

3 Port Direct Operated Rubber Seal Series SY100



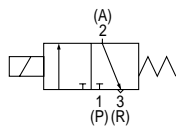
Body ported



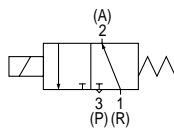
Base mounted

JIS Symbol

SY11 $\frac{3}{4}$ (A)



SY12 $\frac{3}{4}$ (A)



P.2.1-15

Model

Actuation	Model	Style	Operating pressure range (MPa)	Vacuum application (MPa)		Effective area (mm ²) (Cv)	Weight (g) ⁽²⁾	
				P port	R port		Grommet style	L, M Plug connector
N.C.	SY11 $\frac{3}{4}$	Standard	0 to 0.7	-100kPa to 0.6	-100kPa to 0	0.14 (0.008)		
N.C.	SY11 $\frac{3}{4}$ A	Large flow capacity	0 to 0.7	-100kPa to 0.6	-100kPa to 0	0.22 (0.012)	SY1□3 (A): 13 SY1□4 (A): 24	SY1□3 (A): 15 SY1□4 (A): 26
N.O.	SY12 $\frac{3}{4}$ ⁽¹⁾	Standard	0 to 0.7	-100kPa to 0	-100kPa to 0.6	0.14 (0.008)	(Without sub-plate 12)	(Without sub-plate 14)
N.O.	SY12 $\frac{3}{4}$ A ⁽¹⁾	Large flow capacity	0 to 0.7	-100kPa to 0	-100kPa to 0.6	0.22 (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 required
Mounting position	Free
Impact/Vibration resistance (m/s ²) ⁽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 initial 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-energized.
(Value in the initial stage.)

Solenoid Specifications

Series		SY1 $\frac{13}{24}$	SY1 $\frac{13}{24}$ A
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		-10 to +10%	
Power consumption (W) ⁽¹⁾	DC	0.5W (With light: 0.55W)	0.75W (With light: 0.8W)
	AC	100V 0.9 (With light: 1.0) 110V 1.0 (With light: 1.1) [115V] 1.1 (With light: 1.2) 200V 1.8 (With light: 1.9) 220V 1.9 (With light: 2.0) [230V] 2.2 (With light: 2.3)	—
Surge voltage suppressor		Diode	
Indicator light		LED	



*110VAC and 115VAC, 220VAC, and 230VAC are common.

Note 1) At rated voltage