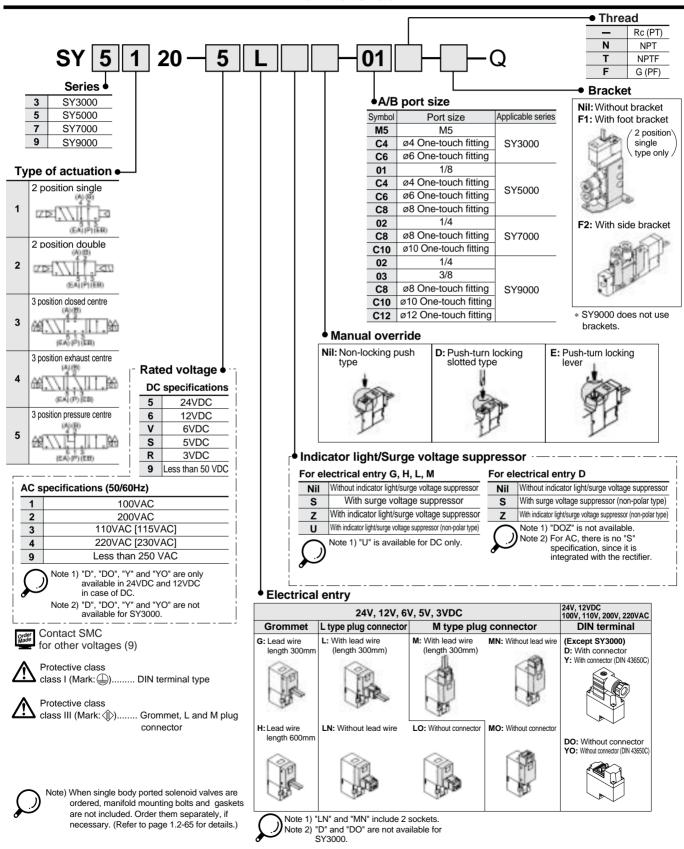
SY3000/5000/7000/9000 Body Ported Type Single Valve

How to Order



Body Ported Type SY3000/5000/7000/9000





Specifications

Series		SY3000	SY5000	SY7000	SY9000
Fluid			Air		
	2 position single	0.15 to 0.7			
Internal pilot operating pressure range MPa	2 position double		0.1 t	o 0.7	
pressure range initia	3 position	0.2 to 0.7			
Ambient and fluid temp	erature °C	Maximum 50			
Maximum operating	2 position single, double	10	5	5	5
frequency Hz	3 position	3	3	3	3
Manual override		Non-locking push type, Push-turn locking slotted type, Push-turn locking lever type			king lever type
Pilot exhaust method		Common exhaust for main and pilot valves			
Lubrication	Not required				

Mounting orientation Unrestricted Impact resistance/Vibration resistance m/s^{2 Note)} 150/30 Dust proof (IP65 for DIN terminal*) Enclosure

* In compliance with IEC529 standard.

Note) Impact resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions 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 for both energized and de-energized states in the axial and right angle directions of the main valve and armature. (Value in the initial stage)

Solenoid specifications

<u> </u>				
Electrical entry			Grommet (G)/(H), L type plug connector (L), M type plug connector (M), DIN terminal (D) Note 1)	
Data da a Haralta da M	DC		24, 12, 6, 5, 3	
Rated coil voltage V	AC 50/60Hz		100, 110, 200, 220 Note 2)	
Allowable voltage fluctuation			±10% of rated voltage	
Current consumption W	DC		0.5 [With indicator light: 0.55 (0.6 for DIN terminal with indicator light)] Note 3)	
	AC	100V	0.9 (With indicator light: 1.0)	
		110V	1.0 (With indicator light: 1.1)	
Apparent power VA		[115V]	[1.1 (With indicator light: 1.2)]	
		200V	1.8 (With indicator light: 1.9)	
		220V	1.9 (With indicator light: 2.0)	
		[230V]	[2.2 (With indicator light: 2.3)]	
Surge voltage suppressor			Diodes (ZNR for DIN terminal, Zener diode for G, L or M non-polar type)	
Indicator light			LED (Neon bulb for AC type DIN terminal)	
Note 1) DINI townsized (D) is not as a lightly for CV2000				

Note 1) DIN terminal (D) is not available for SY3000.

Note 2) 110 and 115VAC are common, as are 220 and 230VAC.

Note 3) Energy saving [0.22W] type is also available. Refer to page 1.2-177 for details.

Note 4) AC specifications are only for the DIN terminal type.

Response time



Note) Based on dynamic performance test JISB8375-1981 (at coil temperature of 20°C with rated

SY3000

313000						
		Response time ms (at 0.5MPa)				
Type of actuation	Without indicator light/	With indicator light/surge voltage suppressor				
	surge voltage suppressor	S, Z types	U types			
	2 position single	12 or less	15 or less	12 or less		
	2 position double	10 or less	13 or less	10 or less		
	3 position	15 or less	20 or less	16 or less		

SY5000

	Response time ms (at 0.5MPa)			
Type of actuation	Without indicator light/ surge voltage suppressor	With indicator light/surge voltage suppressor		
		S, Z types	U types	
2 position single	19 or less	26 or less	19 or less	
2 position double	18 or less	22 or less	18 or less	
3 position	32 or less	38 or less	32 or less	

SY7000

011000					
	Response time ms (at 0.5MPa)				
Type of actuation	Without indicator light/	With indicator light/surge voltage suppressor			
	surge voltage suppressor	S, Z types	U types		
2 position single	31 or less	38 or less	33 or less		
2 position double	27 or less	30 or less	28 or less		
3 position	50 or less	56 or less	50 or less		

SY9000

313000					
	Response time ms (at 0.5MPa)				
Type of actuation	Without indicator light/	With indicator light/surge voltage suppressor			
	surge voltage suppressor	S, Z types	U types		
2 position single	35 or less	41 or less	35 or less		
2 position double	35 or less	41 or less	35 or less		
3 position	62 or less	64 or less	62 or less		

SV

SYJ

SX

VK

VZ

VFR

VP7

VQC

SQ

VQ

VQ4

VQ5

VQZ

VQD

VFS

VS

VS7

VQ7