3 Port Air Operated Valve
SYJA300 Series

How to Order

Body ported SYJA3 [1] 2 − M3 − [ ]

Base mounted SYJA3 [1] 4 − [ ]

Bracket

Nil	Without bracket
F	With bracket

*The bracket is not mounted.
*The bracket cannot be retrofitted later.

Type of actuation

1	Normally closed
2	Normally open

Port size

Nil	Without sub-plate
M5	M5 port with sub-plate

How to Order Manifold Base

Same manifolds as SYJ300 series are prepared.

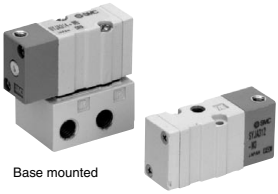
SS3YJA3 − Fill the same as SS3YJ3.

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

(Ex.) **SS3YJA3-41-03-M3** ····· 1 set
- ∗ SYJA314 ····· 1 set
- ∗ SYJA324 ····· 1 set
- ∗ SYJ300-10-2A ····· 1 set

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

Compact and lightweight



Base mounted

Body ported

Specifications

Fluid	Air
Operating pressure range MPa	0.15 to 0.7
Pilot pressure range MPa Note 1)	Operating pressure range to 0.7
Ambient and fluid temperature (°C)	–10 to 60 (No freezing)
Lubrication	Not required
Mounting orientation	Unrestricted
Impact/Vibration resistance (m/s²) Note 2)	150/30

Note 1) 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)

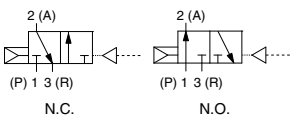
Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed to axis and right angle directions of the main valve when pilot signal is ON and OFF. (Value in the initial state)

With Bracket

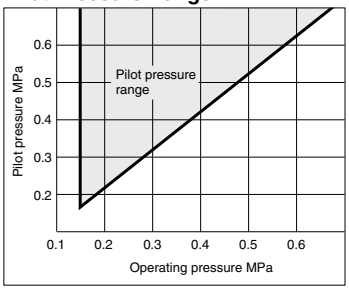
Air operated valve type	SYJA3$\frac{1}{2}$2-M3-F

Symbol

SYJA31$\frac{2}{4}$ **SYJA32$\frac{2}{4}$**



Pilot Pressure Range



⚠ Caution

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 9 for 3/4/5 Port Solenoid Valve Precautions.

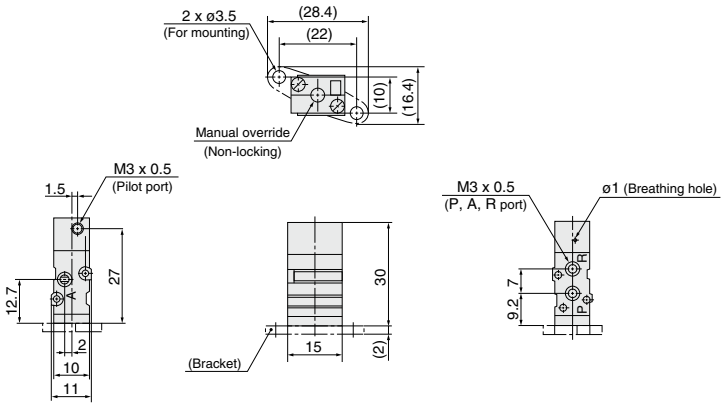
Flow Rate Characteristics/Weight

Valve model		Type of actuation	Port size	Flow rate characteristics						Pilot port size	Weight (g)	Effective area (mm²)
				1→2 (P→A)			2→3 (A→R)					
				C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv			
Body ported	**SYJA312-M3**	N.C.	M3 x 0.5	—	—	—	—	—	—	M3 x 0.5	18	0.9
	SYJA322-M3	N.O.		—	—	—	—	—	—			
Base mounted (with sub-plate)	**SYJA314-M5**	N.C.	M5 x 0.8	0.41	0.18	0.086	0.35	0.33	0.086		39 (Without sub-plate 18)	—
	SYJA324-M5	N.O.		0.36	0.31	0.089	0.36	0.31	0.089			

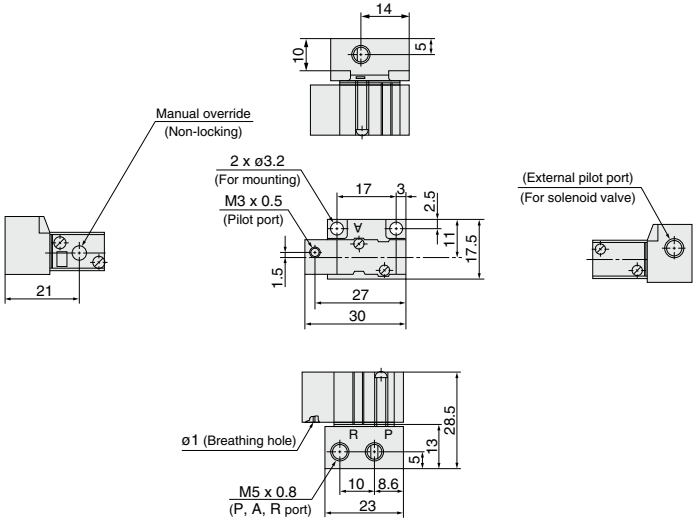
Note) Model No. for base mounted type without sub-plate is SYJA3$\frac{1}{2}$4.

Dimensions

Body ported: SYJA3□2-M3(-F)

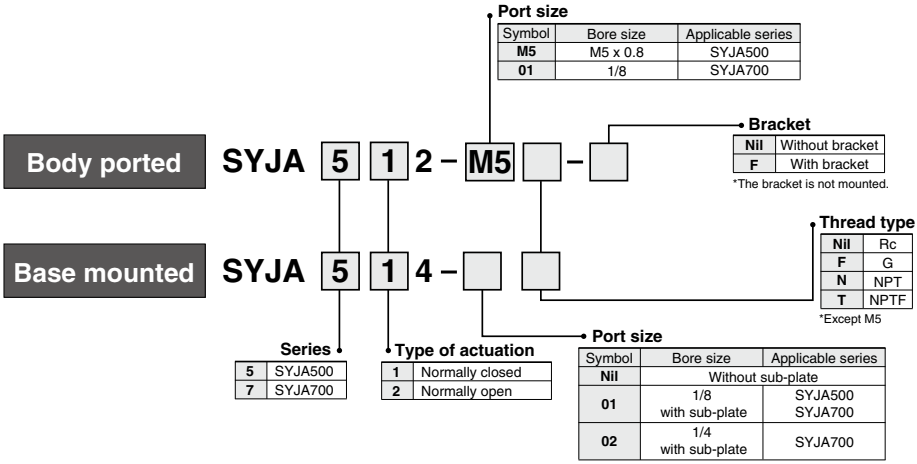


Base mounted: SYJA3□4-M5



3 Port Air Operated Valve
SYJA500/700 Series

How to Order



How to Order Manifold Base

Same manifolds as SYJ500/700 series are prepared.

(For SYJA500) **SS3YJA5 –** Fill the same as SS3YJ5.

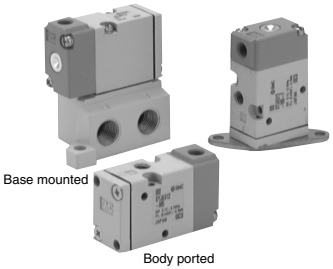
(For SYJA700) **SS3YJA7 –** Fill the same as SS3YJ7.

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

(Ex.) **SS3YJA5-40-03-01** ····· 1 set
- ∗ SYJA514 ····· 2 sets
- ∗ SYJ500-10-3A ····· 1 set

(Ex.) **SS3YJA7-41-03-01** ····· 1 set
- ∗ SYJA714 ····· 2 sets
- ∗ SYJ700-10-2A ····· 1 set

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



SYJA500 series

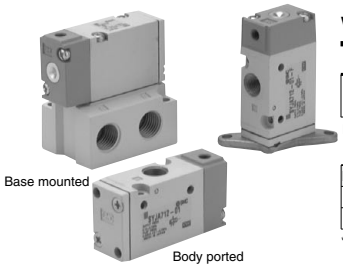
Specifications

Fluid	Air
Operating pressure range MPa	0.15 to 0.7
Pilot pressure range MPa Note 1)	(0.4 x P + 0.1) to 0.7 P: Operating pressure range
Ambient and fluid temperature (°C)	–10 to 60 (No freezing)
Lubrication	Not required
Mounting orientation	Unrestricted
Impact/Vibration resistance (m/s²) Note 2)	300/50

Note 1) 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)



SYJA700 series

With Bracket

Air operated valve type	SYJA5$\frac{1}{2}$2-M5-F, SYJA7$\frac{1}{2}$2-01-F

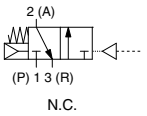
Note) The bracket is not mounted.

Bracket assembly part no.	Applicable series
SYJ5000-13-3A	SYJA500
SYJ700-19-1A	SYJA700

*Mounting screws included.

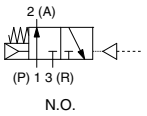
Symbol

SYJA51$\frac{2}{4}$
SYJA71$\frac{2}{4}$



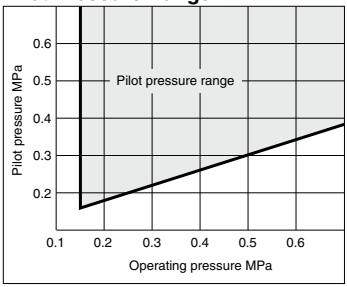
N.C.

SYJA52$\frac{2}{4}$
SYJA72$\frac{2}{4}$



N.O.

Pilot Pressure Range



⚠ Caution

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Flow Rate Characteristics/Weight

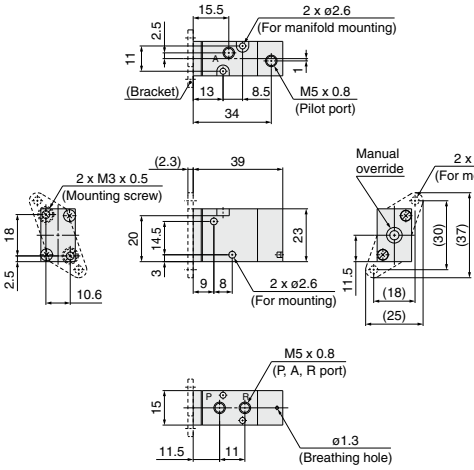
Valve model		Type of actuation	Port size	Flow rate characteristics						Pilot port size	Weight (g)
				1→2 (P→A)			2→3 (A→R)				
				C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv		
Body ported	**SYJA512-M5**	N.C.	M5 x 0.8	0.53	0.45	0.14	0.47	0.39	0.12	M5 x 0.8	34
	SYJA522-M5	N.O.		0.66	0.45	0.18	0.66	0.45	0.18		
Base mounted (with sub-plate)	**SYJA514-01**	N.C.	1/8	1.2	0.41	0.32	1.1	0.46	0.32		64 (Without sub-plate 34)
	SYJA524-01	N.O.		1.3	0.37	0.33	1.2	0.48	0.34		
Body ported	**SYJA712-01**	N.C.	1/8	2.8	0.43	0.77	2.5	0.51	0.76	M5 x 0.8	61
	SYJA722-01	N.O.		2.7	0.38	0.72	2.4	0.42	0.69		
Base mounted (with sub-plate)	**SYJA714-01**	N.C.	1/8	2.9	0.32	0.71	2.7	0.34	0.69		111 (Without sub-plate 61)
	SYJA714-02		1/4	3.0	0.31	0.74	2.6	0.33	0.66		
	SYJA724-01	N.O.	1/8	2.8	0.21	0.70	2.3	0.45	0.63		
	SYJA724-02		1/4	2.7	0.31	0.68	2.3	0.48	0.64		

Note) Model No. for base mounted type without sub-plate is SYJA5$\frac{1}{2}$4, SYJA7$\frac{1}{2}$4.

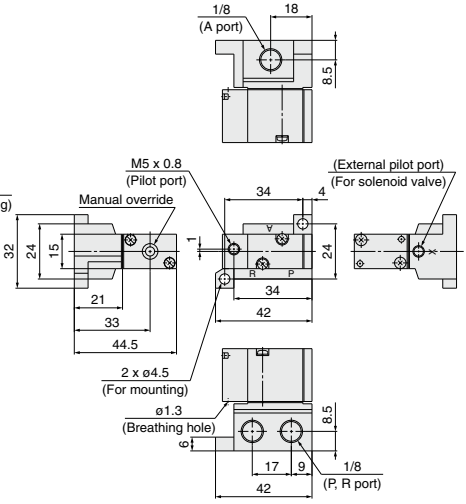
Dimensions

SYJA500 Series

Body ported: SYJA5□2-M5(-F)

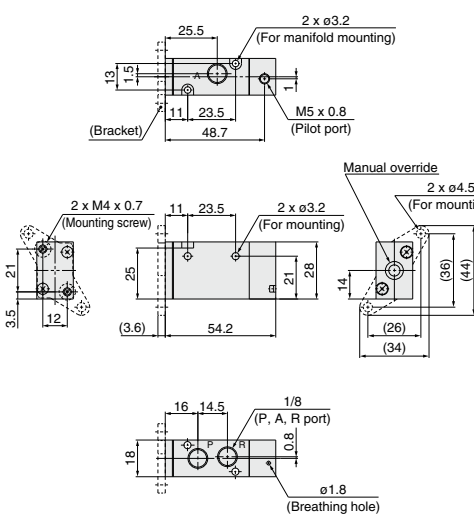


Base mounted: SYJA5□4-01□



SYJA700 Series

Body ported: SYJA7□2-01□(-F)



Base mounted: SYJA7□4-$\frac{01}{02}$□

