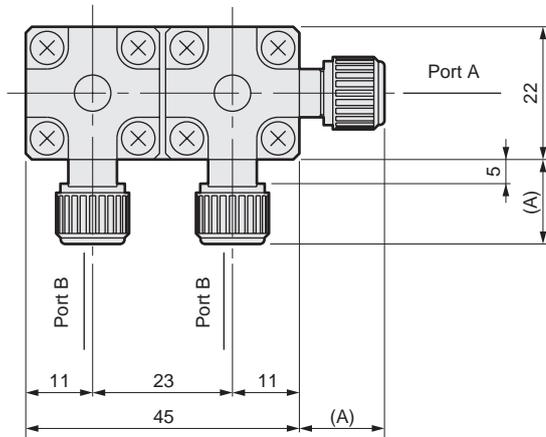
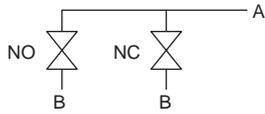
\* Machined PTFE products will be manufactured on a per-order basis.

Part3R	Part2	Part1	High pressure	Metall-free	Large bore size	Polyvinyl chloride	Drainage
Part3RN	Part2	High pressure	Metall-free	Large bore size	Single unit	Air operated Integrated	Regulator
		Manual valve					Manual
							Electric
							Manual
							Manual Fine flow rate
							Fine level Switch
							Related products

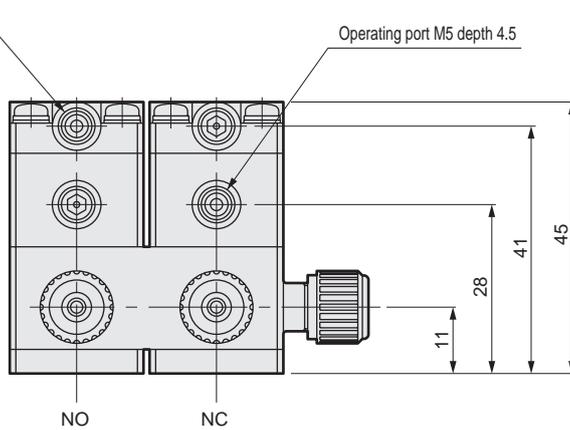
## Dimensions

● Integrated fitting

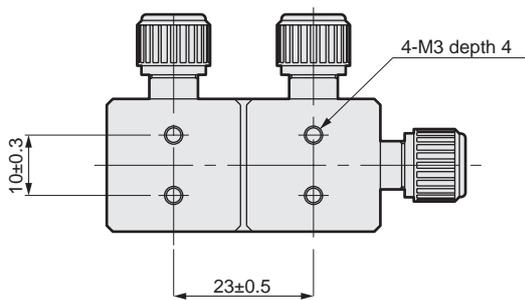
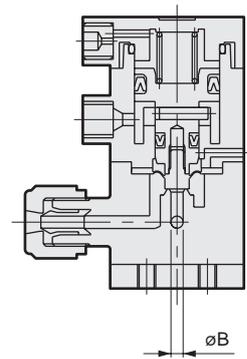
• AMGZO-\*1-2



Operating port M5 depth 4.5



Operating port M5 depth 4.5

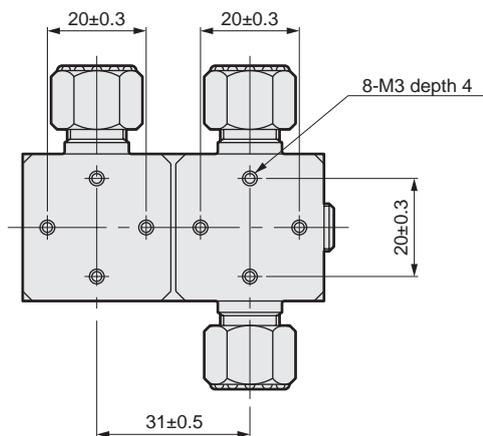
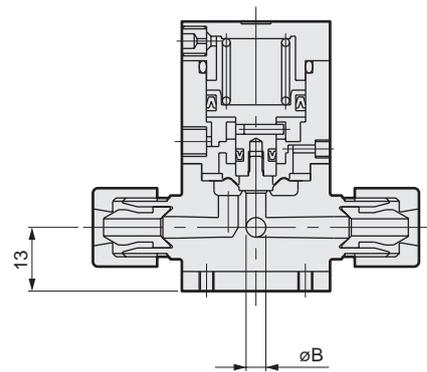
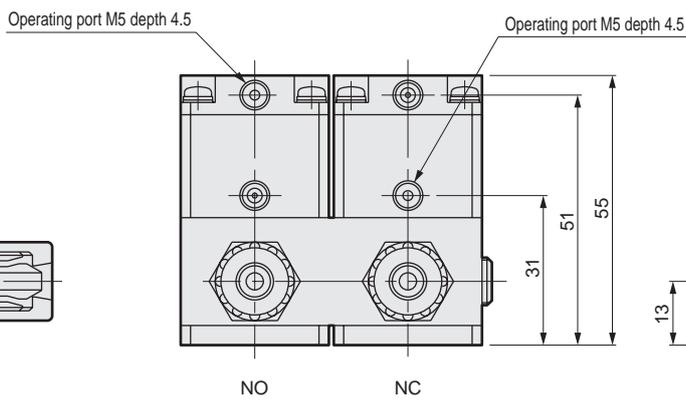
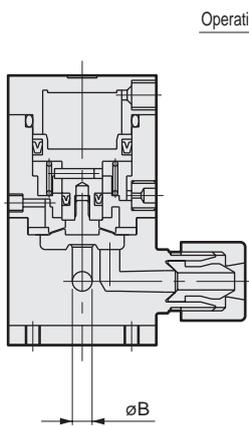
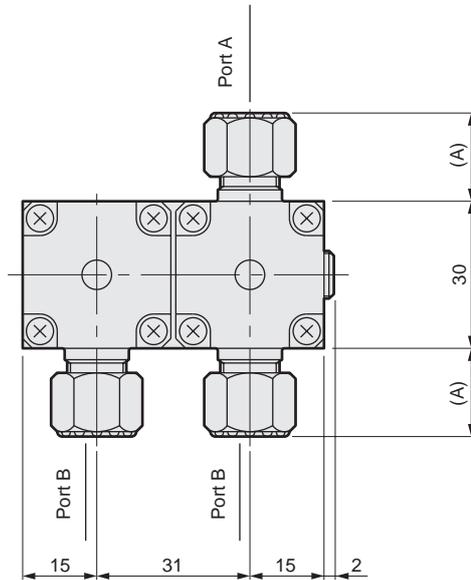
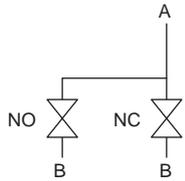


Dimensions		
<span style="border: 1px solid black; padding: 0 2px;">*1</span> (Connector No.)	A	B
3US, 3UP	14	2
6BUS, 6BUP	14	2
3UF	9	2
3UR	17.5	1.6
6BUR	17.5	1.6

### Dimensions

● Integrated fitting

• AMG00- \*1 -4



Dimensions	A	B
<span style="border: 1px solid black; padding: 0 2px;">*1</span> (Connector No.)		
6US	18	4
8BUS	18	4
6UP	19	4
8BUP	19	4

Dimensions	A	B
<span style="border: 1px solid black; padding: 0 2px;">*1</span> (Connector No.)		
6UF	17	4
8BUF	17	4
6UR	30	3.5
8BUR	31	3.5
6UK	20.5	4
8BUK	20.5	4
8BUW	28	3

Part3R	Part2	Part1	High pressure	Metals-free	Large bore size	Polyvinyl chloride	Drainage	Part3RR	Part2	High pressure	Metals-free	Large bore size	Single unit	Air operated integrated	Pilot	Manual	Electric	Manual	Manual Fine flow rate	Fine level Switch	Related products
			Air operated valve							Manual valve			Drip prevention valve		Regulator		Flow rate adjusting valve				