3 Port Direct Operated Rubber Seal

Series SY100

Model



Body ported



Base mounted

SY123(A)

JIS Symbol

1 3 (P)(R)

SY113(A)

Weight (g) (2) Operating Vacuum application (MPa) Effective area pressure range Style L, M Plug Actuation Model (mm²) (Cv) Grommet style P port R port (MPa) connector 0.14 N.C. SY114 Standard 0 to 0.7 -100kPa to 0.6 | -100kPa to 0 (0.008)Large 0.22 SY1□3 (A): 13 SY1□3 (A): 15 SY11³A 0 to 0.7 N.C. -100kPa to 0.6 -100kPa to 0 (0.012)SY1□4 (A): 24 SY1□4 (A): 26 capacity Without 0.14 SY123 0 to 0.7 N.O. Standard -100kPa to 0 -100kPa to 0.6 sub-plate 12 sub-plate 14/ (0.008)Large flow 0.22 0 to 0.7 SY12³A N.O. -100kPa to 0 -100kPa to 0.6 (0.012)

Note 1) SY123/SY124 and SY123/SY124 A: Supply pressure to 1(R) port and exhaust air from 3(P) port. Note 2) Value for DC. Add 1g for AC.

Specifications

Fluid	Air	
Ambient and fluid temperature (°C)	Max. 50°C	
Response time (ms) (1)	10ms or less	
Max. operating frequency (Hz)	20	
Manual override	Non-locking push, Locking slotted, Push-locking slotted, Push-locking lever	
Lubrication	Not requited	
Mounting position	Free	
Impact/Vibration resistance (m/s2) (2)	150/30	
Enclosure	Dust-proof	



Note 1) According to dynamic performance test JIS B8374-1981 (Coil temperature 20°C, at rated voltage, without surge suppressor.)

Note 2) Impact resistance: No malfunction from tests using drop impact tester, to axis and right angle direction of main valve and armature, each one time when energized and de-energized. (Value in the initail stage)

Vibration resistance: No malfunction from tests with 8.3~2000Hz 1 sweep, to axis and right angle direction of main valve and armature, each one time when energized and de-enegized. (Value in the initial stage.)

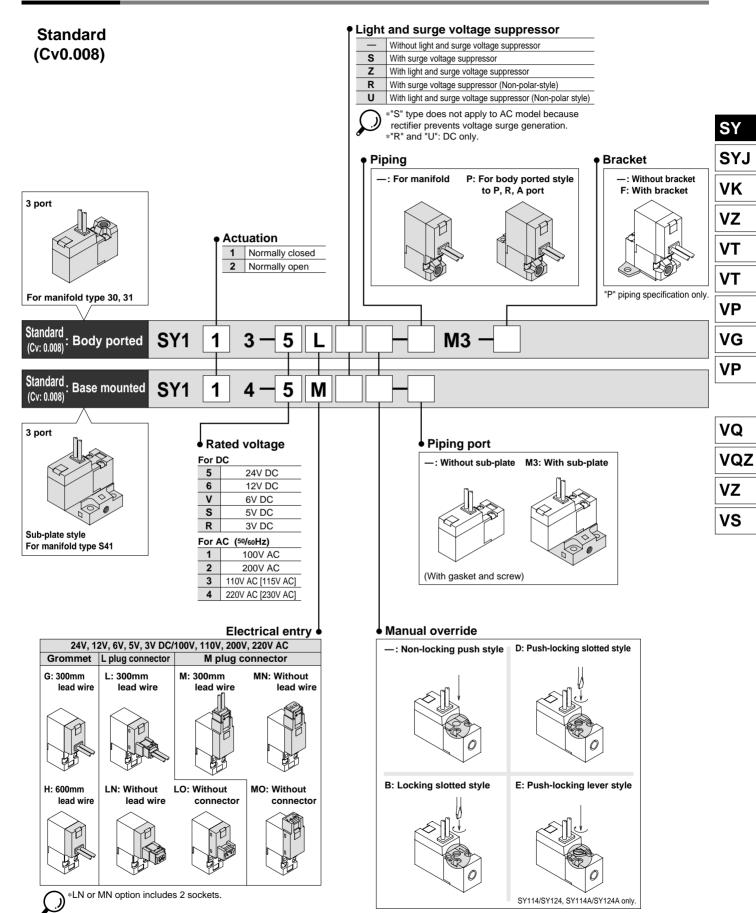
Solenoid

Solenoid Specifications

Series			SY1 ¹³ ₂₄	SY124A
Electrical entry		Grommet (G), (H), L plug connector (L), M plug connector (M)		
Coil rated voltage (V)	DC		24, 12, 6, 5, 3	
	AC ⁵⁰ / ₆₀ Hz		100, 110, 200, 220	_
Allowable voltage	Allowable voltage Power consumption (W) (1) DC		-10 to	+10%
Power consumption (W)			0.5W (With light: 0.55W)	0.75W (With light: 0.8W)
		100V	0.9 (With light: 1.0)	_
Apparent power (VA) ⁽¹⁾	100	110V [115V]	1.0 (With light: 1.1) [1.1 (With light: 1.2)]	
	AC	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			LE	D

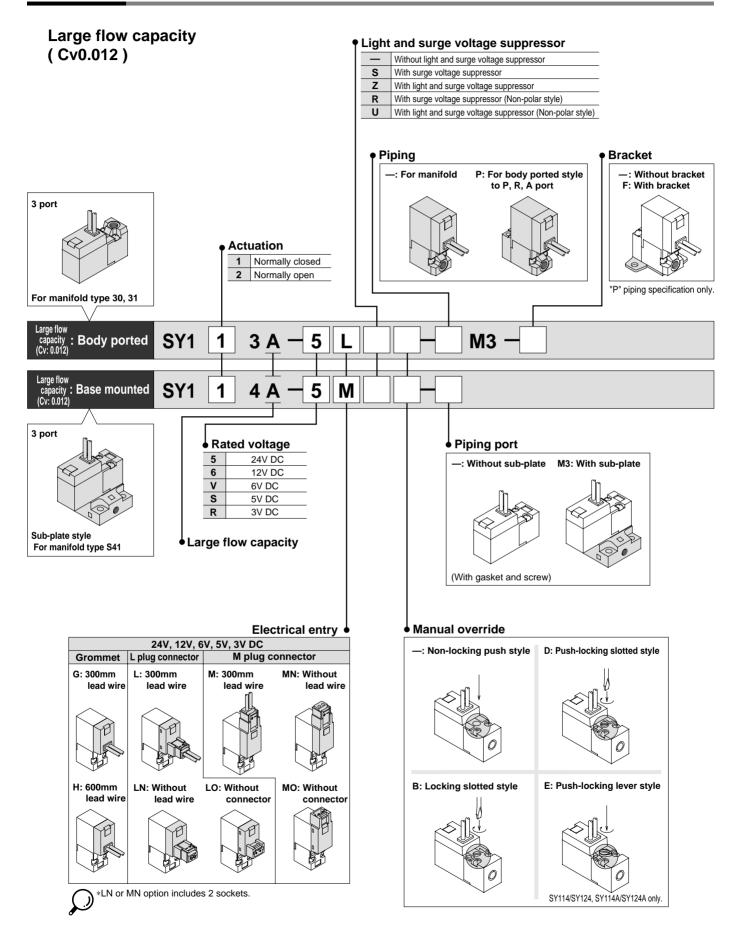


How to Order



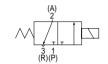
Series SY100

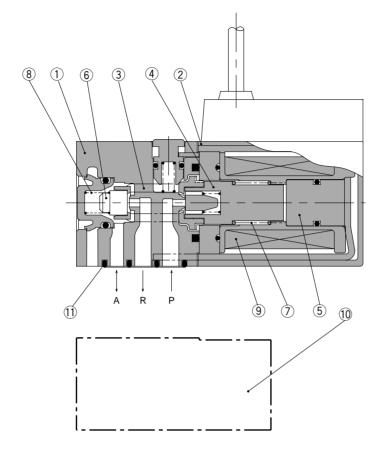
How to Order



Construction

SY114, SY114A





SYJ

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VT

VT

VP

VG

VP

VQ

VQZ

٧Z

VS

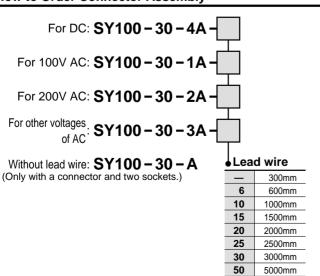
Component Parts

Component i unto									
No.	Description	Material	Notes						
1	Body	Resin	Gray						
2	Cover	Resin	Gray						
3	Push rod	Resin	_						
4	Armature ass'y	NBR/Stainless steel	_						
(5)	Core	Stainless steel	_						
6	Exhaust poppet	NBR	_						
7	Return spring	Stainless steel	_						
8	Poppet spring	Stainless steel	_						
9	Coil ass'y	_	_						

Replacement Parts

No.	Description	Part No.	Material
10	Sub-plate	SY100-74-1	Zinc die cast
11)	Gasket	VJ100-6-1	NBR

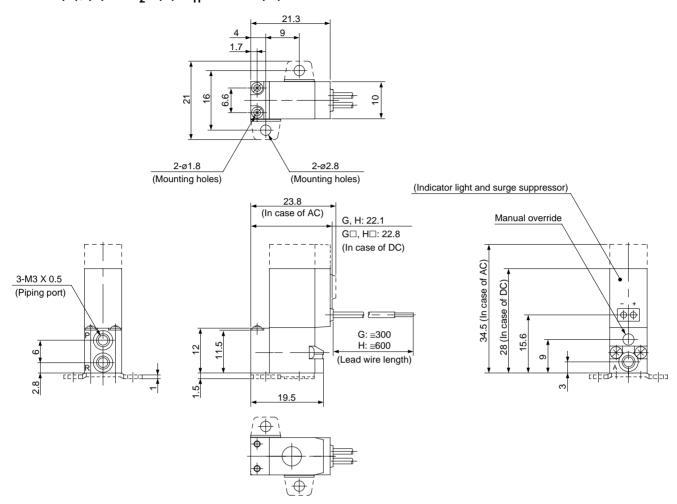
How to Order Connector Assembly



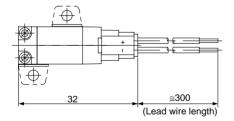
Series SY100

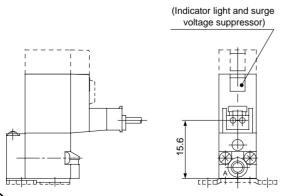
Body Ported

Grommet (G), (H): SY1¹₂3 (A)-□ ^G_H□□-PM3 (-F)



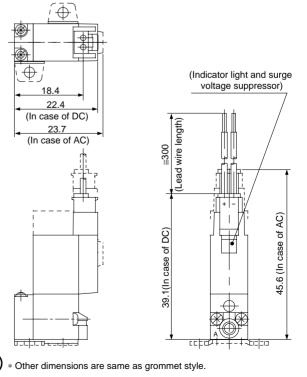
L plug connector (L): SY1½3 (A)-□L□□-PM3 (F)





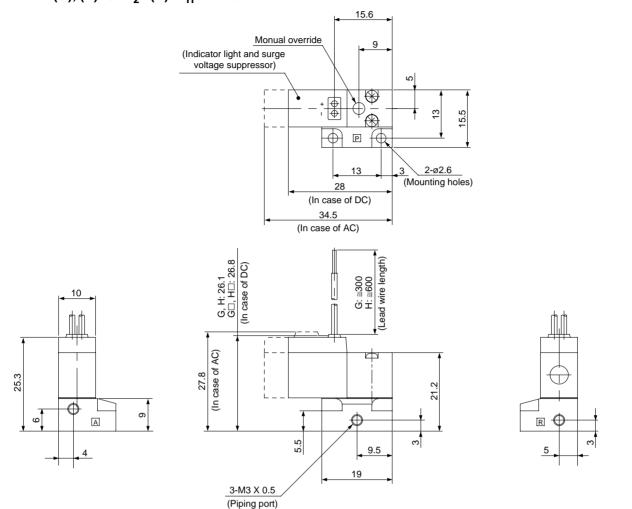
* Other dimensions are same as grommet style.

M plug connector (M): SY1½3 (A)-□M□□-PM3 (-F)

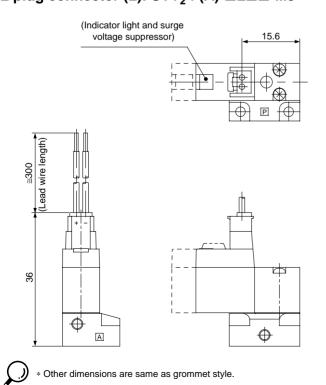


Base Mounted (With Sub-plate)

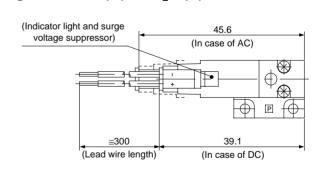
Grommet (G), (H): SY1 ¹₂4 (A)-□ ^G_H□□-M3

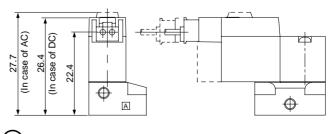


L plug connector (L): SY1½4 (A)-□L□□-M3



M plug connector (M): SY121 4 (A)-□M□□-M3





) * Other dimensions are same as grommet style.

VK

SY

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