

Master valve single unit/manifold (metal base)
Body piping

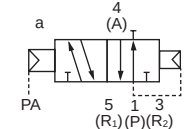
(M)3GA1/2/3 / (M)4GA1/2/3 Series

● Applicable cylinder bore size: ø20 to ø100

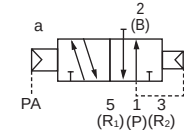


JIS symbol

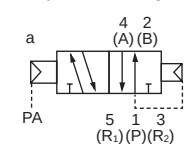
- 3-port valve
2-position single NC



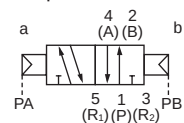
- 2-position single NO



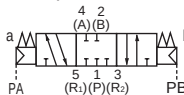
- 5-port valve
2-position single



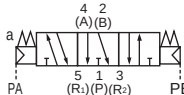
- 2-position double



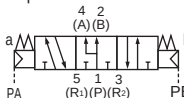
- 3-position
All ports closed



- 3-position A/B/R connection



- 3-position P/A/B connection



Common specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		Description
Valve and operation		Pilot operated soft spool valve
Working fluid		Compressed air
Max. working pressure	MPa	0.7 (≈101 psi, 7 bar)
Min. working pressure *1	MPa	Refer to main pressure section in the table below
Proof pressure	MPa	1.05 (≈152 psi, 10 bar)
Ambient temperature	°C	-5 (23°F) to 55 (131°F) (no freezing)
Fluid temperature	°C	5 (41°F) to 55 (131°F)
Manual override		Non-locking/locking common
Pilot exhaust method (manual operation)		Main valve/pilot valve common exhaust
Lubrication	*2	Not required
Vibration resistance	m/s ²	50 or less
Shock resistance	m/s ²	300 or less
Atmosphere		Cannot be used in corrosive gas environments

*1: When operating manually, supply pressure to port P as shown in the table below is required.

2-position 0.1 MPa and over

3-position 0.2 MPa and over

*2: Use turbine oil Class 1 ISO VG32 for lubrication.

Excessive or intermittent lubrication results in unstable operation.

Individual specifications

Body piping (discrete/manifold)

No. of ports	Model No.		Solenoid position	Pilot port PA/PB	Main pressure	Pilot signal pressure MPa	Other specifications Page *
	Single unit	Manifold					
3-port	3GA1**1R	M3GA1**1R	2-position	M5	0.2 to 0.7	(0.6 × main pressure + 0.06) to 0.7	Single unit: Page 12 Manifold: Page 96
	3GA2**1R	M3GA2**1R	single				
	3GA3**1R	M3GA3**1R	NC/NO				
5-port	4GA111R	M4GA111R	2-position single	M5	0.2 to 0.7	(0.6 × main pressure + 0.06) to 0.7	
	4GA121R	M4GA121R	2-position double				
	4GA1 ³ / ₅ 1R	M4GA1 ³ / ₅ 1R	3-position				
	4GA211R	M4GA211R	2-position single	M5	0.2 to 0.7	(0.6 × main pressure + 0.06) to 0.7	
	4GA221R	M4GA221R	2-position double				
	4GA2 ³ / ₅ 1R	M4GA2 ³ / ₅ 1R	3-position				
	4GA311R	M4GA311R	2-position single	M5	0.2 to 0.7	(0.6 × main pressure + 0.06) to 0.7	
	4GA321R	M4GA321R	2-position double				
	4GA3 ³ / ₅ 1R	M4GA3 ³ / ₅ 1R	3-position				

* Other specifications are the same as those of 4G Series. Refer to pages for each specification.

3GA/4GA Series

Master valve; body piping

How to order

Single master valve

4GA2 1 1R - C4 - H

A Model No.

B Solenoid position

C Port size

D Option

		A Model No.					
		3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
Code	Description						
B Solenoid position							
1	2 position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position ABR connection				●	●	●
5	3-position PAB connection				●	●	●
1	2-position single: normally closed (*1)	●	●	●			
11	2-position single: normally open (*1)	●	●	●			
C Port size							
Port	A/B Port	P/R1/Port R2 ①=M5 ②=Rc1/8 ③=Rc1/4					
C4	ø4 push-in fitting	①	②		①	②	
C6	ø6 push-in fitting	①	②	③	①	②	③
C8	ø8 push-in fitting		②	③		②	③
C10	ø10 push-in fitting			③			③
M5	M5	①			①		
06	Rc1/8		②			②	
08	Rc1/4			③			③
Port	4(A)/2(B) port	Port P/R1/R2 (1)=M5 (5)=1/8NPT (6)=Rc1/4NPT					
C3N	ø1/8" push-in fitting	①			①		
C4N	ø5/32" push-in fitting	①			①		
C6N	ø1/4" push-in fitting		⑤			⑤	
C8N	ø5/16" push-in fitting (*5)		⑤	⑥		⑤	⑥
C10N	ø3/8" push-in fitting (*5)			⑥			⑥
06 N	NPT1/8		⑤			⑤	
08 N	NPT1/4 (*5)			⑥			⑥
Port	4(A)/2(B) port	Port P/R1/R2 ⑧=G1/8 ⑨=G1/4					
C4G	ø4 push-in fitting		⑧			⑧	
C6G	ø6 push-in fitting		⑧			⑧	
C8G	ø8 push-in fitting		⑧	⑨		⑧	⑨
C10G	ø10 push-in fitting			⑨			⑨
06G	G1/8		⑧			⑧	
08G	G1/4			⑨			⑨
D Option							
Blank	No	●	●	●	●	●	●
H	With exhaust check valve (*2)	●	●	●	●	●	●
P	With mounting plate (*3)	●	●	●	●	●	●
A	Ozone/coolant proof product	●	●	●	●	●	●
F	Port A/B filter built in (*4)	●	●	●	●	●	●

is not available.

⚠ Precautions for model No. selection

*1 For the 3G A normally closed, the piping connection 2 (B) and 3 (R2) ports are plugged. For 3GA normally open type, avoid plugging the 5 (R1) port. This may cause malfunction.

*2 3-position all ports closed and P A B connection are not provided with the exhaust check valve specifications (H). Refer to page 851 for details on the exhaust check valve.

3 For option code P, that normal mounting is not possible because of the pilot port direction.

*4 A filter is built into port P as standard.

*5 4G3 is a made-to-order product.

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

3GA/4GA Series

Single master valve; body piping

How to order

Manifold

M **4GA2** **1** **1R** - **C4** - **H** **D** - **8**

Discrete master valve for manifold (gasket, mounting screw, PR check valve attached)

4GA2 **1** **8R** - **C4** - **H**

A Model No.

B Solenoid position

C Port size

D Option

E Mount type

F Station No.

A Model No.

M3GA1	M3GA2	M3GA3	M4GA1	M4GA2	M4GA3
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Code	Description	M3GA1	M3GA2	M3GA3	M4GA1	M4GA2	M4GA3
B Solenoid position							
1	2 position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position ABR connection				●	●	●
5	3-position PAB connection				●	●	●
1	2-position single normally closed	●	●	●			
11	2-position single normally open	●	●	●			
8	Mix manifold(for multiple solenoid positions)	●	●	●	●	●	●

C Port size							
Port	Port A/B	P/R1/Port R2 ②=Rc1/8 ③=Rc1/4 ④=Rc3/8					
C4	ø4 push-in fitting	②	③		②	③	
C6	ø6 push-in fitting	②	③	④	②	③	④
C8	ø8 push-in fitting		③	④		③	④
C10	ø10 push-in fitting			④			④
CX	Push-in fitting mix (*1)	②	③	④	②	③	④
M5	M5	②			②		
06	Rc1/8		③			③	
08	Rc1/4			④			④
Port 4(A)/2(B) port							
Port P/R1/R2 ⑤=1/8NPT ⑥=1/4NPT ⑦=3/8NPT							
C3N	ø1/8" push-in fitting	⑤			⑤		
C4N	ø5/32" push-in fitting	⑤			⑤		
C6N	ø1/4" push-in fitting		⑥			⑥	
C8N	ø5/16" push-in fitting		⑥	⑦		⑥	⑦
C10N	ø3/8" push-in fitting			⑦			⑦
CXN	Push-in fitting mix (*1)	⑤	⑥	⑦	⑤	⑥	⑦
M5N	M5	⑤			⑤		
06 N	NPT1/8		⑥			⑥	
08 N	NPT1/4 (*6)			⑦			⑦
Port 4(A)/2(B) port							
Port P/R1/R2 ⑧=G1/8 ⑨=G1/4 ⑩=G3/8							
C4G	ø4 push-in fitting	⑧	⑨		⑧	⑨	
C6G	ø6 push-in fitting	⑧	⑨		⑧	⑨	
C8G	ø8 push-in fitting		⑨	⑩		⑨	⑩
C10G	ø10 push-in fitting			⑩			⑩
CXG	Push-in fitting mix (*1)	⑧	⑨	⑩	⑧	⑨	⑩
M5G	M5	⑧			⑧		
06G	G1/8		⑨			⑨	
08G	G1/4			⑩			⑩

D Option							
Blank	No	●	●	●	●	●	●
H	With exhaust check valve (*2)	●	●	●	●	●	●
A	Ozone/Coolant proof	●	●	●	●	●	●
F	Port A/B filter built in (*3)	●	●	●	●	●	●
Z1	Air supply spacer (*4)(*5)	●	●	●	●	●	●
Z2	In-stop valve spacer (*4)(*5)	●	●	●	●	●	●
Z3	Exhaust spacer (*4)(*5)	●	●	●	●	●	●

E Mount type							
Blank	Direct mount	●	●	●	●	●	●
D	DIN rail mount	●	●	●	●	●	●

F Station No.							
2	2 stations						
to	to	●	●	●	●	●	●
20	Refer to page 96 for the max. station No. per model.						

⚠ Precautions for model No. selection

*1 : The push-in fitting cannot be mixed with the discrete valve's 4(A) or 2(B) port.

*2 : 3-position all ports closed and PAB connection are not provided with the exhaust check valve specifications (H). Refer to page 851 for details on the exhaust check valve.

*3 : A filter is built into port P as standard.

*4 : Specify the spacer mounting position and quantity on the manifold specifications sheet. Stacking of spacers is not possible. Combination with the masking plate is not supported. For details, refer to page 188 to page 192.

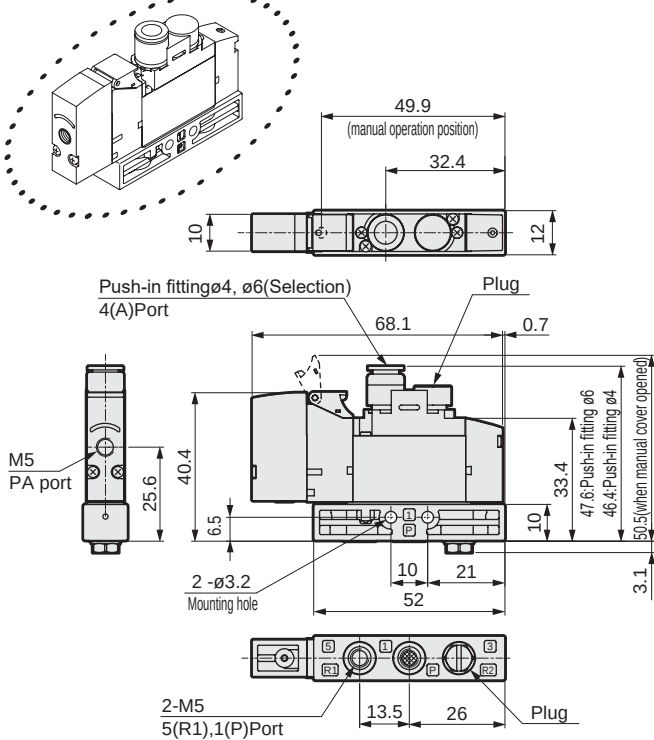
*5 : Not available with the discrete master valve for manifold.

*6 : Made-to-order product.

Dimensions

3GA111R

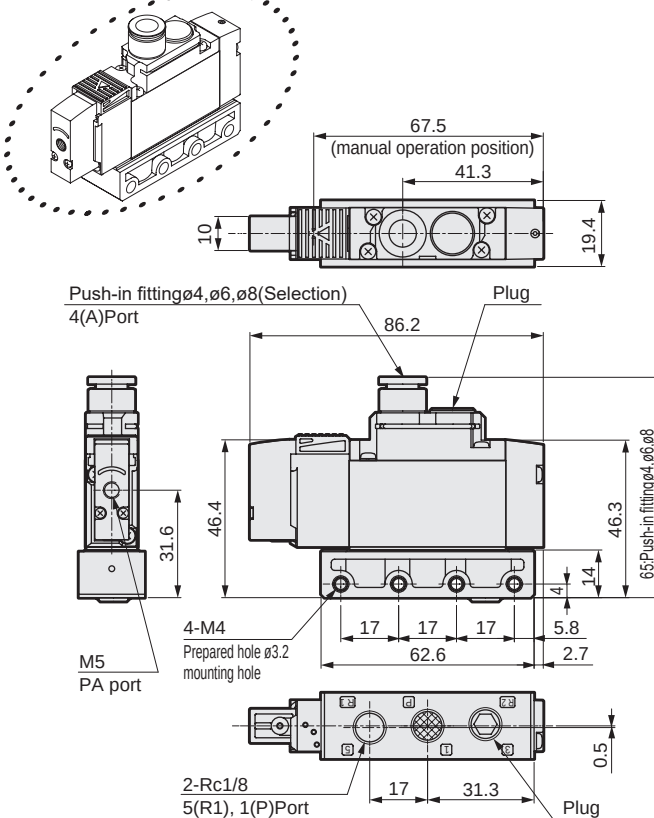
● 2-position single normally closed



- * The mounting plate (P) is the same as that of the solenoid valve. Refer to pages 22 and 24 for dimensions.
- * For M5 thread dimensions, refer to pages 22 and 24.
- * For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 52 to 59.

3GA211R

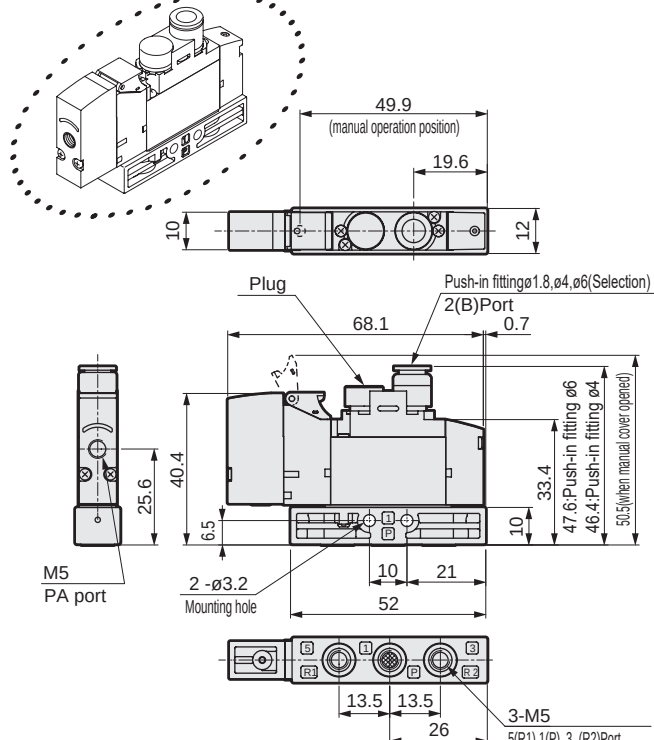
● 2-position single normally closed



- * The mounting plate (P) is the same as that of the solenoid valve. Refer to pages 26 and 28 for dimensions.
- * For Rc1/8 thread (06) dimensions, refer to pages 26 and 28.
- * For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 52 to 59.
- * Refer to page 853 for mounting hole details.

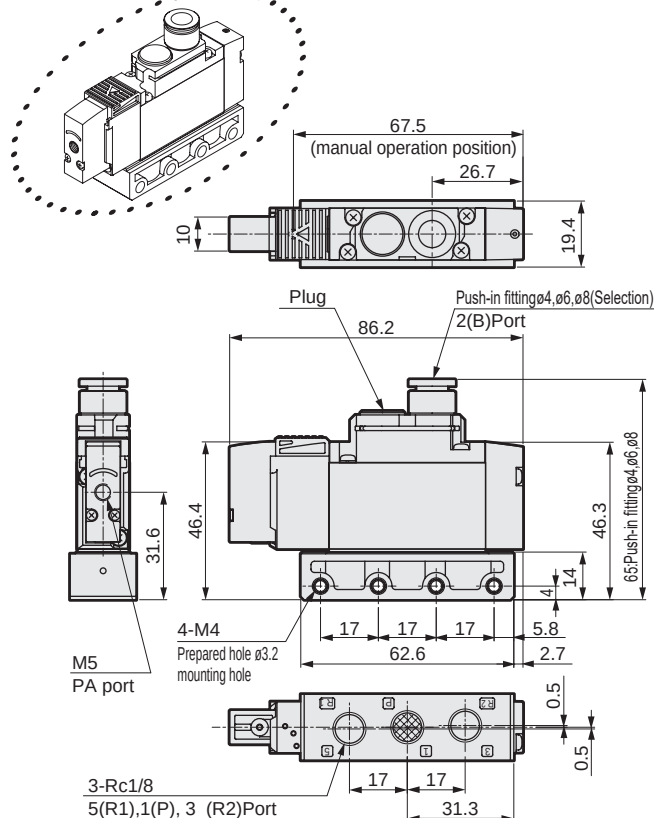
3GA1111R

● 2-position single normally open



3GA2111R

● 2-position single normally open



4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

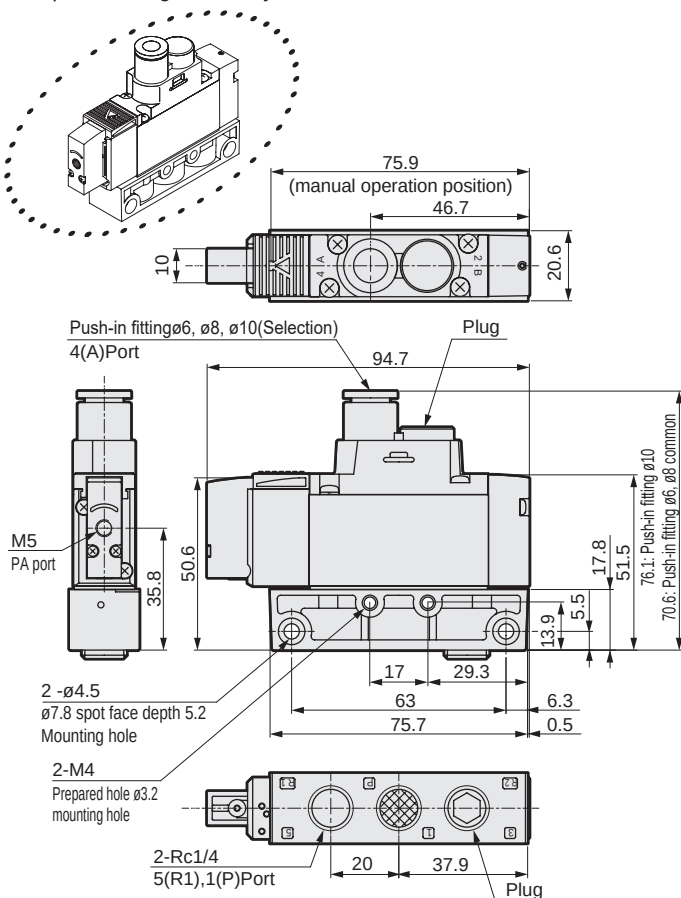
3GA Series

Single master valve; body piping

Dimensions

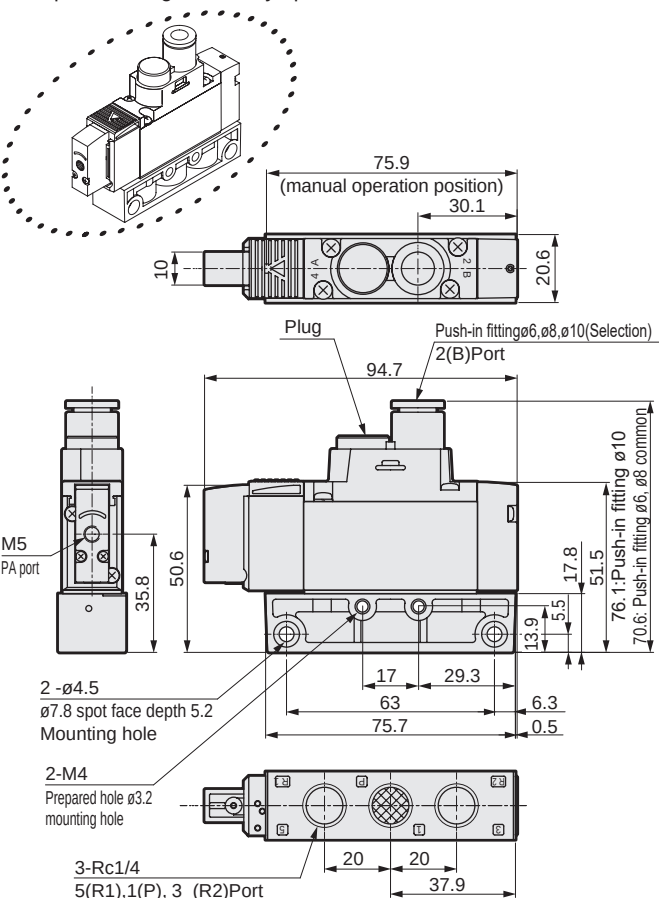
3GA311R

● 2-position single normally closed



3GA3111R

● 2-position single normally open



* The mounting plate (P) is the same as that of the solenoid valve. Refer to pages 30 and 32 for dimensions.

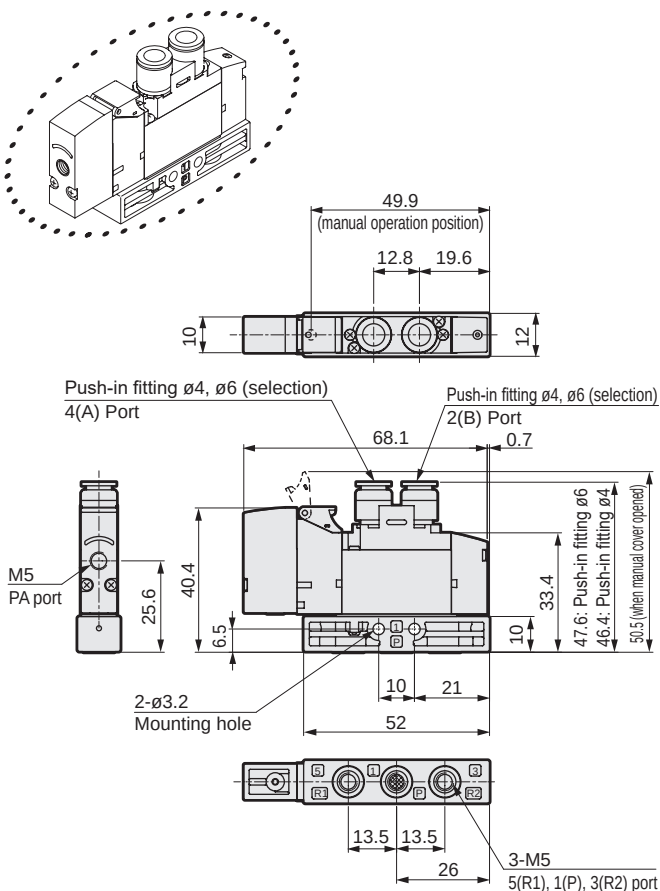
* For Rc1/4 thread (08) dimensions, refer to pages 30 and 32.

* For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 52 to 59.

Dimensions

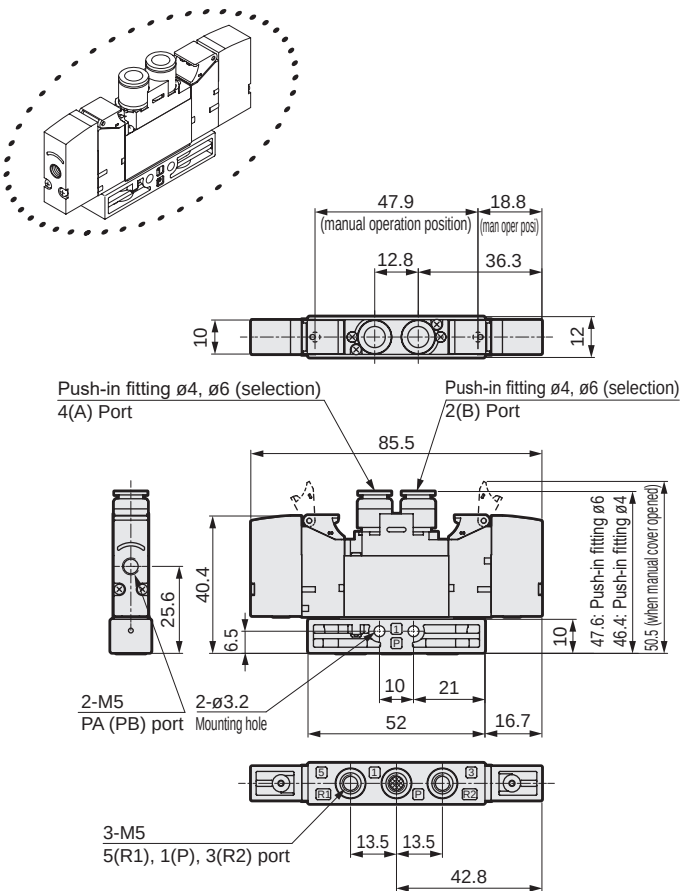
4GA111R

● 2-position single



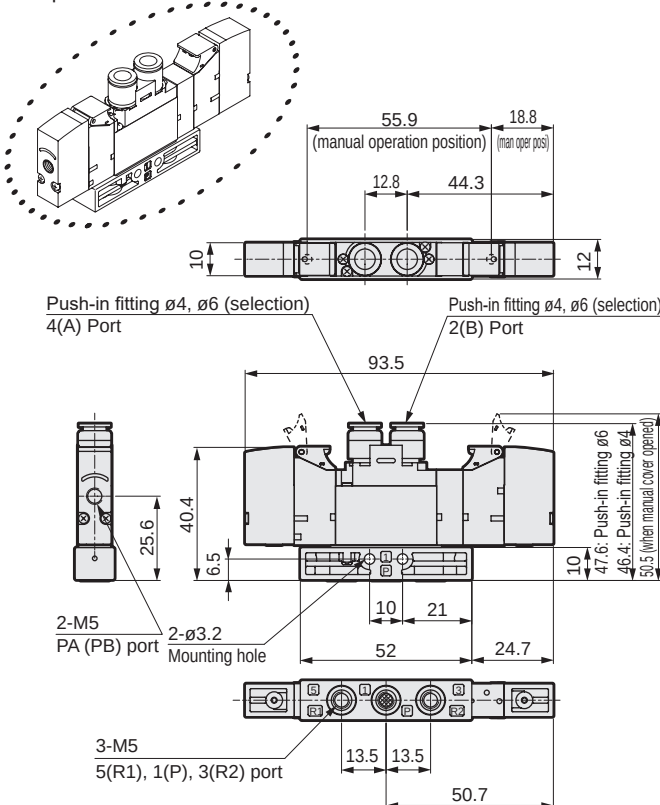
4GA121R

● 2-position double



4GA1³1R

● 3-position



* The mounting plate (P) is the same as that of the solenoid valve. Refer to pages 34, 36 and 38 for dimensions.

* For M5 thread dimensions, refer to pages 34, 36, and 38.

* For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 52 to 59.

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

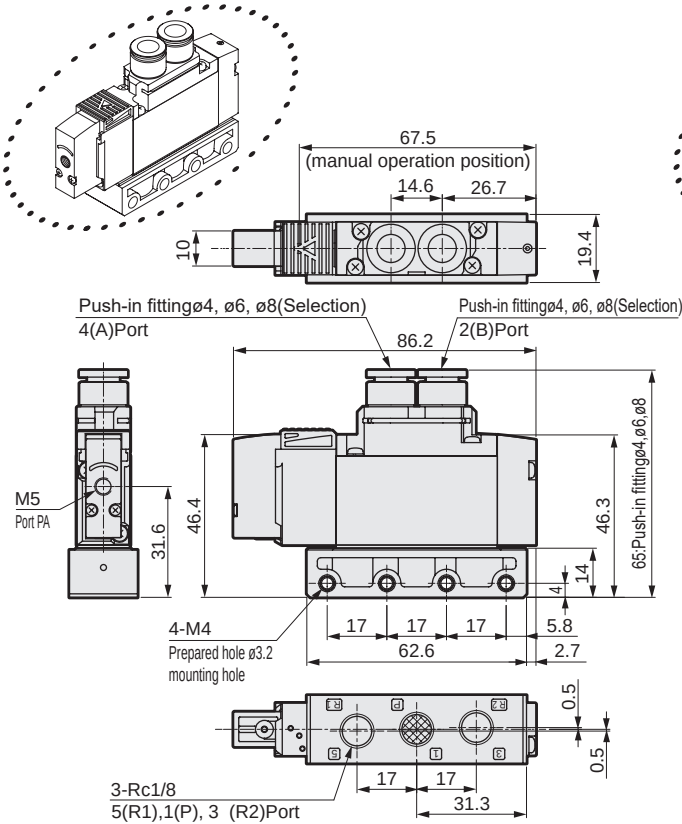
4GA Series

Single master valve; body piping

Dimensions

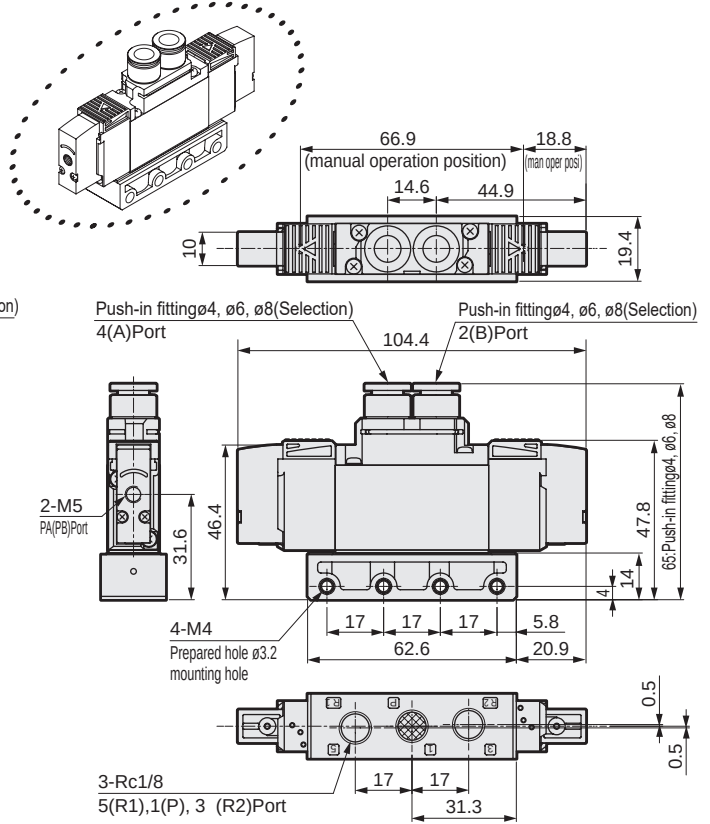
4GA211R

● 2 position single



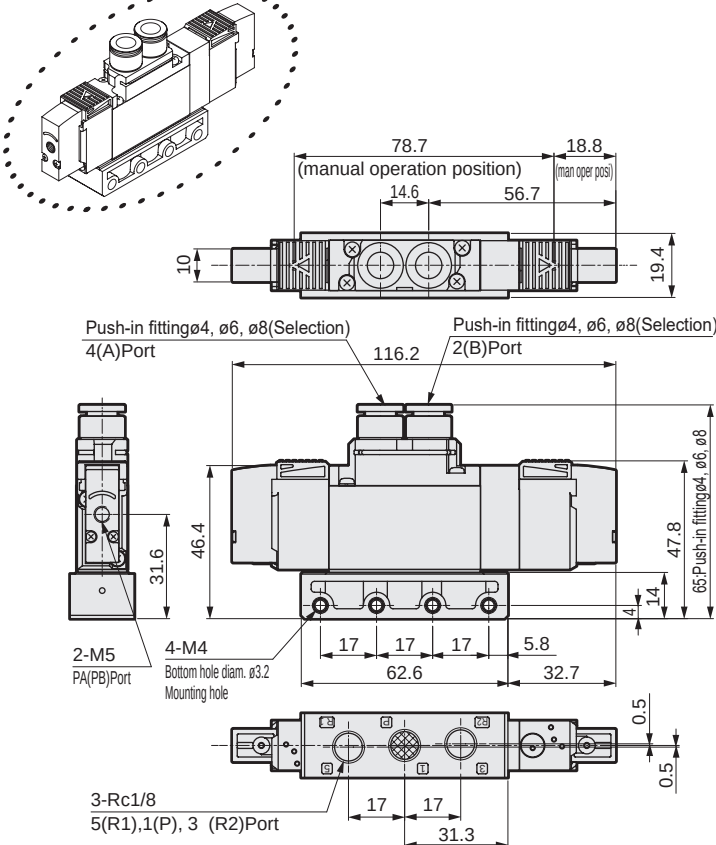
4GA221R

● 2-position double



4GA211R³

● 3-position



* The mounting plate (P) is the same as that of the solenoid valve. Refer to pages 40, 42 and 44 for dimensions.

* For Rc1/8 thread (06) dimensions, refer to pages 40, 42, and 44.

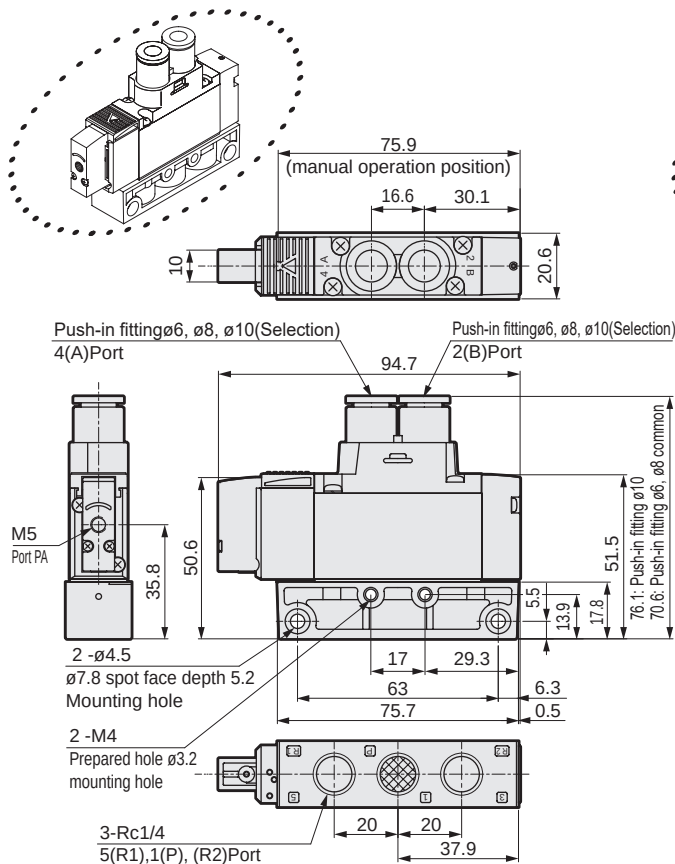
* For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 52 to 59.

* Refer to page 853 for mounting hole details.

Dimensions

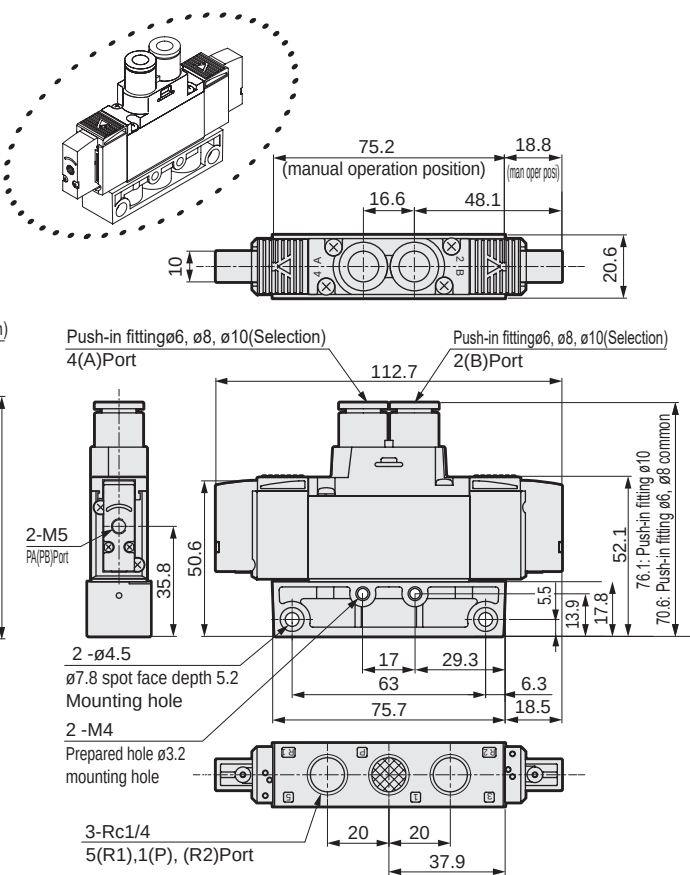
4GA311R

● 2 position single



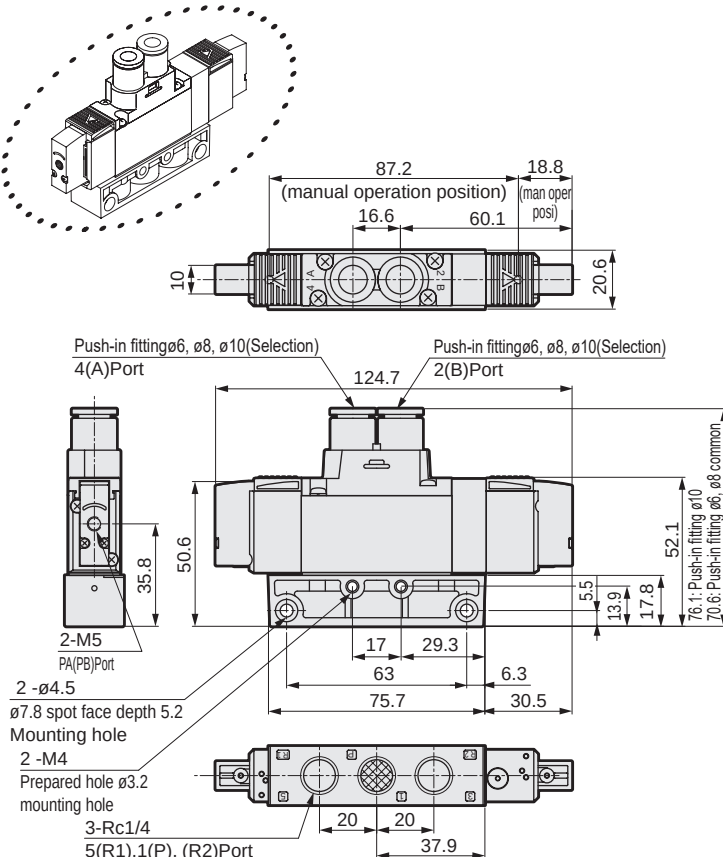
4GA321R

● 2-position double



4GA311R

● 3-position



* The mounting plate (P) is the same as that of the solenoid valve. Refer to pages 46, 48 and 50 for dimensions.

* For Rc1/4 thread (08) dimensions, refer to pages 46, 48, and 50.

* For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 52 to 59.

* Refer to page 853 for mounting hole details.

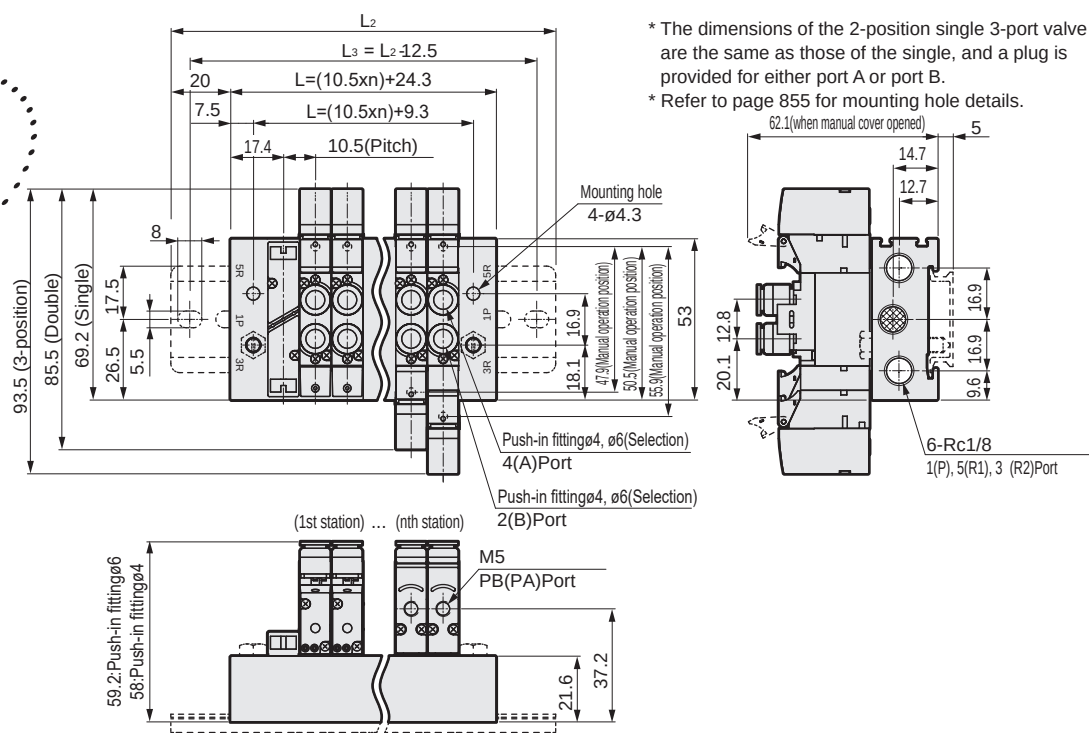
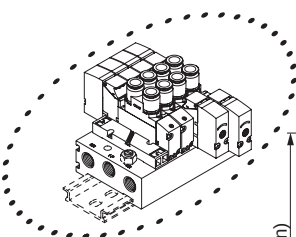
4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

Master valve manifold; body piping

Dimensions

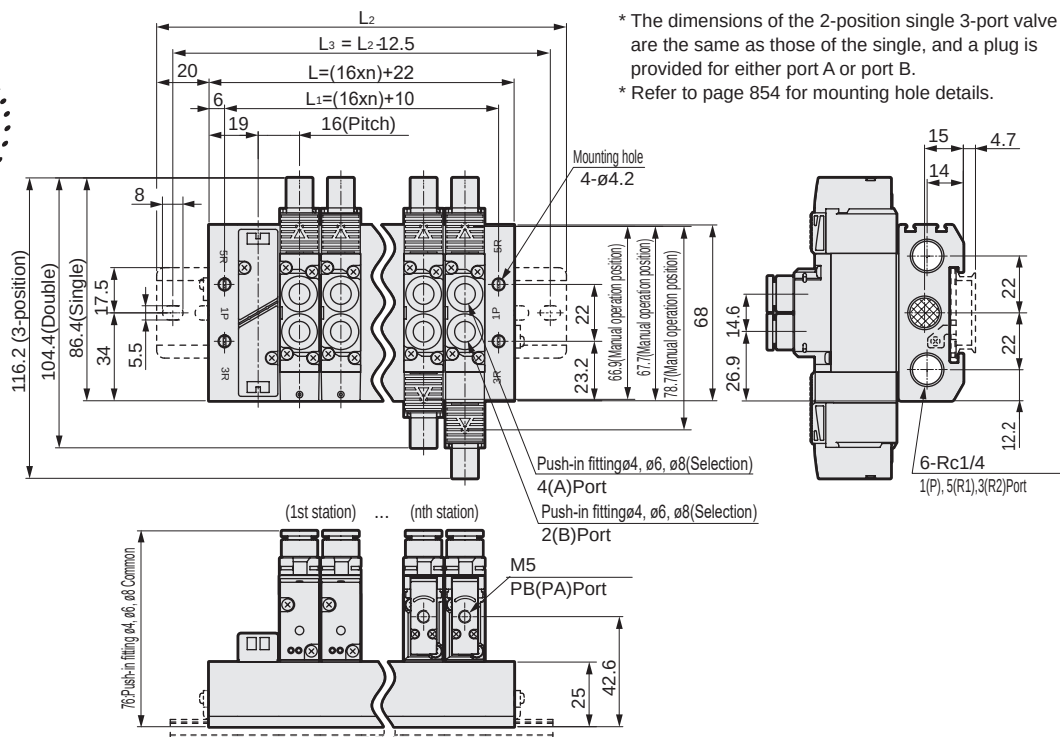
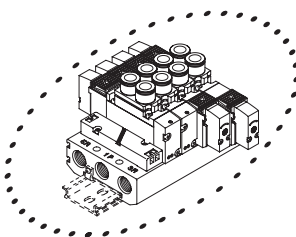


M4GA1



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	45.3	55.8	66.3	76.8	87.3	97.8	108.3	118.8	129.3	139.8	150.3	160.8	171.3	181.8	192.3	202.8	213.3	223.8	234.3
L ₁	30.3	40.8	51.3	61.8	72.3	82.8	93.3	103.8	114.3	124.8	135.3	145.8	156.3	166.8	177.3	187.8	198.3	208.8	219.3
L ₂	87.5	100.0	112.5	125.0	137.5	150.0	150.0	162.5	175.0	187.5	200.0	212.5	212.5	225.0	237.5				
L ₃	75.0	87.5	100.0	112.5	125.0	137.5	137.5	150.0	162.5	175.0	187.5	200.0	200.0	212.5	225.0				

M4GA2

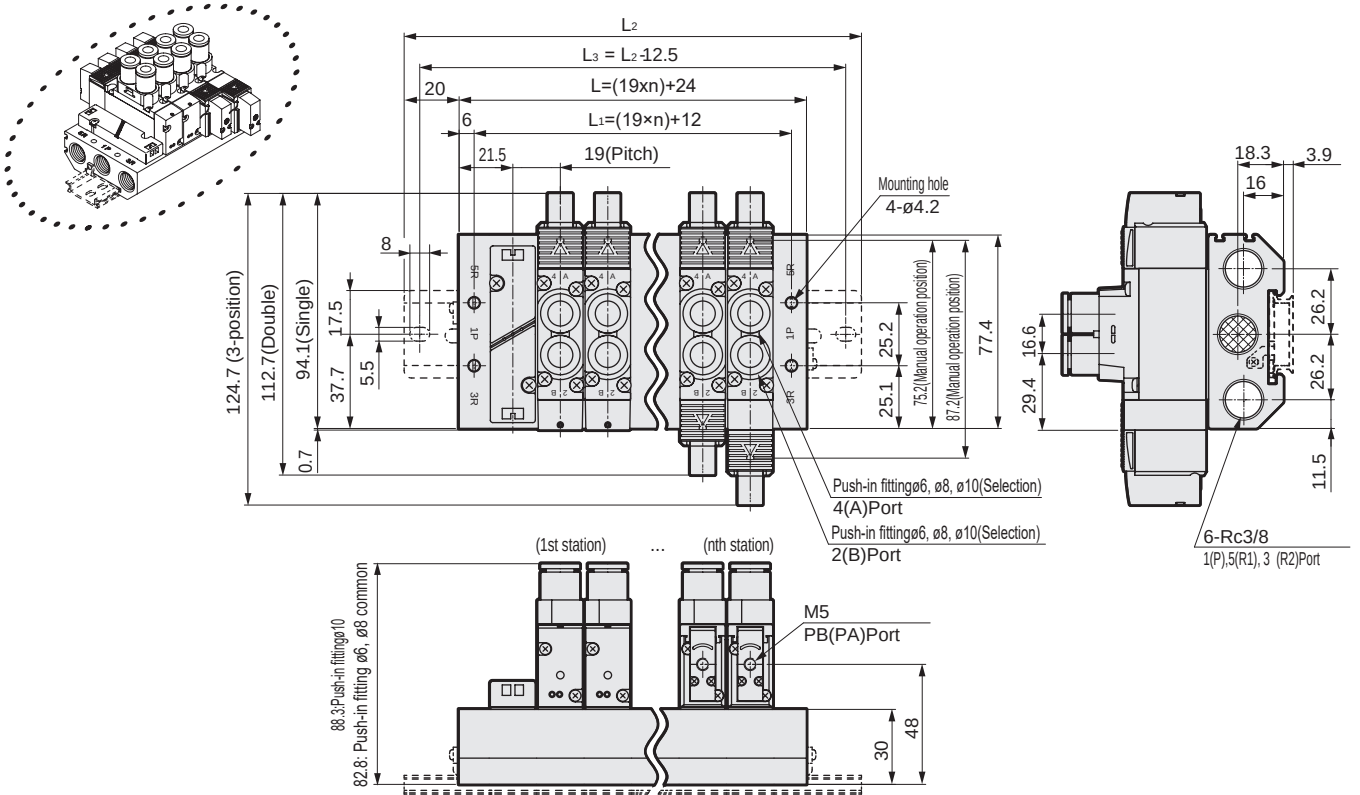


Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	54.0	70.0	86.0	102.0	118.0	134.0	150.0	166.0	182.0	198.0	214.0	230.0	246.0	262.0	278.0	294.0	310.0	326.0	342.0
L ₁	42.0	58.0	74.0	90.0	106.0	122.0	138.0	154.0	170.0	186.0	202.0	218.0	234.0	250.0	266.0	282.0	298.0	314.0	330.0
L ₂	100.0	112.5	137.5	150.0	162.5	175.0	200.0	212.5	225.0	250.0	262.5	275.0	287.5	312.5	325.0				
L ₃	87.5	100.0	125.0	137.5	150.0	162.5	187.5	200.0	212.5	237.5	250.0	262.5	275.0	300.0	312.5				

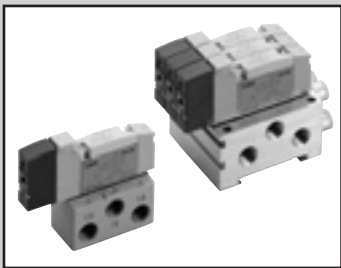
Dimensions

M4GA3

* The dimensions of the 2-position single 3-port valve are the same as those of the single, and a plug is provided for either port A or port B.
* Refer to page 854 for mounting hole details.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	62.0	81.0	100.0	119.0	138.0	157.0	176.0	195.0	214.0	233.0	252.0	271.0	290.0	309.0	328.0	347.0	366.0	385.0	404.0
L ₁	50.0	69.0	88.0	107.0	126.0	145.0	164.0	183.0	202.0	221.0	240.0	259.0	278.0	297.0	316.0	335.0	354.0	373.0	392.0
L ₂	112.5	125.0	150.0	162.5	187.5	200.0	225.0	237.5	262.5	275.0	300.0	312.5	337.5	350.0	375.0				
L ₃	100.0	112.5	137.5	150.0	175.0	189.5	212.5	225.0	250.0	262.5	287.5	300.0	325.0	337.5	362.5				



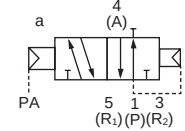
Master valve single unit/manifold (metal base)
 Base piping
(M)4GB1/2/3 Series

● Applicable cylinder bore size: ø20 to ø100

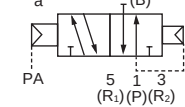


JIS symbol

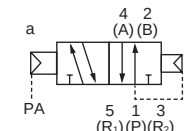
- 3-port valve
2-position single NC



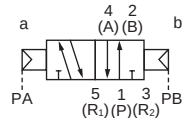
- 2-position single NO



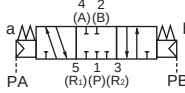
- 5-port valve
2-position single



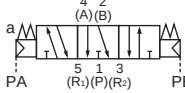
- 2-position double



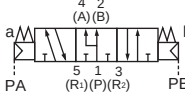
- 3-position
All ports closed



- 3-position A/B/R connection



- 3-position P/A/B connection



Common specifications 1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	Description	
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working pressure	MPa	0.7 (≈101 psi, 7 bar)
Min. working pressure (*1)	MPa	Refer to main pressure section in the table below
Proof pressure	MPa	1.05 (≈152 psi, 10 bar)
Ambient temperature	°C	-5 (23°F) to 55 (131°F) (no freezing)
Fluid temperature	°C	5 (41°F) to 55 (131°F)
Manual override	Non-locking/locking common	
Pilot exhaust method (manual operation)	Main valve/pilot valve common exhaust	
Lubrication	(*2)	Not required
Vibration resistance	m/s ²	50 or less
Impact resistance	m/s ²	300 or less
Atmosphere	Cannot be used in corrosive gas environments	

*1: When operating manually, supply pressure to port P as shown in the table below is required.
 2-position 0.1 MPa and over
 3-position 0.2 MPa and over

*2: Use turbine oil Class 1 ISO VG32 for lubrication.
 Excessive or intermittent lubrication results in unstable operation.

Individual specifications

Base piping (discrete/manifold)

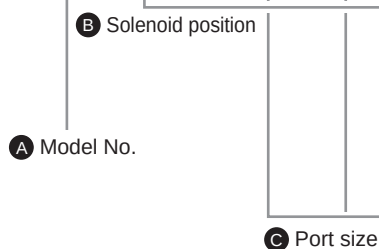
No. of ports	Model No.		Solenoid position	Pilot port PA/PB	Main pressure	Pilot signal pressure MPa	Other specifications Page *
	Single unit	Manifold					
5-port	4GB111R	M4GB111R	2-position single	M5	0.2 to 0.7	(0.6 × main pressure + 0.06) to 0.7	Single unit: Page 60 Manifold: Page 112
	4GB121R	M4GB121R	2-position double		0 to 0.7	0.2 to 0.7	
	4GB1 ³ / ₅ 1R	M4GB1 ³ / ₅ 1R	3-position				
	4GB211R	M4GB211R	2-position single	M5	0.2 to 0.7	(0.6 × main pressure + 0.06) to 0.7	
	4GB221R	M4GB221R	2-position double		0 to 0.7	0.2 to 0.7	
	4GB2 ³ / ₅ 1R	M4GB2 ³ / ₅ 1R	3-position				
	4GB311R	M4GB311R	2-position single	M5	0.2 to 0.7	(0.6 × main pressure + 0.06) to 0.7	
	4GB321R	M4GB321R	2-position double		0 to 0.7	0.2 to 0.7	
	4GB3 ³ / ₅ 1R	M4GB3 ³ / ₅ 1R	3-position				

Note Other specifications are the same as those of 4G Series. Refer to pages for each specification.

How to order

Single master valve

4GB2 **1** **1R** - **08** - **H**



		A Model No.		
		4GB1	4GB2	4GB3
Code	Description			
B Solenoid position				
1	2 position single	●	●	●
2	2-position double	●	●	●
3	3-position all ports closed	●	●	●
4	3-position ABR connection	●	●	●
5	3-position PAB connection	●	●	●
C Port size				
Port	Port A/B	Port P/R1/R2 ②=Rc1/8 ③=Rc1/4 ④=Rc3/8		
06	Rc1/8	②		
08	Rc1/4		③	③
10	Rc3/8			④
Port	4(A)/2(B) port	Port P/R1/R2 ⑤=1/8NPT ⑥=1/4NPT ⑦=3/8NPT		
06 N	NPT1/8 (*3)	⑤		
08 N	NPT1/4 (*3)		⑥	⑥
10 N	NPT3/8 (*3)			⑦
Port	4(A)/2(B) port	Port P/R1/R2 ⑧=G1/8 ⑨=G1/4 ⑩=G3/8		
06G	G1/8 (*3)	⑧		
08G	G1/4 (*3)		⑨	⑨
10G	G3/8			⑩
D Option				
Blank	No	●	●	●
H	With exhaust check valve (*1)	●	●	●
A	Ozone/coolant proof product	●	●	●
F	Port A/B filter built in (*2)	●	●	●

is not available.

⚠ Precautions for model No. selection

*1: 3-position all ports closed and PAB connection are not provided with the exhaust check valve specifications (H). Refer to page 851 for details on the exhaust check valve.

*2: A filter is built into port P as standard.

*3: Made to order.

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

4GB Series

Discrete master valve; base piping

How to order

Manifold

M **4GB2** **1** **1R** - **C4** - **H** **D** - **8**

Discrete master valve for manifold (gasket, mounting screw, PR check valve attached)

4GB2 **1** **8R** - **00** - **H**

B Solenoid position

A Model No.

C Port size

D Option

E Mount type

F Station No.

A Model No.

M4GB1

M4GB2

M4GB3

Code	Description			
B Solenoid position				
1	2 position single	●	●	●
2	2-position double	●	●	●
3	3-position all ports closed	●	●	●
4	3-position ABR connection	●	●	●
5	3-position PAB connection	●	●	●
8	Mix manifold(for multiple solenoid positions)	●	●	●

C Port size				
Port	4(A)/2(B)Port	Port P/R1/R2 ②= Rc1/8 ③=Rc1/4 ④=Rc3/8		
C4	ø4 push-in fitting	②	③	
C6	ø6 push-in fitting	②	③	④
C8	ø8 push-in fitting		③	④
C10	ø10 push-in fitting			④
CL4	Radial ø4push-in fitting(Upward) (*1)	②		
CL6	ø6 push-in L-fitting(Upward) (*1)	②	③	
CL8	ø8 push-in L-fitting(Upward) (*1)		③	④
CL10	ø10 push-in L fitting(Upward) (*1)			④
CX	Push-in fitting mix	②	③	④
M5	M5	②		
06	Rc1/8		③	
08	Rc1/4			④
Port	4(A)/2(B)Port	Port P/R1/R2 (1/8) = 1/8NPT, (1/4) = 1/4NPT, (3/8) = 3/8NPT		
C3N	ø1/8" push-in fitting	⑤		
C4N	ø5/32" push-in fitting	⑤		
C6N	ø1/4" push-in fitting		⑥	
C8N	ø5/16" push-in fitting		⑥	⑦
C10N	ø3/8" push-in fitting			⑦
CL3N	ø1/8" push-in L-fitting (upward) (*6)	⑤		
CL4N	ø5/32" push-in L-fitting (upward) (*6)	⑤		
CL6N	ø1/4" push-in L-fitting upward (*6)		⑥	
CL8N	Radial ø5/16 push-in fitting (upward) (*6)		⑥	
CXN	Push-in fitting mix	⑤	⑥	⑦
M5N	M5	⑤		
06 N	NPT1/8		⑥	
08 N	NPT1/4 (*6)			⑦
Port	4(A)/2(B)Port	Port P/R1/R2 ⑧=G1/8 ⑨=G1/4 ⑩=G3/8		
C4G	ø4 push-in fitting	⑧	⑨	
C6G	ø6 push-in fitting	⑧	⑨	
C8G	ø8 push-in fitting		⑨	⑩
C10G	ø10 push-in fitting			⑩
CL4G	ø4 push-in L-fitting (upward) (*6)	⑧		
CL6G	ø6 push-in L-fitting (upward) (*6)	⑧	⑨	
CL8G	ø8 push-in L-fitting (upward) (*6)		⑨	
CXG	Push-in fitting mix	⑧	⑨	⑩
M5G	M5	⑧		
06G	G1/8		⑨	
08G	G1/4			⑩
00	Discrete valve for integrated base	●	●	●

D Option				
Blank	No	●	●	●
H	With exhaust check valve (*2)	●	●	●
A	Ozone/coolant proof product	●	●	●
F	Port A/B filter built in (*3)	●	●	●
Z1	Air supply spacer (*4)(*5)	●	●	●
Z2	In-stop valve spacer (*4)(*5)		●	●
Z3	Exhaust spacer (*4)(*5)	●	●	●

E Mount type				
Blank	Direct mount	●	●	●
D	DIN rail mount	●	●	●

F Station No.				
2	2 stations	●	●	●
to	to			
20	Refer to page 112 for the max. station No. per model.			

is not available.

⚠ Precautions for model No. selection

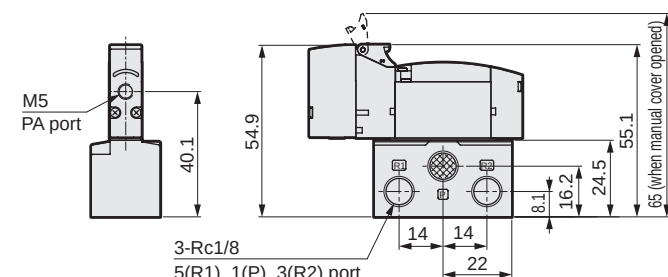
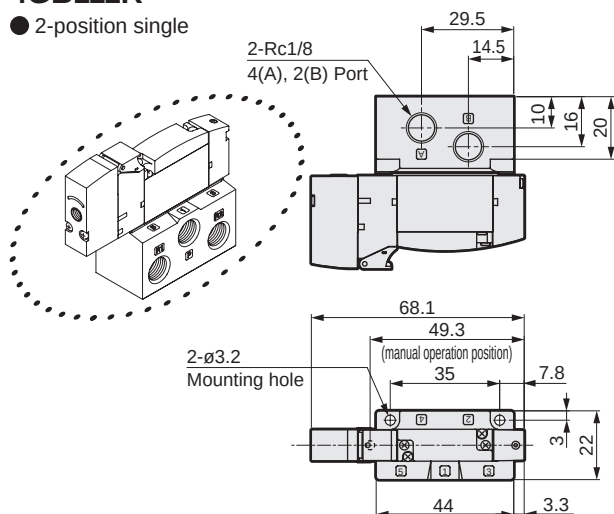
- *1 : CL* push-in L fitting (upward) is compatible only with the 2-position single manifold.
Long elbow is for port A and short elbow for port B.
- *2 : 3-position all ports closed and PAB connection are not provided with the exhaust check valve specifications (H). Refer to page 851 for details on the exhaust check valve.
- *3 : A filter is built into port P as standard.
- *4 : Specify the spacer mounting position and quantity on the manifold specifications sheet. Stacking of spacers is not possible.
Combination with the masking plate is not supported. Refer to pages 188 to 192 for details.
- *5 : Not available with the discrete master valve for manifold.
- *6 : Made-to-order product.

Dimensions



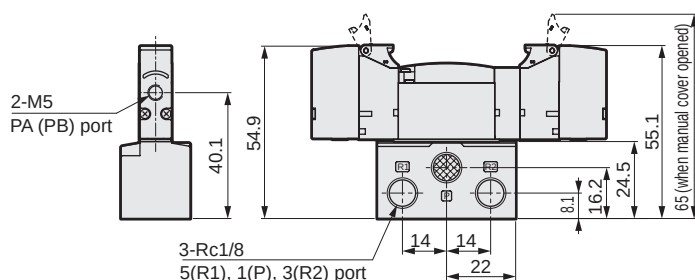
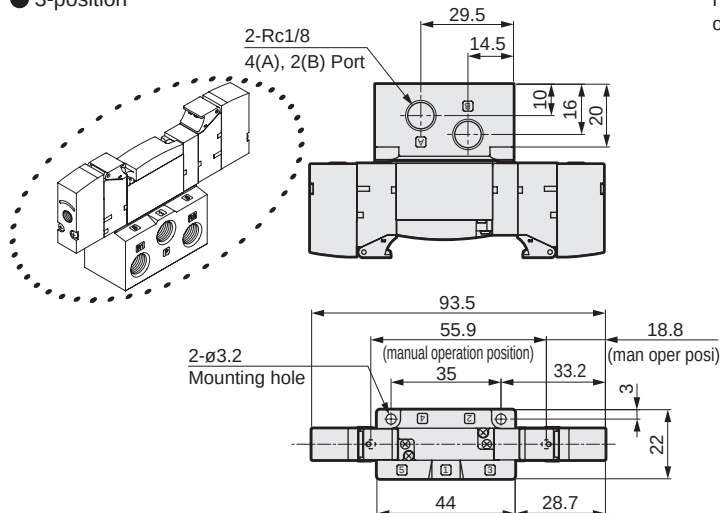
4GB111R

● 2-position single



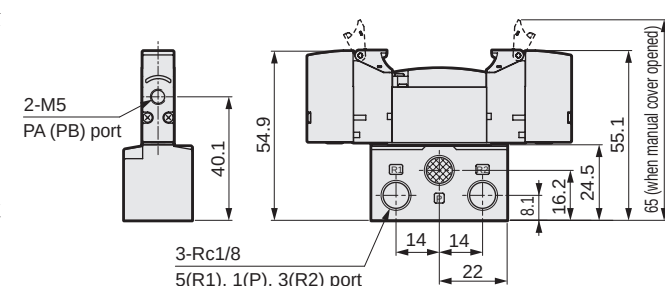
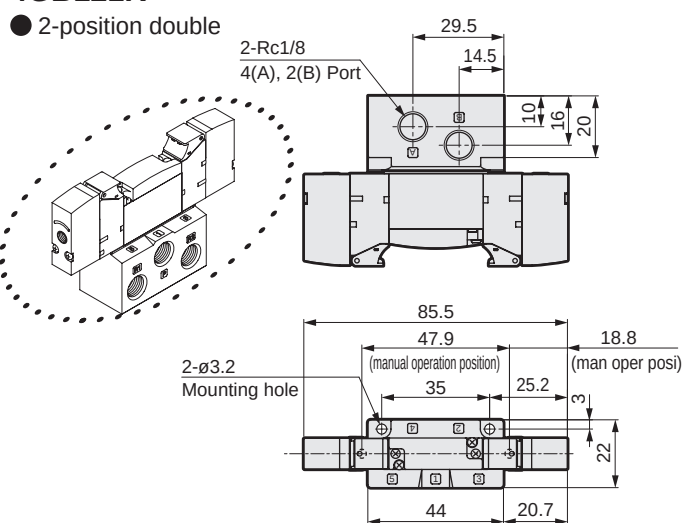
4GB111R

● 3-position



4GB121R

● 2-position double



* For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 86 to 95.

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

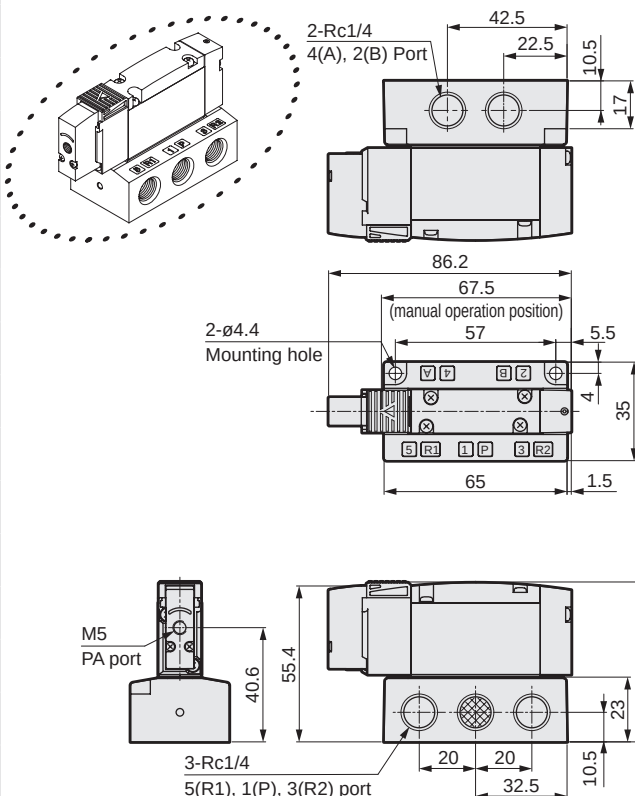
4GB Series

Master valve; base piping

Dimensions 

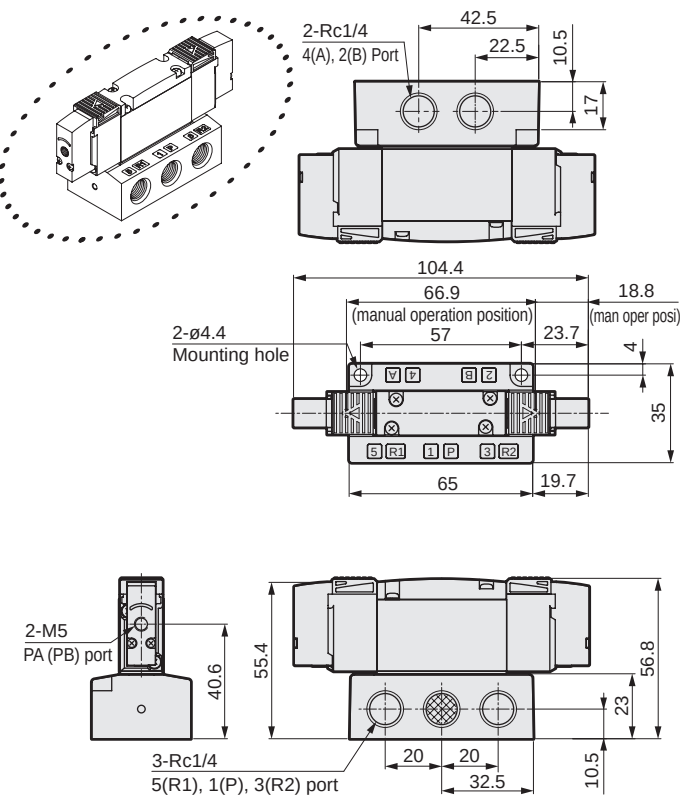
4GB211R

● 2-position single



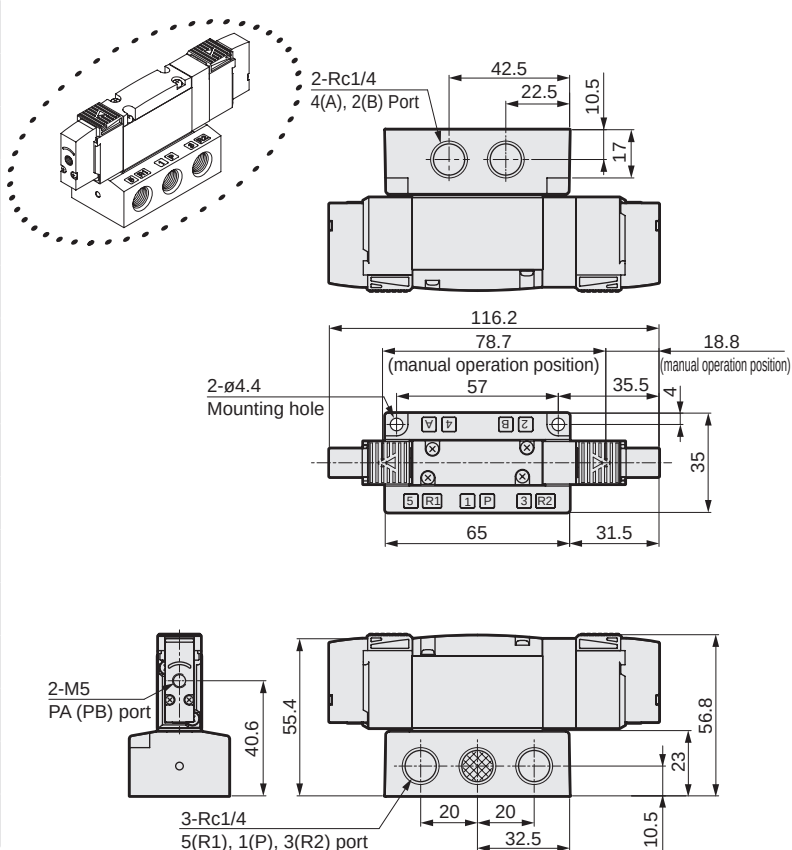
4GB221R

● 2-position double



4GB21R

● 3-position



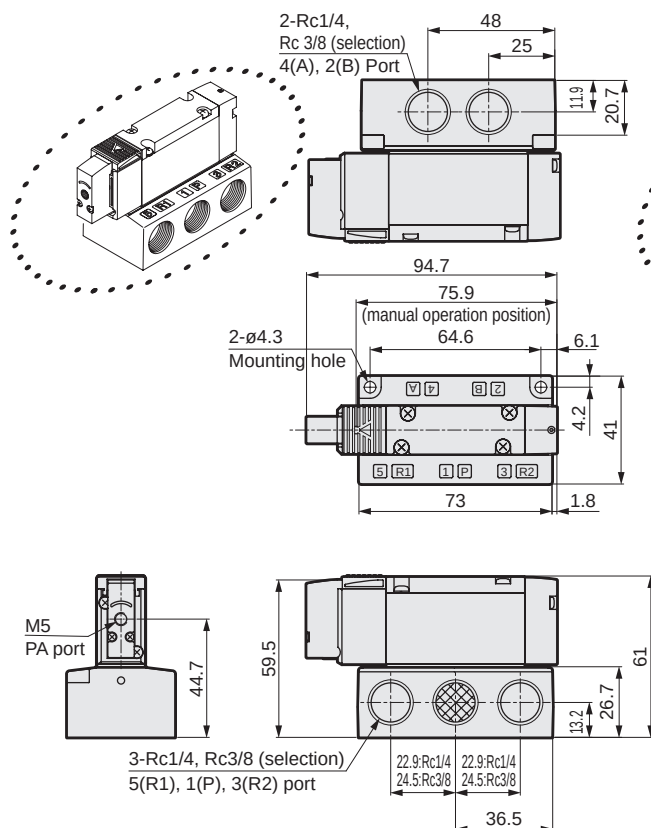
* For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 86 to 95.

Dimensions



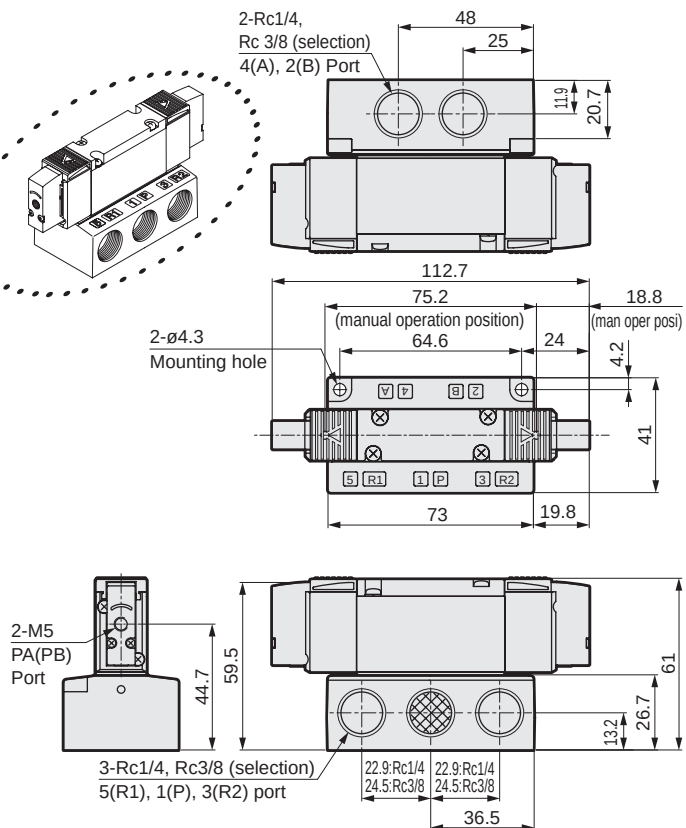
4GB311R

● 2-position single



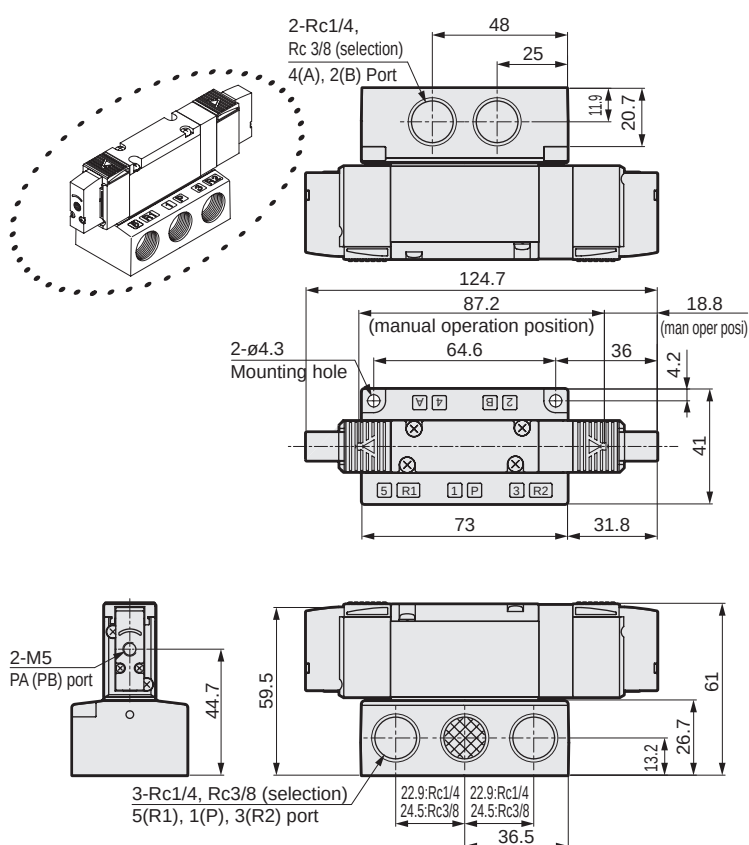
4GB321R

● 2-position double



4GB3³1R

● 3-position



* For NPT and G thread specifications, refer to the solenoid valve dimensions on pages 86 to 95.

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

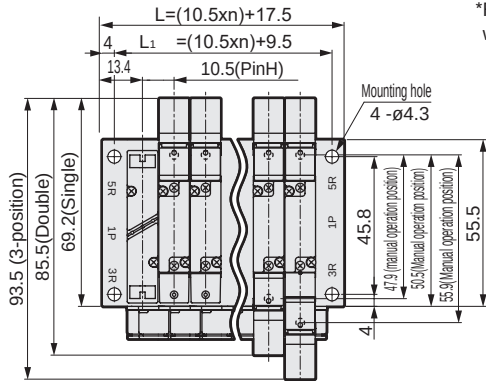
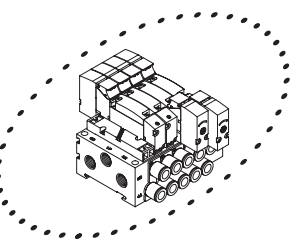
M4GB Series

Master valve manifold; base piping

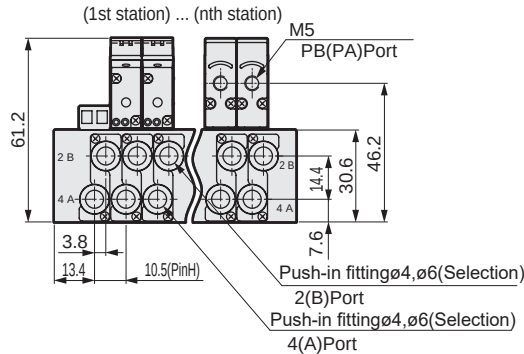
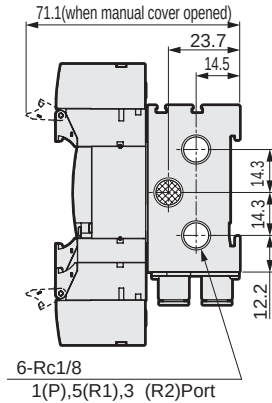
Dimensions

M4GB1

● Direct mount installation

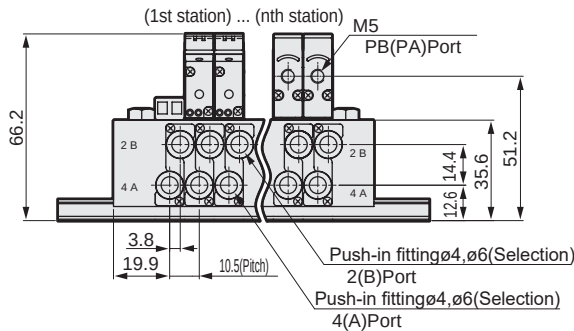
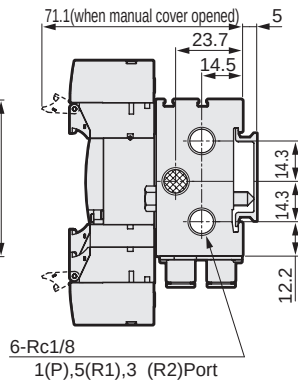
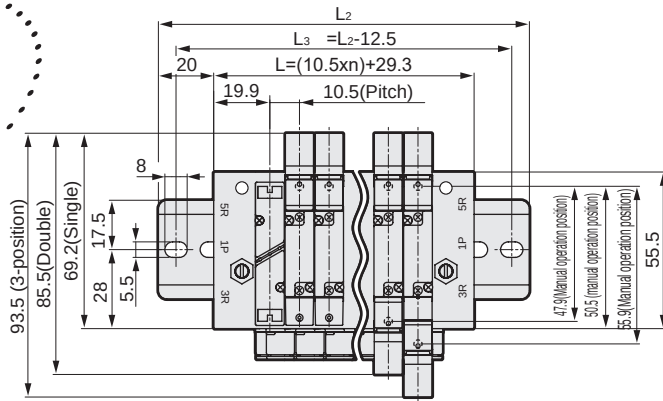
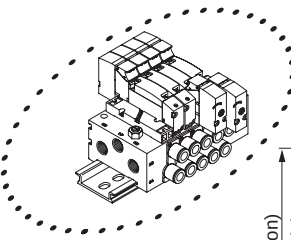


*Female thread and push-in L fitting (upward) are common with 4G. Refer to each dimension.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	38.5	49.0	59.5	70.0	80.5	91.0	101.5	112.0	122.5	133.0	143.5	154.0	164.5	175.0	185.5	196.0	206.5	217.0	227.5
L ₁	30.5	41.0	51.5	62.0	72.5	83.0	93.5	104.0	114.5	125.0	135.5	146.0	156.5	167.0	177.5	188.0	198.5	209.0	219.5

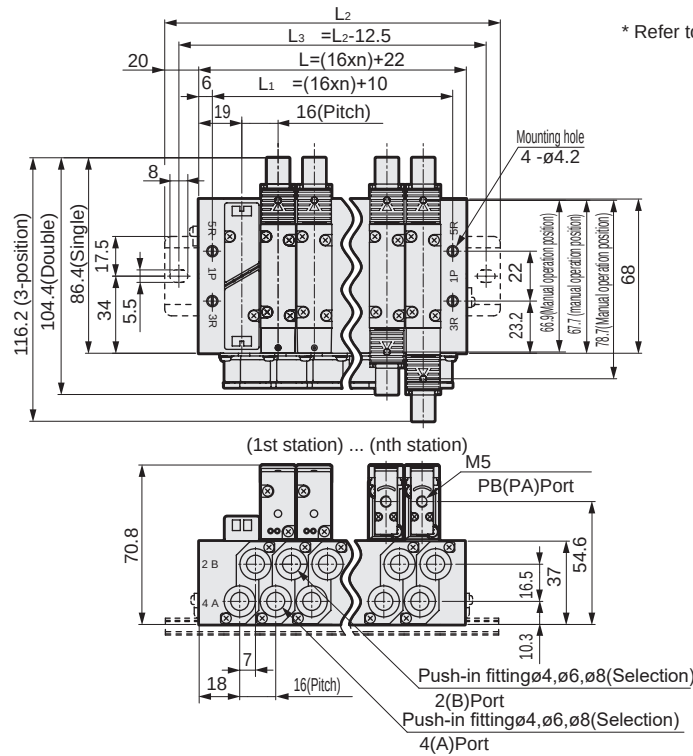
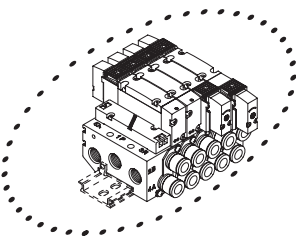
● DIN rail installation (D)



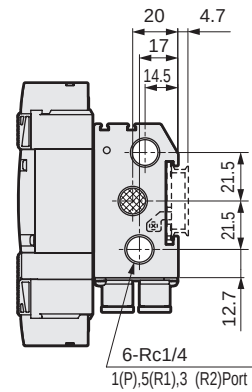
Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	50.3	60.8	71.3	81.8	92.3	102.8	113.3	123.8	134.3	144.8	155.3	165.8	176.3	186.8	197.3
L ₂	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0	212.5	225.0	237.5	237.5
L ₃	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5	200.0	212.5	225.0	225.0

Dimensions

M4GB2

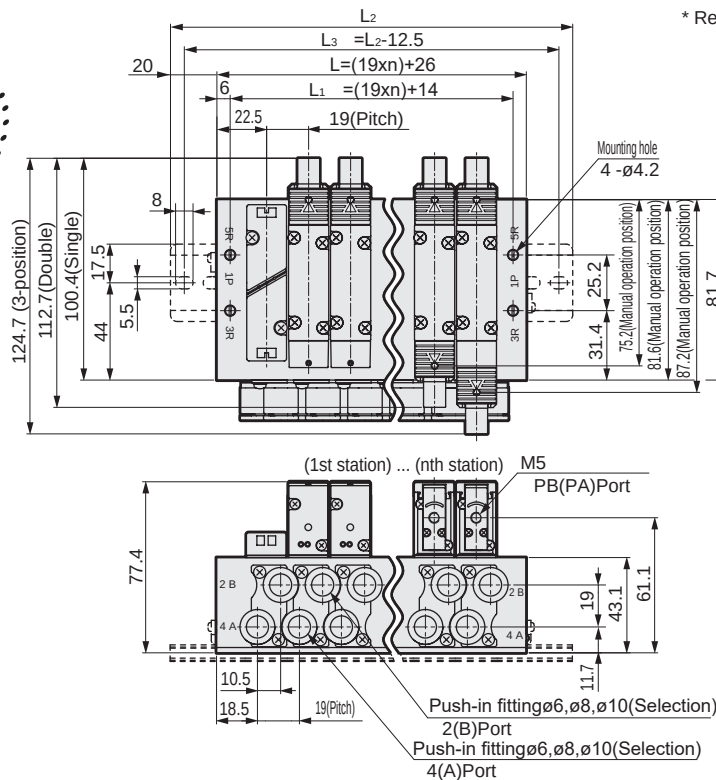
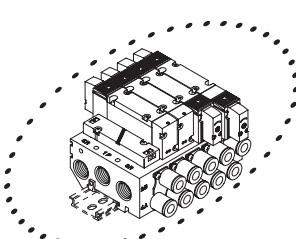


* Refer to page 854 for mounting hole details.

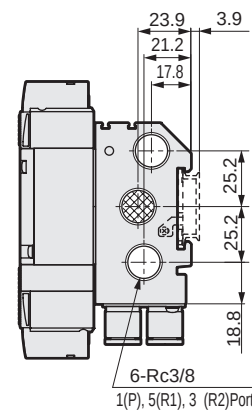


Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	54.0	70.0	86.0	102.0	118.0	134.0	150.0	166.0	182.0	198.0	214.0	230.0	246.0	262.0	278.0	294.0	310.0	326.0	342.0
L ₁	42.0	58.0	74.0	90.0	106.0	122.0	138.0	154.0	170.0	186.0	202.0	218.0	234.0	250.0	266.0	282.0	298.0	314.0	330.0
L ₂	100.0	112.5	137.5	150.0	162.5	175.0	200.0	212.5	225.0	250.0	262.5	275.0	287.5	312.5	325.0				
L ₃	87.5	100.0	125.0	137.5	150.0	162.5	187.5	200.0	212.5	237.5	250.0	262.5	275.0	300.0	312.5				

M4GB3



* Refer to page 854 for mounting hole details.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	83.0	102.0	121.0	140.0	159.0	178.0	197.0	216.0	235.0	254.0	273.0	292.0	311.0	330.0	349.0	368.0	387.0	406.0
L ₁	52.0	71.0	90.0	109.0	128.0	147.0	166.0	185.0	204.0	223.0	242.0	261.0	280.0	299.0	318.0	337.0	356.0	375.0	394.0
L ₂	112.5	125.0	150.0	162.5	187.5	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	375.0				
L ₃	100.0	112.5	137.5	150.0	175.0	187.5	212.5	225.0	250.0	262.5	287.5	312.5	325.0	350.0	362.5				