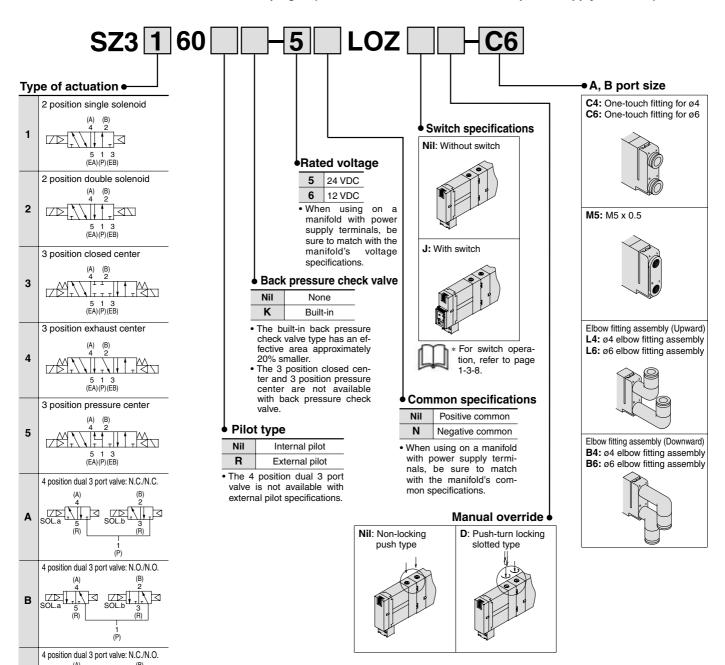
How to Order

● How to order solenoid valves For plug-in (Common for both with and without power supply terminals)



С

SOL.b

Solenoid Valve Specifications

	Series		SZ3000
Series			
Fluid			Air
Internal pilot	2 position single		0.15 to 0.7
operating	2 position double		0.1 to 0.7
pressure range (MPa)	3 position		0.2 to 0.7
(IVIPa)	4 position du	al 3 port valve	0.15 to 0.7
External pilot	Operating pressure range		-100 kPa to 0.7
operating	Pilot	2 position single	0.25 to 0.7
pressure range	pressure	2 position double	0.25 to 0.7
(MPa)	range	3 position	0.25 to 0.7
Ambient and fluid	temperature (°C)		-10 to 50 (No freezing. Refer to page 1-7-4.)
Max. operating frequency (Hz)	2 position single, double 4 position dual 3 port valve		10
,	3 position		3
Manual override (Manual operation)		ration)	Non-locking push type, Push-turn locking slotted type
Pilot type			Common exhaust type for main and pilot valve
Lubrication			Not required
Mounting orientation			Unrestricted
Impact/Vibration resistance m/s ^{2 Note)}			150/30
Enclosure			Dust-protected

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 denergized 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	L type (For plug-in), M type plug connector (M)	
Rated coil voltage (V) Note)	24, 12, 6, 5, 3 DC	
Allowable voltage fluctuation	±10% of rated voltage	
Power consumption (W)	0.6 (With light: 0.65)	
Surge voltage suppressor	Diode	
Indicator light	LED	

Note) Only 24 VDC and 12 VDC are available for plug-in use.

Response Time

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

· · · · ·	, , ,	, , ,	
	Response time (ms) (at the pressure of 0.5 MPa)		
Type of actuation	Without surge voltage	With surge voltage suppressor	
	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	
4 position dual 3 port valve	30 or less	35 or less	

Weight

	Type of actuation		Port size	\\\a:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Valve model	Турс	or actuation	4 (A), 2 (B)	Weight (g)
	0	Single		78
	2 position	Double	C4 One-touch fitting for Ø4	84
		Closed center		
SZ3□60-□-C4	3 position	Exhaust center		88
		Pressure center	(101 01)	
	4 position	Dual 3 port valve		84
	Opposition	Single		74
	2 position	Double	00	81
070-00 - 00	3 position	Closed center	C6 One-touch fitting for ø6	
SZ3□60-□-C6		Exhaust center		85
		Pressure center		
	4 position	Dual 3 port valve		81
	Omenition	Single		69
	2 position	Double		75
SZ3□60-□-M5	3 position	Closed center	M5 x 0.8	79
323 - 00 IVI3		Exhaust center		
		Pressure center		
	4 position	Dual 3 port valve		75

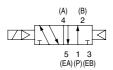


Series SZ3000

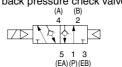
Construction

JIS Symbol

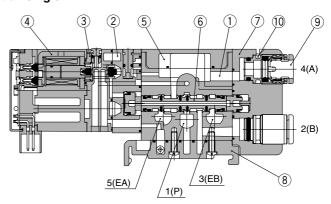
2 position single



2 position single with back pressure check valve

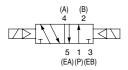


2 position single

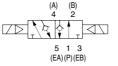


JIS Symbol

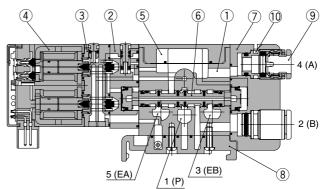
2 position double



2 position double with back pressure check valve

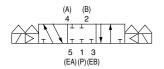


2 position double



JIS Symbol

3 position closed center



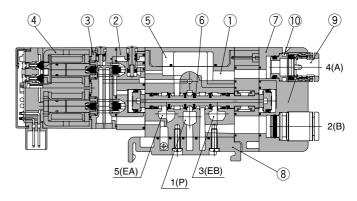
3 position exhaust center

3 position exhaust center with back pressure check valve

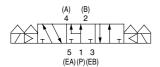




3 position closed center/exhaust center/pressure center



3 position pressure center



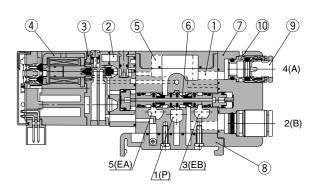
Component Parts

No.	Description	Material	Note
1	Body	Zinc die-casted	_
2	Adapter plate	Resin	Urban white
3	Pilot body	Resin	Urban white
4	Molded coil	_	Urban gray
(5)	Body cover	Resin	Urban white
6	Spool valve assembly	Aluminum/HNBR	_
7	Port block	Resin	Urban white
8	Bottom cover assembly	_	Urban white

Replacement Parts

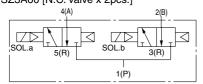
No.	Description	Part no.
9	One-touch fitting	Refer to One-touch fitting part number information on page 1-3-5.
10	Clip	SX3000-115-2

2 position single with back pressure check valve

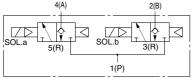


JIS Symbol

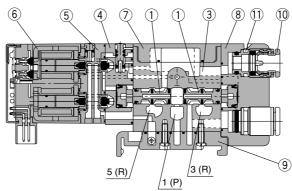
4 position dual 3 port valve SZ3A60 [N.C. valve x 2pcs.]



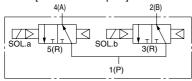
SZ3A60K/With back pressure check valve 4(A)



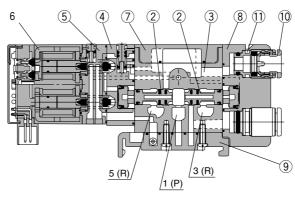
SZ3A60 [N.C. valve x 2 pcs.]

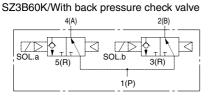


SZ3B60 [N.C. valve x 2 pcs.]

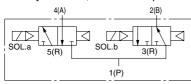


SZ3B60 [N.O. valve x 2 pcs.]

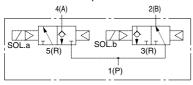




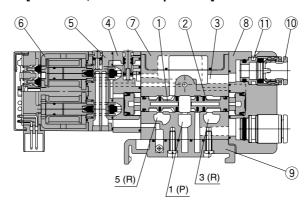
SZ3C60 [N.C. valve, N.O. valve 1 pc. each]



SZ3C60K/With back pressure check valve



SZ3C60 [N.C. valve, N.O. valve 1 pc. each]



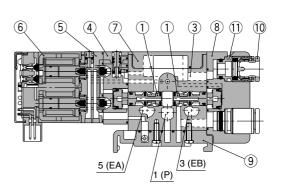
Component Parts

No.	Description	Material	Note
1	Spool valve assembly	Resin/HNBR	For N.C. (Normally closed)
2	Spool valve assembly	Resin/HNBR	For N.O. (Normally open)
3	Body	Zinc die-casted	_
4	Adapter plate	Resin	Urban white
(5)	Pilot body	Resin	Urban white
6	Molded coil	_	Urban gray
7	Body cover	Resin	Urban white
8	Port block	Resin	Urban white
9	Bottom cover assembly	_	Urban white
(7) (8)	Body cover Port block		Urban white Urban white

Replacement Parts

I	No.	Description	Part no.
Ξ	10	One-touch fitting	Refer to One-touch fitting part number information on page 1-3-5.
	11)	Clip	SX3000-115-2

SZ3A60K/With back pressure check valve





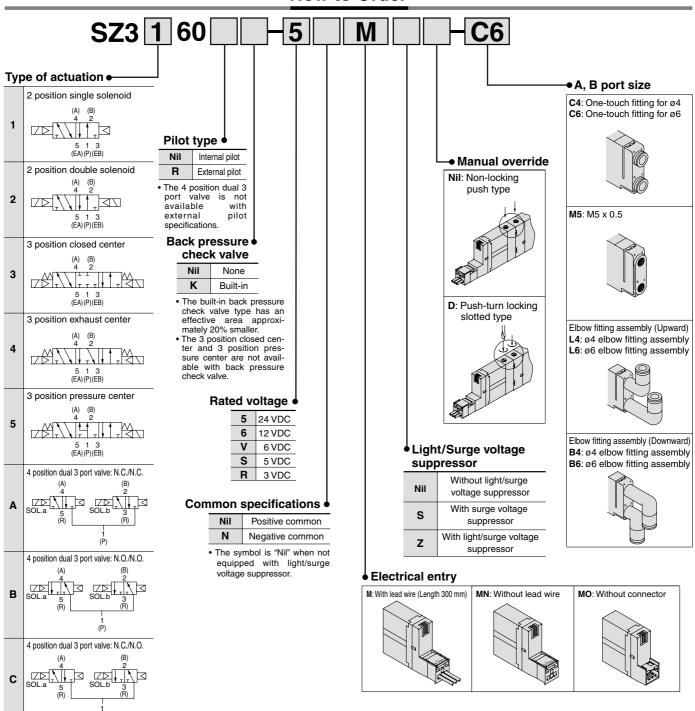
SV

SY

SYJ

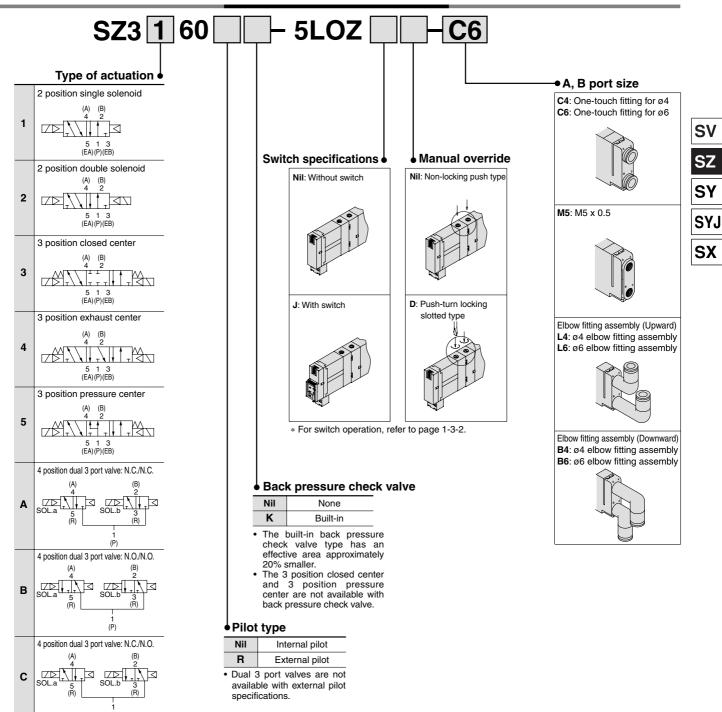
SX

How to Order



Cassette Type Manifold Serial Transmission Type Series SZ3000

How to Order Solenoid Valves





Series SZ3000

Made to Order Specifications:

Please contact SMC for detailed specifications, delivery and pricing.

Symbol

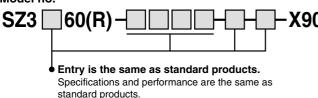
Main Valve Fluoro Rubber Specifications

-X90

Fluoro rubber is used for rubber parts of the main valve to allow use in applications such as the following.

- When using a lubricant other than the recommended turbine oil, and thereis a possibility of malfunction due to swelling of the spool valve seals.
- 2. When ozone enters or is generated in the air supply.

Model no

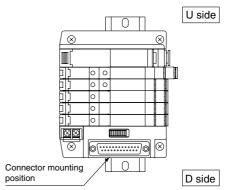


Note) Because in series -X90 fluoro rubber is used for only main valve, the rubber parts of the application/usage in conditions requiring heat resistance should be avoided.

Plug-in Manifold Connector and Serial Unit Mounted on Side U

Products are also available with the plug-in manifold connector mounting position and the serial unit mounting position on the reverse side (U side). For details about part numbers and wiring specifications, etc., please contact SMC.

Standard



Made-to-order

