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3 Port Air Operated Valve
Series SYJA300

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 series SYJ300 are prepared.

SS3YJA3 – Fill the same as SS3YJ3.

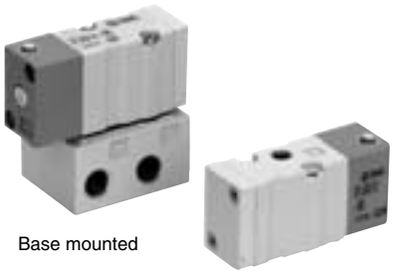
* Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

(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.

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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)

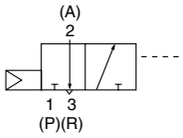
Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed to axis and right angle directions of the main valve when pilot signal is ON and OFF. (Value in the initial state)

With Bracket

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

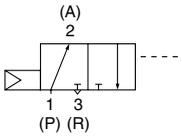
JIS Symbol

SYJA31$\frac{2}{4}$



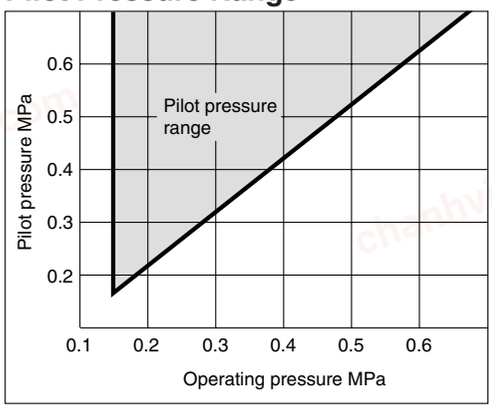
N.C.

SYJA32$\frac{2}{4}$



N.O.

Pilot Pressure Range



⚠ Caution

Be sure to read before handling. Refer to front matters 58 and 59 for Safety Instructions and pages 3 to 7 for 3/4/5 Port Solenoid Valve Precautions.

Flow Characteristics/Mass

Valve model		Type of actuation	Port size	Flow characteristics 1→2 (P→A) C [dm³/(s bar)]	b	Cv	Flow characteristics 2→3 (A→R) C [dm³/(s bar)]	b	Cv	Pilot port size	Mass (g)	Effective area (mm²)
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			

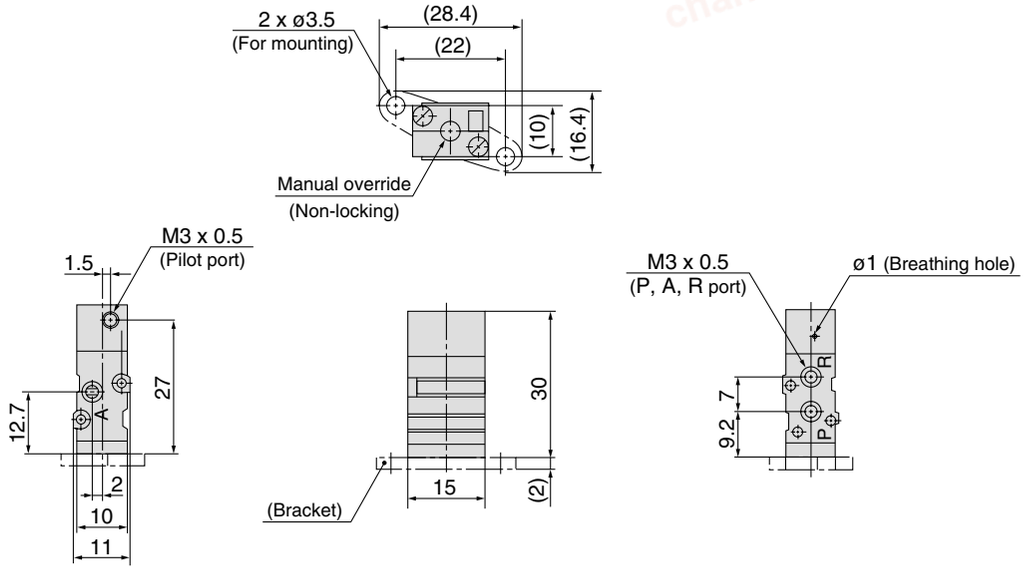
Note) Model No. for base mounted style without sub-plate is SYJA3$\frac{1}{2}$4.

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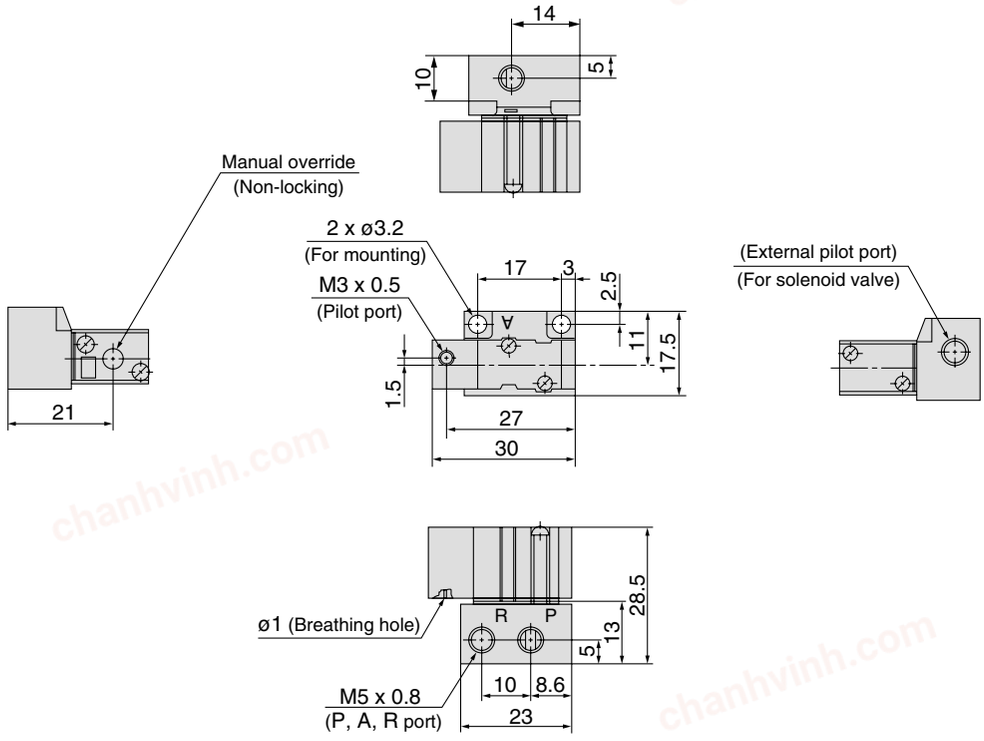
Series SYJA300

Dimensions

Body ported: SYJA3□2-M3(-F)



Base mounted: SYJA3□4-M5



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3 Port Air Operated Valve
Series SYJA500/700

How to Order

Body ported SYJA [5] [1] 2 – [M5] [ ] – [ ]

Base mounted SYJA [5] [1] 4 – [ ] [ ]

Port size

Symbol	Bore size	Applicable series
M5	M5 x 0.8	SYJA500
01	1/8	SYJA700

Bracket

Nil	Without bracket
F	With bracket

*The bracket is not mounted.

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

*Except M5

Series

5	SYJA500
7	SYJA700

Type of actuation

1	Normally closed
2	Normally open

Port size

Symbol	Bore size	Applicable series
Nil	Without sub-plate	
01	1/8 with sub-plate	SYJA500 SYJA700
02	1/4 with sub-plate	SYJA700

How to Order Manifold Base

Same manifolds as series SYJ500/700 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.

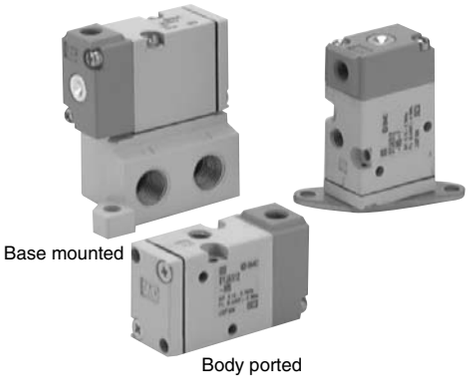
(Ex.) **SS3YJA5-40-03-01** ····· 1 set
- ✻SYJA514 ····· 2 sets
- ✻SYJ500-10-3A ····· 1 set

(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.

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Series SYJA500/700



Series SYJA500

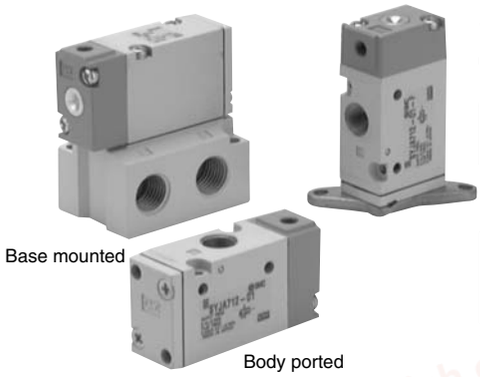
Specifications

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)



Series SYJA700

With Bracket

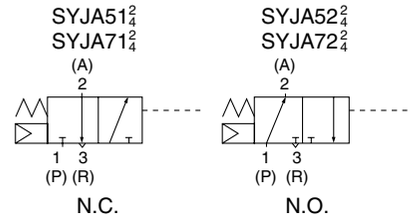
Air operated valve type	SYJA5$\frac{1}{2}$2-M5-F, SYJA7$\frac{1}{2}$2-01-F

Note) The bracket is not mounted.

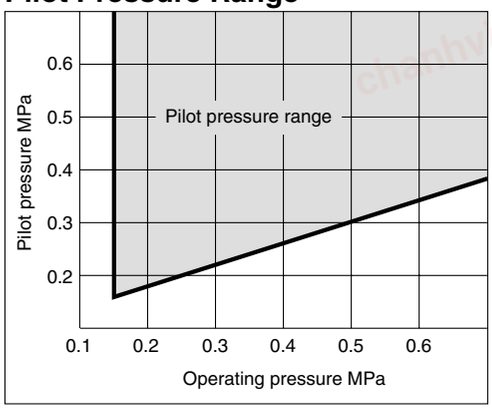
Bracket assembly part no.	Applicable series
SYJ5000-13-3A	SYJA500
SYJ700-19-1A	SYJA700

*Mounting screws included.

JIS Symbol



Pilot Pressure Range



⚠ Caution

Be sure to read before handling. Refer to front matters 58 and 59 for Safety Instructions and pages 3 to 7 for 3/4/5 Port Solenoid Valve Precautions.

Flow Characteristics/Mass

Valve model		Type of actuation	Port size	Flow characteristics 1→2 (P→A) C [dm³/(s·bar)]	b	Cv	Flow characteristics 2→3 (A→R) C [dm³/(s·bar)]	b	Cv	Pilot port size	Mass (g)
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		

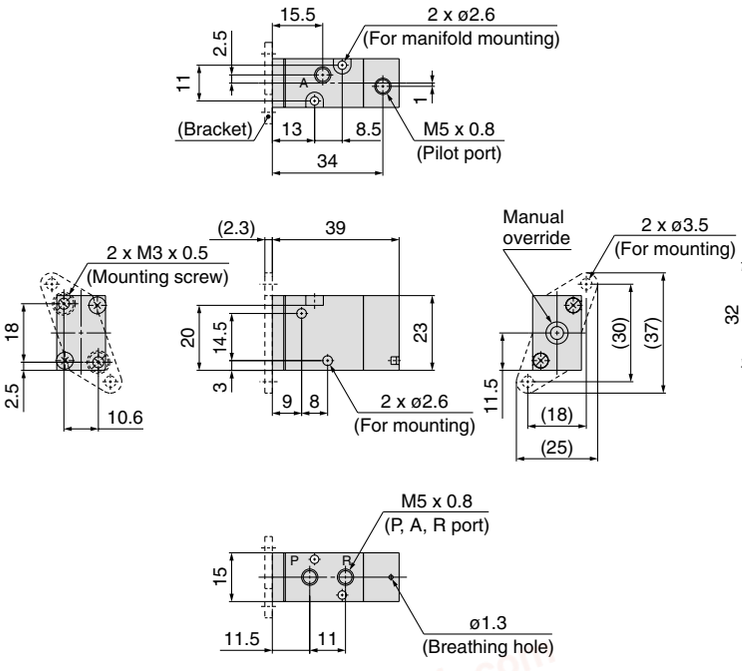
Note) Model No. for base mounted style without sub-plate is SYJA5$\frac{1}{2}$4, SYJA7$\frac{1}{2}$4.

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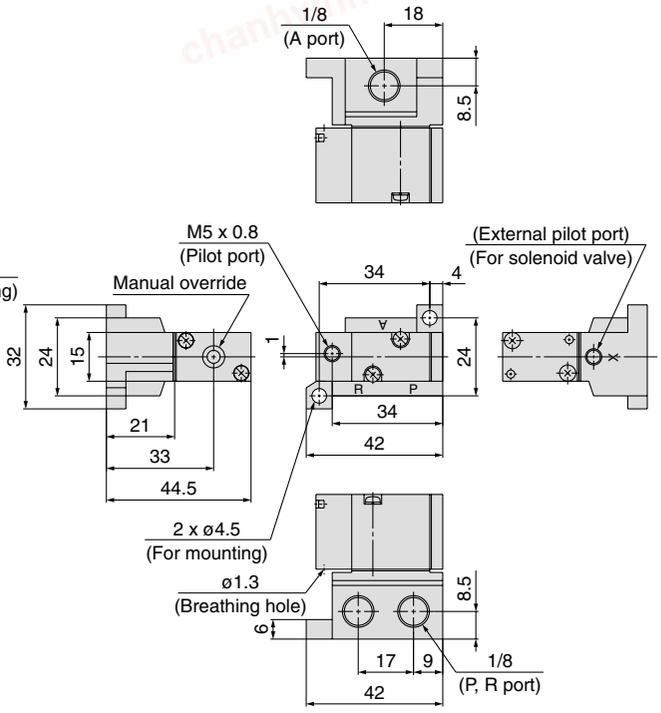
Dimensions

Series SYJA500

Body ported: SYJA5□2-M5(-F)

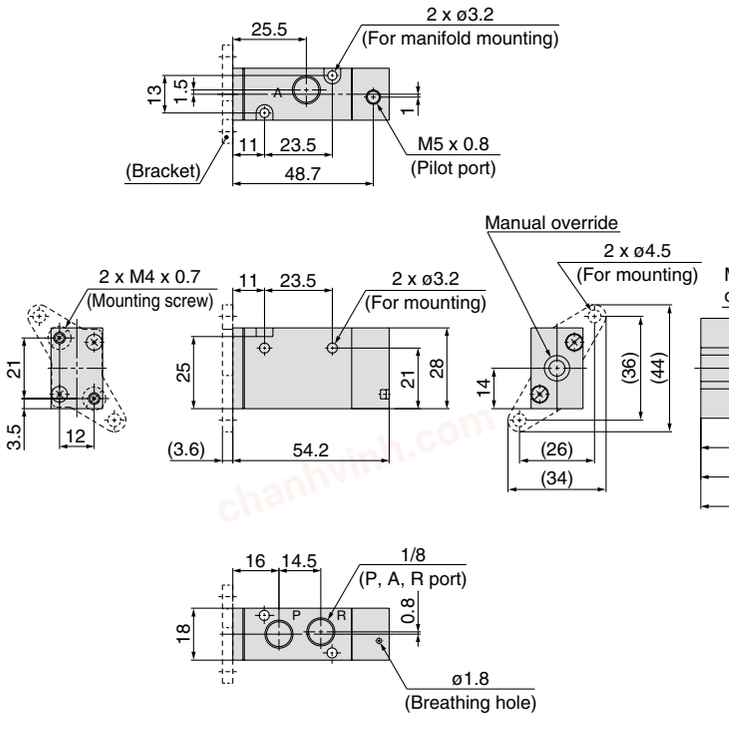


Base mounted: SYJA5□4-01□



Series SYJA700

Body ported: SYJA7□2-01□(-F)



Base mounted: SYJA7□4-$^{01}_{02}$□

