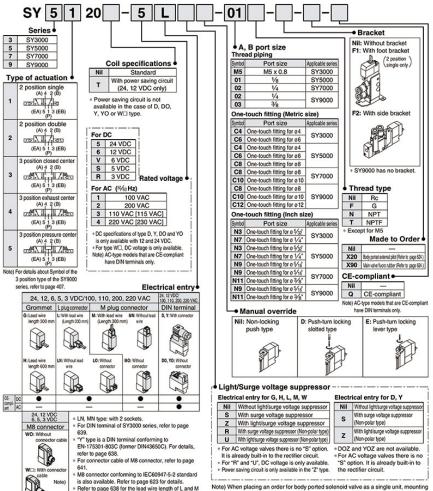
5 Port Solenoid Valve **Body Ported/Single Unit**

Note) AC-type models that are CE-compliant have DIN terminals only

SY3000/5000/7000/9000 Series

How to Order



Body Ported SY3000/5000/7000/9000 Series

Specifications



Made to Order

Series		SY3000	SY5000	SY7000	SY9000	
Fluid			A	\ir		
Internal pilot	2 position single	0.15 to 0.7				
Operating pressure range (MPa)	2 position double	0.1 to 0.7				
	3 position	0.2 to 0.7				
Ambient and fluid temperature (°C)		-10 to 50 (No freezing)				
Max. operating frequency (Hz)	2 position single, double	10	5	5	5	
	3 position	3	3	3	3	
Manual override (Manual operation)		Non-locking push type, Push-turn locking slotted type, Push-turn locking lever type				
Pilot exhaust method		Common exhaust type for main and pilot valve				
Lubrication		Not required				
Mounting orientation		Unrestricted				
Impact/Vibration resistance (m/s²) Note)		150/30				
Enclosure		Dust proof (* DIN terminal and M8 connector: IP65				

Note) Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

For details, refer to pages 616 to 628.)

Solenoid Specifications

Electrical entry		Grommet (G), (H) L plug connector (L) M plug connector (M)	DIN terminal (D), (Y) M8 connector (W)		
		G, H, L, M, W	D, Y		
Coil rated	DC		24, 12, 6, 5, 3	24, 12	
voltage (V)		AC 50/60 Hz	100, 110, 200, 220		
Allowable voltage fluctuation		±10% of rated voltage *			
Power consumption (W)		Standard	0.35 (With indicator light: 0.4 DIN to	erminal with indicator light: 0.45	
	DC	With power saving circuit	0.1 (With indicator light only) * [Starting 0.4, Holding 0.1]		
Apparent power (VA) *	AC	100 V	0.78 (With indicator light: 0.81)	0.78 (With indicator light: 0.87)	
		110 V [115 V]	0.86 (With indicator light: 0.89) [0.94 (With indicator light: 0.97)] [0.94 (With indicator light: 0.97)]		
		200 V	1.18 (With indicator light: 1.22)	1.15 (With indicator light: 1.30)	
		220 V [230 V]	1.30 (With indicator light: 1.34) [1.42 (With indicator light: 1.46)] [1.27 (With indicator light: 1.46) 1.39 (With indicator light: 1.60)]	
Surge voltage suppressor		Diode (Varistor is for DIN terminal and Non-polar type.)			
Indicator light			LED (AC of DIN connector is neon light.)		

- In common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.
 For 115 VAC and 230 VAC, the allowable voltage is -15% to +5% of rated voltage.
- DIN terminal and M8 connector with power saving circuit are not available.
- For details, refer to page 636

Response Time

Note) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage)

SY3000

_	Response time (ms) (at the pressure of 0.5 MPa)			
Type of actuation	Without light/surge voltage suppressor	With light/surge voltage suppress		
		Type S, Z	Type R, U	
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

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)			
	Without light/surge voltage suppressor	With light/surge voltage suppresso		
		Type S, Z	Type R, U	
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

	Response time (ms) (at the pressure of 0.5 MPa)			
Type of actuation	Without light/surge voltage suppressor	With light/surge voltage suppressor		
		Type S, Z	Type R, U	
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

Type of	Response time (ms) (at the pressure of 0.5 MPa)			
	Without light/surge	With light/surge voltage suppresso		
actuation	voltage suppressor	Type S, Z	Type R, U	
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	

screw for manifold and gasket are not attached. Order them separately, if necessary. (For details, refer to page 467.)

SIVIC

plug connectors.

A 404

Refer to page 639 for the connector assembly with cover for L and M plug connectors. te) Enter the cable length symbols in

. Please be sure to fill in the blank referring to page 642.

SY

S0700