

SC·SCE (COMPACT) Series

5/2, 5/3, 3/2 Solenoid, Pneumatic Valve

CHAPTER 06



SC200
Body Width-10mm
Thread-M5, M3



SC300
Body Width-15mm
Thread-1/8, M5



SC400
Body Width-18mm
Thread-1/4, 1/8

- SC200
- SC300
- SC400



SCE300
Body Width-15mm
Thread-1/8, M5



SCE400
Body Width-18mm
Thread-1/4, 1/8



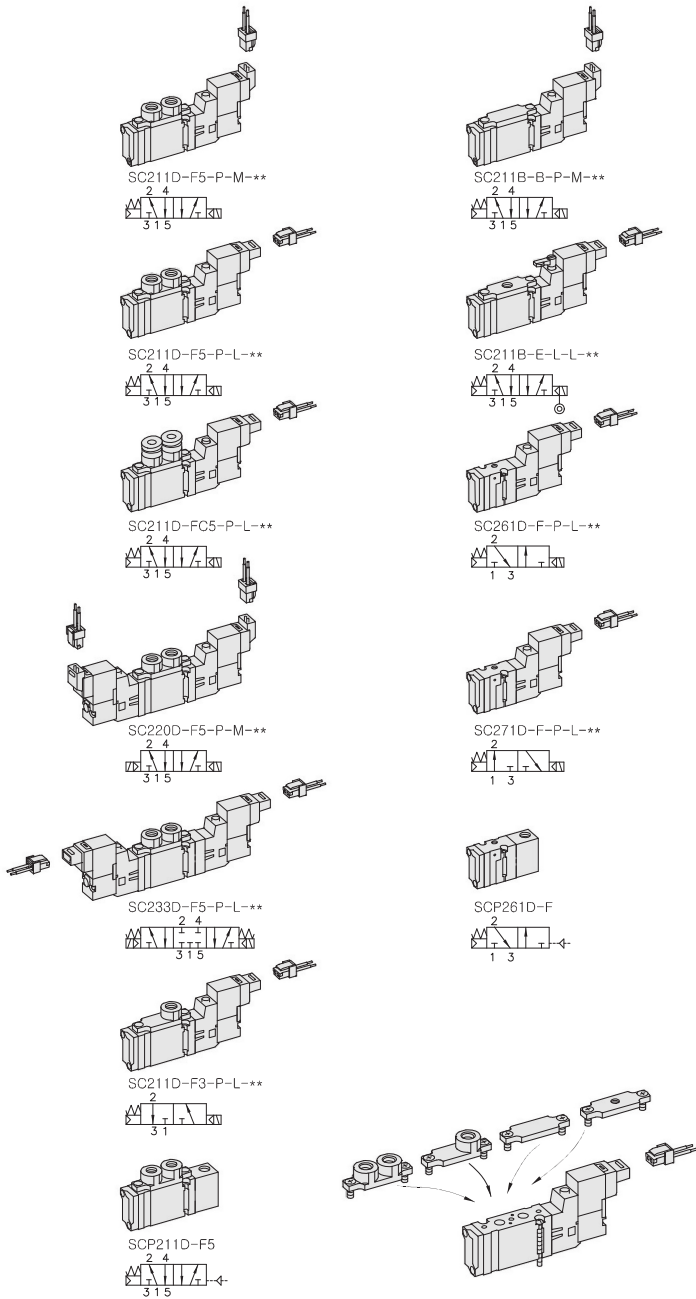
SCE500
Body Width-26mm
Thread-3/8

- SCE300
- SCE400
- SCE500

SC200. M5

"C" COMPACT Series
Solenoid / Pneumatic Valves

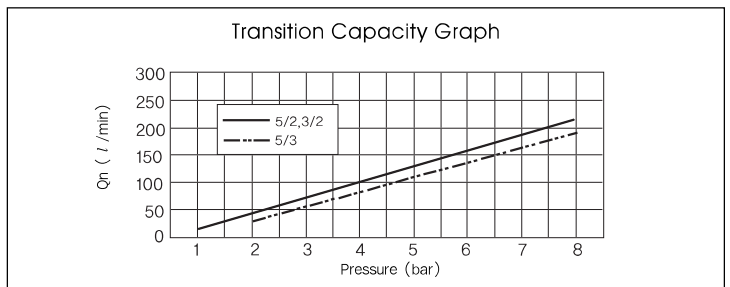
- 5/2, 5/3-M5, 3/2-M3 ■ 10mm Body Width
- Manifold or Sub-Base Type
- High Efficiency, Space Economy Type
- Transition Flow 130ℓ/min (5bar)



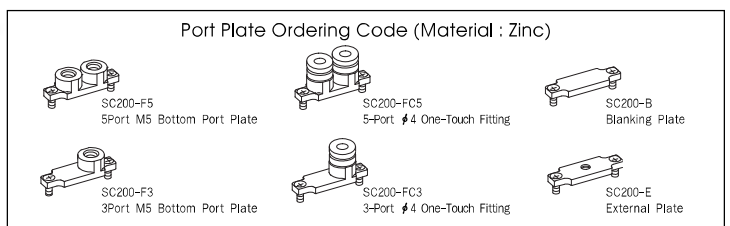
** : Voltage Selection (see page 10)

SPECIFICATION

ITEM	SERIES	SOLENOID, PNEUMATIC	
		5, 3Port 2Position	5Port 3Position
Fluids		Compressed Air & Inert Gases	
Pressure(bar)		2.0~7.0	2.5~7.0
Eff. Sectional Area(mm ²)-5bar		2.3	1.8
Ambient & Fluid Temp.		5~60°C (41~140°F)	
Response Time(5bar)		20ms or Less	30ms or Less
Max. Working Frequency		10c/sec	8c/sec
Lubrication		Not Required(Use ISO VG32 #)	
Manual Override		Push Button(Standard), Lever Lock(Option)	
Coil Insulation Class		F-Class or Equivalent	
Permissible Voltage Variation		±10% of Rated Voltage	
Off Min. Residual Voltage		DC:10% or Less	
Power Consumption(DC)		Holding-DC: 0.65W (24V:27.0mA/12V:54.0mA)	



- ### The Material of Parts
- Valve Body : Die-Cast Aluminium
 - Spool : Aluminium
 - Seals : NBR
 - Spring : Stainless
 - Cap : Zinc Pressure Die-Cast
 - Pilot Parts : Glass Filled Nylon
 - Armature : Stainless Steel
 - Armature Seals : Viton

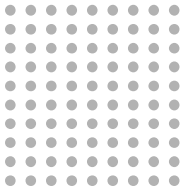


* The specification on each item can be amended without any prenotice to improve a performance.
* The specification on each item can be different from actual specification.

ORDERING NO.

SC2 1 1 D - F5 - P - L - D4

Valve Series	Function	Return Method	Port Type	Port Plate & Thread	Manual Operator	Solenoid Coil Type	Voltage
SC2 : Solenoid Valve	1	5/2 Single	0 None	D Manifold	0 None	0 None	0 None
	2	5/2 Double	1 Air + Spring	B Sub-Base	P Push Non-Locking	L 90 Degree Plug-in Wire Assembly with LED	D4 DC 24V
	3	5/3 Closed Center	2 Air		L Lever Locking	M 180 Degree Plug-in Wire Assembly with LED	D2 DC 12V
	4	5/3 Open Center	3 Spring				
SCP2 : Pneumatic Valve	5	5/3 Pressure Center		0 None			
	6	3/2 Normally Closed		F5 5-Port M5×0.8 F3 3-Port M5×0.8 FN5 5-Port NPT M5×0.8 FN3 3-Port NPT M5×0.8 FC5 5-Port φ4 One-Touch Fitting FC3 3-Port φ4 One-Touch Fitting E External End Plate, Plate M3×0.5 B Blanking End Plate			
	7	3/2 Normally Open					

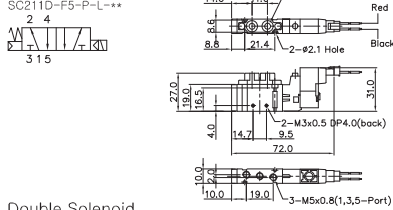


Solenoid & Pilot Actuated Spool Valves

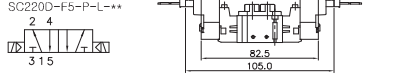
Port Thread M5, M3

5Port 2Position Solenoid Valve (Manifold)

Single Solenoid
SC211D-F5-P-L-***

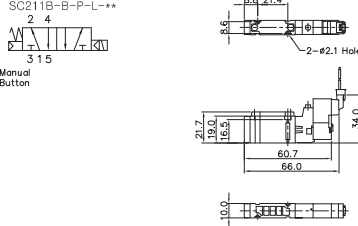


Double Solenoid
SC220D-F5-P-L-***

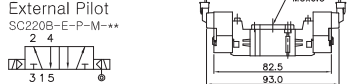


5Port 2Position Solenoid Valve (Sub-Base)

Single Solenoid
SC211B-B-P-L-***

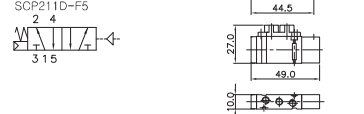


Double Solenoid
External Pilot
SC220B-E-P-M-***



5Port 2Position Pneumatic Valve

Single Pneumatic
SCP211D-F5

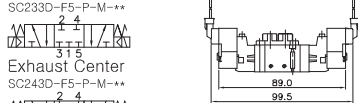


Double Pneumatic
SCP220D-F5



5Port 3Position Solenoid Valve (Manifold)

Closed Center
SC233D-F5-P-M-***



Exhaust Center
SC243D-F5-P-M-***

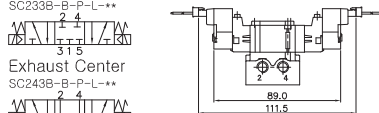


Pressure Center
SC253D-F5-P-M-***



5Port 3Position Solenoid Valve (Sub-Base)

Closed Center
SC233B-B-P-L-***



Exhaust Center
SC243B-B-P-L-***



Pressure Center
SC253B-B-P-L-***

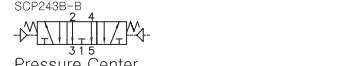


5Port 3Position Pneumatic Valve

Closed Center
SCP233B-B



Exhaust Center
SCP243B-B

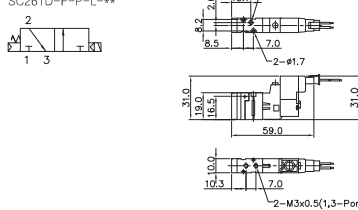


Pressure Center
SCP253B-B



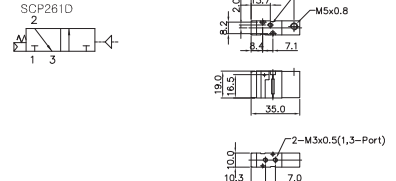
3Port 2Position Solenoid Valve (Manifold)

Single Solenoid
SC261D-F-P-L-***



3Port 2Position Pneumatic Valve

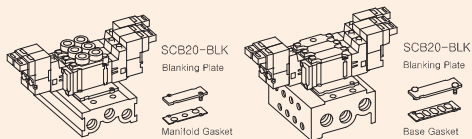
Single Pneumatic
SCP261D



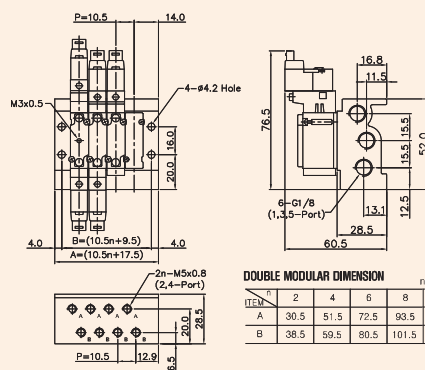
SCB20 SINGLE, DOUBLE MANIFOLD BLOCK

(SC200 Solenoid & Pneumatic Valve Use)

Manifold Block Dimension



Double Modular Manifold Block Dimension

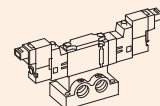


Manifold Ordering Code

SCB2 1 - D - M04

Series	Port & Thread	Function	Manifold Station
SCB2	0 None	0 None	M02 2-Station
SC200 Solenoid Valve	1 G	S Single Station Sub Base, 1/8 Port Without Pilot Ports	M04 4-Station
	2 NPT	D Manifold, Port 1/8	M06 6-Station
		DB Double Modular Manifold Block, M5 Port	M08 8-Station
		DC4 Double Modular Manifold Block, Ø4 Fitting	M10 10-Station
		D3 Manifold, M5 Port Without Pilot Ports(3/2Way)	

Single Station Sub Base Dimension (SCB21-S)



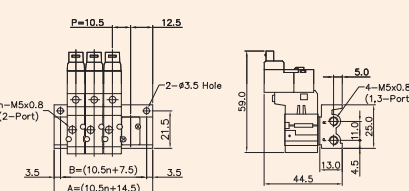
5PORT MANIFOLD BLOCK DIMENSION

ITEM	n	2	4	6	8	10
A		30.5	51.5	72.5	93.5	114.5
B		38.5	59.5	80.5	101.5	122.5

3PORT MANIFOLD BLOCK DIMENSION

ITEM	n	2	4	6	8	10
A		28.5	48.5	70.5	91.5	112.5
B		35.5	56.5	77.5	98.5	119.5

Manifold Block Dimension



Ordering Code
SCB26-BLK

Blanking Plate
Material: STS304

Manifold Gasket.
Material: NBR

Ordering Code
SCB20-BLK

Blanking Plate
Material: STS304

Manifold Gasket.
Base Gasket.
Material: NBR

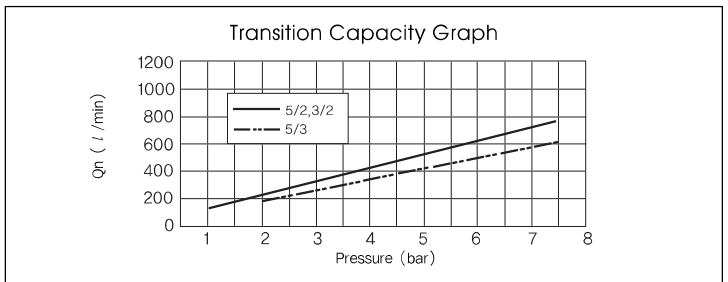
SC300. 1/8

"C" COMPACT Series
Solenoid / Pneumatic Valves

- 5/2, 5/3-1/8, 3/2-M5 ■ 15mm Body Width
- Manifold or Sub-Base Type
- High Efficiency, Space Economy Type
- Transition Flow 500ℓ/min (5bar)

SPECIFICATION

ITEM	SERIES	SOLENOID, PNEUMATIC	
		FUNCTION	
		5, 3Port 2Position	5Port 3Position
Fluids		Compressed Air & Inert Gases	
Pressure(bar)		1.5~7.0	2.0~7.0
Eff. Sectional Area(mm ²)-5bar		9.0	7.5
Ambient & Fluid Temp.		5~60°C (41~140°F)	
Response Time(5bar)		25ms or Less	35ms or Less
Max. Working Frequency		8c/sec	5c/sec
Lubrication		Not Required(Use ISO VG32 #)	
Manual Override		Push Button(Standard), Lever Lock(Option)	
Coil Insulation Class		F-Class or Equivalent	
Permissible Voltage Variation		±10% of Rated Voltage	
Off Min. Residual Voltage		DC:10% or Less	
Power Consumption(DC)		Holding-DC: 0.65W (24V:27.0mA/12V:54.0mA)	



- ### The Material of Parts
- Valve Body : Die-Cast Aluminium
 - Cap : Zinc Pressure Die-Cast
 - Spool : Aluminium
 - Pilot Parts : Glass Filled Nylon
 - Seals : NBR
 - Armature : Stainless Steel
 - Spring : Stainless
 - Armature Seals : Viton

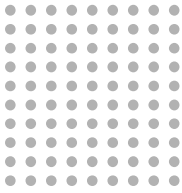
Port Plate Ordering Code (Material : Zinc)

* The specification on each item can be amended without any prenotice to improve a performance.
* The specification on each item can be different from actual specification.

ORDERING NO.

SC3 1 1 D - F5 - P - L - D4

Valve Series	Function	Return Method	Port Type	Port Plate & Thread	Manual Operator	Solenoid Coil Type	Voltage
SC3 : Solenoid Valve	1 5/2 Single	0 None	D Manifold	0 None	0 None	0 None	0 None
	2 5/2 Double	1 Air + Spring	B Sub-Base	F5 5-Port G1/8	P Push Non-Locking	L 90 Degree Plug-in Wire Assembly with LED	D4 DC 24V
	3 5/3 Closed Center	2 Air		F3 3-Port G1/8	L Lever Locking	M 180 Degree Plug-in Wire Assembly with LED	D2 DC 12V
SCP3 : Pneumatic Valve	4 5/3 Open Center	3 Spring		FN5 5-Port NPT1/8			
	5 5/3 Pressure Center			FN3 3-Port NPT1/8			
	6 3/2 Normally Closed			FC5 5-Port One-Touch Fitting			
	7 3/2 Normally Open			FC3 3-Port One-Touch Fitting			
				E External End Plate, Plate M5×0.8			

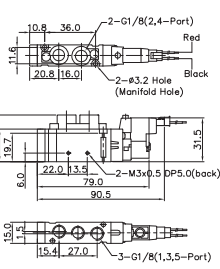
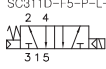


Solenoid & Pilot Actuated Spool Valves

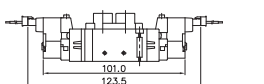
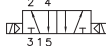
Port Thread 1/8, M5

5Port 2Position Solenoid Valve (Manifold)

Single Solenoid
SC311D-F5-P-L-***

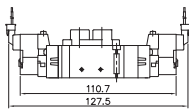
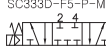


Double Solenoid
SC320D-F5-P-L-***



5Port 3Position Solenoid Valve (Manifold)

Closed Center
SC333D-F5-P-M-***



Exhaust Center
SC343D-F5-P-M-***

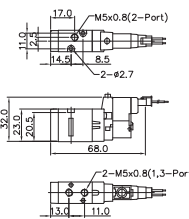
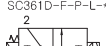


Pressure Center
SC353D-F5-P-M-***



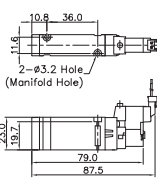
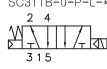
3Port 2Position Solenoid Valve (Manifold)

Single Solenoid
SC381D-F-P-L-***

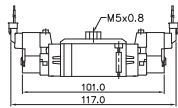
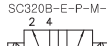


5Port 2Position Solenoid Valve (Sub-Base)

Single Solenoid
SC311B-0-P-L-***

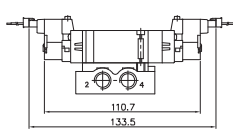
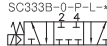


Double Solenoid
External Pilot
SC320B-E-P-M-***

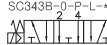


5Port 3Position Solenoid Valve (Sub-Base)

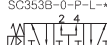
Closed Center
SC333B-0-P-L-***



Exhaust Center
SC343B-0-P-L-***

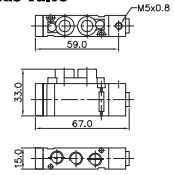
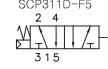


Pressure Center
SC353B-0-P-L-***

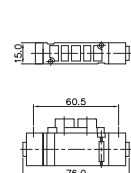
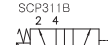


5Port 2Position Pneumatic Valve

Single Pneumatic
SCP311D-F5

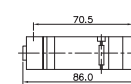


Double Pneumatic
SCP320D-F5



5Port 3Position Pneumatic Valve

Closed Center
SCP333B



Exhaust Center
SCP343B

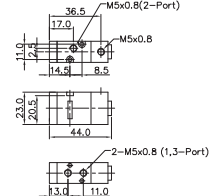
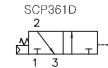


Pressure Center
SCP353B



3Port 2Position Pneumatic Valve

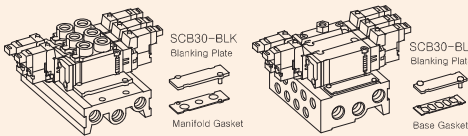
Single Pneumatic
SCP361D



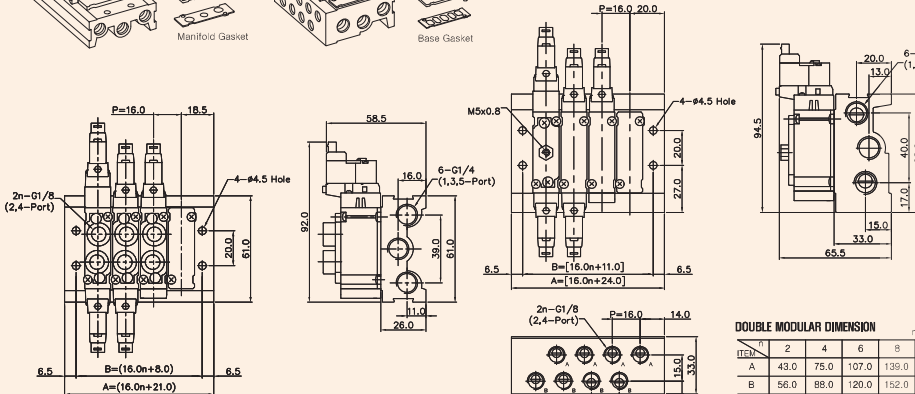
SCB30 SINGLE, DOUBLE MANIFOLD BLOCK

(SC300 Solenoid & Pneumatic Valve Use)

Manifold Block Dimension

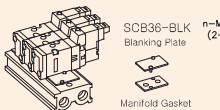


Double Modular Manifold Block Dimension

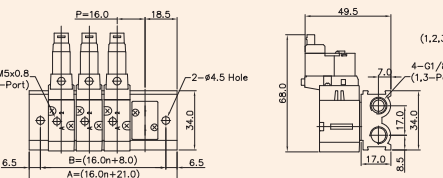


ITEM	n	2	4	6	8	10
A		40.0	72.0	104.0	136.0	168.0
B		53.0	85.0	117.0	149.0	181.0

ITEM	n	2	4	6	8	10
A		40.0	72.0	104.0	136.0	168.0
B		53.0	85.0	117.0	149.0	181.0



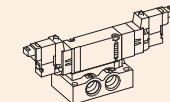
Manifold Block Dimension



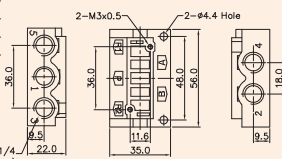
Manifold Ordering Code

Series	Port & Thread	Function	Manifold Station
SCB3	0 None	0 None	M02 2-Station
SC300 Solenoid Valve	1 G	S Single Station Sub Base,	M04 4-Station
	2 NPT	1/4 Port Without Pilot Ports	M06 6-Station
		D Manifold, Port 1/4	M08 8-Station
		DB Double Modular Manifold Block,	M10 10-Station
		1/8 Port	
		DC6 Double Modular Manifold Block,	
		ø 6 Fitting	
		D3 Manifold, Port 1/8(3/2Way)	

Single Station Sub Base Dimension (SCB31-S)



ITEM	n	2	4	6	8	10
A		43.0	75.0	107.0	139.0	172.0
B		56.0	88.0	120.0	152.0	184.0

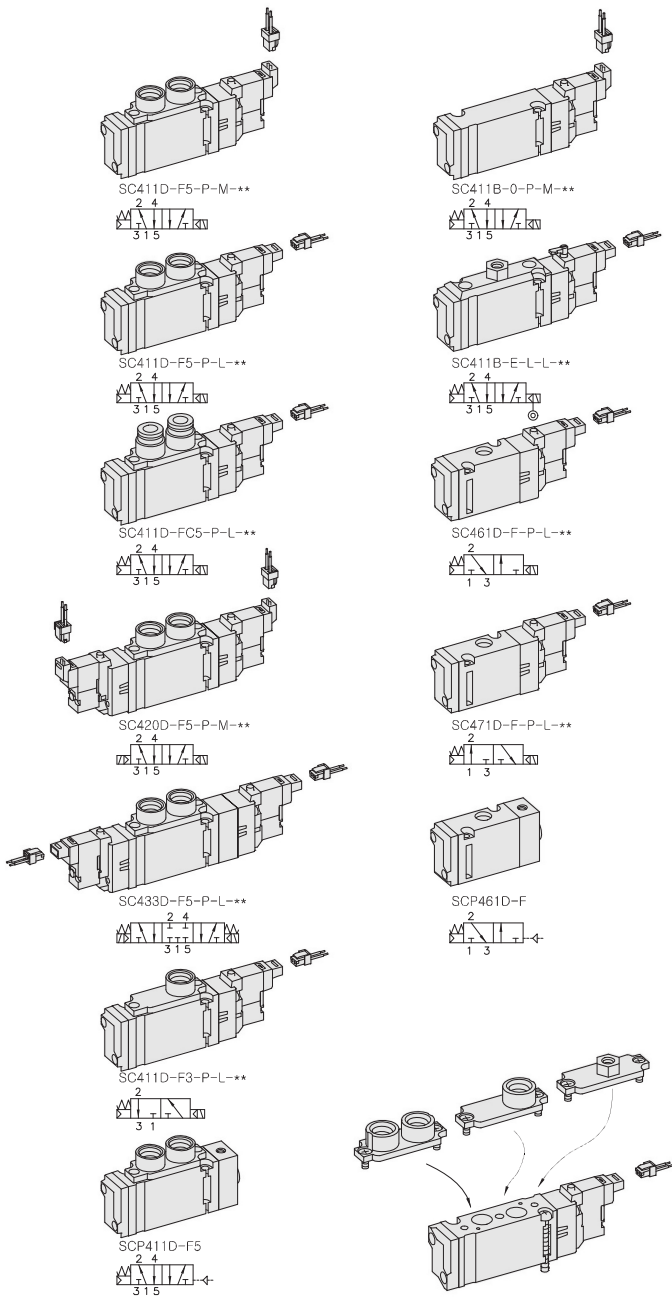


Ordering Code	Ordering Code
SCB36-BLK	SCB30-BLK
Blanking Plate (Material: STS304)	Blanking Plate (Material: STS304)
Manifold Gasket (Material: NBR)	Manifold Gasket (Material: NBR)
	Base Gasket (Material: NBR)

SC400. 1/4

"C" COMPACT Series
Solenoid / Pneumatic Valves

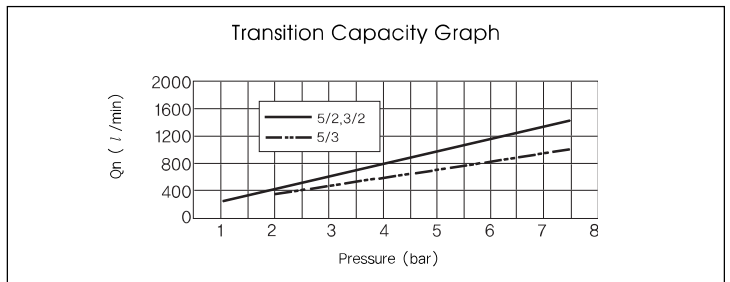
- 5/2, 5/3-1/4, 3/2-1/8 ■ 18mm Body Width
- Manifold or Sub-Base Type
- High Efficiency, Space Economy Type
- Transition Flow 900ℓ/min (5bar)



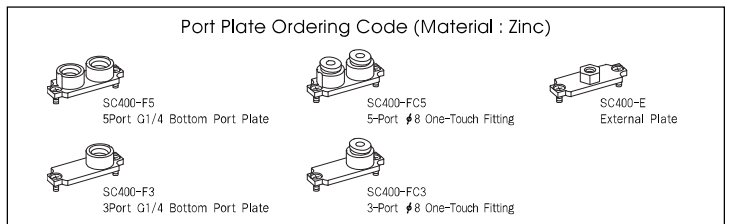
** : Voltage Selection (see page 10)

SPECIFICATION

ITEM	SERIES	SOLENOID, PNEUMATIC	
		FUNCTION	
		5, 3Port 2Position	5Port 3Position
Fluids		Compressed Air & Inert Gases	
Pressure(bar)		1.5~7.0	2.0~7.0
Eff. Sectional Area(mm ²)-5bar		16.0	12.0
Ambient & Fluid Temp.		5~60°C (41~140°F)	
Response Time(5bar)		25ms or Less	35ms or Less
Max. Working Frequency		5c/sec	3c/sec
Lubrication		Not Required(Use ISO VG32 #)	
Manual Override		Push Button(Standard), Lever Lock(Option)	
Coil Insulation Class		F-Class or Equivalent	
Permissible Voltage Variation		±10% of Rated Voltage	
Off Min. Residual Voltage		DC:10% or Less	
Power Consumption(DC)		Holding-DC: 0.65W (24V:27.0mA/12V:54.0mA)	



- ### The Material of Parts
- Valve Body : Die-Cast Aluminium
 - Cap : Zinc Pressure Die-Cast
 - Spool : Aluminium
 - Pilot Parts : Glass Filled Nylon
 - Seals : NBR
 - Armature : Stainless Steel
 - Spring : Stainless
 - Armature Seals : Viton



* The specification on each item can be amended without any prenotice to improve a performance.
* The specification on each item can be different from actual specification.

ORDERING NO.

SC4 1 1 D - F5 - P - L - D4

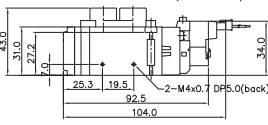
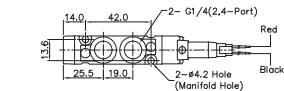
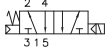
Valve Series	Function	Return Method	Port Type	Port Plate & Thread	Manual Operator	Solenoid Coil Type	Voltage	
SC3 : Solenoid Valve	1	5/2 Single	0	None	0	None	0	None
	2	5/2 Double	1	Air + Spring	P	Push	L	90 Degree Plug-in Wire Assembly with LED
	3	5/3 Closed Center	2	Air		Non-Locking	D4	DC 24V
SCP3 : Pneumatic Valve	4	5/3 Open Center	3	Spring	L	Lever Locking	D2	DC 12V
	5	5/3 Pressure Center					M	180 Degree Plug-in Wire Assembly with LED
	6	3/2 Normally Closed						
	7	3/2 Normally Open						
				F5	5-Port G1/4			
				F3	3-Port G1/4			
				FN5	5-Port NPT1/4			
				FN3	3-Port NPT1/4			
				FC5	5-Port ø8 One-Touch Fitting			
				FC3	3-Port ø8 One-Touch Fitting			
				E	External End Plate, Plate M5×0.8			

Solenoid & Pilot Actuated Spool Valves

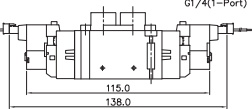
Port Thread 1/4, 1/8

5Port 2Position Solenoid Valve (Manifold)

Single Solenoid
SC411D-F5-P-L-***

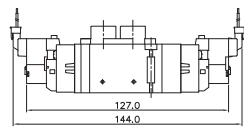
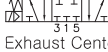


Double Solenoid
SC420D-F5-P-L-***



5Port 3Position Solenoid Valve (Manifold)

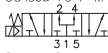
Closed Center
SC433D-F-P-M-***



Exhaust Center
SC443D-F5-P-M-***

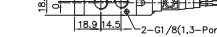
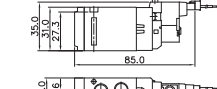
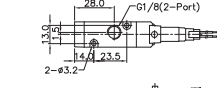
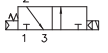


Pressure Center
SC453D-F5-P-M-***



3Port 2Position Solenoid Valve (Manifold)

Single Solenoid
SC461D-F-P-L-***

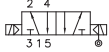


5Port 2Position Solenoid Valve (Sub-Base)

Single Solenoid
SC411B-0-P-L-***

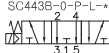
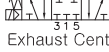


Double Solenoid External Pilot
SC420B-E-P-M-***

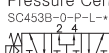
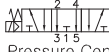


5Port 3Position Solenoid Valve (Sub-Base)

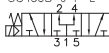
Closed Center
SC433B-0-P-L-***



Exhaust Center
SC443B-0-P-L-***

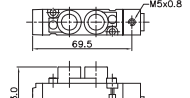
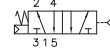


Pressure Center
SC453B-0-P-L-***

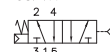


5Port 2Position Pneumatic Valve

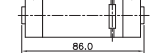
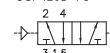
Single Pneumatic
SCP411D-F5



Single Pneumatic
SCP411B

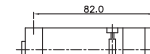
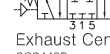


Double Pneumatic
SCP420D-F5

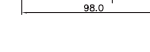
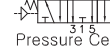


5Port 3Position Pneumatic Valve

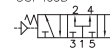
Closed Center
SCP433B



Exhaust Center
SCP443B

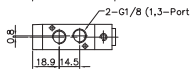
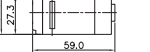
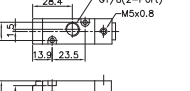
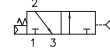


Pressure Center
SCP453B



3Port 2Position Pneumatic Valve

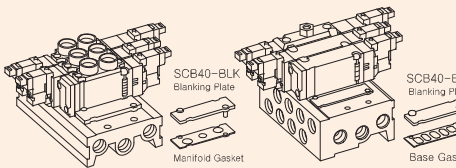
Single Pneumatic
SCP461D



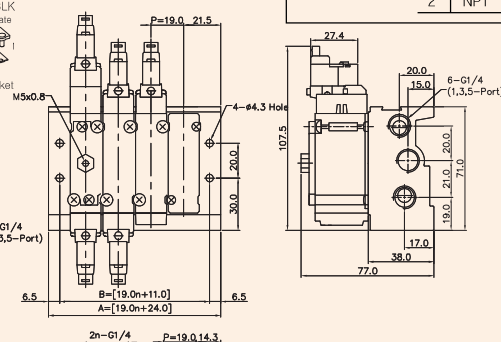
SCB40 SINGLE, DOUBLE MANIFOLD BLOCK

(SC400 Solenoid & Pneumatic Valve Use)

Manifold Block Dimension

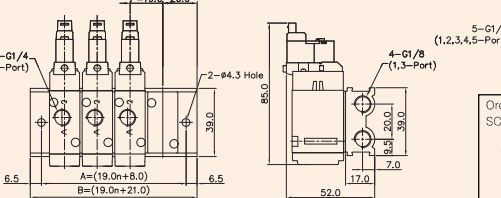


Double Modular Manifold Block Dimension



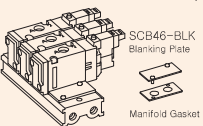
ITEM	n	2	4	6	8	10
B	49.0	87.0	125.0	163.0	201.0	
A	62.0	100.0	138.0	176.0	214.0	

Manifold Block Dimension



ITEM	n	2	4	6	8	10
B	46.0	84.0	122.0	160.0	198.0	
A	59.0	97.0	135.0	173.0	211.0	

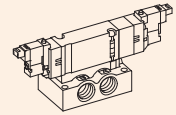
ITEM	n	2	4	6	8	10
B	46.0	84.0	122.0	160.0	198.0	
A	59.0	97.0	135.0	173.0	211.0	



Manifold Ordering Code

Series	Port & Thread	Function	Manifold Station
SCB3	0 None	0 None	M02 2-Station
SC400 Solenoid Valve	1 G	S Single Station Sub Base, 1/4 Port Without Pilot Ports	M04 4-Station
	2 NPT	D Manifold, Port 1/4	M06 6-Station
		DB Double Modular Manifold Block, 1/4 Port	M08 8-Station
		DC8 Double Modular Manifold Block, Ø 8 Fitting	M10 10-Station
		D3 Manifold, Port 1/8 (3/2Way)	

Single Station Sub Base Dimension (SCB41-S)



Ordering Code
SCB46-BLK
Blanking Plate (Material : STS304)
Manifold Gasket (Material : NBR)

Ordering Code
SCB40-BLK
Blanking Plate (Material : STS304)
Manifold Gasket (Material : NBR)
Base Gasket (Material : NBR)