

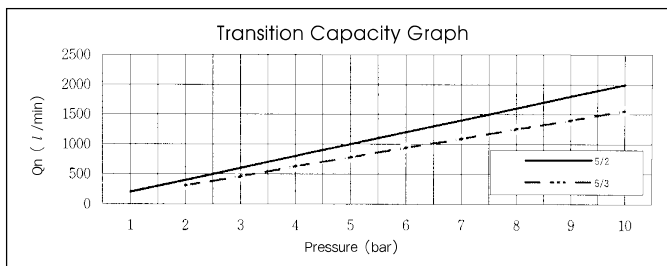
SIV300

ISO-O 15407-1 / VDMA 24563
Solenoid / Pneumatic Valves

- 5/2, 5/3
- 26mm Body Width
- Sub-Base or Manifold Mounting Type
- Transition Flow 1000ℓ/min (5bar)

SPECIFICATION

ITEM	FUNCTION	SOLENOID, PNEUMATIC	
		5 Port 2 Position	5 Port 3 Position
Fluids		Compressed Air & Inert Gases	
Pressure(bar)		1.5~10.0	2.0~10.0
Eff. Section Area(mm ²)-5bar		18.0	11.0
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(Optional)	
Coil Insulation Class		F-Class or Equivalent	
Permissible Voltage Variation		±10% of Rated Voltage	
Off Min. Residual Voltage		AC:20% or Less / DC:10% or Less	
Power Consumption		Holding-AC:3.5VA(60Hz) / DC:2.5W	



The Material of Parts

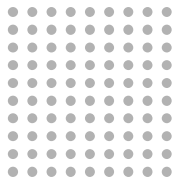
- Valve Body : Die-Cast Aluminium
- Spool : Aluminium
- Seals : NBR
- Spring : Stainless
- Cap : Zinc Pressure Die-Cast
- Pilot Parts : Glass Filled Nylon
- Armature : Stainless Steel
- Armature Seals : Viton

※ 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.

SIV3 1 1 - I P - SC1 - CN1 - A2

Valve Series	Function	Return Method	Int/Ext. Pilot	Manual Operator	Solenoid Coil Type	Connector Type	Voltage
SIV3 : Solenoid Valve	1 5/2 Single	0 None	I Internal Pilot	0 None	SC1 3 Pin Connector Coil	CN1 Normal Connector	A2 AC 220V
	2 5/2 Double	1 Air + Spring	E External Pilot	P Push Non-Locking	SG1 Grommet/Flying Leads	CD1 Connector With LED	A1 AC 110V
	3 5/3 Closed Center	2 Air		L Lever Locking	SD1 Grommet/Flying Leads With LED	CZ1 Connector With LED & Surge Suppressor	A4 AC 24V
	4 5/3 Open Center	3 Spring			SL1 90 Degree Plug-in Wire Assembly With LED		D4 DC 24V
SIP3 : Pneumatic Valve	5 5/3 Pressure Center				SM1 180 Degree Plug-in Wire Assembly With LED		D2 DC 12V



Solenoid & Pilot Actuated Spool Valves

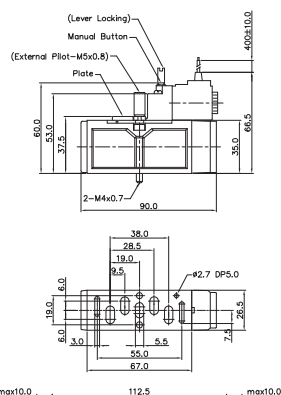
26mm Body Width

5Port 2Position Solenoid Valve

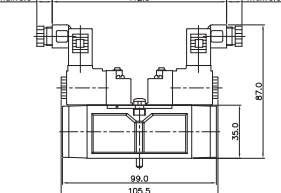
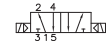
Single Solenoid
SIV311-IP-SG1-***



External Pilot
SIV311-EP-SG1-***

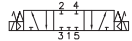


Double Solenoid
SIV320-IP-SC1-CN1-***

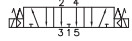


5Port 3Position Solenoid Valve

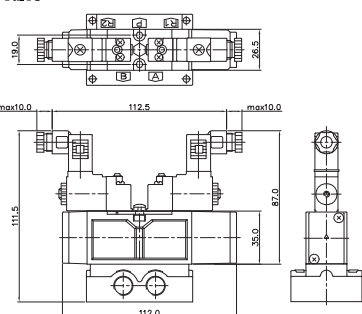
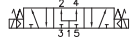
Closed Center
SIV333-IP-SC1-CN1-***



Exhaust Center
SIV343-IP-SC1-CN1-***

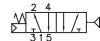


Pressure Center
SIV353-IP-SC1-CN1-***

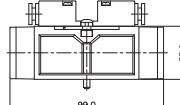
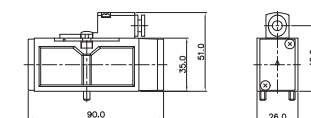


5Port 2Position Pneumatic Valve

Single Pneumatic
SIP311

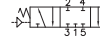


Double Pneumatic
SIP330

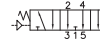


5Port 3Position Pneumatic Valve

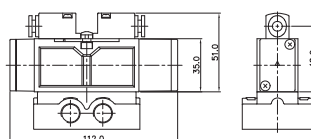
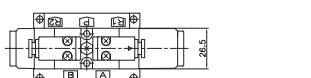
Closed Center
SIP333



Exhaust Center
SIP343



Pressure Center
SIP353

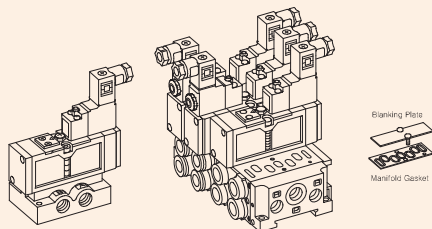


Sub Base Ordering Code

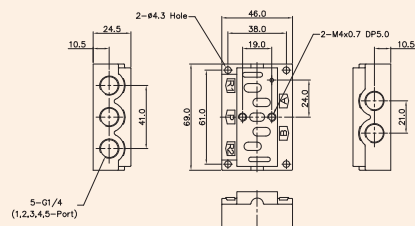
Base Series	Port & Thread	Function
SIB3	0 None	S Single Station Sub Base, 1/4 Port Without Pilot Ports
SIV300 Solenoid Valve	1 G	SP Single Station Sub Base, 1/4 Port With Pilot Ports
	2 NPT	DB Double Modular Sub Base, 1/4 Port Without Pilot Ports
		DC8 Double Modular Sub Base, Ø8 One-Touch Fitting
		E End Cover, 1/4 Port
		EB End Blanking Cover

SIB30 SINGLE, DOUBLE SUB BASE

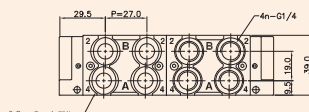
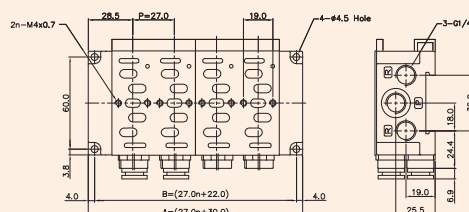
(SIV300 Solenoid & Pneumatic Valve Use Sub Base)



Single Station Sub Base Dimension



Double Modular Sub Base Dimension



DOUBLE MODULAR SUB BASE DIMENSION					n-STATION
ITEM	2	4	6	8	10
A	76.0	130.0	184.0	238.0	292.0
B	84.0	138.0	192.0	246.0	300.0

Ordering Code SIB30-BLK	Blanking Plate (Material: STS304)
Ordering Code SIB30-E	End Cover, 1/4 (Material: Al)
Ordering Code SIB30-EB	End Blanking Cover (Material: Al)
Ordering Code SIB31-DB	Double Modular Sub Base, 1/4 (Material: Al)
Ordering Code SIB30-DCB	Double Modular Sub Base Ø8 one-touch fitting (Material: Al)

SIV400

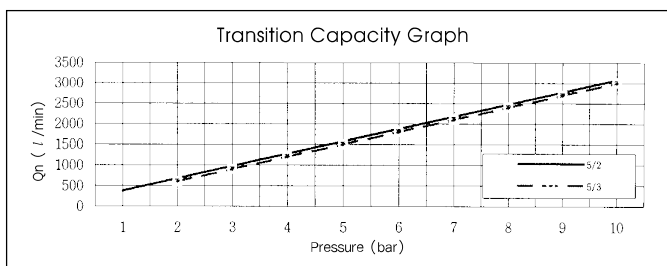
ISO-1

Solenoid / Pneumatic Valves

- 5/2, 5/3
- 40mm Body Width
- 30mm CNOMO pilot
- Sub-Base Mounting Type
- Transition Flow 1600ℓ/min (5bar)

SPECIFICATION

ITEM	FUNCTION	SOLENOID, PNEUMATIC	
		5 Port 2 Position	5 Port 3 Position
Fluids		Compressed Air & Inert Gases	
Pressure(bar)		1.5~10.0	2.0~10.0
Eff. Section Area(mm ²)-5bar		30.0	25.0
Ambient & Fluid Temp.		5~60°C (41~140°F)	
Response Time(5bar)		30ms or Less	40ms or Less
Max. Working Frequency		3c/sec	1c/sec
Lubrication		Not Required(Use ISO VG32#)	
Manual Override		Push Button(Standard), Lever Lock(Optional)	
Coil Insulation Class		F-Class or Equivalent	
Permissible Voltage Variation		±10% of Rated Voltage	
Off Min. Residual Voltage		AC:20% or Less / DC:10% or Less	
Power Consumption		Holding-AC:5.5VA(60Hz) / DC:2.5W	



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

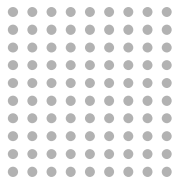
※ The specification on each item can be amended without any prenotice to improve a performance.
 ※ The specification on each item can be different from actual specification.

※: Voltage Selection (see page 80)

ORDERING NO.

SIV4 1 1 - I P - SC2 - CN2 - A2

Valve Series	Function	Return Method	Int/Ext. Pilot	Manual Operator	Solenoid Coil Type	Connector Type	Voltage
SIV4 : Solenoid Valve	1 5/2 Single	0 None	I Internal Pilot	0 None	0 None	0 None	0 None
	2 5/2 Double	1 Air + Spring	E External Pilot	P Push Non-Locking	SC2 3 Pin Connector Coil	CN2 Normal Connector	A2 AC 220V
	3 5/3 Closed Center	2 Air		L Lever Locking	SG2 Grommet/Flying Leads	CD2 Connector With LED	A1 AC 110V
SIP4 : Pneumatic Valve	4 5/3 Open Center	3 Spring			SD2 Grommet/Flying Leads With LED	CZ2 Connector With LED & Surge Suppressor	A4 AC 24V D4 DC 24V D2 DC 12V
	5 5/3 Pressure Center						

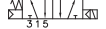


Solenoid & Pilot Actuated Spool Valves

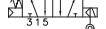
40mm Body Width

5Port 2Position Solenoid Valve

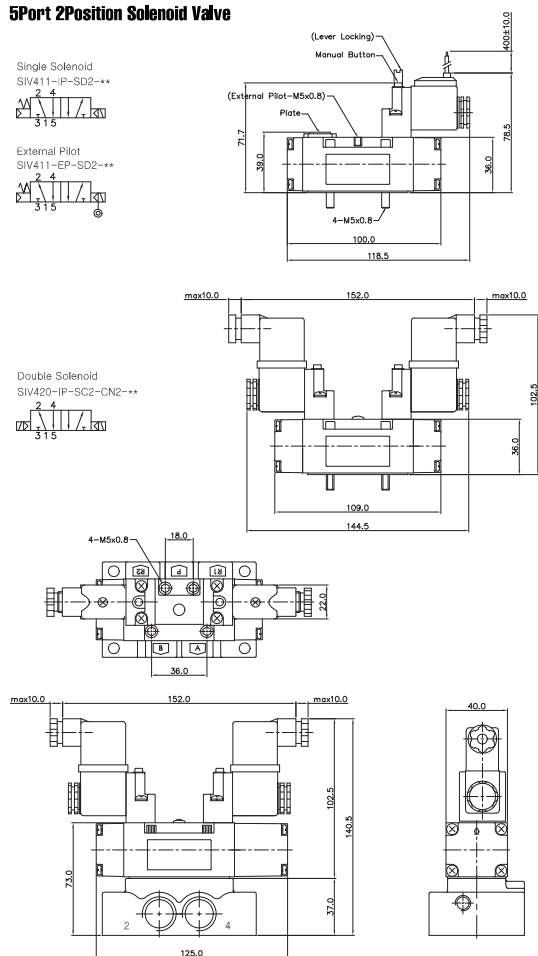
Single Solenoid
SIV411-IP-SD2-***



External Pilot
SIV411-EP-SD2-***

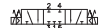


Double Solenoid
SIV420-IP-SC2-CN2-***



5Port 3Position Solenoid Valve

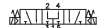
Closed Center
SIV433-IP-SC2-CN2-***



Exhaust Center
SIV433-IP-SC2-CN2-***

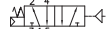


Pressure Center
SIV453-IP-SC2-CN2-***

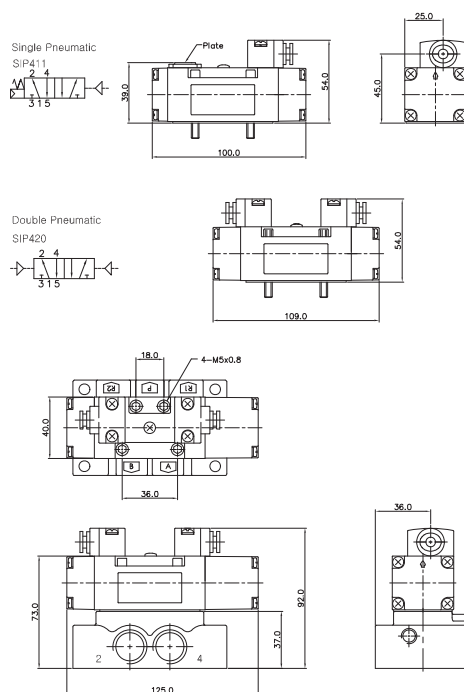
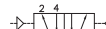


5Port 2Position Pneumatic Valve

Single Pneumatic
SIP411



Double Pneumatic
SIP420



5Port 3Position Pneumatic Valve

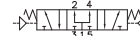
Closed Center
SIP433



Exhaust Center
SIP443



Pressure Center
SIP453



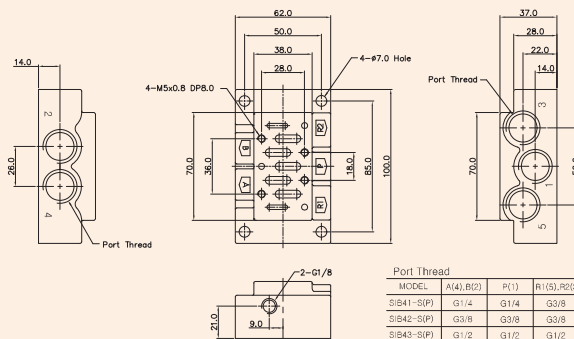
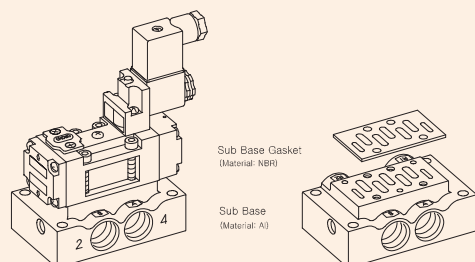
Sub Base Ordering Code

Base Series	Port & Thread	Function
SIB4	0 None	S Single Station Sub Base, Without Pilot Ports
SIV400 Solenoid Valve	1 G 1/4	SP Single Station Sub Base, With Pilot Ports
	2 G 3/8	
	3 G 1/2	
	6 NPT 1/4	
	7 NPT 3/8	
	8 NPT 1/2	

SIB40 SINGLE SUB BASE

(SIV400 Solenoid & Pneumatic Valve Use Sub Base)

Single Station Sub Base Dimension



MODEL	A(4),B(2)	P(1)	H(5),R(3)
SIB41-SIP	G1/4	G1/4	G3/8
SIB42-SIP	G3/8	G3/8	G3/8
SIB43-SIP	G1/2	G1/2	G1/2

SIV500

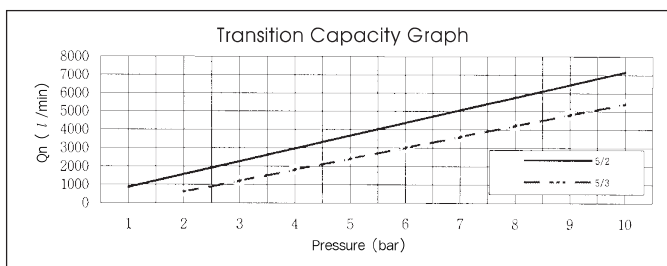
ISO-2

Solenoid / Pneumatic Valves

- 5/2, 5/3 ■ 50mm Body Width
- 30mm CNOMO PILOT
- Sub-Base Mounting Type
- Transition Flow 3500ℓ/min (5bar)

SPECIFICATION

ITEM	FUNCTION	SOLENOID, PNEUMATIC	
		5 Port 2 Position	5 Port 3 Position
Fluids		Compressed Air & Inert Gases	
Pressure(bar)		1.5~10.0	2.0~10.0
Eff. Sectional Area(mm ²)-5bar		65.0	50.0
Ambient & Fluid Temp.		5~60°C (41~140°F)	
Response Time(5bar)		35ms or Less	45ms or Less
Max. Working Frequency		3c/sec	1c/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		AC:20% or Less / DC:10% or Less	
Power Consumption		Holding-AC:5.5VA(60Hz) / DC:2.5W	



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.

※: Voltage Selection (see page 80)

ORDERING NO.

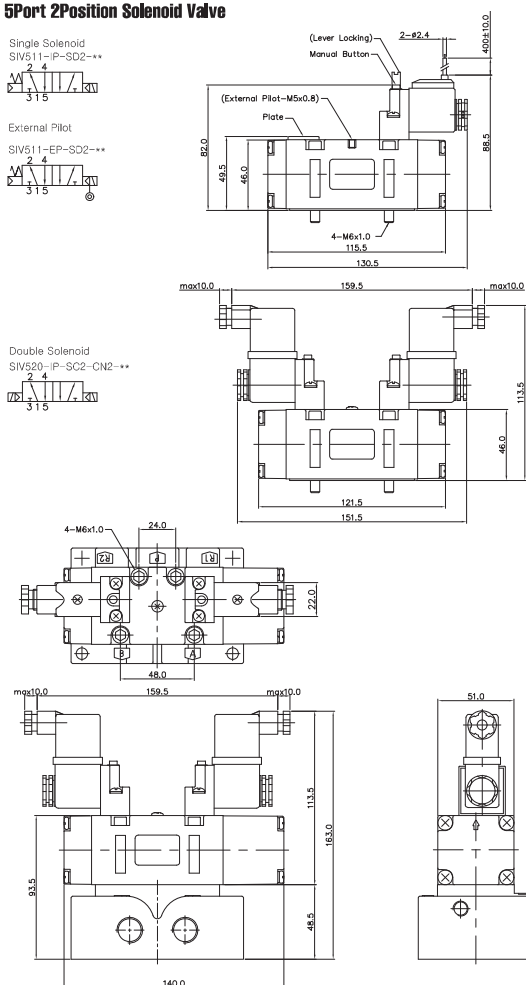
SIV5 1 1 - I P - SC2 - CN2 - A2

Valve Series	Function	Return Method	Int/Ext. Pilot	Manual Operator	Solenoid Coil Type	Connector Type	Voltage
SIV5 : Solenoid Valve	1 5/2 Single	0 None	I Internal Pilot	0 None	SC2 3 Pin Connector Coil	0 None	0 None
	2 5/2 Double	1 Air + Spring	E External Pilot	P Push Non-Locking	SG2 Grommet/Flying Leads	CN2 Normal Connector	A2 AC 220V
	3 5/3 Closed Center	2 Air		L Lever Locking	SD2 Grommet/Flying Leads With LED	CD2 Connector With LED	A1 AC 110V
SIP5 : Pneumatic Valve	4 5/3 Open Center	3 Spring				CZ2 Connector With LED & Surge Suppressor	A4 AC 24V
	5 5/3 Pressure Center						D4 DC 24V
							D2 DC 12V



5Port 2Position Solenoid Valve

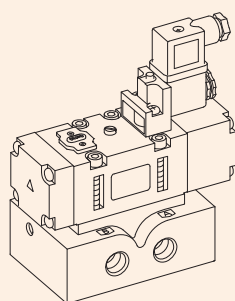
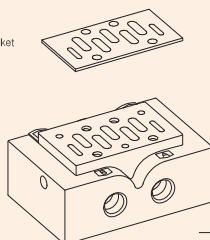
SIV511-EP-SD2-xx
2 4
W \ \ \ /



5Port 3Position Solenoid Valve

(SIV500 Solenoid & Pneumatic Valve Use Sub Base)

Single Station Sub Base Dimension

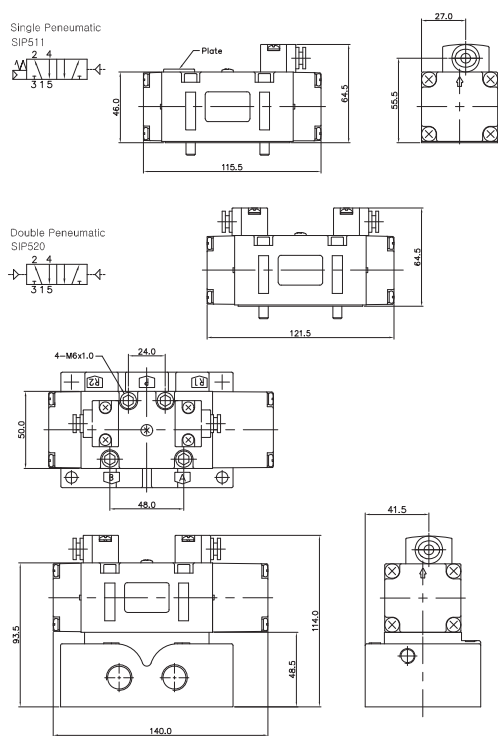
Sub Base
(Material: A)

Thread	A	B	C	D
SIB52-G3/8	36.0	19.0	60.0	29.0
SIB53-G1/2	31.0	23.0	63.2	32.0
SIB54-G3/4	36.0	23.0	67.2	26.3

5Port 2Position Pneumatic Valve

SIP520

Diagram showing a 5-bit shift register (SIP520) with inputs 2 and 4, and a feedback loop.



5Port 3Position Pneumatic Valve

SIP533

SIP543



The diagram shows a digital waveform labeled SIP543. It consists of a series of rectangular pulses. The period of the pulses is indicated as 2, and the width of each pulse is indicated as 4. The waveform starts with a rising edge, followed by a series of pulses, and ends with a falling edge.

SIP553

Sub Base Ordering Code

