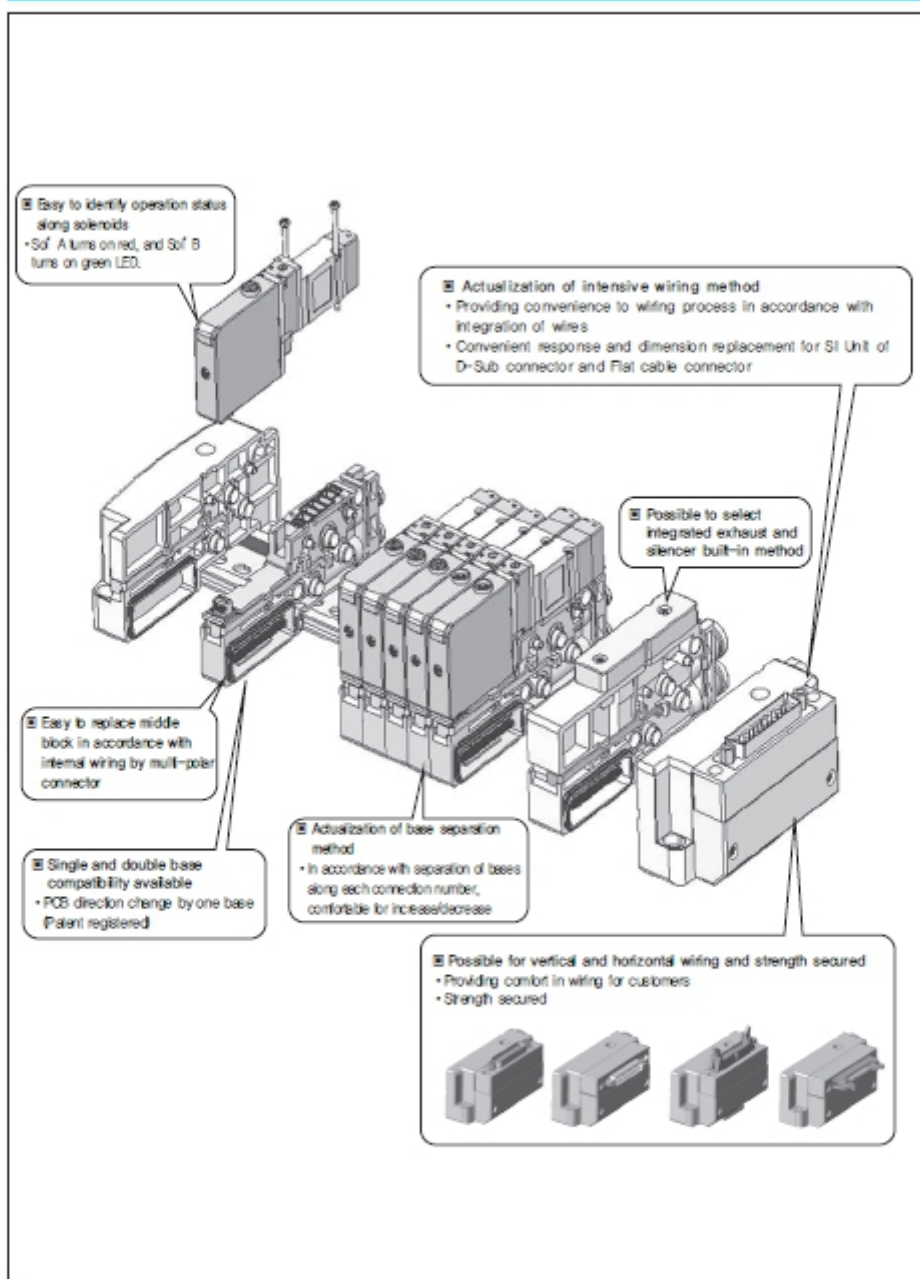
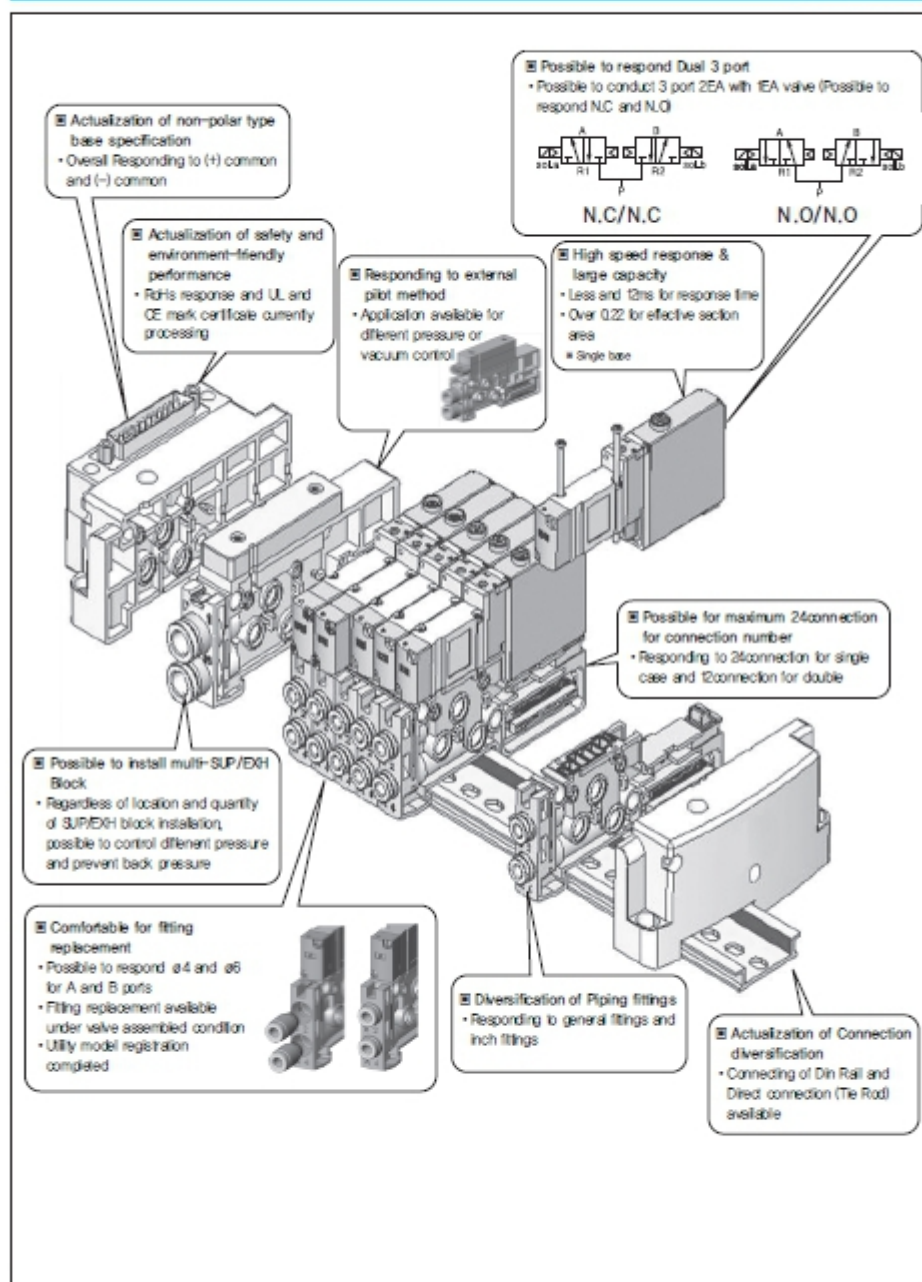






Series RS 1000, 2000

Plug-in Type 5-port Pilot Type Solenoid Valve



- POSSIBLE TO CONNECT BY DIN RAIL OR TIE ROD IN ACCORDANCE WITH UTILIZATION CONDITION
- NO RESTRICTION IN INSTALLATION LOCATION AND QUANTITY OF SUP/EXH BLOCK
- POSSIBLE FOR 24 CONNECTION FOR SINGLE AND 12 CONNECTION FOR DOUBLE
- NON-POLAR TYPE, RESPONSE TO (+) AND (-) COMMON (DUAL 3-PORT TYPE IS ENERGY SAVING BASED, RESPONSE AVAILABLE ONLY FOR (+) COMMON)
- POSSIBLE TO MAKE SINGLE, DOUBLE, 3-POSITION AND DUAL 3-PORT 4 POSITION
- POSSIBLE TO INSTALL SINGLE AND DOUBLE VALVE ON THE SAME BASE
- POSSIBLE TO RESPOND D-SUB CONNECTOR, FLAT CABLE CONNECTOR AND SI UNIT

Solenoid Valve Specification			
Applied Fluid		Air	
Operating Pressure Range MPa(kg/cm ²)	Internal Pilot	2 Position Single	0.15~0.7 (1.5~7.1)
		2 Position Single	0.1~0.7 (1~7.1)
		3 Position	0.2~0.7 (2~7.0)
		4 Position Dual 3 Port	0.15~0.72~7.0
	External Pilot	Operating Pressure Range	~100kPa~0.7MPa
Pilot Pressure		0.25~0.7	
Ambient Temperature and Fluid Temperature(°C)		0~50	
Manual Override		Non Lock Push Method	
Pilot Exhaust Method	Internal Pilot	Integrated Exhaust Type for Main and Pilot Valve	
	External Pilot	Pilot Valve Individual Exhaust Type	
Lubrication		Non-Lube	
Mounting		Free	
Impact/Vibration-Resistance %		150/300/8.3~2000Hz	
Maximum Operation Frequency (Hz)	2 Position, 4 Position		5
	3 Position		3
Enclosure		IP40	
Rated Voltage (V)		DC 24, DC 12	
Allowable Voltage Fluctuation (%)		-10 ~ + 10 of Rated Voltage	
Polarity		Non Polar Based (Note 1)	
Power Consumption (W)		0.85 (Energy Saving Type 0.35)	

Note 1 Dual 3-port type is energy saving based, available only for (+) common.

Dual 3-port type is basically power-saving (+) common, and if you want (-) common, separate orders are required.

Manifold Specification			
Index		RS1000	RS2000
Connection Method Between Blocks		Compatible Between Din Rail and Tie Rod	
SUP/EXH Method		Integrated SUP/EXH	
Max. Stations		24 Stations	
Number of Output		24	
Port Size	P, R	Ø8, Ø5/16"	Ø10, Ø3/8"
	A, B	Ø4, Ø6, Ø5/32", Ø1/4"	Ø4, Ø6, Ø5/32", Ø1/4", Ø5/16"

Weight sheet			
Unit : g			
Item		RS1000	RS2000
Valve	Single	60	84
	Double	68	94
	3-Position	70	100
MANIFOLD SIDE COVER ASSY		232	338
Base Product		36	80

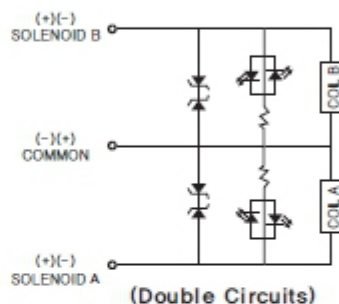
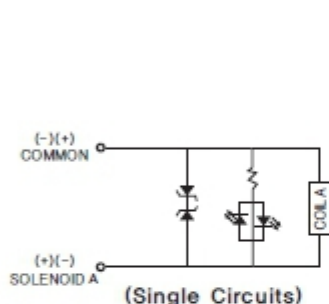
Valve Flow Characteristics

Valve Description	Pipe contact diameter		Effective sectional diameter mm(Cv value)	
	RS1000	RS2000	RS1000	RS2000
Single Solenoid	Ø6	Ø8	4.0(0.22)	9.5(0.53)
Double Solenoid	Ø6	Ø8	4.0(0.22)	9.5(0.53)
Closed Center	Ø6	Ø8	3.3(0.18)	7.2(0.40)
Exhaust Center	Ø6	Ø8	3.3(0.18)	7.2(0.40)
Pressure Center	Ø6	Ø8	4.9(0.27)	10.8(0.60)
4 location N.C/N.C	Ø6	Ø8	3.3(0.18)	8.1(0.45)
4 location N.O/N.O	Ø6	Ø8	4.0(0.22)	8.4(0.47)
4 location N.C/N.O	Ø6	Ø8	3.3(0.18)/4.0(0.22)	8.4(0.47)/8.1(0.45)

Solenoid Valve Response Time

Type	Response Time (ms)	
	RS1000	RS2000
2 position single	12 or less	30 or Less
2 position double	11 or less	20 or Less
3 position	18 or less	34 or Less
4 position dual 3 part	25 or less	40 or Less

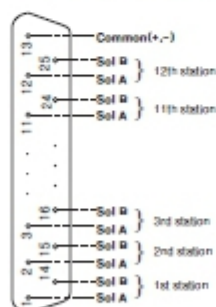
Valve Circuit Diagram



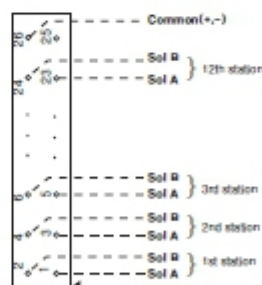
- Non-polar type solenoid, Sol A is red and Sol B is green lamp.
- Since surge protecting circuit is equipped, it is safe against surge voltage.

Manifold Electrical Arrangement

D-Sub Connector Type



Flat Cable Connector Type

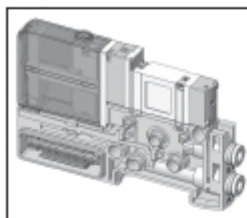


- Non-polar solenoid valve, no problem to use any of (+) or (-) common.
- Since wiring above is base for less than 12 connection, Single is available only for Sol A, Double is with sequence of 1 → 14 → 2 → 15, and Flat cable connector is with sequence of 1 → 2 → 3 → 4 → without omission, however, it should be cautious that the case of combining single and double is different to the wiring above.

Series RS 1000, 2000

Plug In Valve Model Number System

1) How to Order Valve & Base Assembly Type



RS **1** **1** 40 **B** - **5** - **T6** - - -

1 2 3 4 5 6 7

1 Series

- 1 : RS1000
- 2 : RS2000

* Requested to separately inquire for order

2 Configuration

- 1 : 2 position single
- 2 : 2 position Double
- 3 : 3 position Closed Center
- 4 : 3 position Exhaust Center
- 5 : 3 position Pressure Center
- 6 : 4 position dual 3-port NC, NC
- 7 : 4 position dual 3-port NO, NO
- 8 : 4 position dual 3-port NC, NO



3 Pilot Specification

Blank : Internal pilot

P : External pilot

Note: 4 location dual 3-port valve does not have external pilot specification.

4 Voltage

- 5 : DC 24V
- 6 : DC 12V

5 A, B Port Size

Symbol	mm	Symbol	Inch	Applied series
T3	Ø3			RS1000
T4	Ø4	U4	Ø 5/32"	
T6	Ø6	U6	Ø 1/4"	
T4	Ø4	U4	Ø 5/32"	RS2000
T6	Ø6	U6	Ø 1/4"	
T8	Ø8	U8	Ø 5/16"	

6 PCB wiring specification

Blank : Double wiring specification

S : Single wiring specification

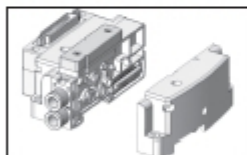
Note: Single also uses basic double wiring specification, and single wiring is combined only or over 12 connection setting.

7 Manifold Attachment

Blank : Non manifold

WM : Manifold attached

2) How to Order Manifold Side Cover Type



RSM **1** A - **D** V - **B** - **T8**

1 2 3 4 5 6

1 Series

- 1 : RS1000
- * 2 : RS2000

2 Connector Type

- D : D-Sub Connector (25Pin)
- F : Flat Cable Connector (25Pin)

3 Connector Extracting Direction

- V : Vertical direction
- H : Horizontal direction

Connector type	Horizontal direction	Vertical direction
D-Sub Connector		
Flat Cable Connector		

4 A and B Port Extracting Location

B (2-10 positions)		
T (2-10 positions)		
A (more than 11 positions)		

5 Pilot Specification

No symbol	Internal Pilot	
N	Internal Pilot, Silencer Equipped	
P	External Pilot	
PN	External Pilot, Silencer Equipped	

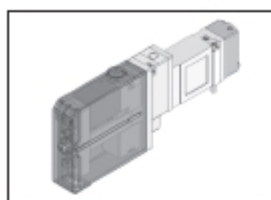
6 P, E Port Size

Symbol	mm	Symbol	Inch	Applied series
T8	Ø8	U8	Ø 5/32"	RS1000
T10	Ø10	U10	Ø 3/8"	RS2000

Note: *Mark is a non-standard.

Plug In Valve Item Number System

3) How to Order Valve Type



1 Series

- 1 : RS1000
- 2 : RS2000

* Contact us for order

RS 1 1 40 - 5 -

1 2 3 4 5

2 Configuration

- 1 : 2 position single
- 2 : 2 position Double
- 3 : 3 position Closed Center
- 4 : 3 position Exhaust Center
- 5 : 3 position Pressure Center
- 6 : 4 position dual 3-port : NC, NC
- 7 : 4 position dual 3-port : NO, NO
- 8 : 4 position dual 3-port : NC, NO

3 Pilot specification

Blank : Internal pilot
 P : External pilot
 Note: 4 location dual 3-port valve does not have external pilot specification

4 Voltage

- 5 : DC 24V
- 6 : DC 12V

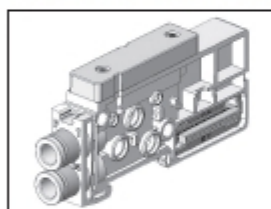
5 Manifold Option

Blank : Without manifold
 WM : With Manifold



Plug In Valve Item Number System

4) How to Order Sup/Exh Block Type



R S M 1 S - M

1 2 3

1 Series

- 1 : RS1000
- 2 : RS2000
- * (Inquire separately for order)

2 Pilot Specification

Blank	Internal Pilot	
N	Internal Pilot, Silencer Equipped	
P	External Pilot	
PN	External Pilot, Silencer Equipped	

3 P,E Port Size

Symbol	mm	Symbol	Inch	Series
M	ø8	I	ø5/16"	RS1000
	ø10		ø3/8"	RS2000

5) How to Order Cable Type



R S M - C - D - 15

1 2

1 Connector Type

- D : D-Sub Connector (25Pin)
- F : Flat Cable Connector (25Pin)

2 Cable Length

- 15 : 1.5m
- 30 : 3m
- 50 : 5m

Series RS 1000, 2000

6) How to Order Tie Rod Type (over 5-stations)



R S M 1 T - B 5 -

1
2
3

- ① Series
1 : RS1000
* 2 : RS2000
- ② Base Station Number
(5~24-station)
- ③ Sup/Exh Station
Blank : 1 Station
S2 : 2 Stations
S3 : 3 Stations
4 : 4 Stations

7) How to Order Din Rail Type



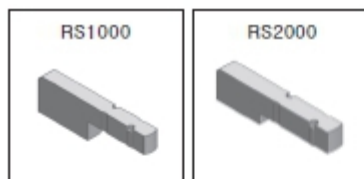
R S M 1 D - B 06

1
2

- ① Series
1 : RS1000
* 2 : RS2000
- ② BASE Station Number
06 : 2~6 Stations
10 : 7~10 Stations
15 : 11~15 Stations
20 : 16~20 Stations
24 : 21~24 Stations

Plug In Valve Item Number System

8) How to Order Blank Plate Type



R S M 1 - B

•

• Series

1	RS1000
2	RS2000

9) RS1000 Block Disc Indicating Method



R S M 1 - 106A2214

* In case of providing more than 2 types of pressure into one manifold, utilize with attaching at base P-Port.

RS Series Valve, Manifold Ass'y Sheet

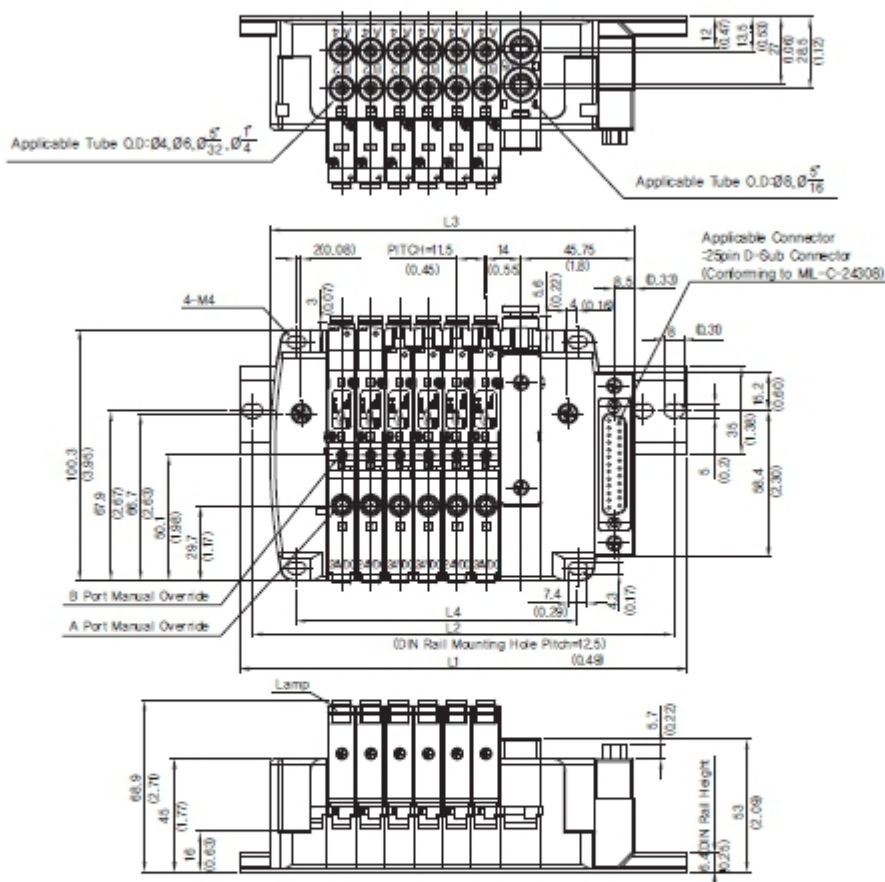
Manifold Assembly Item Number												USER	
Voltage (V)		Pilot Method		Connecting		Connecting Direction		Silencer Attached		Requested Quantity		Order/Special Order NO.	
24V	12V	Internal	External	D-Sub	Flat	Vertical	Horizontal	Y	N	SET		A person in Charge (Sign)	

Index	Connection Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Valve	Switching Method																								
Manifold (Fitting Size)	RS1000	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	ø6 ø4	
	RS2000	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	ø8 ø6 ø4	
Special Contents																									

Order Method and Notices

- 1) Refer to catalogue type indicating method for manifold assembly and valve switching method for documentation. Documentation example:
- 2) It is possible to order maximum 24-connection (single wiring) for single and maximum 12-connection (double wiring) for double and other specifications. (Double wiring applied for less than 12-connection)
- 3) External pilot type is not produced for dual 3-port.
- 4) In case manifold fitting size is identical along connection-set, do not fill fitting size blank, and assign fitting size at manifold assembly type indicating method. (Ex →) Manifold assembly = RSMH-DRDV-05B-T06/ Fitting size not selected)
- 5) In case manifold fitting size is different along connection-set, select applied fitting size at fitting size blank, and assign fitting size as ** at manifold assembly type indicating method. (Ex →) Manifold assembly = RSMH-DRDV-05B-**-**/ Fitting size selected)
- 6) Select O mark at applied specification.
- 7) Separately indicate items beside catalogue dimension at special items.

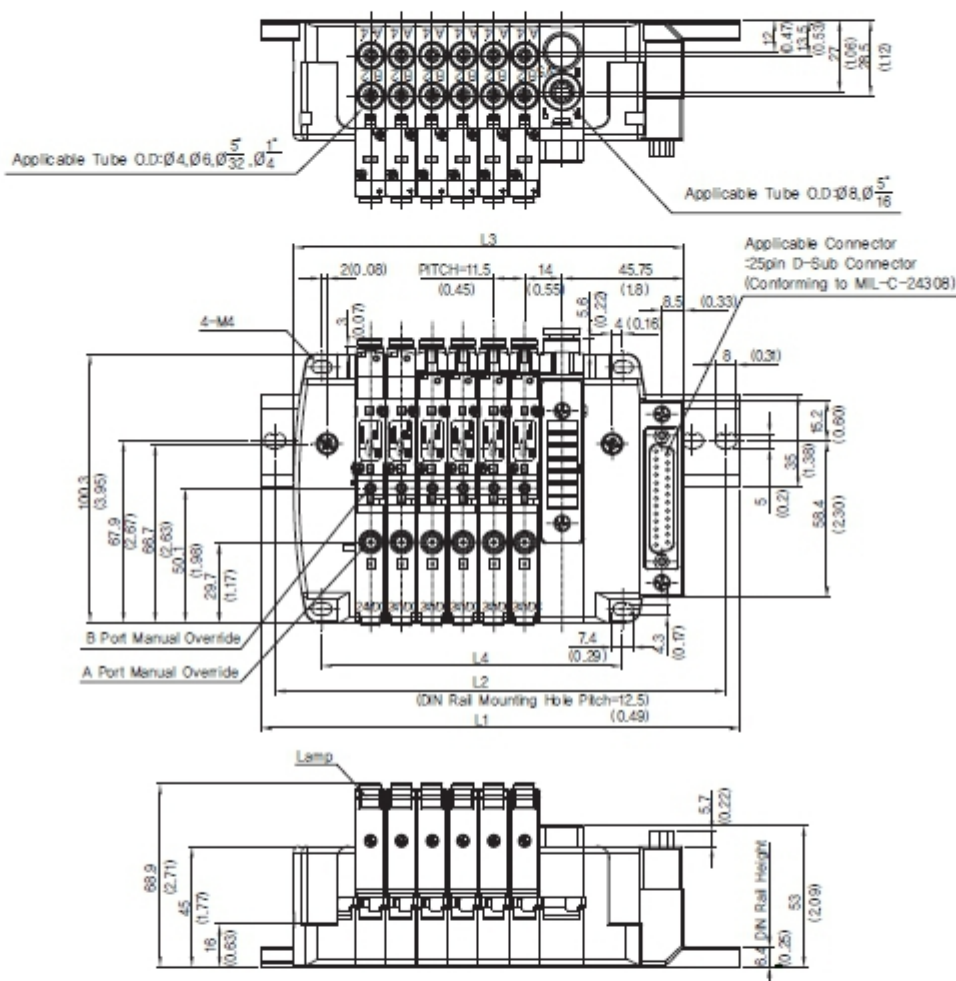
RS1000 External Dimension Drawing (Basic Type, D-Sub)



Dimensions

L	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm			209					250									387.5						437.5	
	inch			7.87					9.84					11.81				15.26						17.22	
L2	mm			187.5					237.5					287.5				375						425	
	inch			7.38					9.35					11.32				14.76						16.73	
L3	mm	100	111.5	123	134.5	146	157.5	169	180.5	192	220	231.5	243	245.5	266	277.5	289	300.5	312	323.5	335	346.5	358	369.5	
	inch	3.94	4.39	4.84	5.30	5.75	6.20	6.65	7.11	7.56	8.66	9.11	9.57	10.02	10.47	10.93	11.38	11.83	12.28	12.74	13.19	13.64	14.09	14.55	
L4	mm	66.5	7.8	88.5	101	112.5	124	135	147	158.5	86.5	196	209.5	221	232.5	244	255.5	267	278.5	290	301.5	313	324.5	336	
	inch	2.62	3.07	3.52	3.98	4.43	4.88	5.33	5.79	6.24	7.34	7.80	8.25	8.70	9.15	9.61	10.06	10.51	10.96	11.42	11.87	12.32	12.78	13.23	

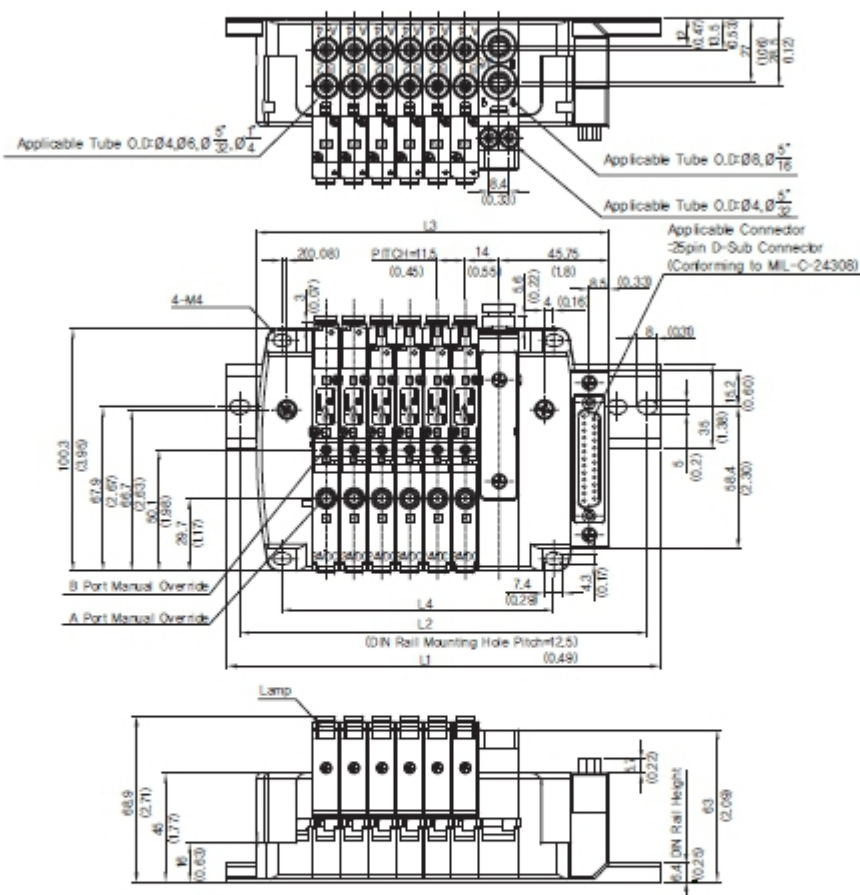
RS1000 External Dimension Drawing (Built-in Silencer, D-Sub)



Dimensions

n		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	mm			200					250				300					387.5					437.5	
	inch			7.87					9.84				11.81					15.26					17.22	
L2	mm			187.5					237.5				287.5					375					425	
	inch			7.38					9.35				11.32					14.76					16.73	
L3	mm	100	111.5	123	134.5	146	157.5	169	180.5	192	220	231.5	243	245.5	266	277.5	289	300.5	312	323.5	335	346.5	358	369.5
	inch	3.94	4.39	4.84	5.30	5.75	6.20	6.65	7.11	7.56	8.66	9.11	9.57	10.02	10.47	10.93	11.38	11.83	12.28	12.74	13.19	13.64	14.09	14.55
L4	mm	66.5	78	89.5	101	112.5	124	135.5	147	158.5	186.5	198	209.5	221	232.5	244	255.5	267	278.5	290	301.5	313	324.5	336
	inch	2.62	3.07	3.52	3.98	4.43	4.88	5.33	5.79	6.24	7.34	7.80	8.25	8.70	9.15	9.61	10.06	10.51	10.96	11.42	11.87	12.32	12.78	13.23

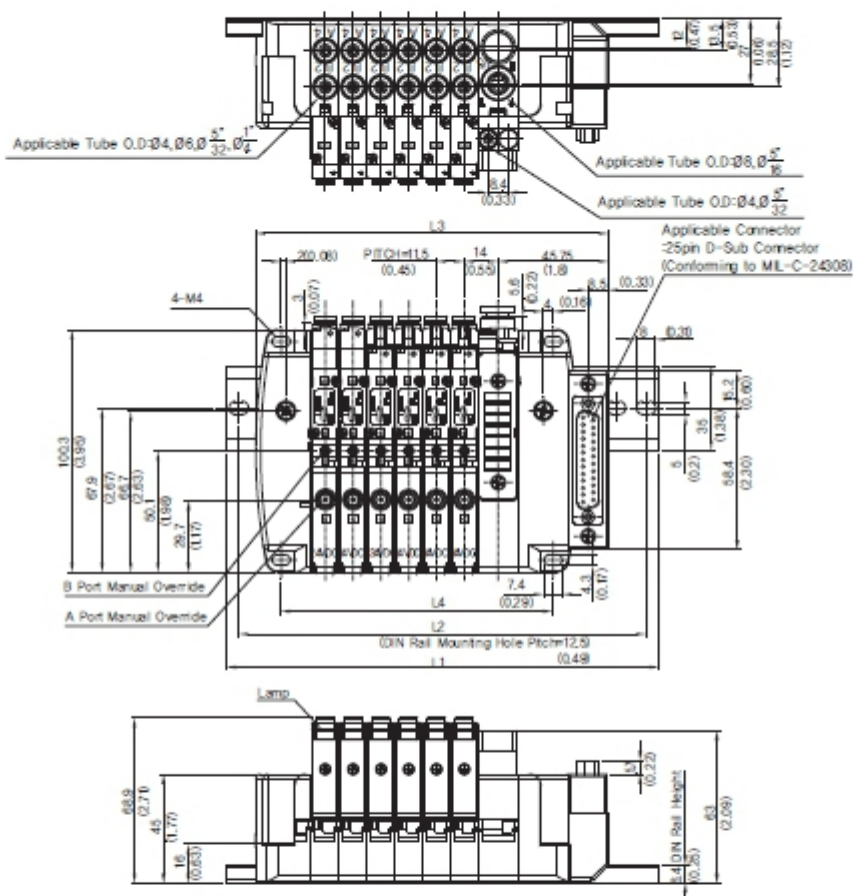
RS1000 External Dimension Drawing (External Pilot, D-Sub)



Dimensions

L	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	mm			200					250				300					387.5					437.5	
	inch			7.87					9.84				11.81					15.26					17.22	
L2	mm			187.5					237.5				287.5					375					425	
	inch			7.38					9.35				11.32					14.76					16.73	
L3	mm	100	115	123	134.5	146	157.5	169	180.5	192	220	231.5	243	245.5	266	277.5	289	300.5	312	323.5	335	346.5	358	369.5
	inch	3.94	4.39	4.84	5.30	5.75	6.20	6.65	7.11	7.56	8.66	9.11	9.57	10.02	10.47	10.93	11.38	11.83	12.28	12.74	13.19	13.64	14.09	14.55
	mm	66.5	78	88.5	101	112.5	124	135	147	158.5	186.5	198	209.5	221	232.5	244	255.5	267	278.5	290	301.5	313	324.5	336
	inch	2.62	3.07	3.52	3.96	4.43	4.88	5.33	5.79	6.24	7.34	7.80	8.25	8.70	9.15	9.61	10.06	10.51	10.96	11.42	11.87	12.32	12.78	13.23

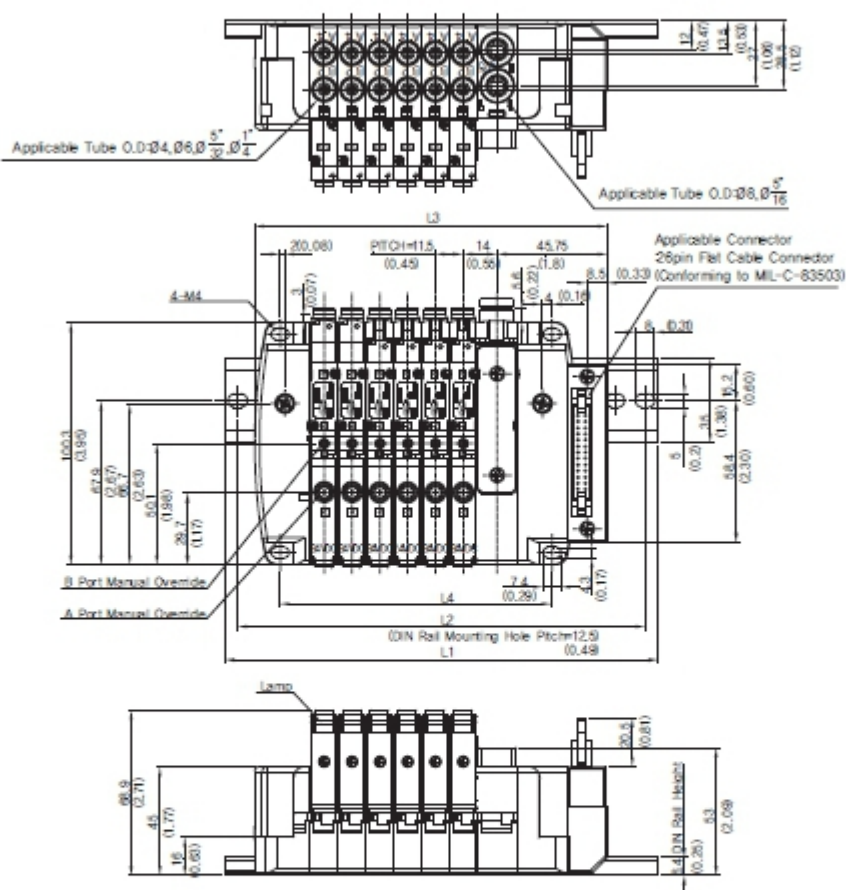
RS1000 External Dimension Drawing (External Pilot, Built-in Silencer, D-Sub)



Dimensions

L	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	mm			200					250				300					357.5					437.5	
	inch			7.87					9.84				11.81					15.26					17.22	
L2	mm			187.5					237.5				287.5					375					425	
	inch			7.38					9.35				11.32					14.76					16.73	
L3	mm	100	111.5	123	134.5	146	157.5	169	180.5	192	220	231.5	243	245.5	256	277.5	289	300.5	312	323.5	335	346.5	358	369.5
	inch	3.94	4.39	4.84	5.30	5.75	6.20	6.65	7.11	7.56	8.66	9.11	9.57	10.03	10.47	10.93	11.38	11.83	12.28	12.74	13.19	13.64	14.09	14.55
L4	mm	66.5	78	89.5	101	112.5	124	135.5	147	158.5	186.5	196	209.5	221	232.5	244	255.5	267	278.5	289	301.5	313	324.5	336
	inch	2.62	3.07	3.52	3.98	4.43	4.88	5.33	5.79	6.24	7.34	7.80	8.25	8.70	9.15	9.61	10.06	10.51	10.96	11.42	11.87	12.32	12.78	13.23

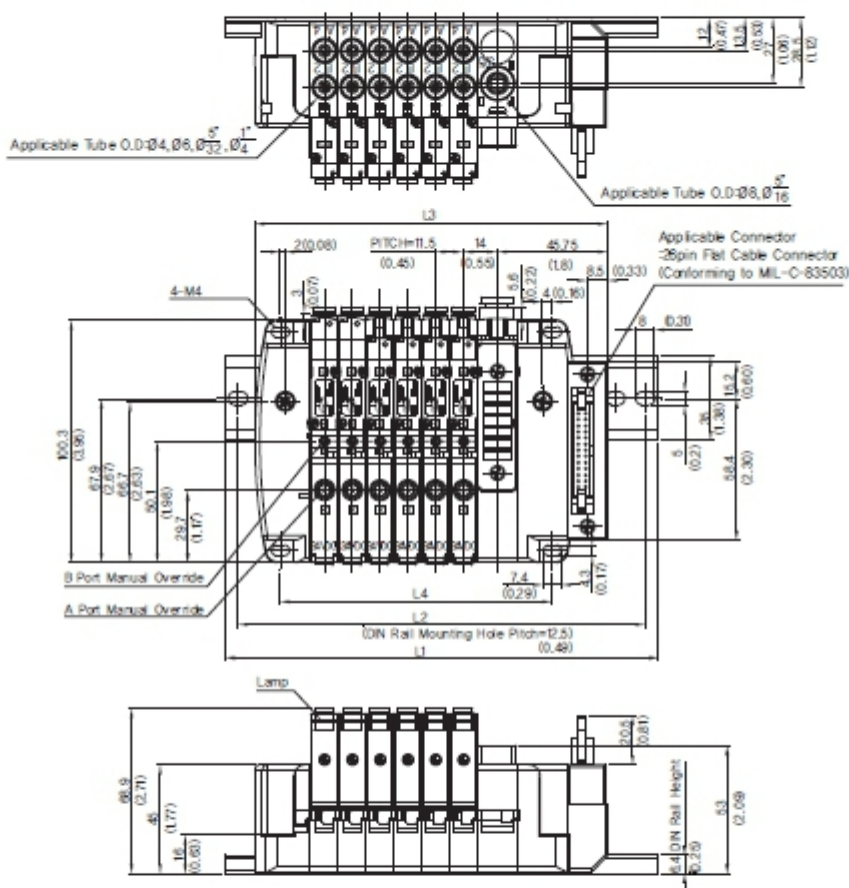
RS1000 External Dimension Drawing (Basic Type, Flat Cable)



Dimensions

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	mm								200									387.5						437.5
	inch								7.87									15.26						17.22
L2	mm								187.5									375						425
	inch								7.38									14.76						16.73
L3	mm	100	111.5	123	134.5	146	157.5	169	180.5	192	203	214.5	226	237.5	249	260.5	272	283.5	295	306.5	318	329.5	341	352.5
	inch	3.94	4.39	4.84	5.30	5.75	6.20	6.65	7.11	7.56	8.01	8.46	8.91	9.37	9.82	10.27	10.72	11.17	11.62	12.07	12.52	12.97	13.42	
L4	mm	96.5	78	80.5	101	102.5	124	135.5	147	158.5	169.5	180.5	191.5	202.5	213.5	224.5	235.5	246.5	257.5	268.5	279.5	290.5	301.5	312.5
	inch	2.62	3.07	3.52	3.98	4.43	4.88	5.33	5.79	6.24	6.70	7.15	7.60	8.05	8.50	8.95	9.40	9.85	10.30	10.75	11.20	11.65	12.10	12.55

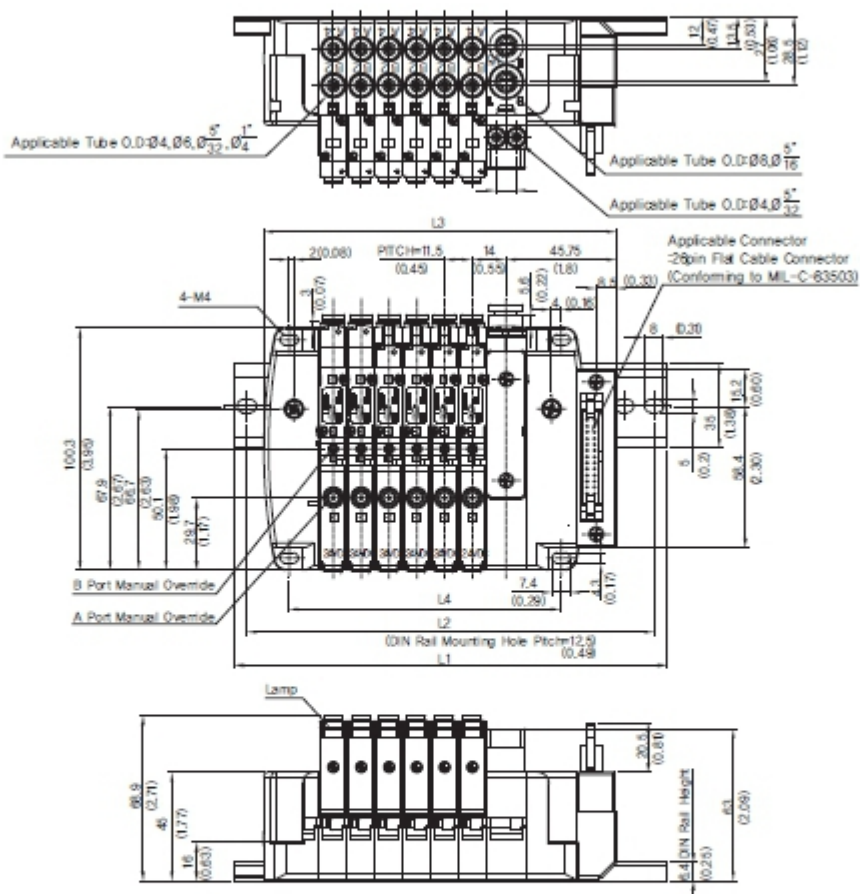
RS1000 External Dimension Drawing (Built-in Silencer, Flat Cable)



Dimensions

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm		200					250					300					387.5					437.5		
	inch		7.87					9.84					11.81					15.26					17.22		
L2	mm		187.5					237.5					287.5					375					425		
	inch		7.38					9.35					11.32					14.76					16.73		
L3	mm	100	111.5	123	134.5	146	157.5	169	180.5	192	220	231.5	243	245.5	256	277.5	289	300.5	312	323.5	335	346.5	358	369.5	
	inch	3.94	4.39	4.84	5.30	5.75	6.20	6.65	7.11	7.56	8.66	9.11	9.57	10.02	10.47	10.93	11.38	11.83	12.28	12.74	13.19	13.64	14.09	14.55	
L4	mm	66.5	78	89.5	101	112.5	124	135.5	147	158.5	166.5	188	209.5	221	232.5	244	255.5	267	278.5	290	301.5	313	324.5	336	
	inch	2.62	3.07	3.52	3.96	4.43	4.88	5.33	5.79	6.24	6.34	7.34	7.80	8.25	8.70	9.15	9.61	10.06	10.51	10.96	11.42	11.87	12.32	12.78	13.23

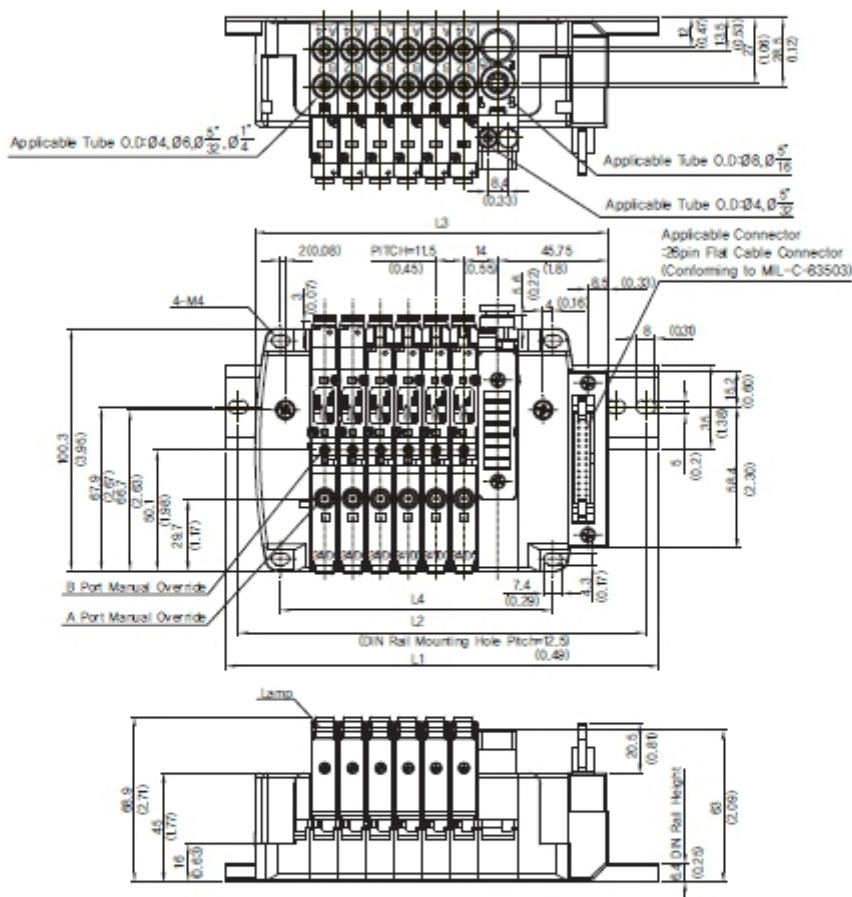
RS1000 External Dimension Drawing (External Pilot Type, Flat Cable)



Dimensions

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm		200					250					300					387.5				437.5			
	inch		7.87					9.84					11.81					15.26				17.22			
L2	mm		187.5					237.5					287.5					375				425			
	inch		7.38					9.35					11.32					14.76				16.73			
L3	mm	100	111.5	123	134.5	146	157.5	169	180.5	192	203	214.5	226	237.5	249	260.5	272	283.5	295	306.5	318	329.5	341	352.5	364
	inch	3.94	4.39	4.84	5.30	5.75	6.20	6.65	7.11	7.56	8.01	8.46	8.91	9.37	9.82	10.27	10.73	11.18	11.63	12.08	12.54	13.00	13.45	13.91	
L4	mm	66.5	78	89.5	101	112.5	124	135.5	147	158.5	169.5	181	192.5	204	215.5	227	238.5	250	261.5	273	284.5	296	307.5	319	330.5
	inch	2.62	3.07	3.52	3.98	4.43	4.88	5.33	5.79	6.24	6.69	7.14	7.59	8.04	8.49	8.94	9.39	9.84	10.29	10.74	11.19	11.64	12.09	12.54	

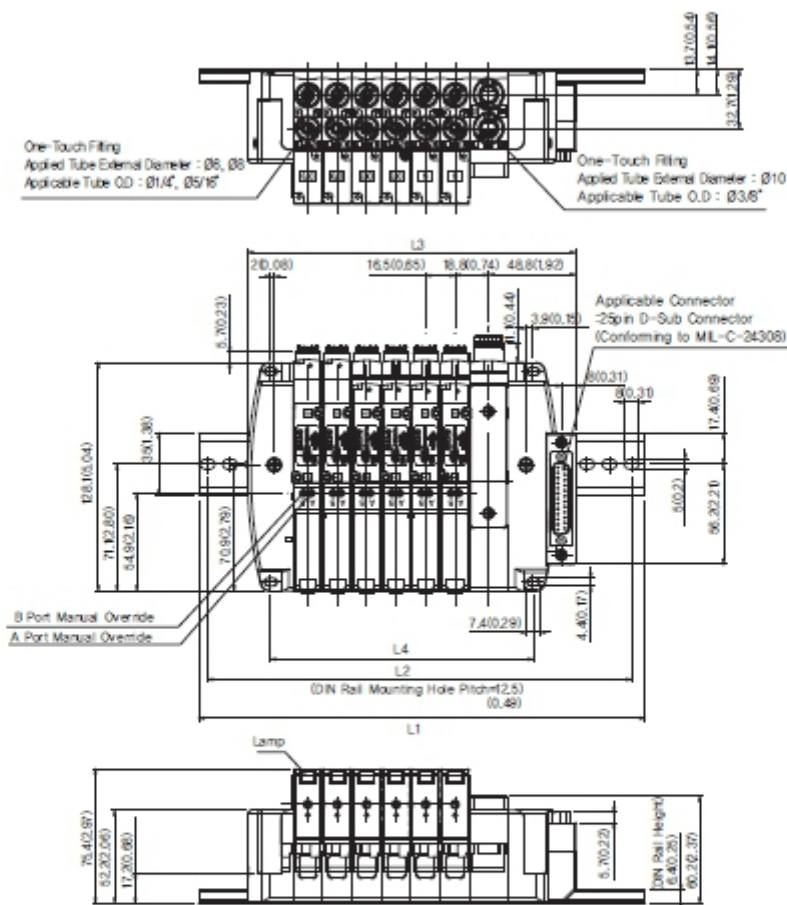
RS1000 External Dimension Drawing (Built-in Silencer, External Pilot Type, Flat Cable)



Dimensions

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	mm					200				250				300					357.5					437.5
	inch					7.87				9.84				11.81					15.26					17.22
L2	mm					187.5				237.5				287.5					375					425
	inch					7.38				9.35				11.32					14.76					16.73
L3	mm	190	111.5	121	134.5	146	157.5	169	180.5	192	220	231.5	243	245.5	266	277.5	289	300	312	323.5	335	346.5	358	369
	inch	3.94	4.39	4.84	5.30	5.75	6.20	6.65	7.11	7.56	8.66	9.11	9.57	10.02	10.47	10.93	11.38	11.83	12.28	12.74	13.19	13.64	14.09	14.55
L4	mm	66.5	78	89.5	101	112.5	124	135.5	147	158.5	186.5	198	209.5	221	232.5	244	255.5	267	278.5	290	301.5	313	324.5	336
	inch	2.62	3.07	3.52	3.98	4.43	4.88	5.33	5.79	6.24	7.34	7.80	8.25	8.70	9.15	9.61	10.06	10.51	10.96	11.42	11.87	12.32	12.78	13.23

RS2000 External Dimension Drawing (External Plot Type, Flat Cable)



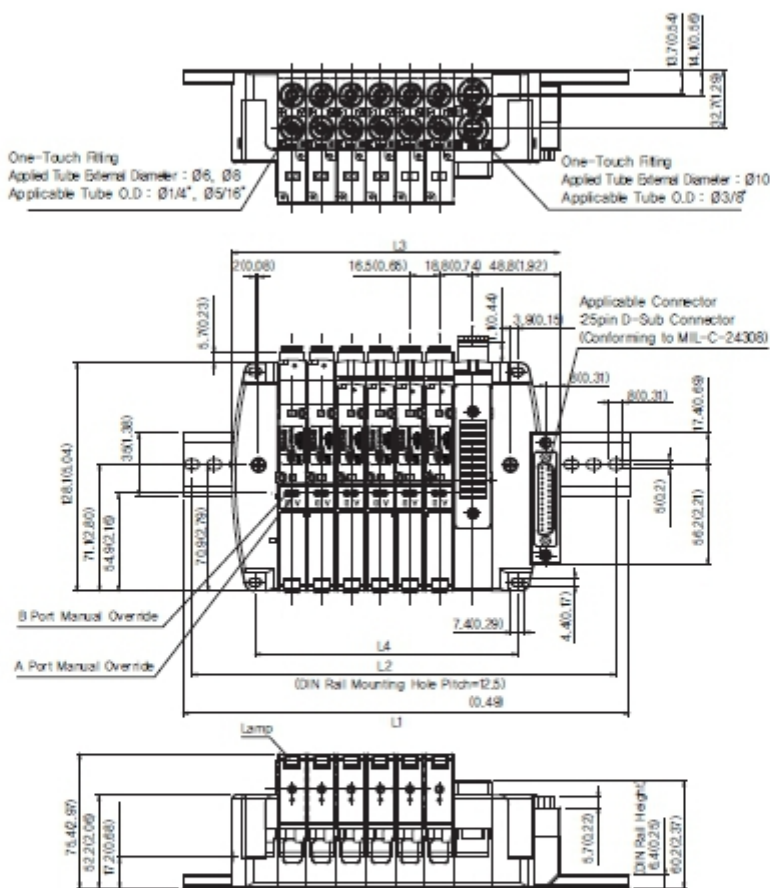
Dimensions

Units : mm(inch)

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm		250					300				400					500					587			
	inch		9.84					11.81				15.7					19.7					23.1			
L2	mm		237.5					287.5				387.5					487.5					574.5			
	inch		9.35					11.3				15.2					19.2					22.6			
L3	mm	17.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	267.2	283.7	300.2	316.7	333.2	349.7	366.2	382.7	399.2	415.7	432.2	448.7	465.2	481.7	498.2
	inch	0.69	5.28	5.93	6.58	7.23	7.88	8.53	9.18	9.83	10.48	11.13	11.78	12.43	13.08	13.73	14.38	15.03	15.68	16.33	16.98	17.63	18.28	18.93	19.58
L4	mm	81	97.5	114	130.5	147	163.5	180	196.5	213	229.5	246	262.5	279	295.5	312	328.5	345	361.5	378	394.5	411	427.5	444	460.5
	inch	3.19	3.84	4.49	5.14	5.79	6.44	7.09	7.74	8.39	9.04	9.69	10.34	10.99	11.64	12.29	12.94	13.59	14.24	14.89	15.54	16.19	16.84	17.49	18.14

Note: 0 in case N-connection is additionally installed at Sup/Exh Block, L3 and L4 need to add 25 (0.83) X N from the dimension above.

RS2000 External Dimension Drawing(External Pilot Type, Flat Cable)



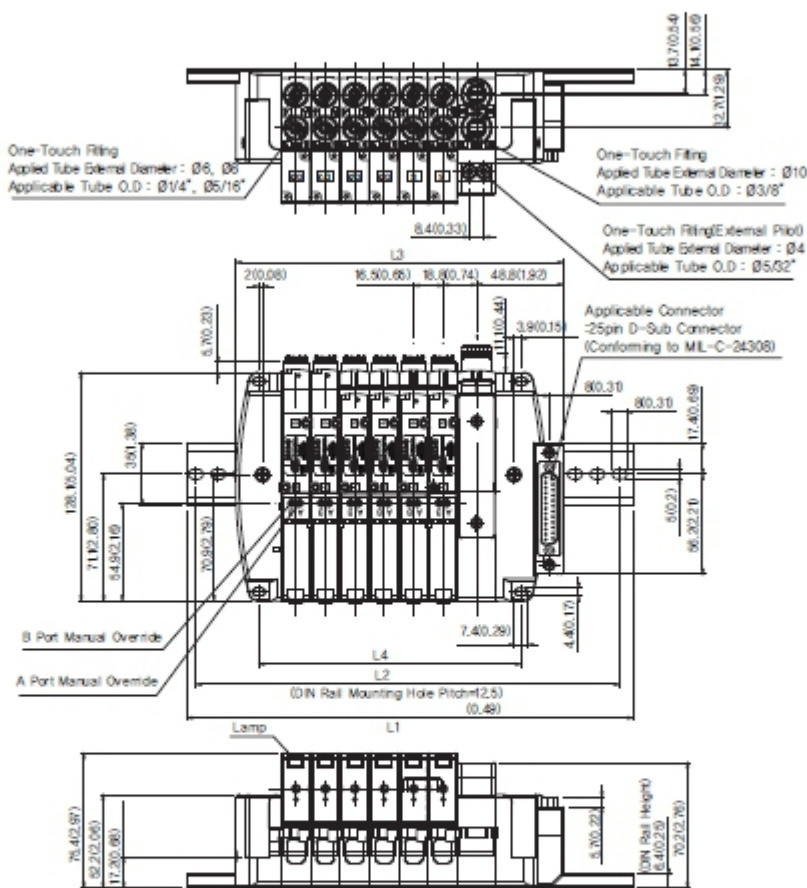
Dimensions

Units : mm(inch)

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm		250					300					400					500					587		
	inch		9.84					11.81					15.7					19.7					23.1		
L2	mm		237.5					287.5					387.5					487.5					574.5		
	inch		9.35					11.3					15.2					19.2					22.6		
L3	mm	117.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	266.2	282.7	299.2	315.7	332.2	348.7	365.2	381.7	398.2	414.7	431.2	447.7	464.2	480.7	497.2
	inch	4.63	5.28	5.93	6.58	7.23	7.88	8.53	9.18	9.83	10.48	11.13	11.78	12.43	13.08	13.73	14.38	15.03	15.68	16.33	16.98	17.63	18.28	18.93	19.58
L4	mm	81	97.5	114	130.5	147	163.5	180	196.5	213	229.5	246	262.5	279	295.5	312	328.5	345	361.5	378	394.5	411	427.5	444	460.5
	inch	3.19	3.84	4.49	5.14	5.79	6.44	7.09	7.74	8.39	9.04	9.69	10.34	10.99	11.64	12.29	12.94	13.59	14.24	14.89	15.54	16.19	16.84	17.49	18.14

Note 1) In case N-connection is additionally installed at Sup/Exh Block, L3 and L4 need to add 21 (0.83) X N from the dimension above.

RS2000 External Dimension Drawing (External Pilot Type, Flat Cable)



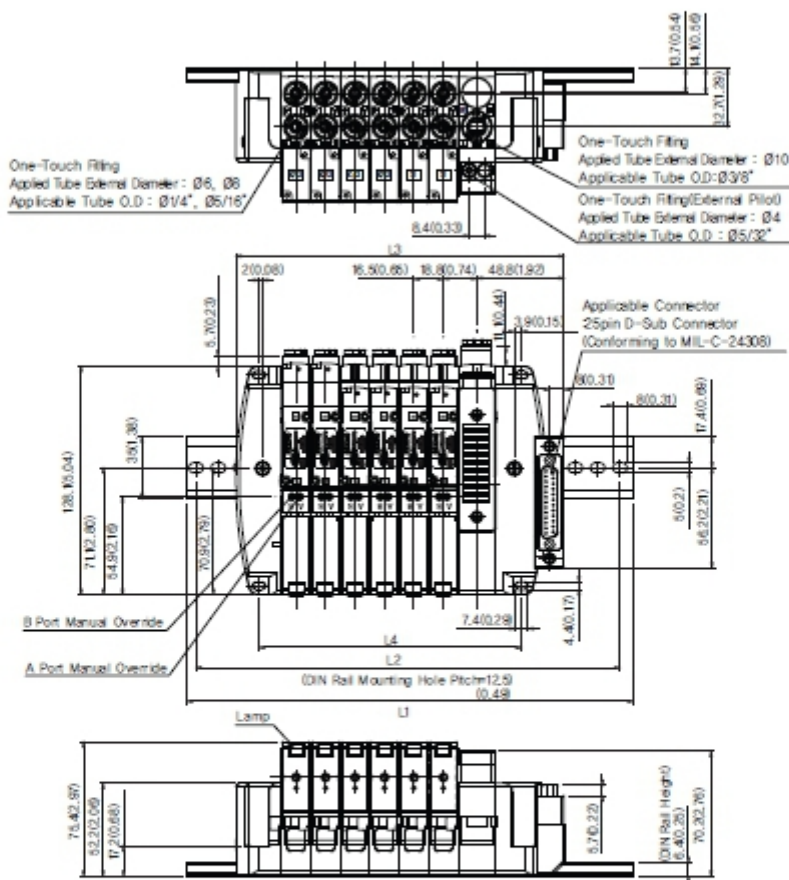
Dimensions

Units : mm(inch)

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm		250					300					400				500					587			
	inch		9.84					11.81					15.7				19.7					23.1			
L2	mm		237.5					287.5					387.5				487.5					574.5			
	inch		9.35					11.3					15.2				19.2					22.6			
L3	mm	17.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	267.2	283.7	300.2	316.7	333.2	349.7	366.2	382.7	399.2	415.7	432.2	448.7	465.2	481.7	498.2
	inch	0.69	5.28	5.93	6.58	7.23	7.88	8.53	9.18	9.83	10.48	11.13	11.78	12.43	13.08	13.73	14.38	15.03	15.68	16.33	16.98	17.63	18.28	18.93	19.58
L4	mm	81	97.5	114	130.5	147	163.5	180	196.5	213	229.5	246	262.5	279	295.5	312	328.5	345	361.5	378	394.5	411	427.5	444	460.5
	inch	3.19	3.84	4.49	5.14	5.79	6.44	7.09	7.74	8.39	9.04	9.69	10.34	10.99	11.64	12.29	12.94	13.59	14.24	14.89	15.54	16.19	16.84	17.49	18.14

Note 1) In case N-correction is additionally installed at Sup/Ext Block, L3 and L4 need to add 21 (0.83) X N from the dimension above.

RS2000 (External Pilot type, Flat Cable)



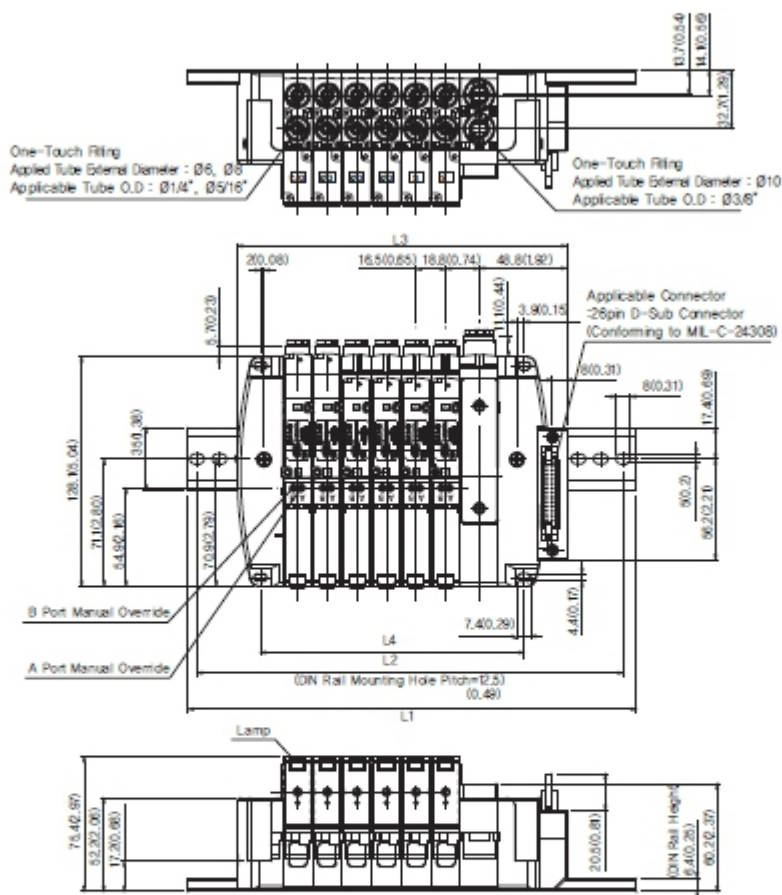
Dimensions

Units : mm(inch)

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm		250					300					400					500					587		
	inch		9.84					11.81					15.7					19.7					23.1		
L2	mm		237.5					287.5					387.5					487.5					574.5		
	inch		9.35					11.3					15.2					19.2					22.6		
L3	mm	117.7	134.2	150.7	167.2	183.7	199.2	216.7	233.2	249.7	267.2	283.7	300.2	316.7	333.2	350.7	367.2	383.7	400.2	416.7	433.2	450.7	467.2	483.7	500.2
	inch	4.63	5.28	5.93	6.58	7.23	7.88	8.53	9.18	9.83	10.48	11.13	11.78	12.43	13.08	13.73	14.38	15.03	15.68	16.33	16.98	17.63	18.28	18.93	19.58
L4	mm	81	97.5	114	130.5	147	163.5	180	196.5	213	229.5	246	262.5	279	295.5	312	328.5	345	361.5	378	394.5	411	427.5	444	460.5
	inch	3.19	3.84	4.49	5.14	5.79	6.44	7.09	7.74	8.39	9.04	9.69	10.34	10.99	11.64	12.29	12.94	13.59	14.24	14.89	15.54	16.19	16.84	17.49	18.14

Note 0 in case N-connection is additionally installed at Sup/Exh Block, L3 and L4 need to add 21 (0.83" X N from the dimension above.

RS2000 External Dimension Drawing (External Pilot Type, Flat Cable)



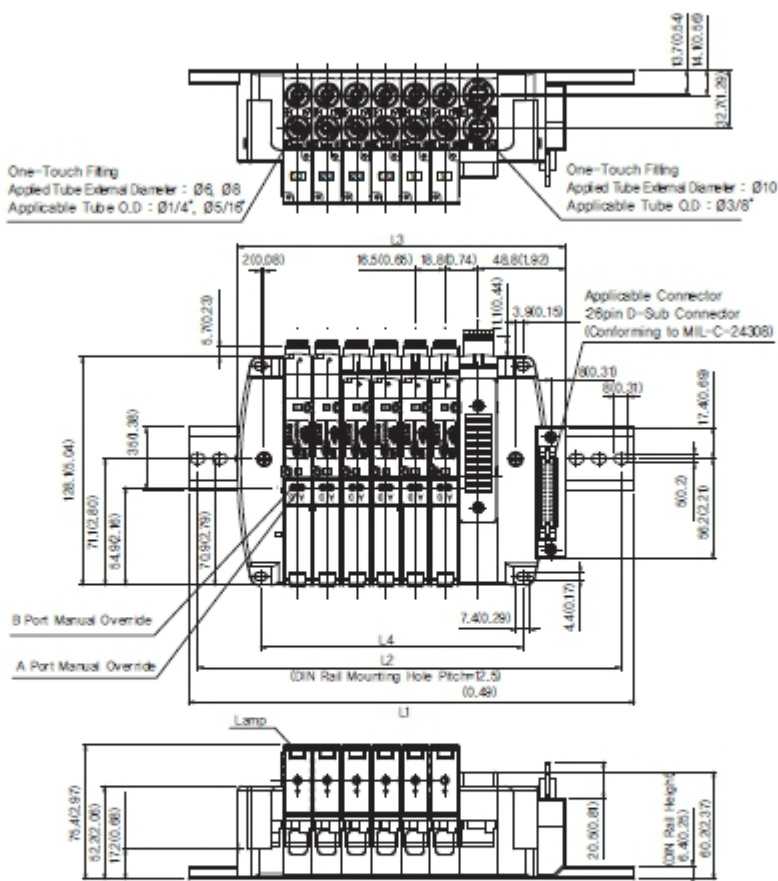
Dimensions

(Units : mm/inch)

n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm	250					300				400					500					587			
	inch	9.84					11.81				15.7					19.7					23.1			
L2	mm	237.5					287.5				387.5					487.5					574.5			
	inch	9.35					11.3				15.2					19.2					22.6			
L3	mm	17.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	267.2	283.7	300.2	316.7	333.2	349.7	366.2	382.7	399.2	415.7	432.2	448.7	465.2	501.7
	inch	0.69	5.28	5.93	6.58	7.23	7.88	8.53	9.18	9.83	10.48	11.13	11.78	12.43	13.08	13.73	14.38	15.03	15.68	16.33	16.98	17.63	18.28	19.75
L4	mm	81	97.5	114	130.5	147	163.5	180	196.5	213	230	246.5	263	279.5	296	312.5	329	345.5	362	378.5	395	411.5	428	444.5
	inch	3.19	3.84	4.49	5.14	5.79	6.44	7.09	7.74	8.39	9.04	9.69	10.34	10.99	11.64	12.29	12.94	13.59	14.24	14.89	15.54	16.19	16.84	17.49

Note 1) In case N-correction is additionally installed at Sup/Ext Block, L3 and L4 need to add 21.0 (0.83) X N from the dimension above.

RS2000 External Dimension Drawing (External Pilot Type, Flat Cable)



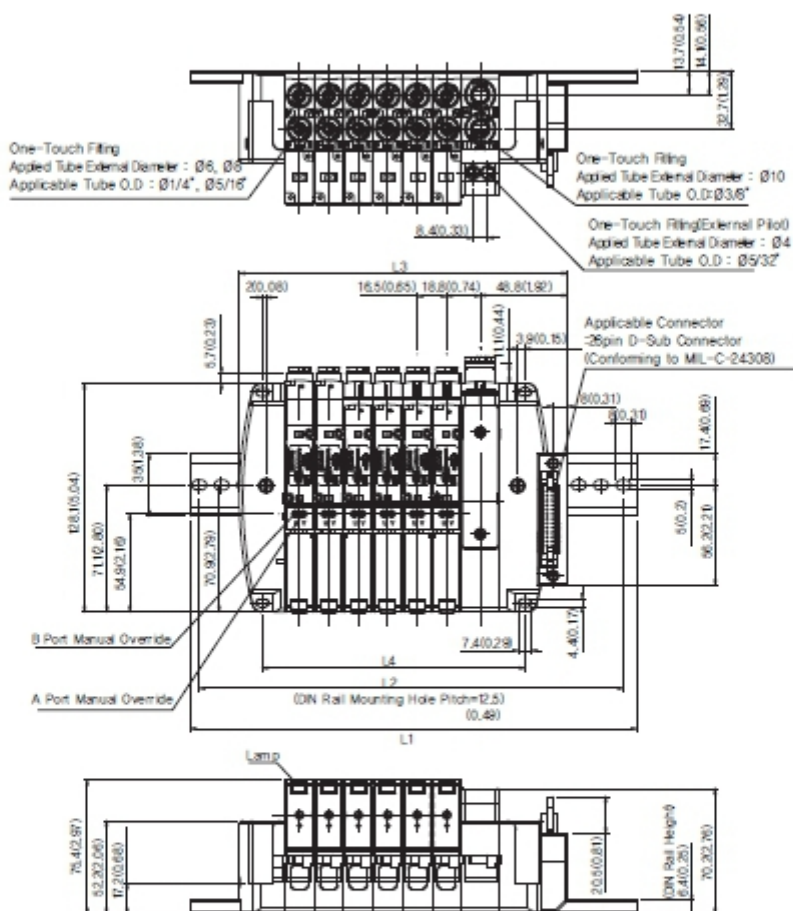
Dimensions

Units : mm(inch)

	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm		250					300					400					500					587		
	inch		9.84					11.81					15.7					19.7					23.1		
L2	mm		237.5					287.5					387.5					487.5					574.5		
	inch		9.35					11.3					15.2					19.2					22.6		
L3	mm	112.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	267.2	283.7	300.2	316.7	333.2	349.7	366.2	382.7	399.2	415.7	432.2	448.7	465.2	481.7	498.2
	inch	4.43	5.28	5.93	6.58	7.23	7.88	8.53	9.18	9.83	10.48	11.13	11.78	12.43	13.08	13.73	14.38	15.03	15.68	16.33	16.98	17.63	18.28	18.93	19.58
L4	mm	81	97.5	114	130.5	147	163.5	180	196.5	213	229.5	246	262.5	279	295.5	312	328.5	345	361.5	378	394.5	411	427.5	444	460.5
	inch	3.19	3.84	4.49	5.14	5.79	6.44	7.09	7.74	8.39	9.04	9.69	10.34	10.99	11.64	12.29	12.94	13.59	14.24	14.89	15.54	16.19	16.84	17.49	18.14

Note ① in case N-connection is additionally installed at Sup/Ext Block, L3 and L4 need to add 21 (0.83) XIN from the dimension above.

RS2000 External Dimension Drawing (External Pilot Type, Flat Cable)



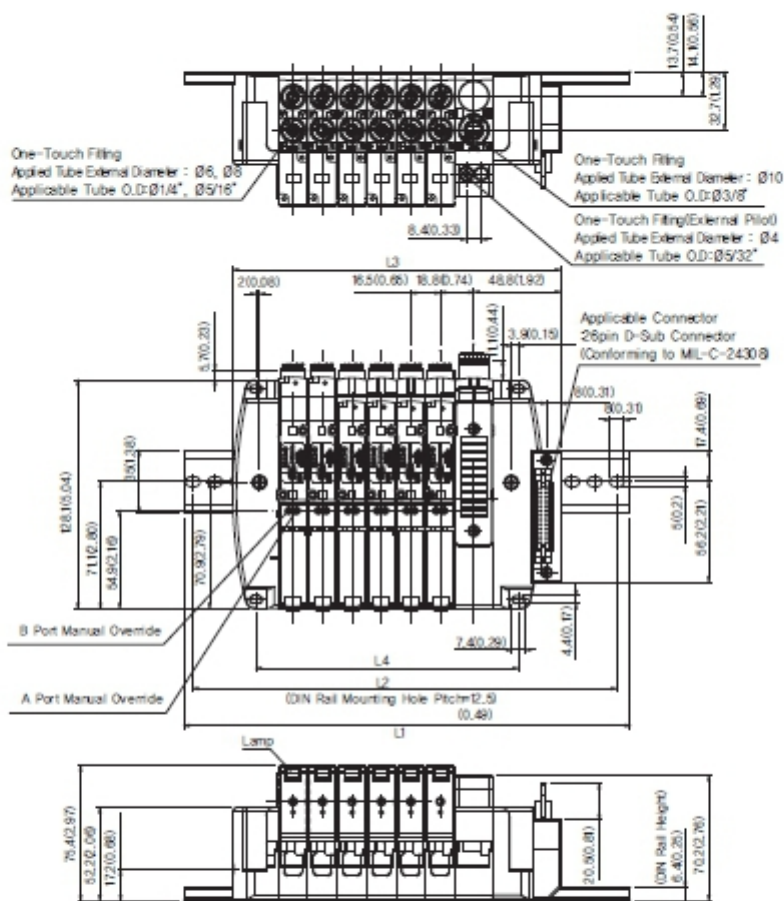
Dimensions

(Units : mm(inch))

n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm	250					300				400					500					587			
	inch	9.84					11.81				15.7					19.7					23.1			
L2	mm	237.5					287.5				387.5					487.5					574.5			
	inch	9.35					11.3				15.2					19.2					22.6			
L3	mm	17.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	266.2	282.7	299.2	315.7	332.2	348.7	365.2	381.7	398.2	414.7	431.2	447.7	464.2	480.7
	inch	0.69	5.28	5.93	6.58	7.23	7.88	8.53	9.18	9.83	10.48	11.13	11.78	12.43	13.08	13.73	14.38	15.03	15.68	16.33	16.98	17.63	18.28	18.93
L4	mm	81	97.5	114	130.5	147	163.5	180	196.5	213	229.5	246	262.5	279	295.5	312	328.5	345	361.5	378	394.5	411	427.5	444
	inch	3.19	3.84	4.49	5.14	5.79	6.44	7.09	7.74	8.39	9.04	9.69	10.34	10.99	11.64	12.29	12.94	13.59	14.24	14.89	15.54	16.19	16.84	17.49

Note 1) In case N-connection is additionally installed at Sup/Ext Block, L3 and L4 need to add 21.0 (0.83) X N from the dimension above.

RS2000 External Dimension Drawing(External Pilot Type, Flat Cable)



Dimensions

Units : mm(Inch)

n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
L1	mm	250						300				400					500				587			
	inch	9.84						11.81				15.7					19.7				23.1			
L2	mm	237.5						287.5				387.5					487.5				574.5			
	inch	9.35						11.3				15.2					19.2				22.6			
L3	mm	117.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	266.2	282.7	299.2	315.7	332.2	348.7	365.2	381.7	398.2	414.7	431.2	447.7	464.2	480.7
	inch	4.63	5.28	5.93	6.58	7.23	7.88	8.53	9.18	9.83	10.48	11.13	11.78	12.43	13.08	13.73	14.38	15.03	15.68	16.33	16.98	17.63	18.28	18.93
L4	mm	81	97.5	114	130.5	147	163.5	180	196.5	213	229.5	246	262.5	279	295.5	312	328.5	345	361.5	378	394.5	411	427.5	444
	inch	3.19	3.84	4.49	5.14	5.79	6.44	7.09	7.74	8.39	9.04	9.69	10.34	10.99	11.64	12.29	12.94	13.59	14.24	14.89	15.54	16.19	16.84	17.49

Note 1) In case N-connection is additionally installed at Sup/Ext Block, L3 and L4 need to add 21 (0.83) X N from the dimension above.

Please fully understand the contents herein, and check details along relevant types for notices along each series.

Notices About Products (1-1)

Danger

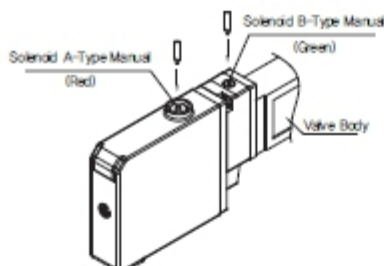
[Basic Contents for Users]

- 1) There is possible damage to the product, do not bend a product with excessive load under fully assembled condition.
- 2) In order to prevent malfunctioning of valve, implement inspection after shutting down pressure and power for increasing/decreasing valve.

Notice

[Manual Control of Non-Lock Push Method]

- 1) In application of tools such as screwdriver, softly press manual button up/down.
- 2) If pressing and releasing the button, manual mode is returned to automatic mode.
- 3) In case of pressing manual with an angle, it may cause damage or breakdown.



Warning

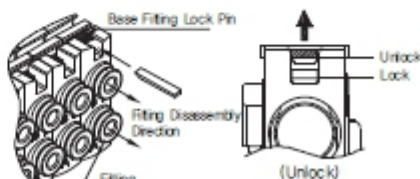
- 1) In case of replacing fittings, please carry out after checking pressure removal.
 - 2) Be cautious if releasing fitting lock pin, A and B fittings are disassembled.
 - 3) Long period continual power supply
 - ① In case of long period continual power supply to electric valve, it can cause performance of electric valve or vicinity equipments owing to temperature elevation of coil.
 - ② In case of long period continual power supply of electric valve with attaching in control panel or insulated space, please make heat-prevention measure within applicable temperature range of valve.
- ★ In case of long period continual power supply for electric valve of close 3-connection or more in the same manifold, be cautious as temperature can increase.

Notice

[Fitting Replacement Method]

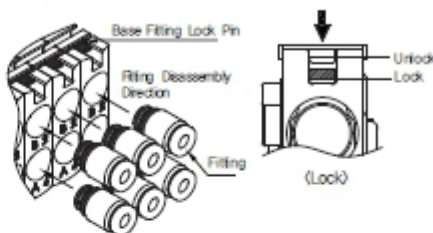
- Disassembly -

- 1) Lift base fitting lock pin with a tool like flat-head screwdriver without excessive force using leverage effect till disassemble status.
- 2) After removing lock pin, gradually add force on fittings to extract to forward direction.
- 3) Be cautious not to miss fittings from abrupt disassembly.



- Assembly -

- 1) After fully inserting a fitting in A and B port under disassembly status, locate lock pin into lock-status.
- 2) Be cautious that if lock pin is not fully locked, lock pin is possibly damaged or disassembled.



[In case of Tube Installation]

- 1) Fully and slowly insert tube into fitting.
- 2) Check if tube is extracted by tight-pulling after installation of tube.
- 3) Cut torn or overlapped part of tube for proper utilization if any. (It may cause leakage.)

Notice for RS1000 Plug In Valve Utilization

Please fully understand the contents herein, and check details along relevant types for notices along each series.

Notices Along Products (1-2)

Danger

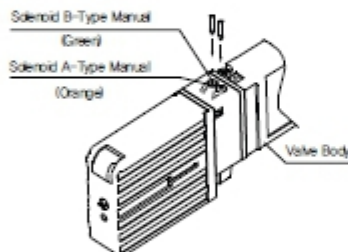
[Basic Contents for Users]

- 1) There is possible damage to the product, do not bend a product with excessive load under fully assembled condition.
- 2) In order to prevent malfunctioning of valve, implement inspection after shutting down pressure and power for increasing/decreasing valve.

Notice

[Manual Control of Non-Lock Push Method]

- 1) In application of tools such as screwdriver, softly press manual button up/down.
- 2) If pressing and releasing a button, manual mode is returned to automatic mode.
- 3) In case of pressing manual with an angle, it may cause damage or breakaway.



Warning

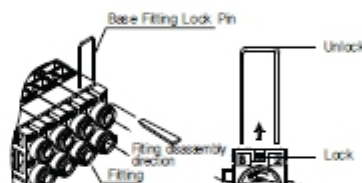
- 1) In case of replacing fittings, please carry out after checking pressure removal.
- 2) Be cautious if releasing fitting lock pin, A and B fittings are disassembled.
- 3) Long period continual power supply
 - ① In case of long period continual power supply to electric valve, it can possibly bring effect to performance of the electric valve or vicinity equipments owing to temperature elevation of coil.
 - ② In case of long period continual power supply of electric valve with attaching in control panel or insulated space, please make heat-prevention measure within applicable temperature range of valve.
- * In case of long period continual power supply for electric valve of close 3-connection or more in the same manifold, be cautious for dramatic temperature increasing.

Notice

[Fitting Replacement Method]

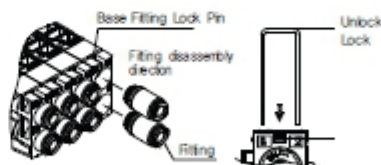
- Disassembly -

- 1) Possible to replace fittings with valve installed status for single, double and dual valve.
- 2) Fitting replacement available for 3-position valve after removing valve.
- 3) Lift base fitting lock pin with a tool like flat-head screwdriver without excessive force using leverage effect till disassemble status.
- 4) After removing lock pin, gradually add force on fittings to extract to forward direction.
- 5) Be cautious not to miss fittings from abrupt disassembly.



- Assembly -

- 1) After fully inserting a fitting in A and B port under disassembly status, locate lock pin into lock-status.
- 2) Be cautious that if lock pin is not fully locked, lock pin is possibly damaged or disassembled.



[In case of Tube installation]

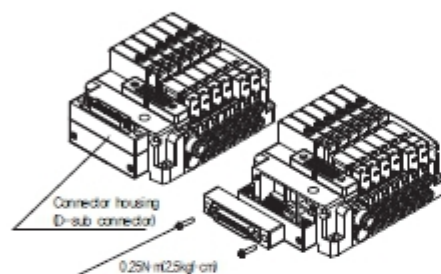
- 1) Fully and slowly insert tube into fitting.
- 2) Check if tube is extracted by light-pulling after installation of tube.
- 3) Cut torn or overlapped part of tube for proper utilization if any. (It may cause leakage.)

Notices Along Products (2)

△ Notice

[Notices for Connector Extracting Direction Change]

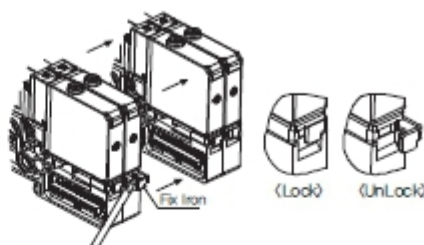
- Horizontal or vertical attaching is available for extracting direction of D-sub and Flat cable connector for disassembly/assembly of connector housing. (But, assemble with proper torque for screw connecting)
- In case of assembly of connector housing, overlap of lead wire may cause disconnection during assembly. Connect with screw after checking lead wire settled inside.
- If excessively pulling D-sub or flat cable connector housing after disassembly, it may cause connection failure owing to extraction of internal connector.



△ Notice

[Assembly/Disassembly of Valve Block]

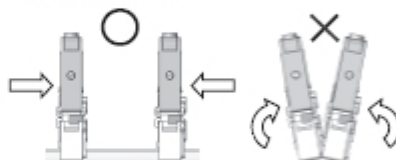
- In case of valve block increase/decrease, bracket should be located in releasing status.
- Bracket is disassembled using leverage effect with inserting fittings like flat-head screwdriver into base hole.
- It is released if disassembled in maximum without applying excessive force on bracket.
- Be cautious, if excessive external force is applied to bracket, it may cause bending or damage.
- Easy disassembly is available if fitting face is opened under released condition of bracket. (But, if it is forced to be disassembled with excessive force, it may cause damage to products.)
- In case of valve block assembly, bracket of assembly target block and its counter-block should be located at disassembly location. (If bracket is located at assembly status, it does not allow assembly, and excessive assembly may cause bending of bracket, which defers assembly)
- Prior to assembly of block, check attachment condition of passage part O-ring and gasket, and locate each passage part and wiring connector horizontally adjusted.
- In case of valve block increase/decrease, it should be assembled or disassembled with Din-rail or tie rod attached condition. In case of rail or tie rod not existed, wiring connector connection is properly made only if valve block is assembled or disassembled with laying on flat floor.
- In order to prevent connection failure of wiring connector, check assembly status additionally.
- Pull bracket III It is fully locked for fixing after attachment. (Unstable block attachment may cause imperfect assembly of bracket, so that pull bracket after complete attachment)



△ Warning

[Valve Block Assembly Method]

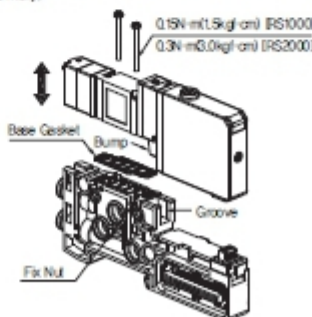
- Assembly must be executed with Din-rail or tie rod attached condition for valve block assembly. In case Din-rail or tie rod does not exist, assemble valve block with laying on flat floor which makes assembly surface horizontal and applying certain degree of force on both hands.
- Improper assembly method may cause damage of connector and connection failure.



△ Notice

[Assembly/Disassembly of Valve]

- Valve replacement is available with valve block assembled condition.
- Carry out valve after checking gasket settled status and fixing nut of base.
- Insert bump of valve into groove of base in advance during valve assembly. (Only if bump and groove are coincident, power supply connector and mount screw locations are coincident)
- Assemble mount screw of valve at a base with proper torque. (Power connector is automatically connected by screw assembly)



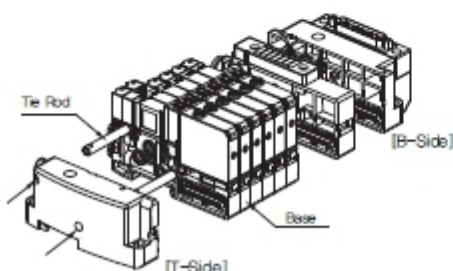
Notice for RS1000 & RS2000 Plug In Valve Utilization

Notice Along Products (3)

⚠ Notice

[Assembly/Disassembly of Tie Rod Type]

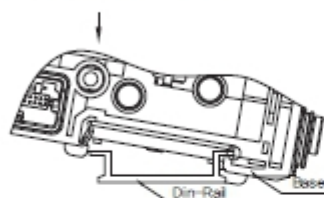
- 1) Use in case failure of installation by installation in severe vibration or multi-connection is used.
- 2) Tie rod suitable for target connection of increase/decrease of valve should be applied.
- 3) In case of base disassembly, disassemble valve block after disassembly of screw of T-side screws (2EA).



[Din-Rail Type Connection]

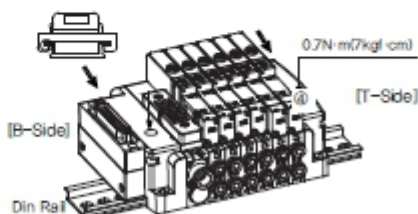
- 1) It is easy to increase/decrease and attachment of Din rail.
- 2) Please connect Din rail base in application of leverage effect based on lower groove of base.
- 3) Disassemble in the opposite sequence of assembly.

(In Case of Base Connection)

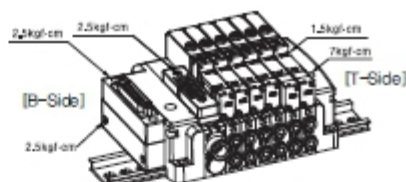


[Connecting to TB-Side Cover]

- 1) Use Din rail stopper of T and B-side covers to fix Din rail.
- 2) Since Din rail stopper is possibly assembled unstable as it is shown in a figure below, please connect screw with pulling the cover into arrow direction along the sequence.
- 3) If valve block is not properly assembled or disassembled under Din rail fixed condition, please carry out assembly/disassembly of block after disassembly of Din rail.



[Screw Proper Connection Torque]



Notice Along Products (4)

⚠ Notice

[Wiring]

- 1) This product is available for maximum 24 points in case of using D-sub (25 pin) and flat cable (26 pin), and also possible for (+) and (-) Common.
- 2) Available for single and double wiring under the same base, and it is designed for double wiring as a base and possible to replace to single wiring.
- 3) Single wiring is used for over 13-connection. In case internal wire of base is single, only single valve installation is available, and in case of double wire, all types of valve installation including single valve are available.
- 4) In case of inserting single wire into middle connection number, be cautious that contact point sequence on D-sub or flat cable is possibly changed.

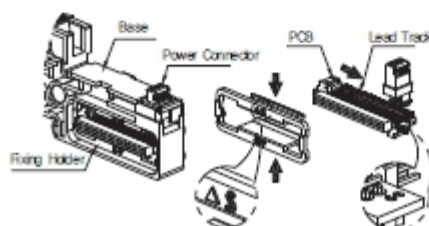
(Ea)



⚠ Warning

[Replacement to Single Wire]

- 1) Single wiring is set only when control point is not sufficient during valve control.
- 2) Disassembly from base with pressing PCB fixing holder.
- 3) Please disassemble power connector without applying excessive force to lead track, PCB and connector after disassembly of PCB.
(Applying excessive force may cause damage to lead track)
- 4) Assemble to base with connecting lead track connector of "S" face and carefully inserting header pin directing to inside.
- 5) Assemble under the condition which "S" of fixing holder shows upward.



[Piping]

- 1) In case of lack of supply or generation of back-pressure, it is possible to resolve with increment of Sup/Exh block.
- 2) It is possible to add Sup/Exh block without limitation, however, it should be cautious for the length of tie rod or Din rail.
- 3) In case of using a number of blocks, it is less effective to use the same main supply line, so that it is recommended to use additional supply line.

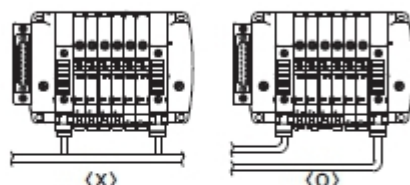


Table for Line Colors Along D-Sub Connector Terminal Number

Terminal Number	Lead Track Color	Terminal Number	Lead Track Color
1	Black	14	Green, Yellow Line
2	Black, White Line	15	Green, White Line
3	Brown	16	Blue
4	Brown, White Line	17	Blue, Yellow Line
5	Red	18	Blue, White Line
6	Red, Yellow Line	19	Violet
7	Red, White Line	20	Violet, White Line
8	Pink	21	Gray
9	Pink, White Line	22	Gray, Red Line
10	Yellow	23	White
11	Yellow, Red Line	24	White, Red Line
12	Yellow, Blue Line	25	White, Blue Line
13	Green		