

# Series SX3000/5000/7000 Base Mounted Valve Single Unit

## How to Order

SX 5 2 40 5 N L

### Series

3	SX3000
5	SX5000
7	SX7000

### Type of actuation

1	2 position single 
2	2 position double 
3	3 position closed center 
4	3 position exhaust center 
5	3 position pressure center 

### Pilot type

Nil	Internal pilot
R	External pilot

### Rated voltage

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

### Common specifications

Nil	Positive common
N	Negative common



Note) Put nothing for single grommet style and single without indicator light and surge voltage suppressor.

### Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

### Port size

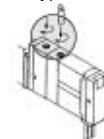
Symbol	Port size	Applicable series
Nil	Without sub-plate	
01	1/8 With sub-plate	SX3000
02	1/4 With sub-plate	SX5000 SX7000
03	3/8 With sub-plate	SX7000

### Manual override

Nil: Non-locking push type



D: Push-turn locking slotted type



### Light/Surge voltage suppressor

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor

### Electrical entry

Grommet	L plug connector	M plug connector	
<b>G:</b> Lead wire length 300 mm 	<b>L:</b> With lead wire (Length 300 mm) 	<b>M:</b> With lead wire (Length 300 mm) 	<b>MN:</b> Without lead wire 
<b>H:</b> Lead wire length 600 mm 	<b>LN:</b> Without lead wire 	<b>LO:</b> Without connector 	<b>MO:</b> Without connector 



\* The LN or MN option includes 2 sockets for single solenoid valves and 3 sockets for double solenoid valves.

## Specifications



**Made to Order Specifications**  
(For details, refer to pages  
1-6-124 to 1-6-138.)

Series			SX3000	SX5000	SX7000
Fluid			Air		
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		
External pilot Operating pressure range (MPa)	Operating pressure range		-100 kPa to 0.7		
	Pilot pressure range	2 position single	0.25 to 0.7		
		2 position double	0.25 to 0.7		
		3 position	0.25 to 0.7		
Ambient and fluid temperature (°C)			Max. 50		
Max. operating frequency (Hz)	2 position single, double		10	5	5
	3 position		3	3	3
Manual override			Non-locking push type, Push-turn locking slotted type		
Pilot exhaust method	Internal pilot		Common exhaust type for main and pilot valve		
	External pilot		Pilot valve individual exhaust		
Lubrication			Not required		
Mounting orientation			Unrestricted		
Impact/Vibration resistance (m/s <sup>2</sup> ) <sup>(Note)</sup>			150/30		
Enclosure			Dusttight		



Note) Impact resistance: No malfunction occurred when it is tested with a drop tester 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)

## Solenoid Specifications

Electrical entry		Grommet (G)/(H), L plug connector (L), M plug connector (M)
Coil rated voltage (V)	DC	24, 12, 6, 5, 3
Allowable voltage fluctuation		±10% of rated voltage
Power consumption (W)	DC	0.6 (With indicator light: 0.65)
Surge voltage suppressor		Diode
Indicator light		LED

## Response Time



Note) Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage)

## SX3000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)	
	Without light/surge voltage suppressor	With light/surge voltage suppressor
2 position single	12 or less	15 or less
2 position double	10 or less	13 or less
3 position	15 or less	20 or less

## SX5000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)	
	Without light/surge voltage suppressor	With light/surge voltage suppressor
2 position single	19 or less	26 or less
2 position double	18 or less	22 or less
3 position	32 or less	38 or less

## SX7000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)	
	Without light/surge voltage suppressor	With light/surge voltage suppressor
2 position single	31 or less	38 or less
2 position double	27 or less	30 or less
3 position	50 or less	56 or less