



Specifications

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		
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		Common exhaust type for main and pilot valve		
Lubrication		Not required		
Mounting orientation		Unrestricted		
Impact/Vibration resistance (m/s ²) ^(Note)		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)

SV

SZ

SY

SYJ

SX



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 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
		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

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

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

Series SX3000/5000

Base Mounted Manifold

Stacking Type DIN Rail Mounted

Plug-in

How to Order Manifold

Type 45F (D-sub connector, 25 pins type)

SS5X 3-45 F D-05 U-C4

Series

3	SX3000
5	SX5000

Common specifications

Nil	Positive common
N	Negative common

Connector mounting position

Symbol	Mounting position
U	U side
D	D side

Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring specifications ⁽¹⁾
:	:	
10	10 stations	Available up to 20 solenoids. Specify the wiring specifications on the manifold specification sheet.
02	2 stations	
:	:	
20	20 stations	

• This also includes the number of blanking plate assembly.

Note 1) Double wiring specifications: Single, double and 3 position solenoid valves can be used on all manifold stations.

Note 2) Specified layout: Indicate wiring specifications on the manifold specification sheet. (Note that double and 3 position valves cannot be used where single solenoid wiring has been specified.)

SUP/EXH block assembly mounting position

Symbol	Mounting position	Stations
U	U side	2 to 10 stations
D	D side	2 to 10 stations
B	Both sides	2 to 20 stations
M	Special specifications	

* For special specifications, indicate separately by the manifold specification sheet.

A, B port size (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SX3000
C6	One-touch fitting for ø6	
M	Mixed	
C4	One-touch fitting for ø4	SX5000
C6	One-touch fitting for ø6	
C8	One-touch fitting for ø8	
M	Mixed	

(Inch size)

Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	SX3000
N7	One-touch fitting for ø1/4"	
M	Mixed	
N3	One-touch fitting for ø5/32"	SX5000
N7	One-touch fitting for ø1/4"	
N9	One-touch fitting for ø5/16"	
M	Mixed	

* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

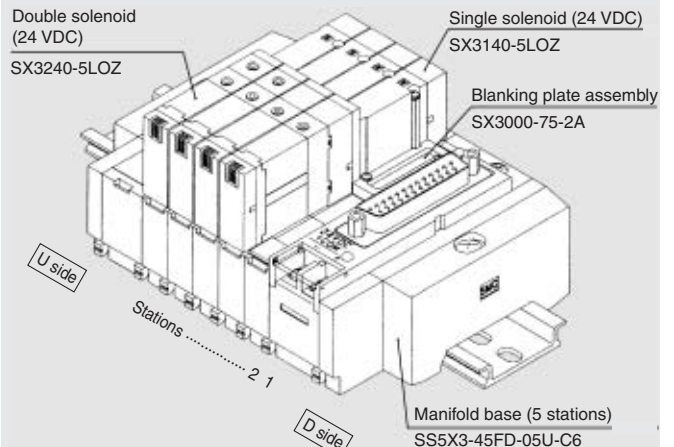
Voltage

Nil	24 VDC
12V	12 VDC

Option
When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)

How to Order Valve Manifold Assembly

Ordering example (Type 45F/D-sub connector (25 pins) type)



SS5X3-45FD-05U-C6 .. 1 set (Type 45F D-sub connector 5 stations manifold base no.)
*SX3000-75-2A 1 set (Blanking plate assembly part no.)
*SX3140-5LOZ 2 sets (Single solenoid part no.)
*SX3240-5LOZ 2 sets (Double solenoid part no.)

* The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

- They will be assembled in the order listed starting at the first station at the D side even if the connector box is located at either end. When ordering with the double wiring specification, specify it in order, beginning with the 1 station on the D side.
- When special wiring is required, use the manifold specification sheet.

How to Order Valves (Type 45F, 45P□, 45T, 45T1)

SX 3 2 40-5 LOZ

Series

3	SX3000
5	SX5000

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

Rated voltage

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

* Only Type 45T and 45T1 are available.

Common specifications

Nil	Positive common
N	Negative common

* Common specifications for the valve must correspond with common specifications for the manifold.

Manual override

Nil	Non-locking push type
D	Push-turn locking slotted type