Series SX3000/5000/7000



Specifications

•					
Series		SX3000	SX5000	SX7000	
Fluid		Air			
Internal pilot	2 position single		0.15 to 0.7		
Operating pressure range	2 position double		0.1 to 0.7		
(MPa)	3 position	0.2 to 0.7			
Ambient and fluid temp	perature (°C)		Max. 50		
Max. operating	2 position single, double	10	5	5	
frequency (Hz)	3 position	3	3	3	
Manual override		Non-locking push type, Push-turn locking slotted 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		Dusttight			
140 000 E.S.					

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)

SYJ

SV

SZ



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

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 fluctu	ation	±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

	Response time (ms) (at the pressure of 0.5 MPa)	
Type of actuation		With light/surge voltage suppressor
	voltage suppressor	S, Z type
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

	Response time (ms) (at the pressure of 0.5 MPa)	
Type of actuation		With light/surge voltage suppressor
	voltage suppressor	S, Z type
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

	Response time (ms) (at the pressure of 0.5 MPa)	
Type of actuation		With light/surge voltage suppressor
	voltage suppressor	S, Z type
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



SV

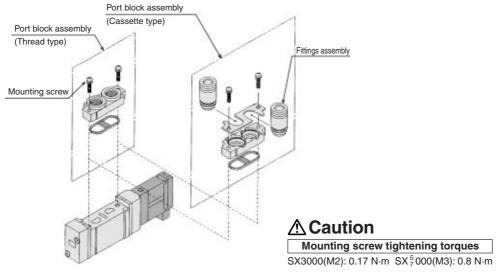
SZ

SYJ

How to Change Port Block Assembly

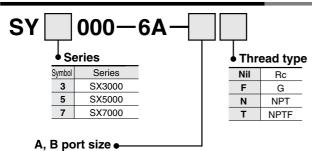
The cylinder port block assembly can easily be changed. When changing block assembly, correct screw torque must be achieved. Cut off the air supply to confirm that no air is left in the manifold before starting operation. Remaining air or inappropriate installation may cause an accident.

For SX5000



* Refer to "How to Order Port Block Assembly" below for parts no.

How to Order Port Block Assembly



Thread piping

Symbol	Port size	Applicable series
M5	M5 x 0.8	SX3000
01	1/8	SX5000
02	1/4	SX7000

One-touch fitting (Metric size)

<u> </u>		
Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	CV2000
C6	One-touch fitting for ø6	SX3000
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	SX5000
C8	One-touch fitting for ø8	
C8	One-touch fitting for ø8	0.77000
C10	One-touch fitting for ø10	SX7000

One-touch fitting (Inch size)

	,
Port size	Applicable series
One-touch fitting for ø5/32"	CV2000
One-touch fitting for ø1/4"	SX3000
One-touch fitting for ø5/32"	
One-touch fitting for ø1/4"	SX5000
One-touch fitting for ø5/16"	
One-touch fitting for ø5/16"	SX7000
One-touch fitting for ø3/8"	5A/000
	Port size One-touch fitting for ø5/32" One-touch fitting for ø1/4" One-touch fitting for ø5/32" One-touch fitting for ø1/4" One-touch fitting for ø5/16" One-touch fitting for ø5/16"

* Only replacement of the fittings assembly is possible.

Metric size

SX3000	One-touch fitting for ø4	VVQ1000-50A-C4
	One-touch fitting for ø6	VVQ1000-50A-C6
SX5000	One-touch fitting for ø4	VVQ1000-51A-C4
	One-touch fitting for ø6	VVQ1000-51A-C6
	One-touch fitting for ø8	VVQ1000-51A-C8
SX7000	One-touch fitting for ø8	VVQ2000-51A-C8
	One-touch fitting for ø10	VVQ2000-51A-C10

Inch size

CVCCCC	One-touch fitting for ø5/32"	VVQ1000-50A-N3
SX3000	One-touch fitting for ø1/4"	VVQ1000-50A-N7
	One-touch fitting for ø5/32"	VVQ1000-51A-N3
SX5000	One-touch fitting for ø1/4"	VVQ1000-50A-N7
	One-touch fitting for ø5/16"	VVQ1000-50A-N9
SX7000	One-touch fitting for ø5/16"	VVQ2000-51A-N9
	One-touch fitting for ø3/8"	VVQ2000-51A-N11

