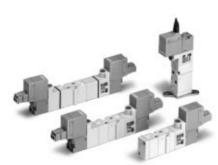
4, 5 Port Solenoid Valve **Rubber Seal**

Series SYJ3000



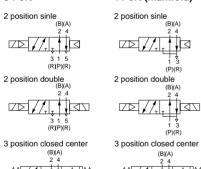
Body ported

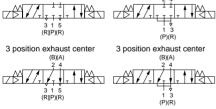


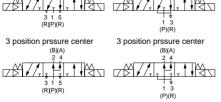
Base mounted

JIS Symbol 5 Port

4 Port (manifold)









Model

Valve model					Effective (1)	Weight (g) (2)(3)	
		Со	Configuration Port siz		area mm²(Cv)	Gromet	L/M plug connector
	SYJ312□	2 position	Single	M3 X 0.5	0.9 (0.05)	33	35
	SYJ322□		Double			47	51
5 port	SYJ332□	3 position	Closed center			50	54
Body ported	SYJ342□		Exhaust center				
	SYJ352□		Pressure center				
	SYJ314□	O manisian	Single			59(33)	61(35)
5 port	SYJ324□	2 position	Double		4.0	73(47)	77(51)
Base mounted	SYJ334□	3 position	Closed center	M5 X 0.8	1.8 (0.1)	76(50)	80(54)
(With sub-plate)	SYJ344□		Exhaust center				
	SYJ354□		Pressure center				
	SYJ313□	2 position	Single		1.2 ⁽¹⁾ (0.067)	33	35
4 port	SYJ323□	2 position	Double			47	51
Base mounted (For manifold use only)	SYJ333□		Closed center	-		50	54
	SYJ343□	3 position	Exhaust center				
	SYJ353□		Pressure center				

Note 1) In case of M5 and mounted on monifold base.

Note 2) (): Without sub-plate.

Note 3) For DC voltages. For AC voltages add 1g to the weight of the single solenoid and 2g to the weight of the double solenoid and 3 position styles.

Specifications

Fluid		Air		
On anoting a processing reason	2 position single	0.15 to 0.7		
Operating pressure range (MPa)	2 position double	0.1 to 0.7		
(4)	3 position	0.2 to 0.7		
Ambient and fluid tempera	ture °C	Max. 50		
Response time (ms) (4)	2 position single, double	≤15		
at 0.5MPa	3 position	≤30		
	2 position single, double	10		
Max. operating frequency (Hz)	3 position	3		
Manual override		Non-locking push type, Push-turn-locking slotted style		
Pilot exhaust		Individual pilot exhaust, Common exhaust (pilot and main valve)		
Lubrication		Not required		
Mounting position		Free		
Impact/Vibration resistance (m/s²) (5)		150/30		
Protection structure		Dust proof		

Note 4) According to dynamic performance test JIS B8375-1981 (Coil temperature 20°C, at rated voltage, without surge voltage suppressor)

Note 5) Impact resistance: No malfunction resulted from the impact test using a drop impact tester.

The test was performed on the axis and right angle direction of the main valve and armature, for both energized and de-energized states. (Value

in the initial stage) Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz. Test was performed at both energized and de-energized states to axis and right angle direction of the main valve and armature. (Value in the

TAN Solenoid Specifications

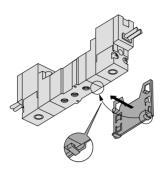
Electrical entry			Grommet(G)/(H), L plug connector(L), M plug connector(M)	
Coil roted voltage (V)	DC		24, 12, 6, 5, 3	
Coil rated voltage (V)	AC50/60Hz		100, 110*, 200, 220**	
Allowable voltage	Allowable voltage		±10% rated voltage	
Power consumption (W) ⁽⁶⁾	Power consumption (W) ⁽⁶⁾ DC		0.5 (With light: 0.55)	
	AC -	100V	0.9 (With light: 1.0)	
Apparent power (VA)		110V [115V]	1.0 (With light: 1.1) [1.1 (With light: 1.2)]	
Apparent power (VA)		200V	1.8 (With light: 1.9)	
		220V [230V]	1.9 (With light: 2.0) [2.2 (With light: 2.3)]	
Surge voltage suppressor			Diode	
Indicator light			LED	



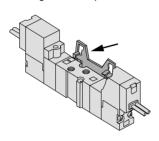
* Can be used for 115V AC in common. ** Can be used for 230V AC in common. Note 6) At rated voltage

Bracket Mounting

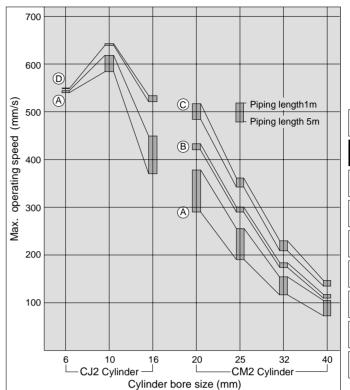
①Insert the lower hook of the mounting bracket into the groove on the bottom of the valve as shown.

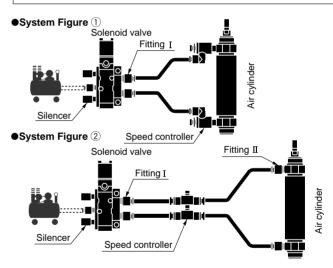


②Press the valve and mounting bracket together until the upper hook of the bracket snaps into place in the groove on top of the valve.



Cylinder Maximum Operating Speed





Operating conditions) Pressure: 0.5MPa, Load rate: 50% At cylinder extended, cylinder stroke CJ2: 60mm CM2: 300mm

System components

_						
System	Solenoid valve	Speed controller	Silencer	(Tube	ing O.D. t size)	Sysytem Figure
				I	П	riguic
(A)		AS1301F-M5-04		ø4 X M5	_	
(B)	SYJ3000 M5 X 0.8	AS1301F-M5-06	AIN IZU-IVIS	ø6 X M5	_	1
©	$(S = 1.8 \text{mm}^2)$	AS2301F-01-06	(S=5mm ²)	ø6 X 1/8	_	
(D)		AS2001F-06		ø6 X M5	ø6 X M5	2

SY

SYJ

SX

VK VZ

\/E

VF

VFR

VP7

VP4

VQ

VQ4 VQZ

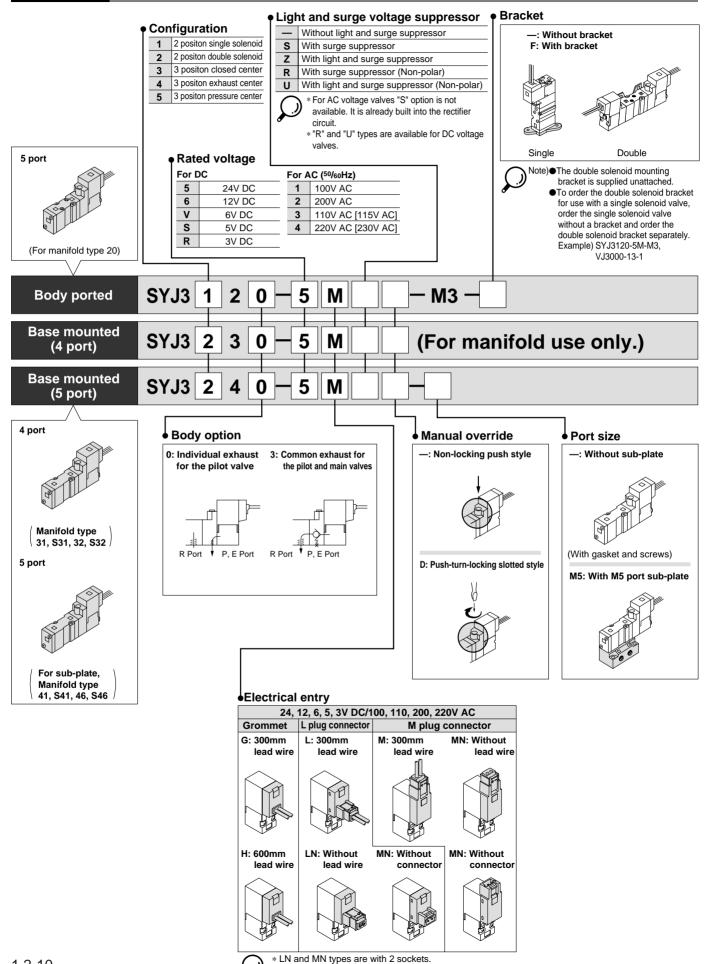
VQD

VZS

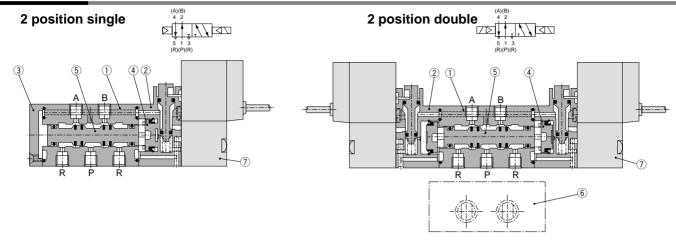
VFS

VS VS7

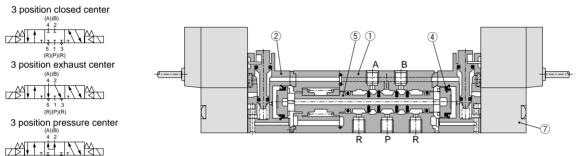
How to Order



Construction



3 position closed center/exhaust center/pressure center



(This construction shows a closed center.)

Component Parts

LO

М

MN

M plug

connector

No.	Description	Material	Note
1	Body	Zinc die cast	white
2	Piston plate	Resin	white
3	End cover	Resin	white
4	Piston	Resin	_
(5)	Spool Ass'y	_	_

Replacement Parts

No.	Description	Part No.	Note
6	Sub-plate	SYJ3000-22-1	Zinc die cast
7	Pilot valve	SY114-□□□	

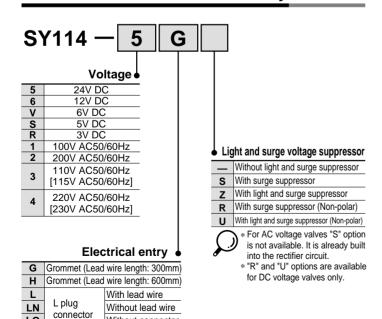
How to Order Pilot Valve Assembly

Without connector

Without lead wire

Without connector

With lead wire



How to Order Connector Assembly

: SY100-30-4A-

100V AC : SY100-30-1A-

200V AC : SY100-30-2A-

Other AC voltages : SY100-30-3A-

Without lead wire: SY100-30-A

(with connector Lead wire length and 2pcs. of socket)

Leau wire length		
_	300mm	
6	600mm	
10	1000mm	
15	1500mm	
20	2000mm	
25	2500mm	
30	3000mm	
50	5000mm	

SY

SYJ

SX VK

٧Z

VF

VFR

VP7

VP4

۷Q

VQ4

VQZ VQD

VZS

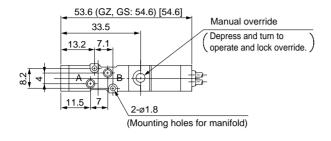
VFS

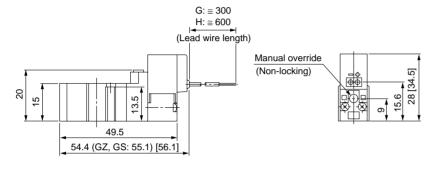
VS

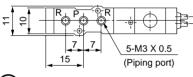
VS7

2 Position Single

Grommet (G), (H): SYJ3120-□ H□□-M3

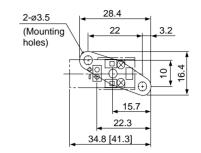


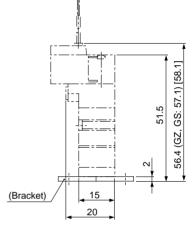


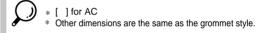




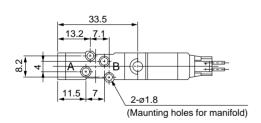
With bracket

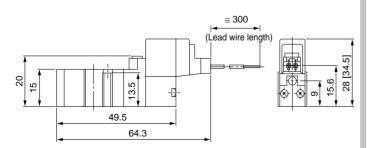






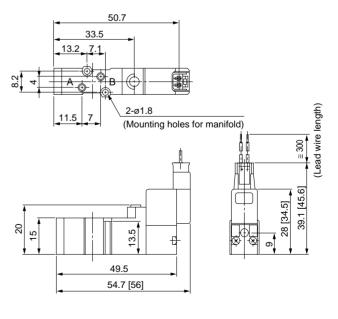
L plug connector (L): SYJ3120-□L□□-M3

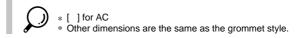




* [] for AC
* Other dimensions are the same as the grommet style.

M plug connector (M): SYJ3120-□M□□-M3





SY

SYJ

SX

۷K

٧Z

VF

VFR

VP7

VP4

VQ

VQ4

VQZ

VQD

VZS

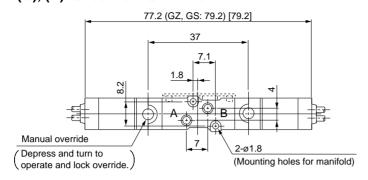
VFS

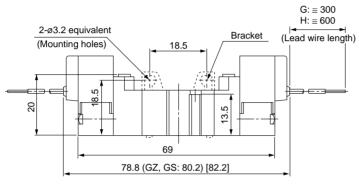
VS

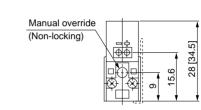
VS7

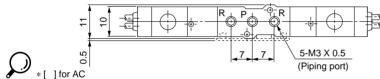
2 Position Double

Grommet (G), (H): SYJ3220-□ ^G □ □-M3

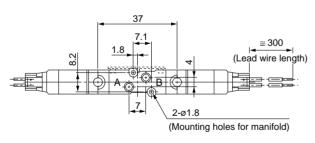


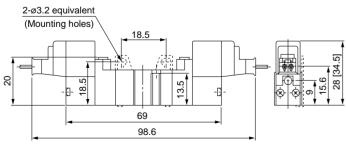


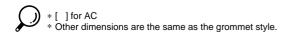




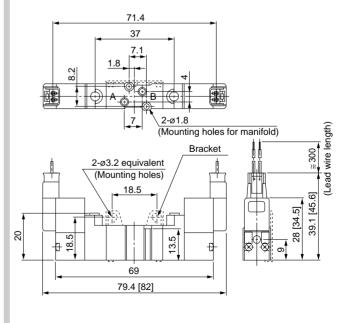
L plug connector (L): SYJ3220-□L□□-M3

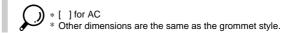






M plug connector (M): SYJ3220-□M□□-M3

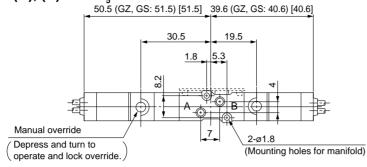


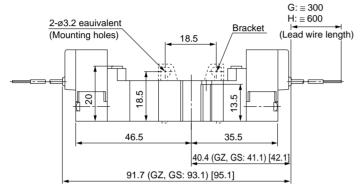


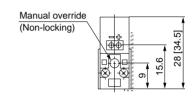
1.2-13

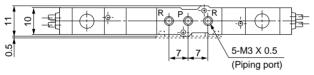
3 Position Closed Center/Exhaust Center/Pressure Center

Grommet (G), (H): SYJ3 ³/₄20-□ ^G_H □ □-M3



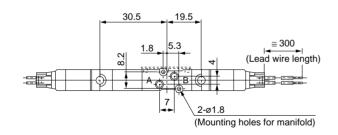


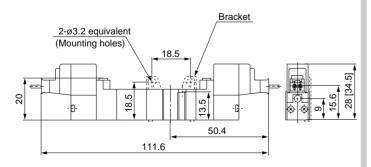




*[]for AC

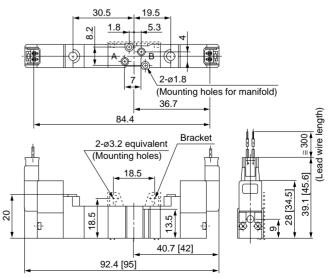
L plug connector (L): SYJ3 ³/₅20-□L□□-M3





*[] for AC *Other dimensions are the same as the grommet style.

M plug connector (M): SYJ3 ³/₅20-□M□□-M3





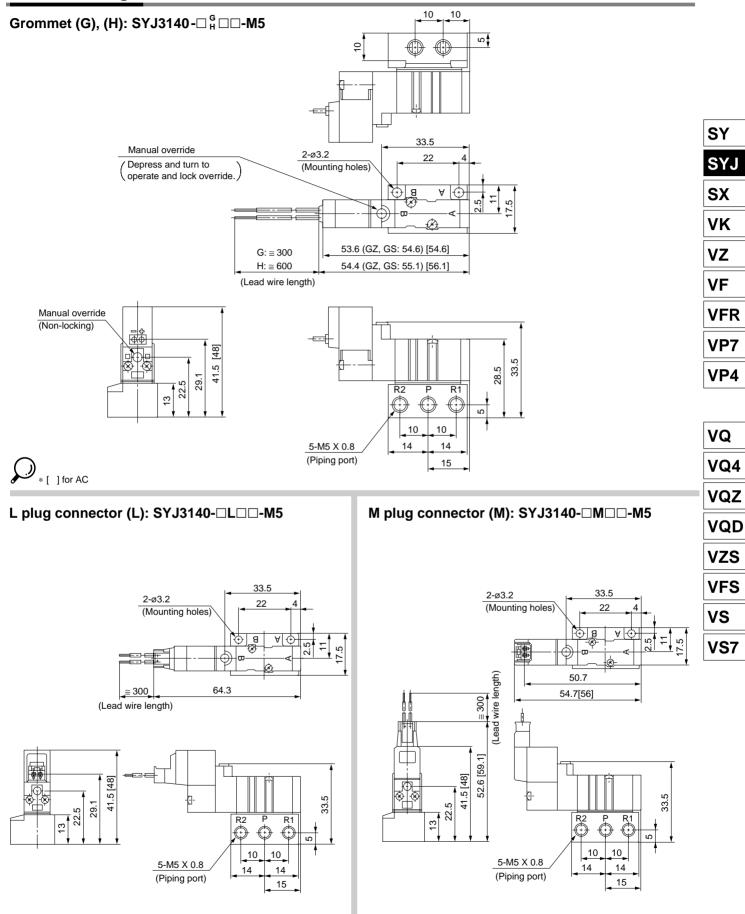
* [] for AC

* Other dimensions are the same as the grommet style.

2 Position Single

* [] for AC

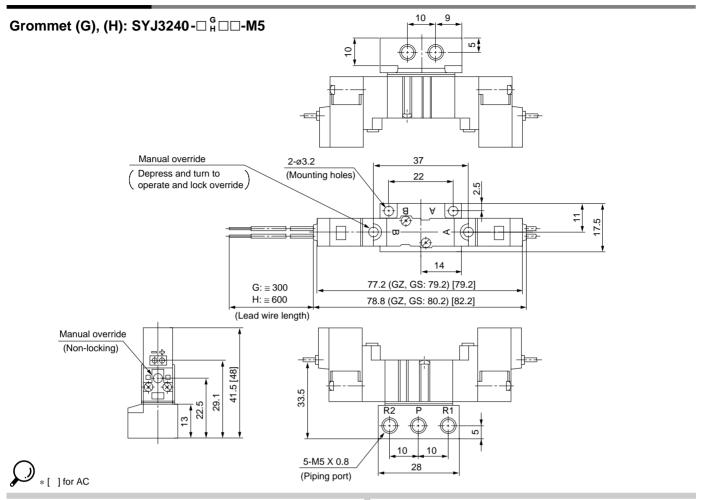
Other dimensions are the same as the grommet style.



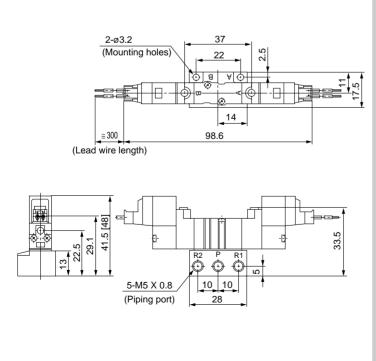
* [] for AC

Other dimensions are the same as the grommet style.

2 Position Double

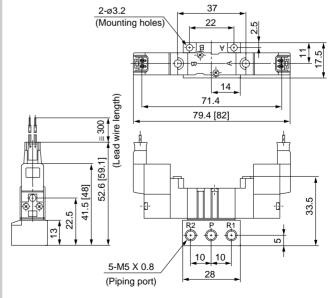


L plug connector (L): SYJ3240-□L□□-M5



* Other dimensions are the same as the grommet style.

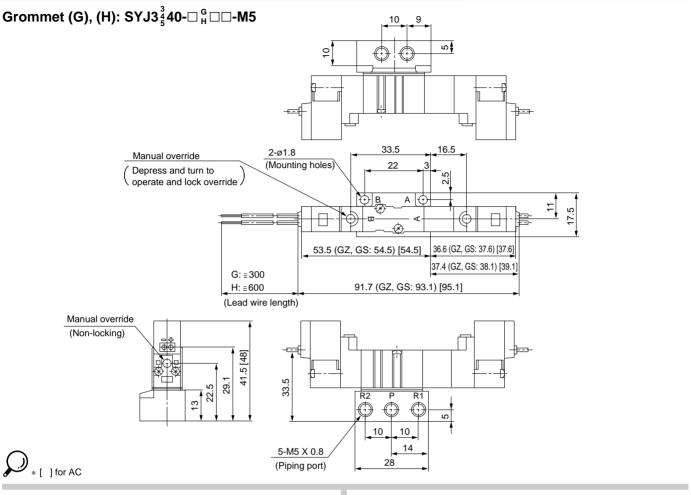
M plug connector (M): SYJ3240-□M□□-M5



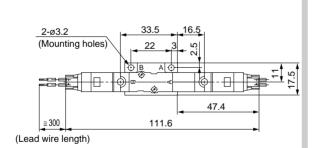
* [] for AC * Other dimensions are the same as the grommet style.

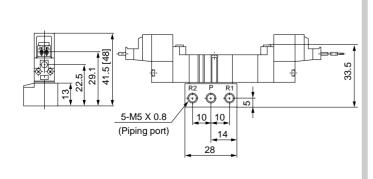
* [] for AC

3 Position Closed Center/Exhaust Center/Pressure Center



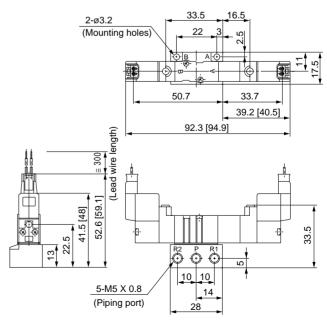
L plug connector (L): SYJ3 ³ ₅ 40-□L□□-M5





*[] for AC
* Other dimensions are the same as the grommet style.

M plug connector (M): SYJ3 ³ ₅ 40-□M□□-M5



* [] for AC
* Other dimensions are the same as the grommet style.

VK VZ

SY

SYJ

SX

VF

VFR

VP7

VP4

VQ

VQ4 VQZ

VQD

VQL

VZS

VFS

VS VS7