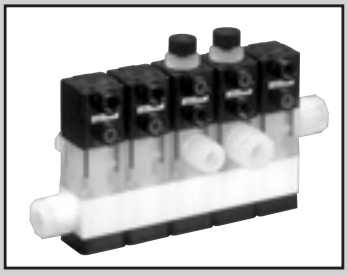
Discontinue



Air operated manifold valve for chemical liquids

GAMD0*2 A Series

- A manifold valve that can be combined in various ways by blocking the body.
- Station No.: 2 to 5 stations
- Connection tube size: ø6, ø8, ø10, ø12, 1/4", 3/8", 1/2"

RoHS Export Trade Control Ordinance not applicable (for individual piping of secondary port)

Specifications

Item		GAMD0*2A			
Working fluid		Chemical liquids, pure water, air, N_2Gas (*1)			
Fluid temperature	°C	5 to 110 (*2)			
Proof pressure	MPa	1.0			
Working pressure (A→B)	MPa	Refer to Fig. 1 below			
Working pressure (B→A)	MPa	Refer to Fig. 1 below			
Valve seat leakage	cm^3/min	0 (water pressure)			
Back pressure	MPa	Refer to Fig. 1 below			
Ambient temperature	°C	0 to 60			
Frequency		30 cycles/min. or less			
Mounting orientation		Unrestricted			
Orifice size		ø6			
Connection		O.D. ø6 tube connection O.D. 1/4" tube connection	O.D. ø8 tube connection	O.D. ø10 tube connection O.D. 3/8" tube connection	O.D. ø12 tube connection (*4) O.D. 1/2" tube connection (*4)
Cv		0.40 (*3)	0.6	0.6	0.6
Operating section	Operating pressure MPa	NC/NO: 0.4 to 0.5, double acting: 0.3 to 0.4			
	Operating port	Rc1/8			
Weight	kg	0.35 (2 stations), 0.52 (3 stations), 0.70 (4 stations), 0.87 (5 stations)			

*1: Check the compatibility of product structural materials, working fluids and atmosphere. (Refer to the compatibility check list on Intro Page 17.)
*2: 5 to 40°C for hydrofluoric acid.
*3: Cv when port A is connected with a tube with O.D. of ø10 or more.
*4: O.D. ø12, O.D. 1/2" tube connections are only available for port A.

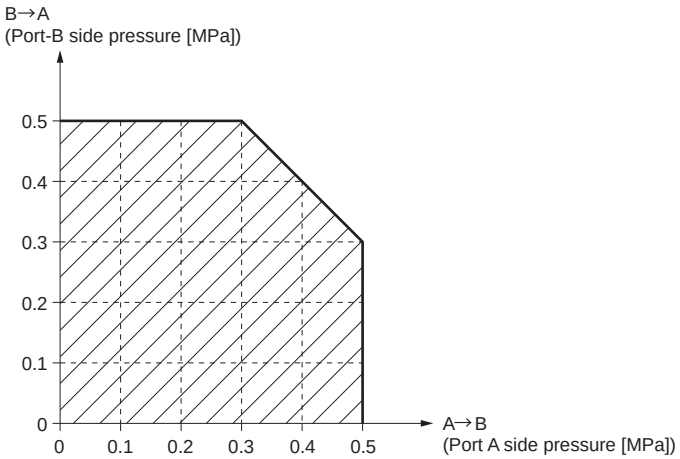
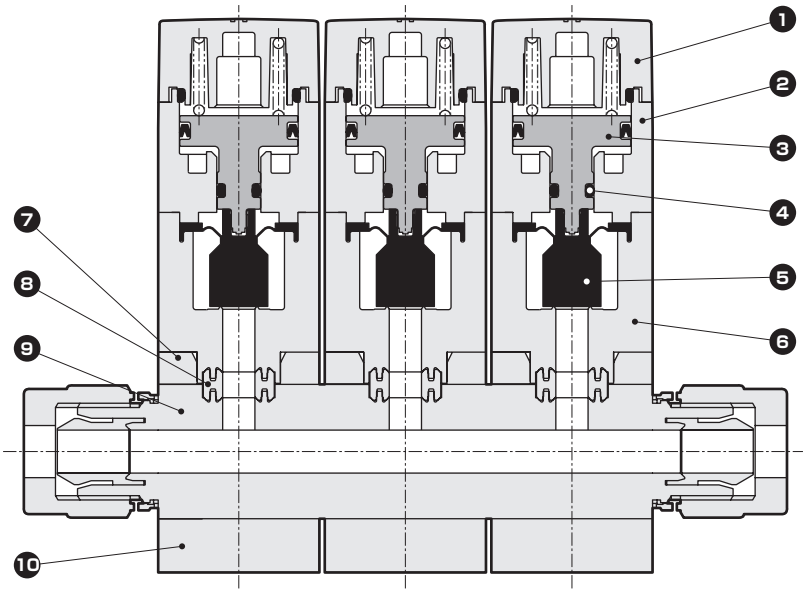


Fig 1. Usable fluid pressure range

(Example) When the pressure on port A side is 0.45 MPa, port B side can be used at 0.35 MPa pressure (back pressure).

Always read the precautions on Intro Pages 9 to 18 before use.

Internal structure and parts list



Part number	Part name	Material (by fluid code)	
		Standard	M
1	Cover	PPS	
2	Cylinder	PPS	
3	Piston rod	PPS	
4	O-ring	FKM	EPDM
5	Diaphragm	PTFE	
6	Body	PFA	
7	Plate	PVDF	
8	Seal ring	PFA	
9	Base body	PTFE	
10	Mounting plate	PPS	

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

How to order

●Standard manifold

GAMD0 **1** **2A** - **10BUP** - **8BUP** - **0** - **3** **( )** **R**

- Model No.
- Ⓐ Actuation
- Ⓑ Connection (Port A fitting)
- Ⓒ Connection (Port B fitting)
- Ⓓ Option
- Ⓔ Station No.
- Ⓕ Fluid
- Ⓖ Port A fitting direction

Code	Description	
Ⓐ Actuation		
1	NC (Normally Closed)	
2	NO (Normally Open)	
3	Double acting	
Ⓑ Connector (port A fitting)		
6UP	Super 300 Pillar fitting P series integrated	ø6 x ø4 tube connection
8UP		ø8 x ø6 tube connection
10UP		ø10 x ø8 tube connection
12UP		ø12 x ø10 tube connection
8BUP		1/4" x 5/32" tube connection
10BUP		3/8" × 1/4" tube connection
15BUP		1/2" × 3/8" tube connection
Ⓒ Connector (port B fitting)		
6UP	Super 300 Pillar fitting P series integrated	ø6 x ø4 tube connection
8UP		ø8 x ø6 tube connection
10UP		ø10 x ø8 tube connection
8BUP		1/4" x 5/32" tube connection
10BUP		3/8" × 1/4" tube connection
Ⓓ Option		
0	ON/OFF only	
1	With flow rate adjustment	
Ⓔ Station No.		
2	2 stations	
to	to	
5	5 stations	
Ⓕ Fluid		
Blank	Standard	
M	For ammonia	
Ⓖ Port A fitting direction (*1)		
L	Left	
R	Right	
W	Both sides	

Precautions for model No. selection

*1: The direction viewed with the operating port in front.

How to order

●Mix manifold

GAMD0 (X) 2A - (3)( ) - X A0077 (*1)

- X: Mix Manifold
- Model No.
- A Station No.
- B Fluid

Code	Description
A Station No.	
2	2 stations
to	to
5	5 stations
B Fluid	
Blank	Standard
M	For ammonia

Precautions for model No. selection

Be sure to fill in the "Manifold specifications sheet" (pages 96 and 97).

*1: Leave blank (serial number). After receiving the specifications, CKD will contact you regarding the model No.

●Discrete valve model No. * The valve cannot be ordered as a single unit.

AMD0 (1) 2A - (10BUP) - (0)( ) - (F)

- A Actuation
- B Connection (Port B fitting)
- C Option
- D Fluid
- E Port B fitting direction

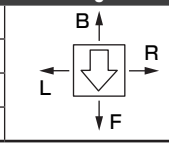
A Actuation	
1	NC (Normally Closed)
2	NO (Normally Open)
3	Double acting

B Connector (port B fitting)		
6UP	Super 300 Pillar fitting P series integrated	ø6 x ø4 tube connection
8UP		ø8 x ø6 tube connection
10UP		ø10 x ø8 tube connection
8BUP		1/4" x 5/32" tube connection
10BUP		3/8" × 1/4" tube connection

C Option	
0	ON/OFF only
1	With flow rate adjustment

D Fluid	
Blank	Standard
M	For ammonia

* The code is the same as Item B of mix manifold model No.

E Port B fitting direction	
F	
B	
L	
R	

With the valve viewed from above, the ⇩ direction indicates the position of the operating port, and the ← indicates the direction of the B port.

* Except for the valves at both ends, port B direction "F" or "B" can be selected.

●Base body model No. * The base body cannot be ordered as a single unit.

GAMD012A - BB - (10BUP) - (3)(R)

- A Connection (Port A fitting)
- B Station No.
- C Port A fitting direction

A Connector (port A fitting)		
6UP	Super 300 Pillar fitting P series integrated	ø6 x ø4 tube connection
8UP		ø8 x ø6 tube connection
10UP		ø10 x ø8 tube connection
12UP		ø12 x ø10 tube connection
8BUP		1/4" x 5/32" tube connection
10BUP		3/8" × 1/4" tube connection
15BUP		1/2" × 3/8" tube connection

B Station No.	
2	2 stations
to	to
5	5 stations

* The code is the same as Item A of mix manifold model No.

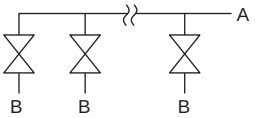
C Port A fitting direction	
L	Left
R	Right
W	Both sides

Dimensions

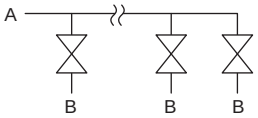
●Standard manifold ON/OFF only

• GAMD0$^{1}_{2}_{3}$ 2 A- *1 - *2 0

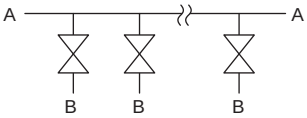
Port A position: R

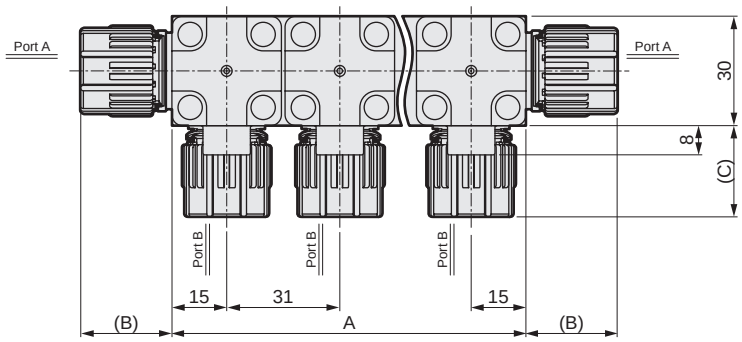


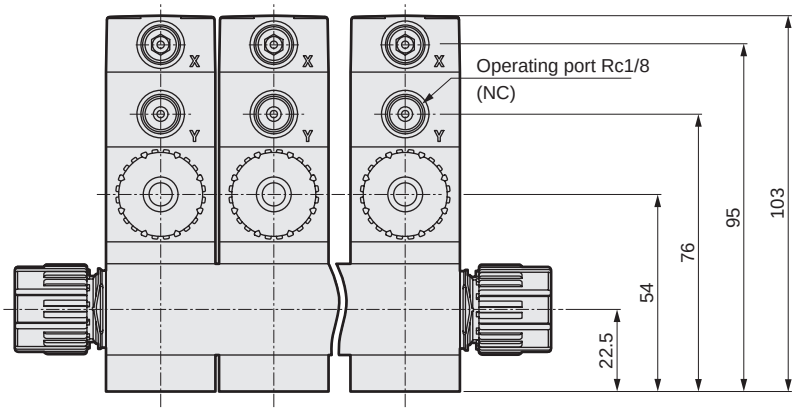
Port A position: L

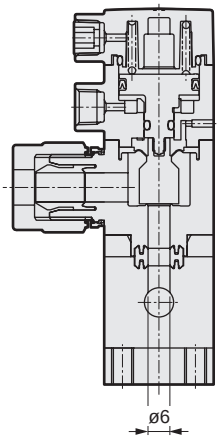


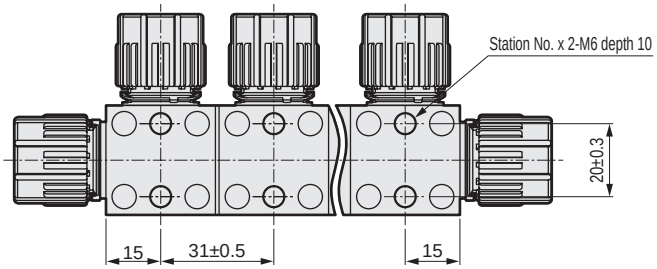
Port A position: W







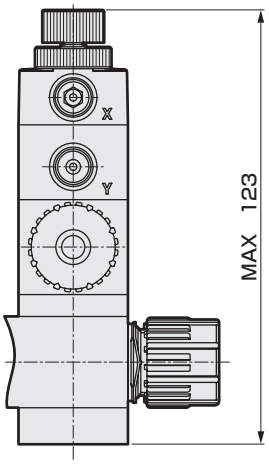




Station No.	A	*1 Port A fitting	B	*2 Port B fitting	C
2	61	6UP	19	6UP	19
3	92	8BUP	19	8BUP	19
4	123	8UP	22	8UP	22
5	154	10UP	25	10UP	25
		10BUP	25	10BUP	25
		12UP	29		
		15BUP	29		

●With flow rate adjustment

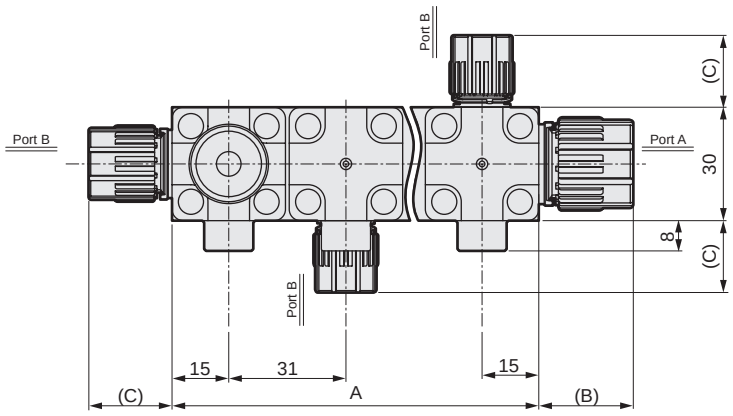
• GAMD0$^{1}_{2}_{3}$ 2 A- *1 - *2 1



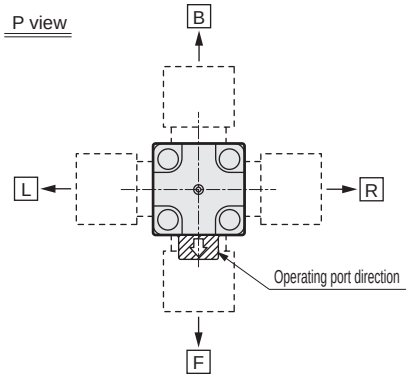
Dimensions

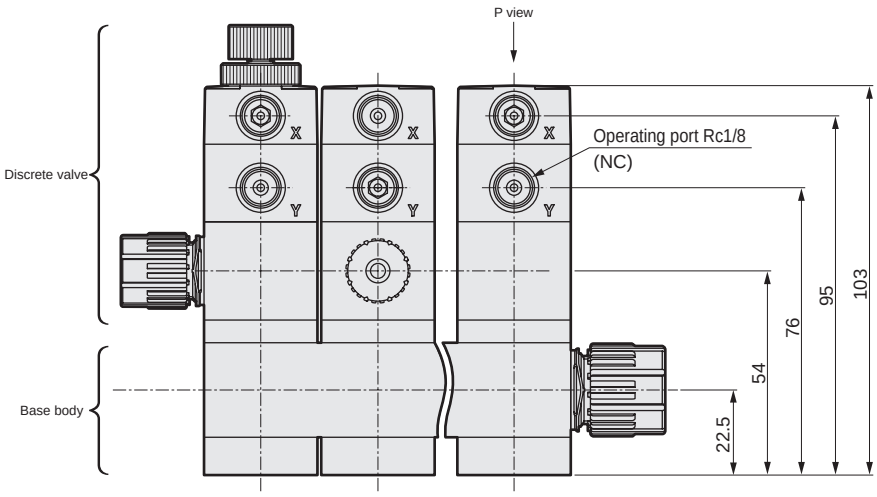
●Mix manifold

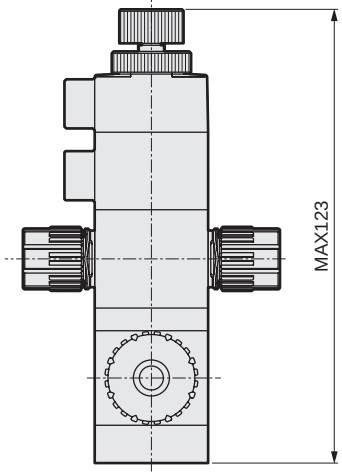
・GAMD0X2A

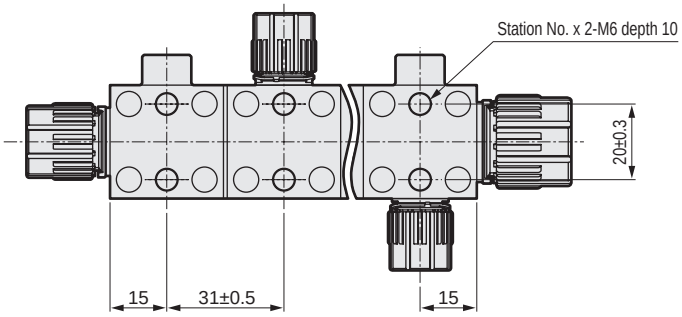


●Mix manifold Port B direction









Station No.	A
2	61
3	92
4	123
5	154

Port A fitting	B
6UP	19
8BUP	19
8UP	22
10UP	25
10BUP	25
12UP	29
15BUP	29

Port B fitting	C
6UP	19
8BUP	19
8UP	22
10UP	25
10BUP	25

How to fill out mix manifold specifications sheet

● Manifold model No. (example)

GAMD0X2A - 5 [ ] - X [ ]

Model No. Ⓐ Station No. Ⓑ Fluid (Leave blank (serial number))

Part name	Model No.	Layout position					Quantity
		1st station	2nd station	3rd station	4th station	5th station	
Discrete valve	AMD0 1 2A- 10BUP - 0 [ ] - L	●					1
	AMD0 2 2A- 8BUP - 1 [ ] - F		●				1
	AMD0 2 2A- 8BUP - 0 [ ] - F			●	●		2
	AMD0 2 2A- 8BUP - 0 [ ] - B					●	1
	AMD0 [ ] 2A- [ ] - [ ] - [ ]						
Base body	GAMD012A - BB - 10BUP - 5 R						

Manifold station No. : 1st station

Manifold station No. : 5th station

Preparing manifold specifications sheet

- With the operation port in front of you, from the left end, it will be the first series, the second series, and so on.
- Enter the single unit valve model No., base body model No. and arrangement selected from the mix manifold (page 93).
- Write the total number of valves specified in the Quantity in the table far right.

GAMDOX2A Mix manifold specifications sheet

●Contact ●Quantity/set(s) ●Delivery date /

Slip No.	Order No.

Date issued / /
Company
Contact
Order No.

●Manifold model No.

GAMD0X2A - [ ][ ] **- X** [ ]

Ⓐ Station No. Ⓑ Fluid (*1)

Refer to "Mix manifold" (page 93) to select the model No.

Part name	Model No.	Layout position					Quantity
		1st station	2nd station	3rd station	4th station	5th station	
Discrete valve	AMD0 [ ] 2A- [ ] - [ ][ ] - [ ]						
	AMD0 [ ] 2A- [ ] - [ ][ ] - [ ]						
	AMD0 [ ] 2A- [ ] - [ ][ ] - [ ]						
	AMD0 [ ] 2A- [ ] - [ ][ ] - [ ]						
	AMD0 [ ] 2A- [ ] - [ ][ ] - [ ]						
Base body	GAMD012A - BB - [ ] - [ ][ ]						

*With the operation port in front of you, from the left end, it will be the first series, the second series, and so on.

Precautions for model No. selection

*1: Leave blank (serial number). After receiving the specifications, CKD will contact you regarding the model No.