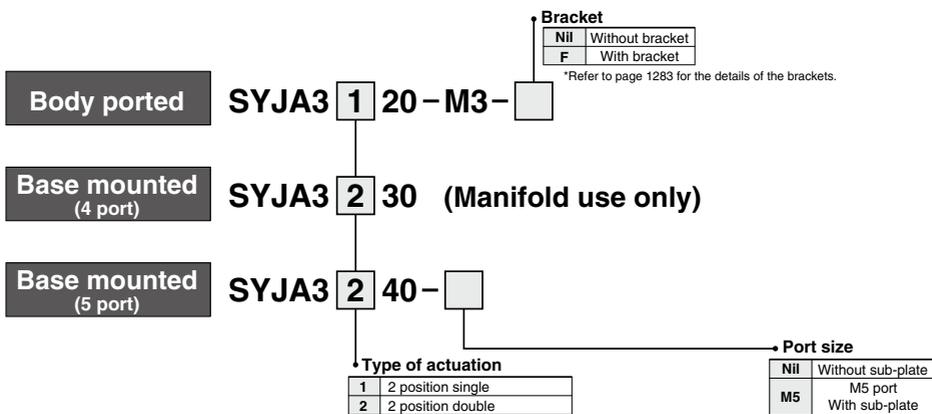


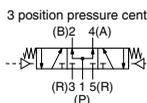
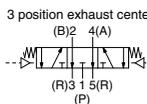
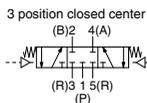
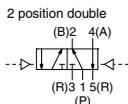
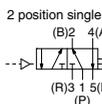
4/5 Port Air Operated Valve

SYJA3000 Series

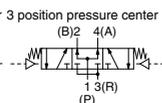
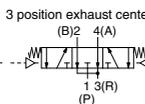
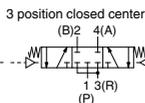
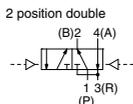
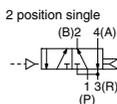
How to Order



Symbol 5 port



4 port



How to Order Manifold Base

Same manifolds as SYJ3000 series are prepared.

SS5YJA3-□ Fill the same as SS5YJ3 □ (Refer to page 164.)

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

(Example)

- SS5YJA3-41-03-M5 1 pc.
- *SYJA3140 1 pc.
- *SYJA3240 1 pc.
- *SYJ3000-21-12A 1 pc.

↳ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

⚠ Caution

Be sure to read this before handling the products.
Refer to page 8 for safety instructions
and pages 9 to 15 for 3/4/5 port solenoid valve
precautions.

Specifications



Base mounted



Body ported

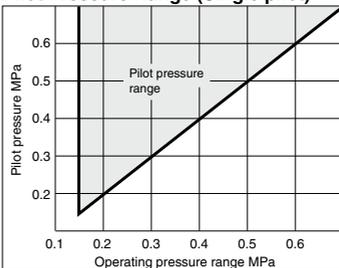
Fluid	Air	
Operating pressure range MPa	2 position single	0.15 to 0.7
	2 position double	-100 kPa to 0.7
	3 position	-100 kPa to 0.7
Pilot pressure range MPa	2 position single	Operating pressure to 0.7
	2 position double	0.1 to 0.7
	3 position	0.2 to 0.7
Ambient and fluid temperature °C	-10 to 60 (No freezing.)	
Lubrication	Not required	
Mounting orientation	Unrestricted	
Impact/Vibration resistance (m/s ²)	300/50	

Note 1) In case of single type, be certain that pressure within operating pressure range be supplied to supply port, because return pressure is introduced from supply port (1(P)) for activation.

Note 2) Impact resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed on the axis and right angle directions of the main valve, when pilot signal is ON and OFF. (Value in the initial state)

Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed to axis and right angle directions of the main valve when pilot signal is ON and OFF. (Value in the initial state)

Pilot Pressure Range (Single pilot)



With Bracket

Air operated valve	SYJA3□20-M3-F
--------------------	---------------

The mounting bracket for the 2 position double solenoid and 3 position is supplied unattached.

Flow Rate Characteristics/Weight

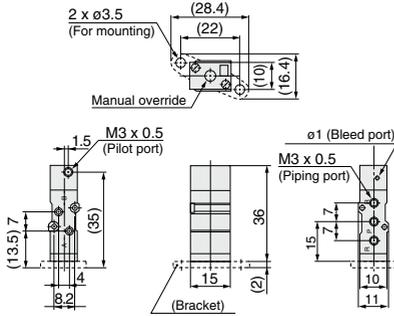
Valve model	Type of actuation	Port size	Pilot port size	Weight (g)	Effective area mm ²	Flow rate characteristics <small>Note 2)</small>													
						1→4/2 (P→A/B)			4/2→5/3 (A/B→EA/EB)										
						C [dm ³ / (s·bar)]	b	Cv	C [dm ³ / (s·bar)]	b	Cv								
5 Port Base mounted (with sub-plate)	2 position	M5 x 0.8	M3 x 0.5	48 (22) 51 (25)	-	0.9	0.46	0.36	0.12	0.46	0.35	0.12							
													3 position	Single	0.47	0.33	0.12	0.47	0.31
	Double																		
	Closed center																		
	3 position												Exhaust center	0.36	0.39	0.10	0.59 [0.40]	0.43 [0.33]	0.16 [0.11]
Pressure center																			
Body ported	2 position	M3 x 0.5	M3 x 0.5	22 25	0.9	0.9	0.46	0.36	0.12	0.46	0.35	0.12							
													3 position	Single	0.47	0.33	0.12	0.47	0.31
	Double																		
	Closed center																		
	3 position												Exhaust center	0.36	0.39	0.10	0.59 [0.40]	0.43 [0.33]	0.16 [0.11]
Pressure center																			
4 Port Base Mounted (For manifold) <small>Note 1)</small>	2 position	-	M3 x 0.5	22 25	0.9	0.9	0.46	0.36	0.12	0.46	0.35	0.12							
													3 position	Single	0.47	0.33	0.12	0.47	0.31
	Double																		
	Closed center																		
	3 position												Exhaust center	0.36	0.39	0.10	0.59 [0.40]	0.43 [0.33]	0.16 [0.11]
Pressure center																			

Note 1) Value when used on a manifold. Refer to page 1282 for details.
 Note 2) []: denotes normal position.
 Note 3) (): Without sub-plate.
 Note 4) 5 port, base mounted without sub-plate: SYJA3□40

SYJA3000 Series

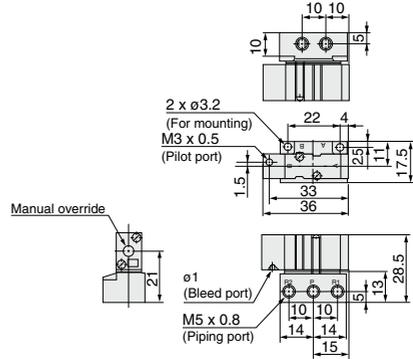
Dimensions/Body Ported

2 position single: SYJA3120-M3(-F)

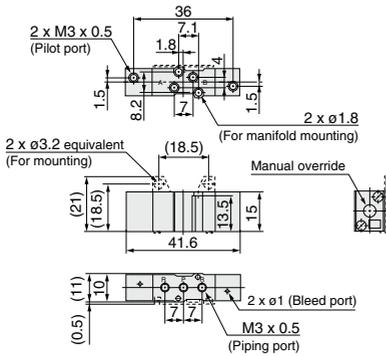


Dimensions/Base Mounted

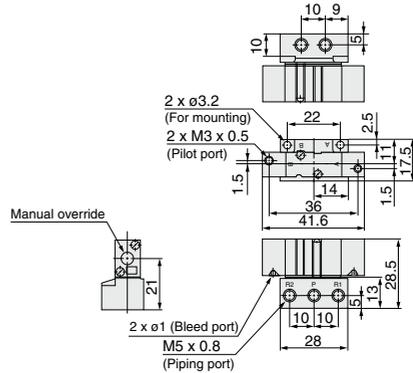
2 position single: SYJA3140-M5



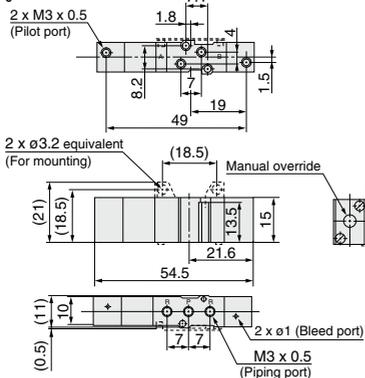
2 position double: SYJA3220-M3(-F)



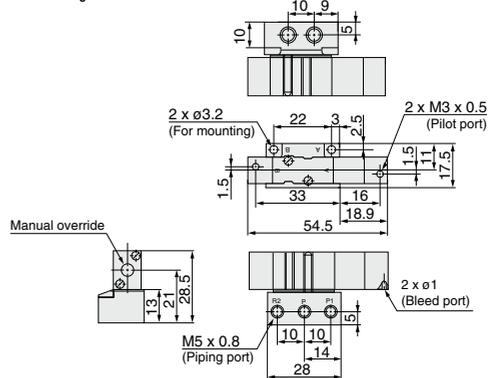
2 position double: SYJA3240-M5



3 position closed center/exhaust center/pressure center SYJA3₃₀₀₀420-M3(-F)



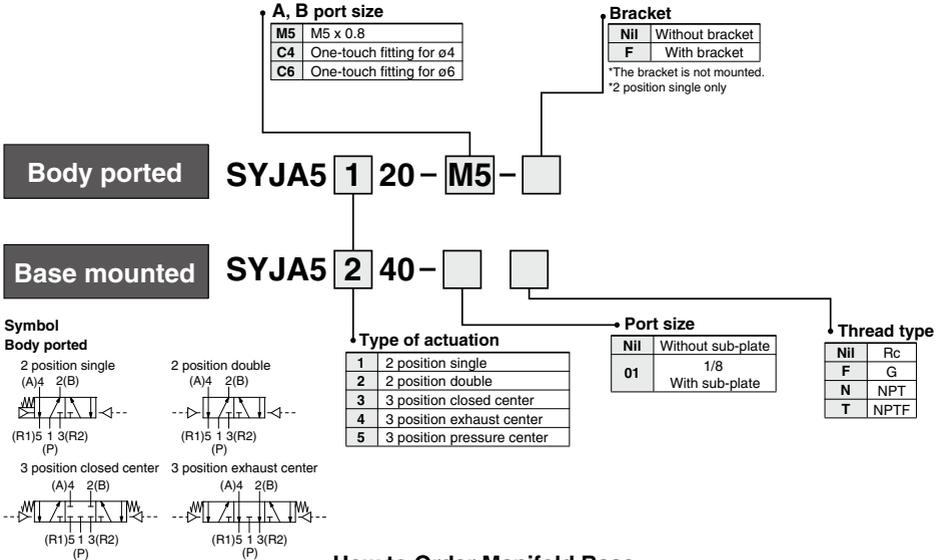
3 position closed center/exhaust center/pressure center SYJA3₃₀₀₀40-M5



4/5 Port Air Operated Valve

SYJA5000 Series

How to Order



How to Order Manifold Base

Same manifolds as SYJ5000 series are prepared.

SS5YJA5 - (Fill the same as SS5YJ5. (Refer to page 192.))

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

(Ex.)

SS5YJA5-42-03-01 1 set

* SYJA5140 1 set

* SYJA5240 1 set

* SYJ5000-21-1A 1 set

↳ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

⚠ Caution

Be sure to read this before handling the products.
Refer to page 8 for safety instructions
and pages 9 to 15 for 3/4" port solenoid valve
precautions.

SYJA5000 Series

Specifications



Base mounted



Body ported

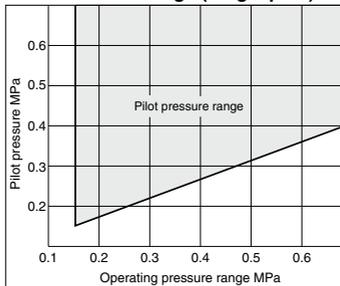
Fluid		Air
Operating pressure range MPa	2 position single	0.15 to 0.7
	2 position double	-100 kPa to 0.7
	3 position	-100 kPa to 0.7
Pilot pressure range MPa	2 position single	(0.4 x P+0.1) to 0.7 P: Operating pressure
	2 position double	0.1 to 0.7
	3 position	0.15 to 0.7
Ambient and fluid temperature °C		-10 to 60 (No freezing.)
Lubrication		Not required
Mounting orientation		Unrestricted
Impact/Vibration resistance (m/s ²)		300/50

Note 1) In case of single type, be certain that pressure within operating pressure range be supplied to supply port, because return pressure is introduced from supply port (1(P)) for activation.

Note 2) Impact resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed on the axis and right angle directions of the main valve, when pilot signal is ON and OFF. (Value in the initial state)

Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed to axis and right angle directions of the main valve when pilot signal is ON and OFF. (Value in the initial state)

Pilot Pressure Range (Single pilot)



With Bracket

Air operated valve	SYJA5120-M5-F
The mounting bracket is supplied untached.	
Bracket Assembly	SYJ5000-13-3A

Mounting screws included.

Flow Rate Characteristics/Weight

Valve model	Type of actuation	Port size	Flow rate characteristics						Pilot port size	Weight (g)		
			1→4/2 (P→A/B)			4/2→5/3 (A/B→EA/EB)						
			C [dm ³ / (s·bar)]	b	Cv	C [dm ³ / (s·bar)]	b	Cv				
Body ported	SYJA5□20-M5	2 position	Single	M5 x 0.8	0.47	0.41	0.13	0.47	0.41	0.13	M5 x 0.8	34
			Double									
		3 position	Closed center		0.49	0.44	0.13	0.44	0.40	0.12		48
	Exhaust center		0.46		0.37	0.12	0.47	0.43	0.13			
	Pressure center		0.49		0.51	0.14	0.45	0.42	0.12			
	SYJA5□20-C4	2 position	Single		A, B port: C4 (One-touch fitting for ø4) P, R port: M5 x 0.8	0.69	0.39	0.18	0.44	0.39		0.12
			Double	45								
		3 position	Closed center			0.69	0.40	0.19	0.43	0.40	0.12	55
			Exhaust center	0.56		0.40	0.15	0.41	0.37	0.10		
			Pressure center	0.57		0.40	0.15	0.41	0.37	0.10		
			Center	0.70		0.36	0.19	0.47	0.40	0.12		
	SYJA5□20-C6	2 position	Single	A, B port: C6 (One-touch fitting for ø6) P, R port: M5 x 0.8	0.72	0.37	0.19	0.44	0.34	0.12	M5 x 0.8	41
Double			45									
3 position		Closed center			0.67	0.54	0.19	0.41	0.38	0.11		55
		Exhaust center	0.82		0.41	0.23	0.41	0.36	0.11			
		Pressure center	0.79		0.21	0.19	0.83	0.32	0.21			
		Center	0.80		0.28	0.18	0.86	0.34	0.20			
Base mounted (with sub-plate)	SYJA5□40-01	2 position	Single	1/8	0.79	0.21	0.19	0.83	0.32	0.21	M5 x 0.8	68 (34)
			Double									
		3 position	Closed center		0.80	0.28	0.18	0.86	0.34	0.20		82 (48)
	Exhaust center		0.71		0.26	0.18	1.1	0.24	0.26			
	Pressure center		0.99		0.29	0.24	0.72	0.38	0.18			
	Center		0.99		0.29	0.24	0.72	0.38	0.18			

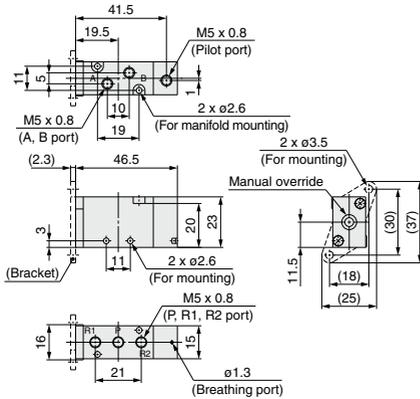
Note 1) []: denotes normal position.

Note 2) (): Without sub-plate.

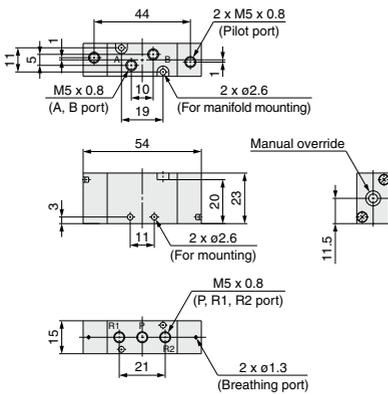
Note 3) Model No. for 5 port base mounted type without sub-plate is SYJA5□40.

Dimensions/Body Ported

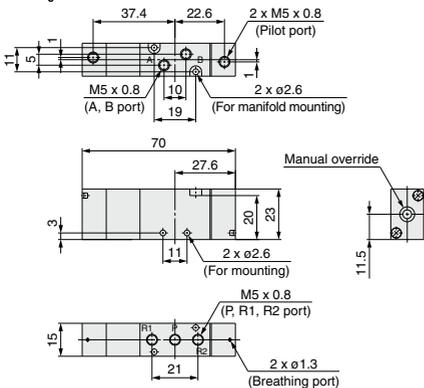
2 position single: SYJA5120-M5(-F)



2 position double: SYJA5220-M5

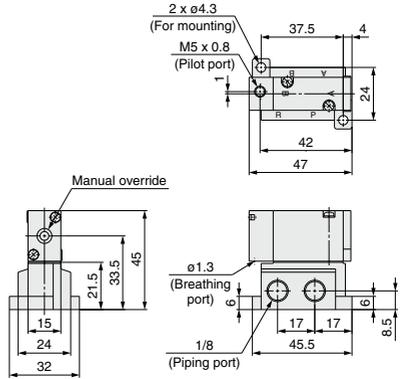


3 position closed center/exhaust center/pressure center SYJA53420-M5

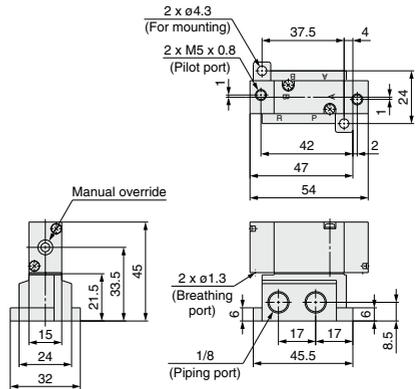


Dimensions/Base Mounted

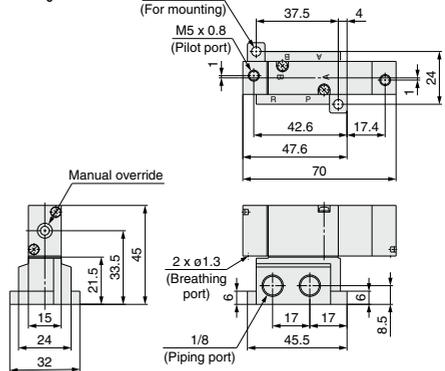
2 position single: SYJA5140-01



2 position double: SYJA5240-01



3 position closed center/exhaust center/pressure center SYJA5340-01



4/5 Port Air Operated Valve SYJA7000 Series

How to Order

Body ported

A, B port size

01	1/8
C6	One-touch fitting for ø6
C8	One-touch fitting for ø8

Bracket

Nil	Without bracket
F	With bracket

*The bracket is not mounted.
*The bracket cannot be retrofitted later.
*2 position single only

Base mounted

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

Port size

Nil	Without sub-plate
01	1/8 With sub-plate
02	1/4 With sub-plate

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Symbol

Body ported

2 position single
(A)4 2(B)

(R1)5 1 3(R2)
(P)

2 position double
(A)4 2(B)

(R1)5 1 3(R2)
(P)

3 position closed center
(A)4 2(B)

(R1)5 1 3(R2)
(P)

3 position exhaust center
(A)4 2(B)

(R1)5 1 3(R2)
(P)

3 position pressure center
(A)4 2(B)

(R1)5 1 3(R2)
(P)

SYJA7 **1** 20- **01** -

SYJA7 **2** 40- -

How to Order Manifold Base

Same manifolds as SYJ7000 series are prepared.

SS5YJA7- (Fill the same as SS5YJZ.) (Refer to page 224.)

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

(Ex.)
SS5YJA7-41-03-01 1 pc.
 * SYJA7140 1 pc.
 * SYJA7240 1 pc.
 * SYJ7000-21-1A 1 pc.

↳ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

⚠ Caution

Be sure to read this before handling the products.
 Refer to page 8 for safety instructions
 and pages 9 to 15 for 3/4/5 port solenoid valve
 precautions.

Specifications



Base mounted



Body ported

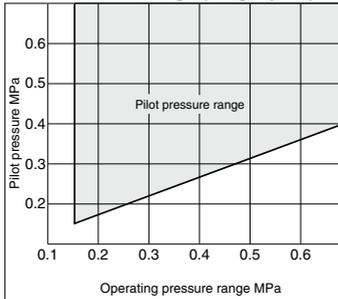
Fluid		Air
Operating pressure range MPa	2 position single	0.15 to 0.7
	2 position double	-100 kPa to 0.7
	3 position	-100 kPa to 0.7
Pilot pressure range MPa <small>Note 1)</small>	2 position single	(0.4 x P+0.1) to 0.7 P: Operating pressure
	2 position double	0.1 to 0.7
	3 position	0.15 to 0.7
Ambient and fluid temperature °C		-10 to 60 (No freezing.)
Lubrication		Not required
Mounting orientation		Unrestricted
Impact/Vibration resistance (m/s²) <small>Note 2)</small>		300/50

Note 1) In case of single type, be certain that pressure within operating pressure range be supplied to supply port, because return pressure is introduced from supply port {1(P)} for activation.

Note 2) Impact resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed on the axis and right angle directions of the main valve, when pilot signal is ON and OFF. (Value in the initial state)

Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed to axis and right angle directions of the main valve when pilot signal is ON and OFF. (Value in the initial state)

Pilot Pressure Range (Single pilot)



With Bracket

Air operated valve	SYJA7120-01-F
--------------------	---------------

As a bracket is designed for a body, be sure that a bracket is attached when ordering and operating.

SYJA7000 Series

Flow Rate Characteristics/Weight

Valve model		Type of actuation		Port size		Flow rate characteristics ^{Note 2)}						Pilot port size	Weight (g) ^{Note 3)}
						1→4/2 (P→A/B)			4/2→5/3 (A/B→EA/EB)				
						C [dm ³ /s·bar]	b	Cv	C [dm ³ /s·bar]	b	Cv		
Body ported	SYJA7□20-01	2 position	Single	1/8	2.2	0.36	0.58	2.4	0.34	0.63	M5 x 0.8	71	
			Double									72	
		3 position	Closed center		1.8	0.37	0.45	2.0	0.35	0.49		82	
			Exhaust center		1.2	0.50	0.34	3.0 [1.3]	0.35 [0.52]	0.73 [0.39]			
	Pressure center	3.0	0.37	0.78	1.8	0.37	0.45	[0.83]					
		[0.50]	[0.25]	[1.3]	[0.54]	[0.38]							
	SYJA7□20-C6	2 position	Single	A, B port: C6 (One-touch fitting for ø6) P, R port: 1/8	1.6	0.33	0.4	2.2	0.32	0.53		82	
			Double		1.4	0.27	0.35	1.9	0.33	0.49		83	
		3 position	Closed center		1.1	0.37	0.27	2.5 [1.3]	0.32 [0.54]	0.61 [0.38]		93	
			Exhaust center		1.8	0.36	0.45	1.6	0.30	0.39			
	Pressure center	[0.78]	[0.40]	[0.22]	[1.3]	[0.54]	[0.38]						
		[0.25]	[1.3]	[0.49]	[0.38]								
SYJA7□20-C8	2 position	Single	A, B port: C8 (One-touch fitting for ø8) P, R port: 1/8	2.0	0.39	0.52	2.3	0.34	0.61	82			
		Double		1.7	0.35	0.42	2.0	0.29	0.49	83			
	3 position	Closed center		1.2	0.38	0.33	2.6 [1.3]	0.35 [0.49]	0.67 [0.38]	93			
		Exhaust center		1.9	0.57	0.59	1.7	0.39	0.42				
Pressure center	[0.86]	[0.46]	[0.25]	[1.3]	[0.49]	[0.38]							
	[0.25]	[1.3]	[0.49]	[0.38]									
Base mounted (with sub-plate)	SYJA7□40-01	2 position	Single	1/8 ^{Note 1)}	2.3	0.45	0.57	2.8	0.37	0.71	M5 x 0.8	151 (71)	
			Double									152 (72)	
		3 position	Closed center		1.9	0.36	0.48	2.1	0.46	0.57		162 (82)	
			Exhaust center		1.2	0.48	0.35	3.4 [1.3]	0.36 [0.57]	0.86 [0.41]			
	Pressure center	3.3	0.43	0.78	2.1	0.45	0.56	[0.85]					
		[0.54]	[0.25]	[1.3]	[0.57]	[0.41]							
	SYJA7□40-02	2 position	Single	1/4 ^{Note 1)}	2.3	0.41	0.61	2.9	0.35	0.74		151 (71)	
			Double		1.9	0.46	0.50	2.2	0.44	0.60		152 (72)	
		3 position	Closed center		1.3	0.45	0.35	3.7 [1.4]	0.27 [0.56]	0.87 [0.43]		162 (82)	
			Exhaust center		3.6	0.23	0.84	2.1	0.47	0.58			
	Pressure center	[0.83]	[0.55]	[0.25]	[1.4]	[0.56]	[0.43]						
		[0.25]	[1.4]	[0.56]	[0.43]								

Note 1) P, A, B port: 1/8 is R1, R2 port: 1/4

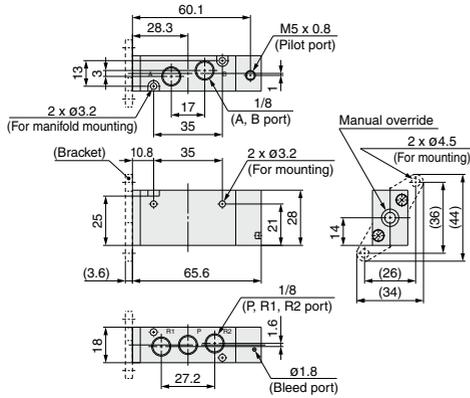
Note 2) []: for normal position

Note 3) (): without sub-plate

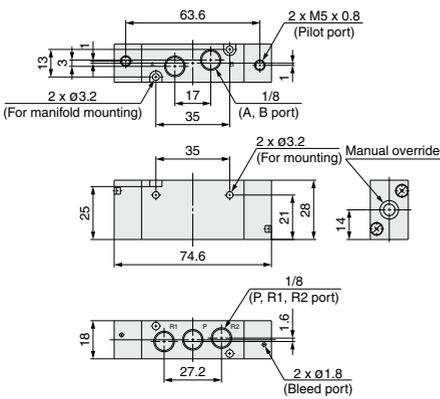
Note 4) Model No. for base mounted type without sub-plate is SYJA7□40.

Dimensions/Body Ported

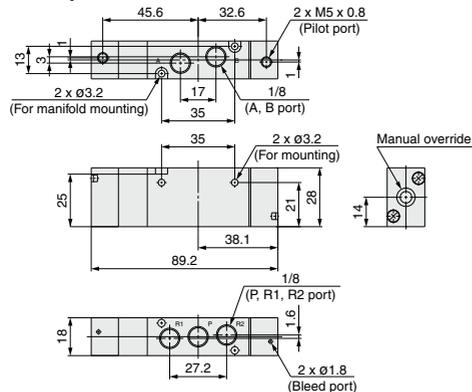
2 position single: SYJA7120-01□(-F)



2 position double: SYJA7220-01□

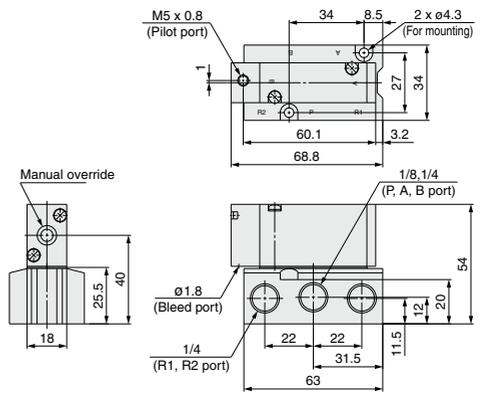


3 position closed center/exhaust center/pressure center SYJA7₅40-01□

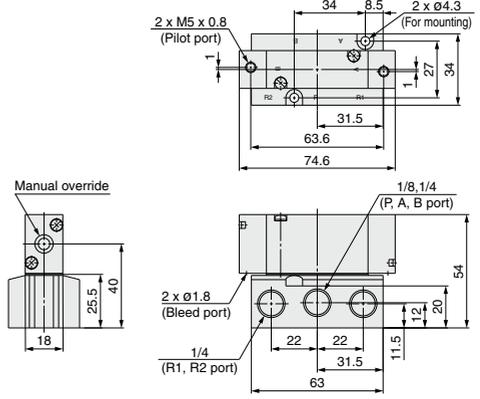


Dimensions/Base Mounted

2 position single: SYJA7140-⁰¹₀₂□



2 position double: SYJA7240-⁰¹₀₂□



3 position closed center/exhaust center/pressure center SYJA7₅40-⁰¹₀₂□

