5 Port Solenoid Valve

Plug Lead Type





Flow-rate characteristics

Single Unit

C [dm³/(s·bar)]: 0.6

Valve width: 7.4 mm

Possible to drive cylinders: Up to Ø 52 (300 mm/s)

Power consumption: 0.35 w

7.5 mm pitch

Manifold

Weight: 39

With One-touch fittings

Size can be changed. (For details, refer to page 27.)

Port size

Metric: ∅ 2, ∅ 3.2, ∅ 4 Inch: ∅ 1/8", ∅ 5/32"

Width:



- Added 3-position closed centre.
- · Direct EXH outlet with built-in silencer (Option)

With One-touch fittings Size can be changed. (For details, refer to page 27.)

Port size

Metric: Ø 2, Ø 3.2, Ø 4 Inch: Ø 1/8", Ø 5/32"

Added 3-position closed centre.

Pitch: 7.5 mm

Base Mounted

Flow-rate characteristics

C [dm³/(s·bar)]: 0.39

Possible to drive cylinders: Up to Ø 25 (300 mm/s)*

Power consumption: 0.35 w

Manifold

New Added 3-position closed centre.

Single Unit

Width 7.4 mm

7.5 mm pitch With barb fittings

Built-in silencer (Option) (For details, refer to page 20.)

> 8.5 mm pitch With One-touch fittings (Ø 2, Ø 3.2, Ø 4, Ø 1/8", Ø 5/32")

Serial transmission/EX510

Series S0700

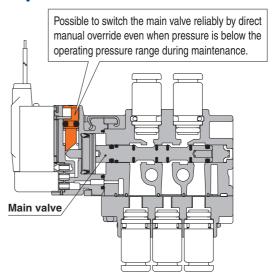


4-Position Dual 3-Port Valve

- · Two 3-port valves in one body.
- Independently operating 3-port valve at each side of A and B.
- Number of stations occupied for 3-port valve halved.
- Available as 4-position 5-port valve.

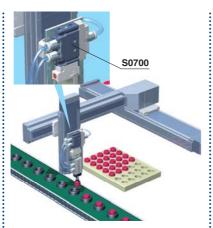
A side	B side	Sym	bol
		4(A)	2(B)
N.C.	N.C.	5(R1)	3(R2)
			(P)
		4(A)	2(B)
N.O.	N.O.	5(R1)	3(R2)
		1(P)
		4(A)	2(B)
N.C.	N.O.	5(R1)	3(R2)
		1	(P)

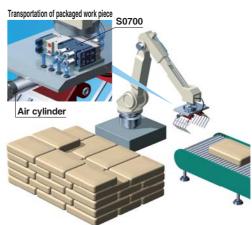
Adopted Direct Manual.



Applications







Plug-in Type Series Variations

For details, refer to the catalogue on SMC website **www.smc.eu**

Slim Compact Plug-in Manifold Bar Base

Footprint: Reduced by 4.5%*
Height: Reduced by 20 mm^*

* Compared with plug-in manifold stacking base



Plug-in Manifold Stacking Base

Many Combinations Available to Fit Your Needs

- · Serial transmission EX180/EX260/EX250
- EX600/EX500/EX510
- D-sub connectorFlat ribbon cable
- · PC wiring system compatible

flat ribbon cable

- · Terminal block box
- · Lead wire
- · Circular connector



Variations/Options

			Body Ported	Single Unit				
			Manifold pitch: 7.5 mm	Base M Manifold pitch: 8.5 mm	Manifold pitch: 7.5 mm	Body Ported	Base Mounted	
			Page 10	Page 15	Page 15	Page 7	Page 12	
	Base model		del					
			ME	SS0752-□□C	SS0755-□C□C	SS0755-□V□C	S07□6-5□-□-□	S07□5-5□-M5
			M5			•		•
			Rc1/8	•	•			
		1(P), 3(R)	Ø2				•	
S		0(11)	Ø 4				•	
Piping specifications			Ø 1/8"				•	
cifica	size		Ø 5/32"				•	
sbe	Port size		M3			•		
ping			M5		•	Note 1)		•
Ē		4(A),	Ø2	•	•		•	
		2(B)	Ø 3.2		•	Note 1)		
			Ø 4	•	•	Note 1)	•	
			Ø 1/8" Ø 5/32"	•	•		•	
	Тур	oe of wi		C Kit: Connector	C Kit: Connector S Kit: Serial transmission (EX510)	C Kit: Connector	Connector kit	Connector kit
Di		EXH ou t-in sile	tlet with ncer	_	_	_	Page 20	_
Bla	nkinç	g plate a	assembly	Page 20	Page 20	Page 20	_	_
	Ex	ternal p	oilot	Note 2) Page 20	Note 2) Page 20	Note 2) Page 20	Note 2) Page 20	Note 2) Page 20
Ind	dividu	ual SUF	spacer	_	Page 20	Page 20	_	_
Inc	Individual EXH spacer		l spacer	_	Page 21	Page 21	_	_
	Port plug		g	_	Page 21	_	_	_
	Bla	anking p	olug	Page 21	Page 21	_	Page 21	Page 21
(Fo		Silence nifold E	r XH port)	Page 21	Page 21	Page 21	_	_
	Double check block (Separated)			Page 22	Page 22	Page 22	Page 22	Page 22

Note 1) For barb fittings Note 2) Not compatible with dual 3-port valves.



INDEX

Valve Specifications	Page 4
Manifold/Single Unit Specifications	Page 5
Manifold Flow-rate Characteristics	Page 5
Cylinder Speed Chart	Page 6
Symbol	Page 6

Body Ported Bar Base



Single Unit	P	age	7
Manifold Individual Wiring C Kit	P	age 1	10

Base Mounted Bar Base



Single Unit	Page 12
Manifold Individual Wiring C Kit	Page 15
Serial Transmission S Kit	Page 18
Options	Page 20
Construction	Page 23
Replacement Parts	Page 25
Specific Product Precautions	Page 26



Series S0700 Valve Specifications

Valve Specifications

Model

Туре			T		Flow-rate ch				naracteristics				Note 2) Response	Note 3)
		Type of actuation	Model		→4/2 (F	P→A/B)		4/2→5/3 (A/B→R1/R2)			,	time	Weight	
					C [dm ³ /(s·bar)]	b	Cv	Q [I/min] ANR Note 6)	C [dm ³ /(s·bar)]	b	Cv	Q [I/min] ANR Note 6)	[msec]	[g]
		2-position	Single	S0716	0.62	0.44	0.18	174	0.60	0.41	0.17	164	22 or less	39
	Single Unit	2-po	Double	S0726	0.62	0.44	0.18	174	0.60	0.41	0.17	164	10 or less	47
	Page 7	3-pos.	3-position closed centre	S0736	0.54	0.37	0.15	144	0.50	0.38	0.14	134	45 or less	47
Body Ported		4-pos.	Dual 3-port valve	S07 ^A _C 6	0.58	0.39	0.16	157	0.67	0.37	0.18	178	25 or less	49
Body I		2-position	Single	S0712	0.51	0.40	0.15	139	0.64	0.33	0.15	166	22 or less	34
	Manifold	2-po	Double	S0722	0.51	0.40	0.15	139	0.64	0.33	0.15	166	10 or less	42
	Bar Base Page 10	3-pos.	3-position closed centre	S0732	0.54	0.37	0.10	144	0.46	0.38	0.08	123	45 or less	42
		4-pos.	Dual 3-port valve	S07 ^A _C 2	0.57	0.39	0.15	154	0.55	0.37	0.15	146	25 or less	44
Р	Single Unit	2-position	Single	S0715	0.39	0.39	0.11	105	0.37	0.39	0.10	100	12 or less	28
Mounted	Page 12	2-po	Double	S0725	0.39	0.39	0.11	105	0.37	0.39	0.10	100	10 or less	36
Base M	Manifold Bar Base	3-pos.	3-position closed centre	S0735	0.29	0.29	0.07	73	0.26	0.21	0.06	63	28 or less	38
Ш	Page 15	4-pos.	Dual 3-port valve	S07 ^A _C 5	0.34	0.34	0.09	89	0.33	0.33	0.08	86	12 or less	36

Note 1) Values for cylinder port fitting port size C4. The flow rate of a body ported single valve is the SUP and EXH port C4 value.

Note 2) Based on JIS B 8375-1993 (Supply pressure: 0.5 MPa, with indicator light and surge voltage suppressor, clean air. This will change depending on pressure and air quality.) The value when ON for the double type.

Note 3) The weight of a single unit of the valve includes a built-in EXH port silencer.

Note 4) The flow rate of the body ported product with an external pilot decreases by 10 %.

Note 5) The flow rate of the body ported product with a built-in silencer decreases by 30 %.

Note 6) These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with an inlet pressure of 0.6 MPa (relative pressure and a pressure drop of 0.1 MPa.

Specifications

Opco	ilications			
	Valve construction	Rubber seal		
	Fluid	Air/Inert gas		
	Maximum operating pressure	0.7 MPa		
Sü O	Minimum operating pressure	0.2 MPa		
äti	Ambient and fluid temperature	−10 to 50 °C Note 1)		
Valve specifications	Maximum operating cycle	5 Hz		
bed	Pilot valve exhaust method	Individual exhaust		
- S	Pilot valve manual override	Push type		
ak/	Lubrication	Not required		
_	Impact/Vibration resistance Note 2	30/100 m/s ²		
	Enclosure	IP40		
	Noise reduction (Built-in silencer)	20 dB(A) Note 3)		
_ su	Coil rated voltage	24 VDC		
zica zatica	Allowable voltage fluctuation	±10 % of rated voltage		
Electrical specifications	Coil insulation type	Class B or equivalent		
spe	Power consumption (Current) 24 VDC	DC 0.35 W (15 mA)		

Note 1) Use dry air to prevent condensation when operating at low temperatures.

Note 2) 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 energised and deenergised states every once for each condition.

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000 Hz. Test was performed at both energised and de-energised states in the axial direction and at the right angles to the main valve and armature.

Note 3) The value may vary depending on the pneumatic circuit or pressure.



Series **\$0700**

Manifold/Single Unit Specifications

			Piping spe	ecifications		Note 1)	Note 3)	Note 3)
		Model	Port		Type of connection	Applicable	5-station weight	Addition per station
			1(P), 3(R) 4(A), 2(B)			stations	[g]	[g]
Body Ported	Manifold pitch: 7.5 mm Page 10		Rc1/8	C2 (Ø 2) C4 (Ø 4) N1 (Ø 1/8") N3 (Ø 5/32")	C Kit: Connector	Max. 20 stations	76	10
	N	Manifold pitch: 8.5 mm Page 15	Rc1/8	M5 thread C2 (Ø 2) C3 (Ø 3.2)	C Kit: Connector	Max. 20 stations	115	20
ounted		SS0755-□C□C	NC 170	C4 (Ø 4) N1 (Ø 1/8") N3 (Ø 5/32")	S Kit: Serial transmission (EX510)	Max. 16 stations	Note 2) 115	20
Base Mounted	N	Anifold pitch: 7.5 mm Page 15 SS0755-□V□C	M5 thread	M3 (M3 thread) V2 (Ø 2 Barb fitting) V3 (Ø 3.2 Barb fitting) V4 (Ø 5 Barb fitting)	C Kit: Connector	Max. 20 stations	75	10
Unit	Body Ported	Page 7 S07 6-5	C2 (Ø 2) C4 (Ø 4) N1 (Ø 1/8") N3 (Ø 5/32")	C2 (Ø 2) C4 (Ø 4) N1 (Ø 1/8") N3 (Ø 5/32")	Connector kit	_	_	_
Single Unit	Base Mounted	Page 12 M5 thread		M5 thread	Connector kit	_	14 N	lote 4)
		S07□5-5□-M5						

Manifold Flow-rate Characteristics

	Port size		Flow-rate characteristics				
Model			1→4/2 (P→A/B)	4/2→5/3 (A/B→EA/EB)		
Model	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm ³ /(s·bar)]	Cv	C [dm ³ /(s·bar)]	Cv	
SS0752-□□C	1/8	C4	2.6	0.71	2.7	0.75	
SS0755-□C□C	1/8	C4	2.1	0.58	1.9	0.53	
SS0755-□V□C	M5 thread	V4	0.86	0.24	0.86	0.24	

^{*} When 5-station single solenoids are operated simultaneously.



Note 1) Maximum stations in the case of mixed single and double wiring (special wiring specifications)

Note 2) Differs depending on the serial unit type. For details, refer to the catalogue on SMC website **www.smc.eu**.

Note 3) Weight excluding valve. For valve weight, refer to page 4.

Note 4) Weight of sub-plate only. For valve weight, refer to page 4.

Cylinder Speed Chart

Applicable cylinder	Time								
speed	Туре	Ø 6	Ø 10	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50
100 .	Body Ported								
100 mm/s or less	Base Mounted								
000	Body Ported								
300 mm/s or less	Base Mounted								
500 mm/s or less	Body Ported								
	Base Mounted								

[Common conditions]

- Pressure: 0.5 MPa
- Piping length: 1 m
 Load ratio: 50 %
- Stroke: 200 mm

Use as a guide for selection.
 Please confirm the actual conditions with SMC Model Selection Software.

Symbol

Model	Type of actuation	Symbol
S0712 S0716 S0715	2-position single	(A)(B) 4 2 (R1)5 1 3(R2) (P)
\$0722 \$0726 \$0725	2-position double	(A)(B) 4 2 (R1)5 1 3(R2) (P)
\$0732 \$0736 \$0735	3-position closed centre	(A)4 2(B) (B) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S07A2 S07A6 S07A5	4-position dual 3-port N.C. + N.C. (Exhaust centre)	4(A) 2(B) 5(R1) 3(R2)
S07B2 S07B6 S07B5	4-position dual 3-port N.O. + N.O. (Pressure centre)	4(A) 2(B) 5(R1) 3(R2)
S07C2 S07C6 S07C5	4-position dual 3-port N.C. + N.O.	4(A) 2(B) 5(R1) 3(R2)



Plug Lead Type **Body Ported** Single Unit Series **\$0700**





How to Order Valves



Type of actuation

Symbol	Specifications
1	2-position single
2	2-position double
3	3-position closed centre
Α	4-position dual 3-port (N.C. + N.C.) (Exhaust centre)
В	4-position dual 3-port (N.O. + N.O.) (Pressure centre)
С	4-position dual 3-port (N.C. + N.O.)

Body Ported

Note) It cannot be mounted on a manifold.

Function •

		1 dilotions
Symbol	Туре	
_	EXH port: With One-touch fitting	
S	EXH outlet: With built-in silencer Note 1)	
R	External pilot Note 2)	

Note 1) Refer to page 20.

Note 2) Not compatible with dual 3-port valves.

Symbol	Port size					
C2	Ø 2 One-touch fitting					
C4	Ø 4 One-touch fitting					
N1	Ø 1/8" One-touch fitting					
N3	Ø 5/32" One-touch fitting					

P, E port/A, B port size

Note) For external pilots, the P, E, and X ports are size M3. (Refer to page 9.)

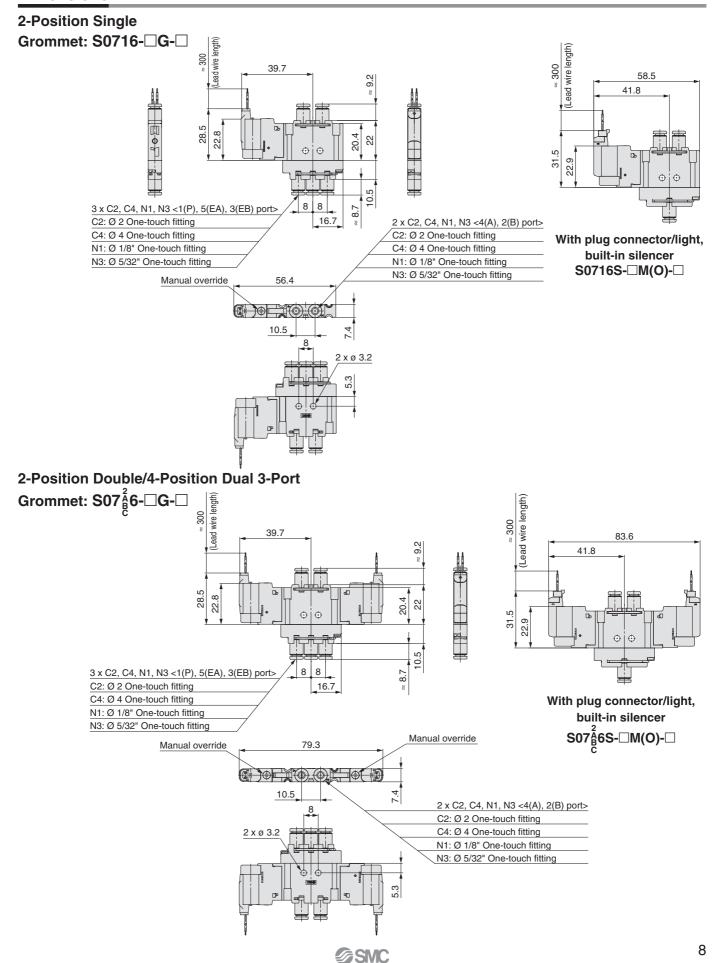
Electrical entry									
Symbol	Specifications	Configuration							
G	Grommet								
М	M-type plug connector, with 300 mm lead wire (With light/surge voltage suppressor)								
МО	M-type plug connector, without lead wire (With light/surge voltage suppressor)								

Voltage •

Symbol	Type
5	24 VDC
6	12 VDC

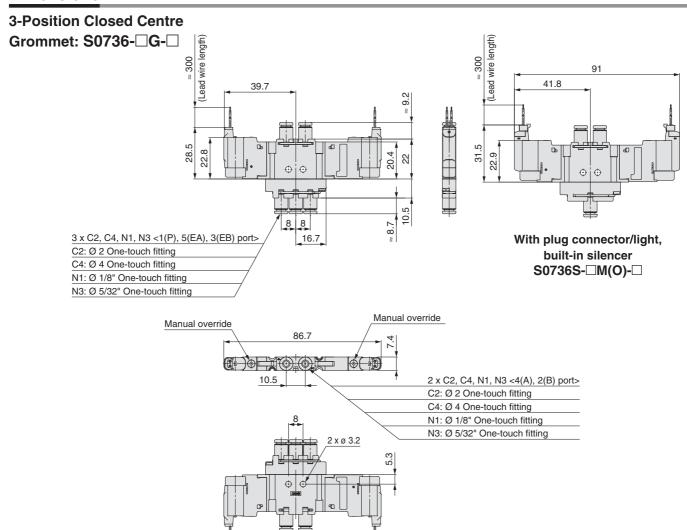


Dimensions

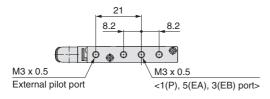


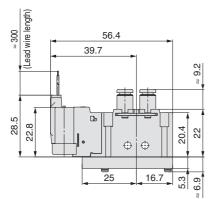
Series **\$0700**

Dimensions

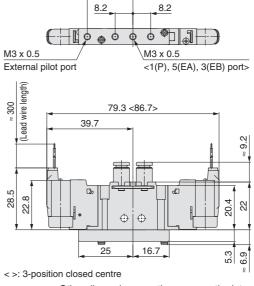


External Pilot 2-Position Single Grommet (G): S0716R-□G-□-□





2-Position Double/3-Position Closed Centre Grommet (G): S07²₃6R-□G-□-□



 \ast Other dimensions are the same as the internal pilot.

Plug Lead Type

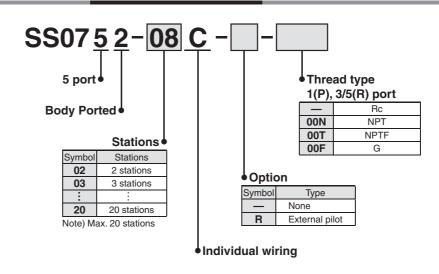
Body Ported Manifold Bar Base

Individual Wiring: C Kit

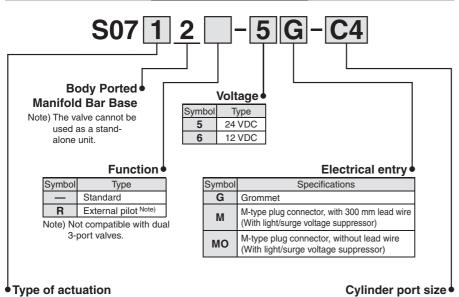
Series **\$0700**



How to Order Manifold



How to Order Valves



.,,,,,	· Type of actuation								
Symbol	Specifications								
1	2-position single								
2	2-position double								
3	3-position closed centre								
Α	4-position dual 3-port (N.C. + N.C.) (Exhaust centre)								
В	4-position dual 3-port (N.O. + N.O.) (Pressure centre)								
С	4-position dual 3-port (N.C. + N.O.)								

How to Order Manifold Assembly

Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

•	
Connector	kit

SS0752-08C · · · · · · 1 set-Manifold base part no.

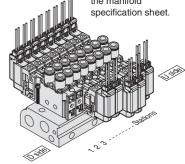
* S0712-5G-C4 ······2 sets-Valve part no. (Stations 1 to 2) * S0722-5G-C4 ······2 sets-Valve part no. (Stations 3 to 4)

* S0732-5G-C4 ······ 2 sets-Valve part no. (Stations 5 to 6)
**S07A2-5G-C4 ····· 2 sets-Valve part no. (Stations 7 to 8)

Prefix the asterisk to the part numbers of the solenoid valve etc.

the 1st station on the D side. When part numbers written collectively are complicated, specify on the manifold

Write sequentially from



Port size

Ø 2 One-touch fitting

Ø 4 One-touch fitting

Ø 1/8" One-touch fitting

Ø 5/32" One-touch fitting

Symbol C2

C4

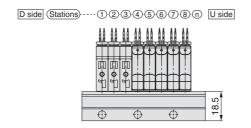
N1

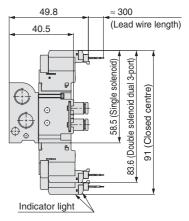
N3

Series S0700

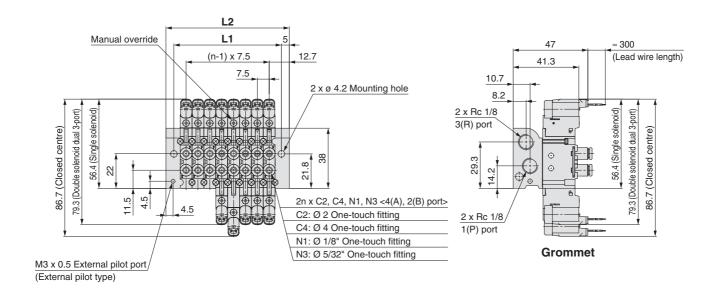
Dimensions

SS0752-□C



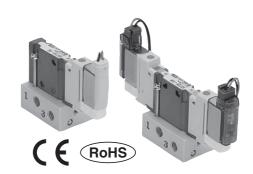


With plug connector/light

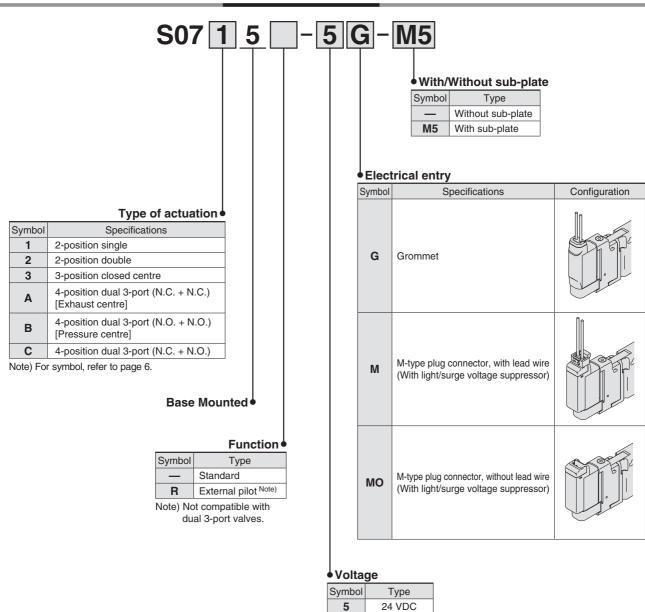


Di	Dimensions Formula L1 = $7.5n + 7.9$, L2 = $7.5n + 17.9$ n: Station (Maximum 20 stations) [r											[mm]									
L	n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	L1	15.4	22.9	30.4	37.9	45.4	52.9	60.4	67.9	75.4	82.9	90.4	97.9	105.4	112.9	120.4	127.9	135.4	142.9	150.4	157.9
	L2	25.4	32.9	40.4	47.9	55.4	62.9	70.4	77.9	85.4	92.9	100.4	107.9	115.4	122.9	130.4	137.9	145.4	152.9	160.4	167.9

Plug Lead Type Base Mounted Single Unit Series S0700



How to Order Valves

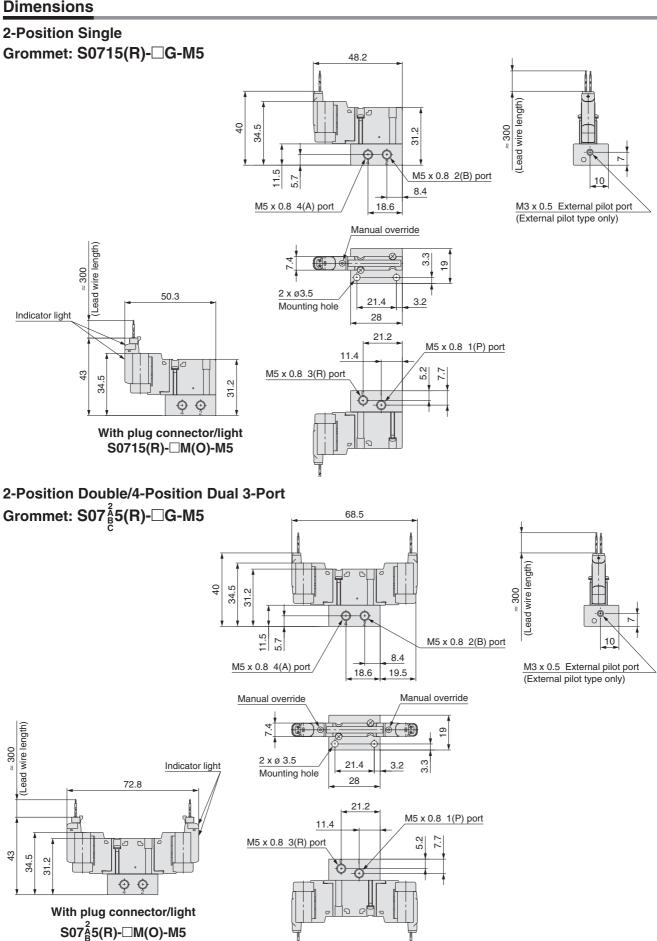


6

12 VDC

Series **\$0700**

Dimensions

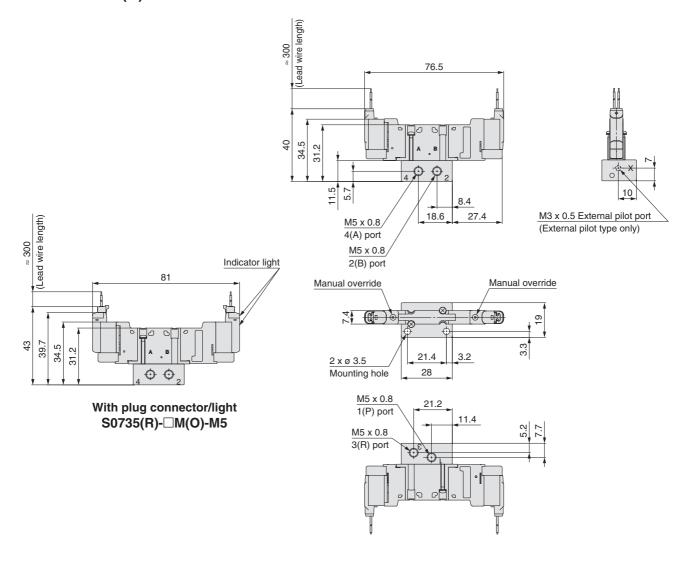


SMC

13

Dimensions

3-Position Closed Centre Grommet: S0735(R)-□G-M5



Plug Lead Type

Base Mounted Manifold Bar Base

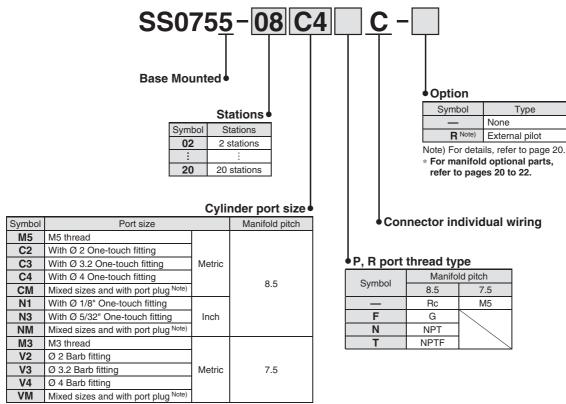
Individual Wiring: C Kit

Series **\$0700**



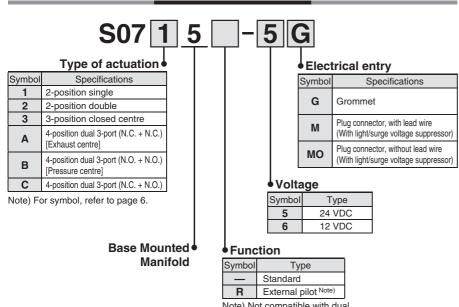


How to Order Manifold



Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet

How to Order Valves



Note) Not compatible with dual 3-port valves.

How to Order Manifold Assembly

Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

Connector kit

SS0755-07C4C ·· 1 set-Manifold base part no.

* S0715-5G ······ 3 sets-Valve part no. (Stations 1 to 3)

* S0725-5G ······ 2 sets-Valve part no. (Stations 4 to 5) * S07A5-5G · · · · · 2 sets-Valve part no. (Stations 6 to 7)

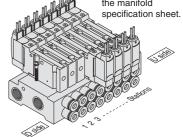
Prefix the asterisk to the part numbers of the solenoid

valve etc.

the 1st station on the D side. When part numbers written collectively are complicated, specify on

the manifold specification sheet.

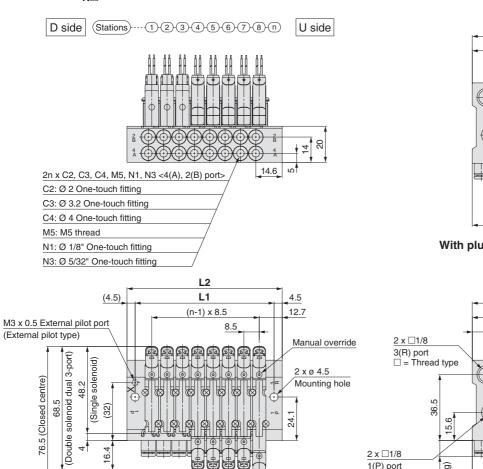
Write sequentially from

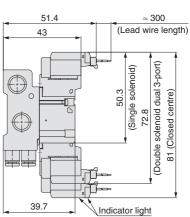




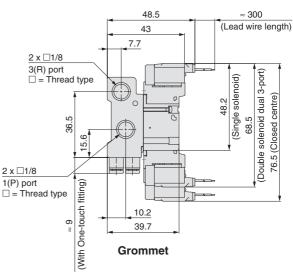
Dimensions

SS0755-□ N□





With plug connector/light

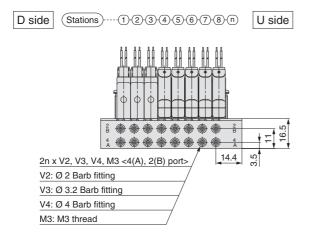


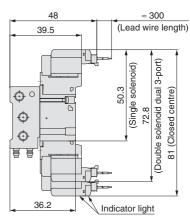
Dimen	mensions Formula L1 = $8.5n + 8.9$, L2 = $8.5n + 17.9$ n: Station (Maximum 20 stations) [mm]																		
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	25.9	34.4	42.9	51.4	59.9	68.4	76.9	85.4	93.9	102.4	110.9	119.4	127.9	136.4	144.9	153.4	161.9	170.4	178.9
12	34.9	43.4	51.9	60.4	68.9	77.4	85.9	94 4	102.9	111 4	1199	128 4	136.9	145.4	153.9	162 4	170.9	179 4	187 9

Series S0700

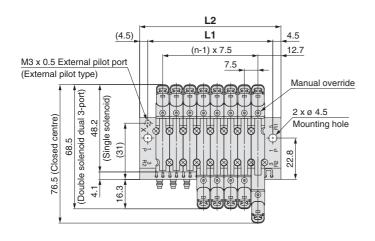
Dimensions

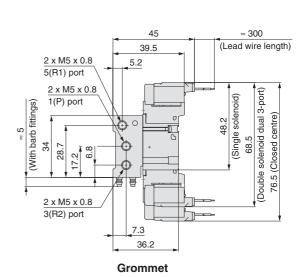
SS0755-□ M3





With plug connector/light





Dimensions Formula L1 = $7.5n + 8.9$, L2 = $7.5n + 17.9$ n: Station (Maximum 20 stations)											[mm]								
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	23.9	31.4	38.9	46.4	53.9	61.4	68.9	76.4	83.9	91.4	98.9	106.4	113.9	121.4	128.9	136.4	143.9	151.4	158.9
L2	32.9	40.4	47.9	55.4	62.9	70.4	77.9	85.4	92.9	100.4	107.9	115.4	122.9	130.4	137.9	145.4	152.9	160.4	167.9

Plug Lead Type

Base Mounted Manifold Bar Base

Serial Transmission: S Kit EX510 Gateway Type Serial Transmission System

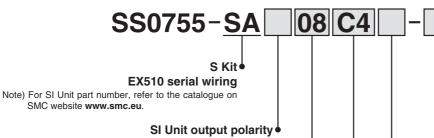
Series **\$0700**







How to Order Manifold



Positive common Negative common

Stations •

Symbol	Stations
02	2 stations
:	:
16	16 stations

Note) The maximum number of stations is determined by the total number of solenoids. For mixed single and double wirings, enter "-K" to the order code options.

Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
1 to 8 stations	16 stations	16

Type of actuation	Single	Double, Dual 3-port
Number of solenoids	1	2

Base Mounted

Manifold

For details of the EX510 Gateway Type Serial Transmission System, refer to the catalogue on SMC website www.smc.eu, and the Operation Manual on SMC website www.smc.eu.

Option

Symbol	Туре
_	None
K Note 2)	Special wiring specifications (Except double wiring)
R Note 3)	External pilot

Note 1) When multiple options are specified, indicate them alphabetically. Example) -KR

Note 2) Indicate the wiring specifications for mixed single and double wirings.

Note 3) For details, refer to page 20.

* For manifold optional parts, refer to pages 20 to 22.

P, R port thread type

Symbol	Manifold pitch
Symbol	8.5
_	Rc
F	G
N	NPT
Т	NPTF

• Cylinder port size				
Symbol	Port size			
M5	M5 thread			
C2	With Ø 2 One-touch fitting			
C3	With Ø 3.2 One-touch fitting	Metric		
C4 With Ø 4 One-touch fitting				
CM	Mixed sizes and with port plug Note)			
N1	With Ø 1/8" One-touch fitting			
N3	With Ø 5/32" One-touch fitting	Inch		
NM	Mixed sizes and with port plug Note)			

Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.

How to Order Valves

S07 1 Type of actuation Symbol Specifications Electrical entry 2-position single M-type plug connector, without lead wire 2-position double (With light/surge voltage suppressor) 3 3-position closed centre 4-position dual 3-port (N.C. + N.C.) [Exhaust centre] **♦ Voltage: 24 VDC** 4-position dual 3-port (N.O. + N.O.) В [Pressure centre] Function 4-position dual 3-port (N.C. + N.O.) C Symbol Note) For symbol, refer to page 6. Type Standard External pilot Note) Note) Not compatible with dual

3-port valves.

How to Order Manifold Assembly

Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

Serial transmission kit

SS0755-SA08C4-----1 set-Manifold base part no.

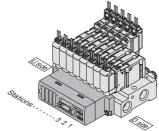
* S0715-5MO ······3 sets-Valve part no. (Stations 1 to 3)

* S0725-5MO ······3 sets-Valve part no. (Stations 4 to 6)

* S07A5-5MO······2 sets-Valve part no. (Stations 7 to 8)

Prefix the asterisk to the part numbers of the solenoid valve etc.

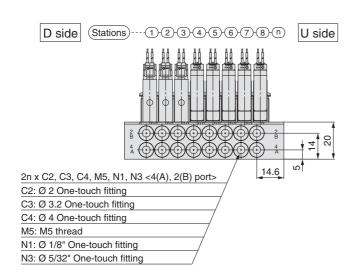
Write sequentially from the 1st station on the D side When part numbers written collectively are complicated, specify on the manifold specification sheet. The connector assembly lead wire length used for EX510 manifold varies depending on the number of stations Therefore, solenoid valves (including a blanking plate) and connector assembly are assembled when shipped as a standard specification. Specify the mounting solenoid valve when ordering.

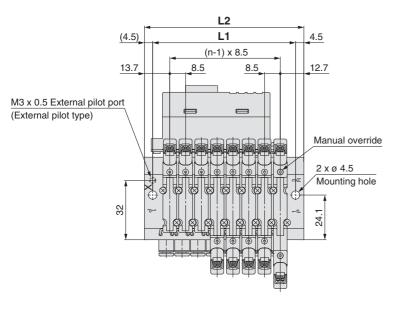


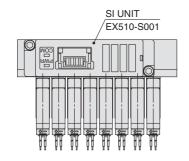
Series S0700

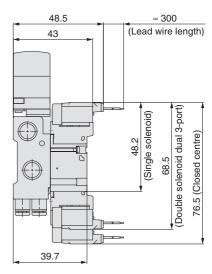
Dimensions

SS0755-SA \square $\stackrel{M5}{\stackrel{C}{\stackrel{C}{\tiny}}}$

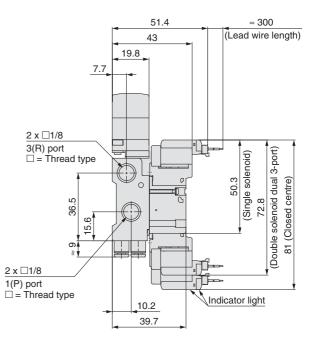








Grommet



With plug connector/light

Dimen	Dimensions n: Station (Maximum 16 stations)								[mm]						
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	68.4	68.4	68.4	68.4	68.4	68.4	76.9	85.4	93.9	102.4	110.9	119.4	127.9	136.4	144.9
12	77.4	77.4	77.4	77.4	77.4	77.4	85.9	94.4	102.9	111.4	119.9	128.4	136.9	145.4	153.9

Series S0700 Options



Direct EXH outlet with built-in silencer [S]

Since a silencer is built into the exhaust port of the valve, it has a high silencing effect. (Noise reduction: 20 dB(A))

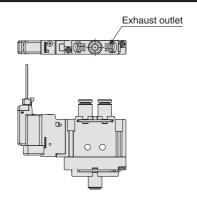
• How to Order Valves (Example)

S0716 S -5G-C4

Built-in silencer

Note) A large quantity of drainage generated in the air source results in exhaust of air together with drainage.

• For maintenance, refer to page 27.



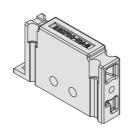


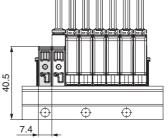
Blanking plate assembly

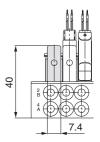
SS0700-10A-2/SS0700-10A-5

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve etc.

Applicable m	nanifold	Part no.	Weight
Body ported SS0752		SS0700-10A-2	28 g
Base mounted	SS0755	SS0700-10A-5	21 g







Body Ported (SS0752)

Base Mounted (SS0755)



External pilot [-R]

This can be used when the air pressure is lower than the minimum operating pressure (0.2 MPa) of the solenoid valves or used for vacuum specification. Add "-R" to the part numbers of manifolds and valves to indicate the external pilot specification.

An M3 port will be installed on the top side of the manifold's SUP/EXH block.

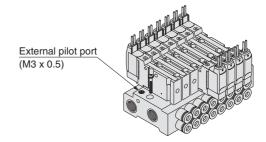
• How to Order Valves (Example)

S0712 R -5G-C4

External pilot

- How to Order Manifold (Example)
- * Indicate "-R" for an option.

SS0752-08C-R



- Note 1) The dual 3-port valve is not available.
- Note 2) When the internal pilot type and external pilot type of valves are mixed up on the manifold, order the manifold suitable for the specification of the external pilot valve.
- Note 3) Valves with the external pilot have a pilot EXH with individual exhaust specification and EXH can be pressurised. However, the pressure supplied from EXH should be 0.4 MPa or lower.



Individual SUP spacer

SS0700-P-5-M5

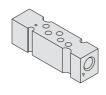
Port size

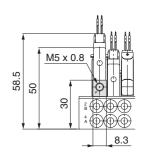
M5 M5 thread

Mounted on the manifold block to make an independent supply port when each solenoid valve uses different operating pressure.

Weight: 7 g

- * Compatible with 8.5 mm pitch manifold only.
- * Cannot be mounted on the body ported manifold (SS0752).





Series **\$0700**



Individual EXH spacer

SS0700-R-5-M5

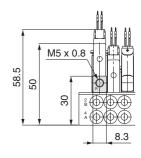
Port size
M5 M5 thread

Mounted on the manifold block to make an independent exhaust port when the exhaust from one valve affects valves on other stations in the air circuit.

Weight: 7 g

- * Compatible with 8.5 mm pitch manifold only.
- * Cannot be mounted on the body ported manifold (SS0752).





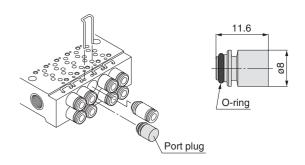


Port plug

VVQ0000-CP

The plug is used to block the cylinder port when using a 5-port valve as a 3-port valve.

* When ordering a plug incorporated with a manifold, indicate "CM" for the port size in the manifold part number as well as the station number, mounting positions of cylinder port A/B, on the manifold specification sheet.



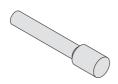


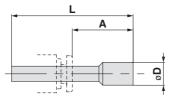


Blanking plug (For One-touch fittings)

KJP-02







Dimensions [mm]						
Applicable fitting size Ø d	Model	Α	L	D	Weight [g]	
2	KJP-02	8.2	17	3	0.1	
3.2	KQ2P-23	16	31.5	5	1	
4	KQ2P-04	16	32	6	1	



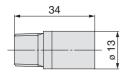


Silencer (For manifold EXH port)

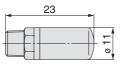


Silencer is installed in the EXH port.

AN110-01 (BC sintered body)



AN10-01 (Resin)







Double check block (Separated)

VQ1000-FPG-□□

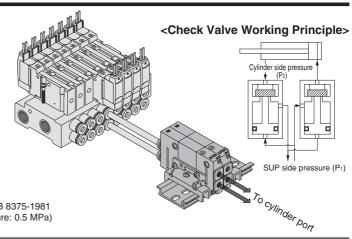
It is used on the outlet side piping to keep the cylinder in the intermediate position for long periods of time. Combining the double check block with a built-in pilot type double check valve and a 2-position single/double solenoid valve will permit this block to be used for preventing the dropping at the cylinder stroke end when the SUP residual pressure is released.

Specifications

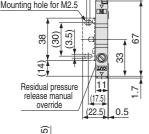
Max. operating pressure	0.8 MPa
Min. operating pressure	0.15 MPa
Ambient and fluid temperature	−5 to 50 °C
Flow-rate characteristics: C	0.60 dm3/(s·bar)
Max. operating frequency	180 c.p.m



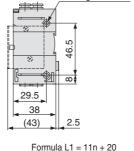
Manifold



Single Unit 2n x C3, C4, M5 C3: Ø 3.2 One-touch fitting assembly C4: Ø 4 One-touch fitting assembly M5: M5 thread Mounting hole for M2.5 Mounting hole for M2.5

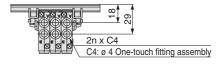






	I Official ET = TTTT 1 ZO									
Dimensions n: Station (Maximum 20 stations)						[mm]				
L_n	1	2	3	4	5	6	7	8	9	10
L1	31	42	53	64	75	86	97	108	119	130
L2	50	62.5	75	87.5	100	112.5	125	125	137.5	150
L3	60.5	73	85.5	98	110.5	123	135.5	135.5	148	160.5
Ln	11	12	13	14	15	16	17	18	19	20
L1	141	152	163	174	185	196	207	218	229	240
L2	162.5	175	187.5	187.5	200	212.5	225	237.5	250	250
L3	173	185.5	198	198	210.5	223	235.5	248	260.5	260.5

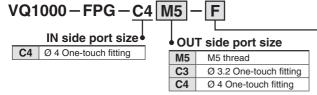
2n x C3, C4, M5 C3: Ø 3.2 One-touch fitting assembly C4: Ø 4 One-touch fitting assembly M5: M5 thread L3 L2 L1 15.5 P=11 Residual pressure release manual override D side Stations—1—2—3—n U side Clamping screw



How to Order

C4: ø 4 One-touch fitting assembly

Single unit, double check block



None
 D DIN rail mounting (For manifold)
 With bracket
 N With name plate

Note) When multiple symbols are specified, indicate them alphabetically.

Example) -DN

Manifold (DIN rail mounting) VVQ1000 — FPG — 06

When ordering a double check block, order the DIN rail mounting [-D].

)						
	Stations					
	01 1 station					
	:	:				
	16	16 stations				

<Example>

VVQ1000-FPG-06···6-station manifold

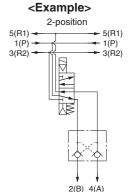
* VQ1000-FPG-C4M5-D: 6 sets Double check block

∆ Caution

Air leakage from the pipe between the valve and cylinder or from the fittings
will prevent the cylinder from stopping for long periods of time. Check for the
leakage using neutral household detergent, such as dish washing soap.
 Also, check the cylinder's tube gasket, piston seal and rod seal for air leakage.

Option

- Since One-touch fittings allow slight air leakage, screw piping (with M5 thread) is recommended when stopping the cylinder in the middle for long periods of time.
- M5 fitting assembly is attached, not incorporated into the double check block.
 After screwing in the M5 fittings, mount the assembly on the double check block.
 Tightening torque: 0.8 to 1.2 N·m
- If the exhaust of the double check block is restricted too much, the cylinder may not operate properly and may not stop intermediately.



Bracket Assembly

Part no.	Tightening torque
VQ1000- FPG-FB	0.22 to 0.25 N·m

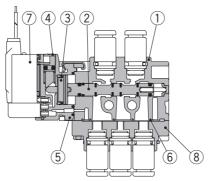
Note) This torque is used to mount the bracket on the double check block.

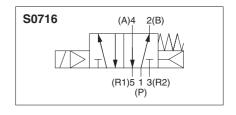


Series S0700 Construction

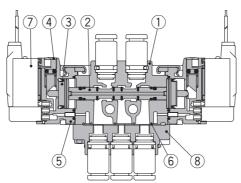


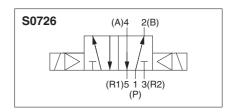
2-Position Single



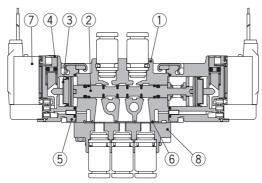


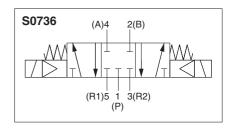
2-Position Double



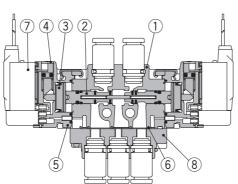


3-Position Closed Centre





4-Position **Dual 3-Port Valve**

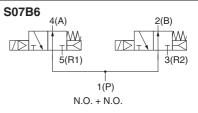


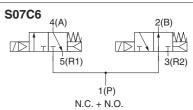
SMC

5(R1) 3(R2) 1(P) N.C. + N.C. S07B6

2(B)

S07A6 _{4(A)}





Component Parts

No.	Description	Material				
1	Body	Zinc die-casted				
2	Spool	Aluminium				
3	Piston	Resin				
4	Manual override	Resin				
5	Adapter plate	Resin				
6	Interface gasket	HNBR				
7	Pilot valve assembly	Refer to page 25.				
8	PR plate	Resin Note)				

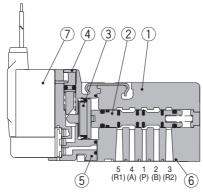
Note) The external pilot is made of aluminium. 23

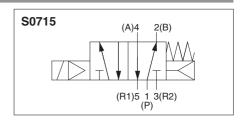
Construction Series \$0700



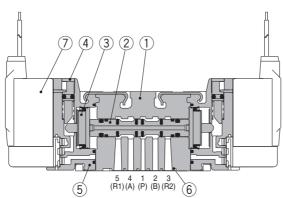
Construction

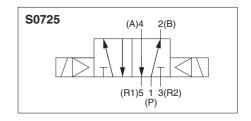
2-Position Single



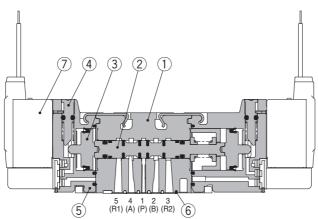


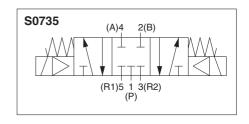
2-Position Double





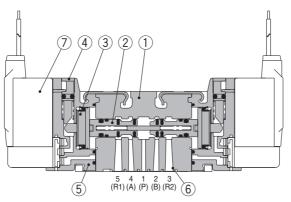
3-Position Closed Centre

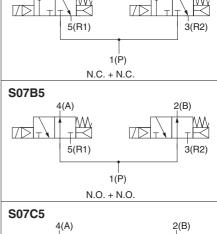




S07A5

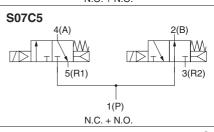
4-Position **Dual 3-Port Valve**





Component Parts

No.	Description	Material
1	Body	Zinc die-casted
2	Spool	Aluminium
3	Piston	Resin
4	Manual override	Resin
5	Adapter plate	Resin
6	Interface gasket	HNBR
7	Pilot valve assembly	Refer to page 25.



Series **S0700**

Replacement Parts

Ported



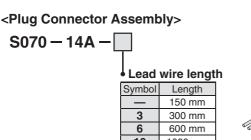
<One-touch Fitting Assembly (For Cylinder Port)>

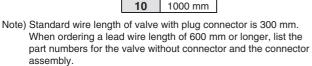
Applicable manifold			Port size		Part no.
	Body Ported	S07□6 SS0752	Ø 2 One-touch fitting		KJH02-C1
			Ø 4 One-touch fitting		KJH04-C1
			Ø 1/8" One-touch fitting		KJH01-C1
33.00			Ø 5/32" One-touch fitting		KJH03-C1
	Base Mounted SS07	000755	8.5 mm pitch	Ø 2 One-touch fitting	VVQ0000-50A-C2
, A A				Ø 3.2 One-touch fitting	VVQ0000-50A-C3
				Ø 4 One-touch fitting	VVQ0000-50A-C4
No Contract of the Contract of				Ø 1/8" One-touch fitting	VVQ0000-50A-N1
		330/33		Ø 5/32" One-touch fitting	VVQ0000-50A-N3
			7.5 mm pitch	Ø 2 Barb fitting	SS070-50A-20
				Ø 3.2 Barb fitting	SS070-50A-32
				Ø 4 Barb fitting	SS070-50A-40

Base

Body

Note) Purchasing order is available in units of 10 pieces.







			,
	Body ported	For internal pilot	S0700-GS-2
		For external pilot	S0700-GS-2R
	Base mounted		S0700-GS-5

Note) Above part number consists of 10 units. Each unit has one gasket and two screws.



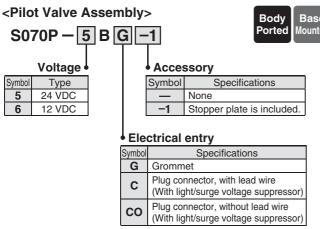


<Sub-plate>

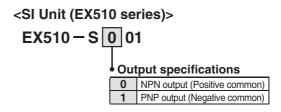
Part no.	Type		
S0700-S-M5	For internal pilot		
S0700-S-M5-R	For external pilot		

Mounted

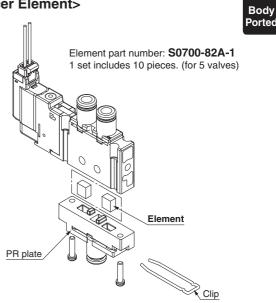
Mounted



Note) For pilot valve assembly replacement, refer to "Specific Product Precautions" on page 29.











Be sure to read this before handling. Refer to the back cover for Safety Instructions. For 3/4/5 Port Solenoid Valve Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on SMC website, http://www.smc.eu

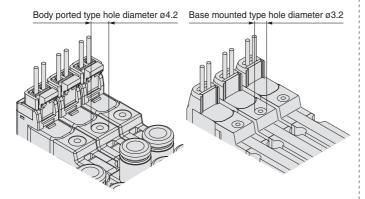
Manual Override

⚠ Warning

The manual override is used for switching the main valve.

Push type (Tool required)

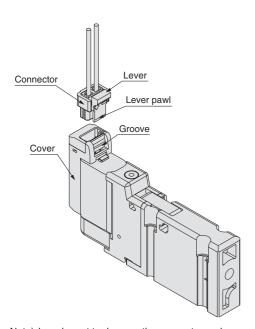
Push down on the manual override button with a tool such as a small screwdriver until it stops.



How to Attach/Detach Plug Connector

To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.

To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.



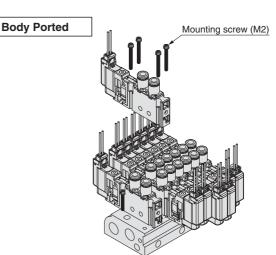
Note) In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 10 N or more).

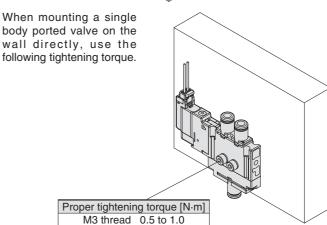
How to Mount Valve

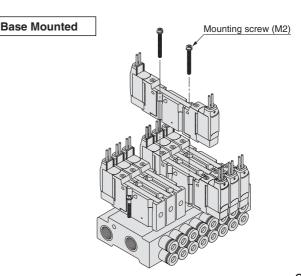
⚠ Caution

Tighten the bolts firmly to stop the gasket from coming away from the valve using the appropriate torque as shown on the following table.

Proper tightening torque [N·m] 0.17 to 0.23











Be sure to read this before handling. Refer to the back cover for Safety Instructions. For 3/4/5 Port Solenoid Valve Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on SMC website, http://www.smc.eu

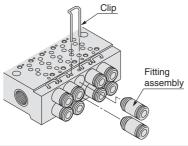
How to Replace One-touch Fittings

Marning

The cylinder port fittings are a cassette for easy replacement.

Base Mounted

The fittings are blocked by a clip inserted from the top of the valve. Remove the clip with a tool such as a flat blade screwdriver to remove fittings. For replacement, insert the fitting assembly until it strikes against the inside wall and then re-insert the clip to the specified position.

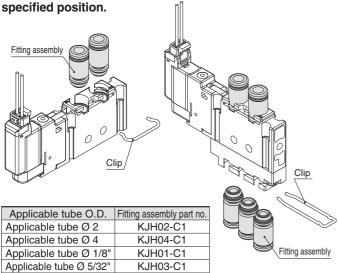


	Applicable tube O.D.	Fitting assembly part no.	
	Applicable tube Ø 2	VVQ0000-50A-C2	
8.5 mm pitch	Applicable tube Ø 3.2	VVQ0000-50A-C3	
(One-touch fitting)	Applicable tube Ø 4	VVQ0000-50A-C4	
	Applicable tube Ø 1/8"	VVQ0000-50A-N1	
	Applicable tube Ø 5/32"	VVQ0000-50A-N3	
7.5 mm pitch	Barb fitting Ø 2	SS070-50A-20	
	Barb fitting Ø 3.2	SS070-50A-32	
(Barb fitting)	Barb fitting Ø 4	SS070-50A-40	

^{*} Part number is for one fitting assembly. Please order it in units of 10 pieces.

Body Ported

The fittings are blocked by a clip. After removing the corresponding valve and take out the clip with a tool such as watchmakers' flat blade screwdriver, then replace the fittings. For mounting, insert the fitting until it strikes against the inside wall and then insert the clip to the specified position.



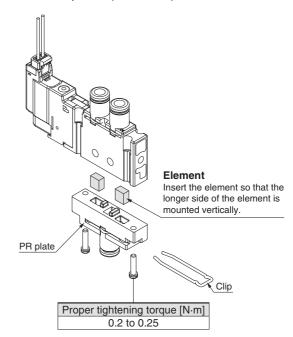
* Part number is for one fitting assembly. Please order it in units of 10 pieces.

How to Replace Silencers

A single body ported valve has a built-in silencer. A dirty and clogged silencer may reduce cylinder speed or cause a malfunction. Replace the silencer periodically.

To replace the silencer, remove the PR plate after removing the clip, and then remove the old element with a tool such as a flat blade screwdriver.

Element part number: **S0700-82A-1** 1 set includes 10 pieces. (for 5 valves)



Other Tube Brands

∧ Caution

When using other than SMC brand tube, confirm that the following specifications are satisfied with respect to the tube outside diameter tolerance.

1) Nylon tube within ± 0.1 mm 2) Soft nylon tube within ± 0.1 mm within ± 0.1 mm, within ± 0.1 mm, within ± 0.1 mm, within ± 0.1 mm

Do not use tube which do not meet these outside diameter tolerances. It may not be possible to connect them, or they may cause other trouble, such as air leakage or the tube pulling out after connection.





Be sure to read this before handling. Refer to the back cover for Safety Instructions. For 3/4/5 Port Solenoid Valve Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on SMC website, http://www.smc.eu

One-touch Fittings

Tube attachment/detachment for One-touch fittings

1) Tube attachment

- 1. Take a tube having no flaws on its periphery and cut it off at a right angle. When cutting the tube, use tube cutters TK-1, TK-2 or TK-3. Do not use pinchers, nippers or scissors, etc. If cutting is done with tools other than tube cutters, the tube may be cut diagonally or become flattened, etc., making a secure installation impossible. Allow some extra length in the tube.
- 2. The outside diameter of the polyurethane tube swells when internal pressure is applied to it. Therefore, it may be possible that the tube cannot be re-inserted into the One-touch fitting. Check the tube outside diameter, and when the accuracy of the outside diameter is +0.07 mm or larger for Ø 2, +0.15 mm or larger for other sizes, insert into the One-touch fitting again, without cutting the tube to use it. When the tube is reinserted into the One-touch fitting, confirm that the tube goes through the release button smoothly.
- Grasp the tube, slowly push it straight (0 to 5°) into the Onetouch fitting until it comes to a stop.
- 4. After inserting the tube, pull on it lightly to confirm that it will not come out. If it is not installed securely all the way into the fitting, this can cause problems such as air leakage or the tube pulling out.

2) Tube detachment

- 1. Push in the release button sufficiently, pushing its collar equally around the circumference.
- Pull out the tube while holding down the release button so that it does not come out. If the release button is not pressed down sufficiently, there will be increased bite on the tube and it will become more difficult to pull it out.
- 3. When the removed tube is to be used again, cut off the portion which has been chewed before reusing it. If the chewed portion of the tube is used as is, this can cause trouble such as air leakage or difficulty in removing the tube.

Do not apply unnecessary forces such as twisting, pulling, moment loads, vibration and impact, etc. on fittings or tubing.

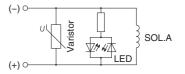
A force of 20 N or more applied to the fitting and/or tube can cause damage to the valve and/or fitting, crushing, bursting, or detachment of tubing, or air leakage.

Internal Wiring Specifications

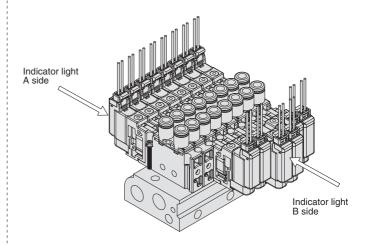
⚠ Caution

Light/surge voltage suppressor

No polarity by adopting non-polar light.



Note) Coil surge voltage generated when OFF is about –60 V. Please contact SMC separately for further suppression of the coil surge voltage.



Surge Voltage Intrusion

⚠ Caution

The surge voltage created when the power supply is cut off could apply to the de-energised load equipment through the output circuit. In cases where the energised load equipment has a larger capacity (power consumption) and is connected to the same power supply as the product, the surge voltage could malfunction and/or damage the internal circuit element of the product and the internal device of the output equipment. To avoid this situation, place a diode which can suppress the surge voltage between the COM lines of the load equipment and output equipment.





Be sure to read this before handling. Refer to the back cover for Safety Instructions. For 3/4/5 Port Solenoid Valve Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on SMC website, http://www.smc.eu

How to Replace Pilot Valve

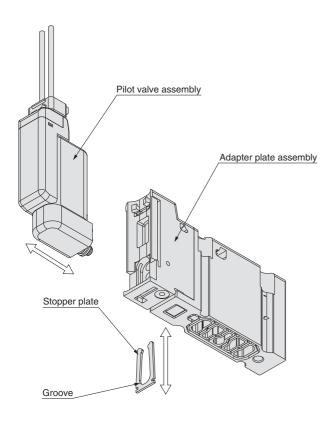
⚠ Caution

Removal

- Remove the stopper plate from the adapter plate assembly by using a flat blade screwdriver on the concave of the stopper plate.
- 2) Take off the pilot valve in horizontal direction.

Mounting

- 1) Mount the pilot valve on the adapter plate assembly.
- 2) Insert the stopper plate into the adapter plate so that the stopper plate will not protrude from the end of the adapter plate.

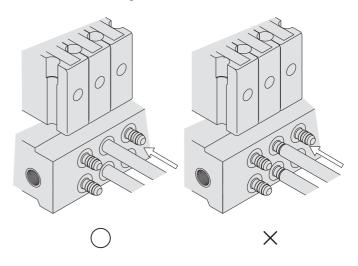


How to Connect Tubing

⚠ Caution

<Base mounted/Barb fittings>

- 1) Perpendicularly cut the tube to the necessary length by using an SMC tube cutter TK-1, TK-2, TK-3 or TK-6.
- 2) Firmly insert the tube into the barb fitting. Insufficient insertion of the tube could cause the air leakage and/or disconnection of the tube.
- 3) When inserting the tube into the barb fitting, move the tube in parallel to the axis of the barb fitting to avoid any excessive side load to the fitting.



- 4) Pay attention not to apply any excessive side load to the barb fitting when removing it from the tube. When using a tube cutter or something similar, be careful not to damage or crack the fitting.
- 5) Do not apply any excessive load such as tensile, compressive or bending force to the tube once connected.



⚠ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution indicates a hazard with a low level of risk **⚠** Caution: which, if not avoided, could result in minor or moderate

Warning indicates a hazard with a medium level of risk **⚠** Warning: which, if not avoided, could result in death or serious

injury.

Danger indicates a hazard with a high level of risk Danger: which, if not avoided, will result in death or serious injury.

*1) ISO 4414: Pneumatic fluid power - General rules relating to systems. ISO 4413: Hydraulic fluid power - General rules relating to systems. IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety

⚠ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- not service or attempt to remove product and machinery/equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
- 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, wichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular
 - *2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

∕∴Caution

1. The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary

If anything is unclear, contact your nearest sales branch.

∕∴Caution

SMC products are not intended for use as instruments for legal

metrology.Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.

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