

Solenoid Valve SVB

Pilot solenoid valve with 3/5 ports (Stand-alone and Manifold type)

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation of Stand-alone unit (Example)

SVB	10	D	-	S	W	-	D24
(1)	(2)	(3)		(4)	(5)	(6)	(7)

(1) Solenoid Valve SVB

(2) Valve series

Code	10	15	18	22
Series	10 Series (Valve width: 10mm (0.39in.))	15 Series (Valve width: 15mm (0.59in.))	18 Series (Valve width: 18mm (0.71in.))	22 Series (Valve width: 22mm (0.87in.))

(3) Valve type

Code	No. of ports	No. of positions	Valve type
S	5	2	Single solenoid
D			Double solenoid
A		3	Closed center
R			Exhaust center
P			Pressure center
M (*)	3	2	Single solenoid, Normally closed
N (*)			Single solenoid, Normally open
Z (*)			Double solenoid

* For 15 and 18 series only.

(4) Connector lead-out direction

Code	S	L
Lead-out direction	Top	Side



S: Top



L: Side

(5) Body color

Code	B	W
spec.	Black	Light gray

* Light gray only for 10 series.

(6) Manual override

Code	No code	H
spec.	Push-turn locking	Push (no-locking)

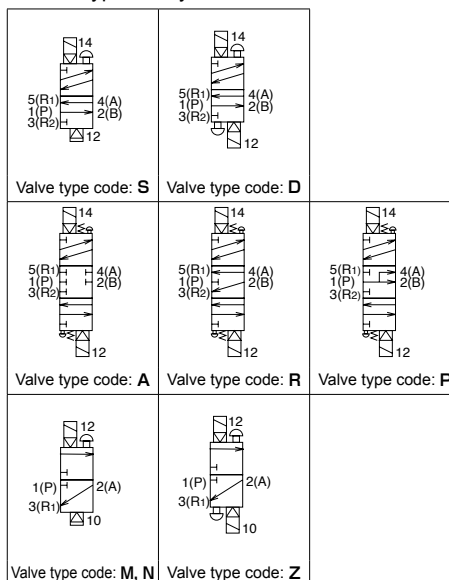
* No need to specify for 10 series (Push-turn locking only).

(7) Rated voltage

Code	D24	A100	A110	A200	A220
Rated voltage	24VDC	100VAC	110VAC	200VAC	220VAC

* 10 Series has 24VDC or 100VAC selection only.

■ Valve type JIS symbol



Model Designation of Manifold Top-mounting unit alone (Example)



(1) Solenoid Valve SVB

(2) Valve series

Code	10	15	18	22
Series	10 Series (Valve width: 10mm (0.39in.))	15 Series (Valve width: 15mm (0.59in.))	18 Series (Valve width: 18mm (0.71in.))	22 Series (Valve width: 22mm (0.87in.))

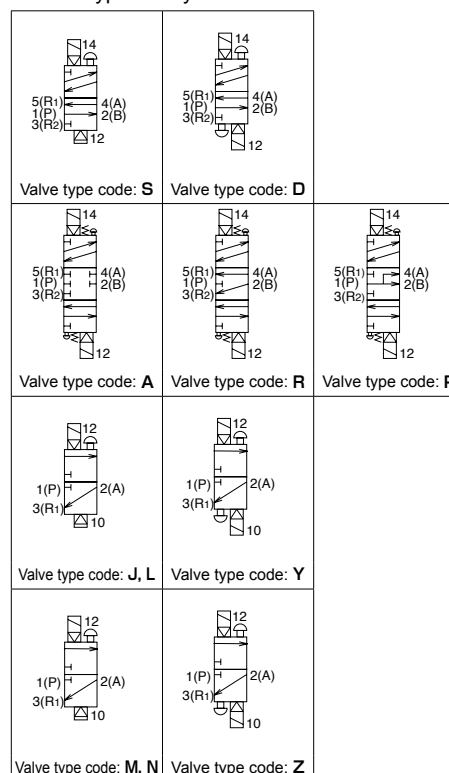
(3) Valve type

Code	No. of ports	No. of positions	Valve type
S (*1)	5	2	Single solenoid
D (*1)			Double solenoid
A (*1)		3	Closed center
R (*1)			Exhaust center
P (*1)			Pressure center
J (*2)	3	2	Single solenoid, Normally closed (For mixed-mounting with 5 ports valve)
L (*2)			Single solenoid, Normally open (For mixed-mounting with 5 ports valve)
Y (*2)		2	Double solenoid (For mixed-mounting with 5 ports valve)
M	3	2	Single solenoid, Normally closed
N			Single solenoid, Normally open
Z			Double solenoid

*1 For 10 series, only S, D, A, R and P are selectable.

*2 J, L, Y are only for mounting on a manifold.

Valve type JIS symbol



(4) Connector lead-out direction

Code	S	L
Lead-out direction	Top	Side

S: Top L: Side

(5) Body color

Code	B	W
spec.	Black	Light gray

* Light gray only for 10 series.

(6) Manual override

Code	No code	H
spec.	Push-turn locking	Push (no-locking)

* No need to specify for 10 series (Push-turn locking only).

(7) Rated voltage

Code	D24	A100	A110	A200	A220
Rated voltage	24VDC	100ACV	110VAC	200VAC	220VAC

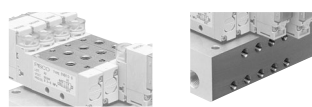
* 10 Series has 24VDC or 100VAC selection only.

(8) Piping specification (Entry needed only for 10 series)

Code	MD	MB
spec.	Direct piping port	Manifold base piping port

*1 Be sure to select either code when selecting 10 series.

*2 Only direct piping port type is available for other series.



MD: Direct piping port MB: Manifold base piping port

Solenoid Valve SVB

Model Designation of Manifold type (Example)

SVB (1)	15 (2)	08 (3)	(4)	-	L (5)	B (6)	(7)	-	K (8)	-	D24 (9)	(10)	(11)
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(1) Solenoid Valve SVB

(2) Valve series

Code	10	15	18	22
Series	10 Series (Valve width: 10mm (0.39in.))	15 Series (Valve width: 15mm (0.59in.))	18 Series (Valve width: 18mm (0.71in.))	22 Series (Valve width: 22mm (0.87in.))

(3) No. of stations

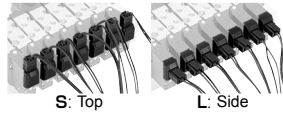
Code	02	03	04	05	06	07	08	09	10
No. of stations	2	3	4	5	6	7	8	9	10

(4) Manifold (Make entry only for 15, 18 and 22 series)

Code	No code	Y
spec.	3- & 5-port mixed mount	3-port valve-dedicated (15, 18 Series only)

(5) Connector lead-out direction

Code	S	L
Lead-out direction	Top	Side



(6) Body color

Code	B	W
spec.	Black	Light gray

* Light gray only for 10 series.

(7) Manual override

Code	No code	H
spec.	Push-turn locking	Push (no-locking)

* No need to specify for 10 series (Push-turn locking only).

(8) Valve type

Code	No. of ports	Valve type	(4) Manifold specification	
			3- & 5-port mixed mount	3-port valve-dedicated manifold
S (*1)	2	Single solenoid	○	—
D (*1)		Double solenoid	○	—
A (*1)	5	Closed center	○	—
R (*1)		Exhaust center	○	—
P (*1)		Pressure center	○	—
J (*2)	3	Single solenoid, Normally closed (For mixed-mounting with 5 ports valve)	○	—
L (*2)		Single solenoid, Normally open (For mixed-mounting with 5 ports valve)	○	—
Y (*2)		Double solenoid (For mixed-mounting with 5 ports valve)	○	—
M	3	Single solenoid, Normally closed	—	○
N		Single solenoid, Normally open	—	○
Z		Double solenoid	—	○
K	—	Combination of Valves	—	—
B	—	Blank plate	—	—

*1 For 10 series, only S, D, A, R and P are selectable.

*2 J, L, Y are only for mounting on a manifold.

(9) Rated voltage

Code	D24	A100	A110	A200	A220
Rated voltage	24VDC	100VAC	110VAC	200VAC	220VAC

* 10 Series has 24VDC or 100VAC selection only.

(10) Piping specification (Entry needed only for 10 series)

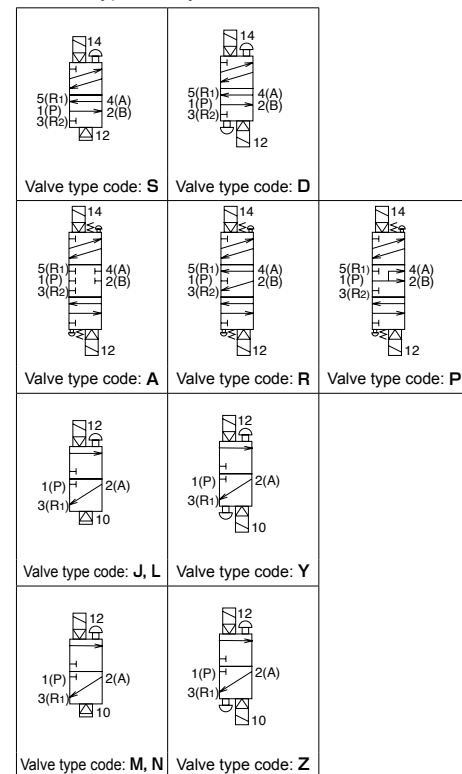
Code	D	B
Specifications	Direct piping port	Manifold base piping port

* See page 215 for the example of piping specification.

(11) Check valve spec (10 series only)

Code	No code	C
Check valve spec.	Without check valve	With check valve

Valve type JIS symbol



Model Designation of Manifold-Base alone (Example)



(1) Solenoid Valve SVB Manifold-Base alone

(2) Valve series

Code	10	15	18	22
Series	10 Series (Valve width: 10mm (0.39in.))	15 Series (Valve width: 15mm (0.59in.))	18 Series (Valve width: 18mm (0.71in.))	22 Series (Valve width: 22mm (0.87in.))

(3) No. of stations

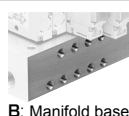
Code	02	03	04	05	06	07	08	09	10
No. of stations	2	3	4	5	6	7	8	9	10

(4) Piping specification (Entry needed only for 10 series)

Code	D	B
spec.	Direct piping port	Manifold base piping port



D: Direct piping port



B: Manifold base piping port

(4) Manifold specification (Entry needed only for 15, 18, 22 series)

Code	No code	Y
spec.	3- & 5-port mixed mount	3-port valve-dedicated (15, 18 Series only)

(5) Check valve specifications (10 series only)

Code	No code	C
Check valve spec.	Without check valve	With check valve

Model Designation of Blank plate only (Example)



(1) Blank plate for Solenoid Valve SVB

(2) Valve series

Code	10	15	18	22
Series	10 Series (Valve width: 10mm (0.39in.))	15 Series (Valve width: 15mm (0.59in.))	18 Series (Valve width: 18mm (0.71in.))	22 Series (Valve width: 22mm (0.87in.))

(3) Manifold specification (Entry needed only for 15, 18, 22 series)

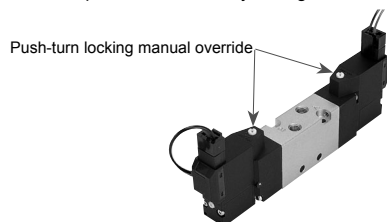
Code	No code	Y
spec.	3- & 5-port mixed mount	3-port valve-dedicated (15, 18 Series only)

Characteristics

15, 18, 22 series

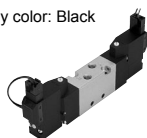
Equipped with Push-turn locking manual override as standard specification.

It enhances operational efficiency during maintenance work.



2 body colors. Black and light gray.

Body color: Black



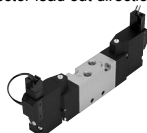
Body color: Light gray



Equipped with individual connectors.

Top lead-out and side lead-out are available.
Select a lead-out direction suitable for installation site.

Connector lead out direction: Top



Connector lead out direction: Side



Valves with 15mm, 18mm, 22mm width are serialized.

10 series

Compact 10mm-wide solenoid valves is available.

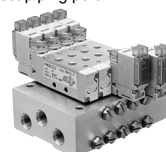
Power consumption is 0.55W.

Energy saving type.

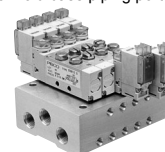
3 types are available.

Stand-alone type, Manifold type with direct port, and Manifold type with manifold base piping port are available. Select a type depending on your application. However, please note that stand-alone type and manifold type are not mutually convertible. (i.e. it is not possible to mount a stand-alone type valve on a manifold, or to use manifold type valve unit as a stand-alone type.)

Piping specification:
Direct piping port



Piping specification:
Manifold base piping port

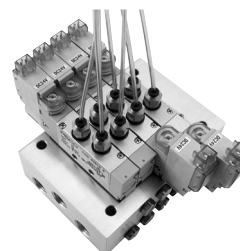


Equipped with individual connectors.

Top lead-out and side lead-out are available. Select a lead-out direction suitable for installation site.

Best match to PISCO Vacuum generator VH series which can be directly mounted on a solenoid valve.

In the case of applications requiring low flow rates, 1.8mm O.D. and 2mm O.D., Mini type fittings are ideal to use together.



■ Main Valve Specifications (18 series)

Model	SVB18S	SVB18D	SVB18A SVB18R SVB18P	SVB18J SVB18L SVB18M SVB18N	SVB18Y SVB18Z
Item					
Fluid medium	Air				
Operating pressure range	0.15 to 0.7 MPa	0.2 to 0.7 MPa	0.15 to 0.7 MPa		
Proof pressure	1.05 MPa				
Operating temp. range	5 to 50°C				
Installing direction	Universal				
Operating system	Indirect operation by pilot valve				
Port thread size	Rc1/8 (*)				
Valve structure	Rubber seal, Spool valve				
No. of positions	2positions	3positions	2positions		
No. of ports	5ports		3ports		
Valve function	Single	Double	Single	Double	
Response time	20msec	15msec	20msec	15msec	
Max. operation cycle	5Hz				
Min. excitation time		50msec			50msec
Lubrication	Not required				
Flow characteristics	S ⁽²⁾	13 (0.70)	(*)5.2(0.28)	13 (0.70)	
	S ⁽²⁾		P: 13(0.70)		

*1. SVB18J, L, and Y are valves to mount on a manifold base so that there is no thread cutting on 1(P) and 3 (R1) ports.

*2. S: Effective sectional area (mm² (Cv)). The value is from 1 (P) to 4 (A) or 2 (B).

*3. 4 (A), 5 (R1) & 3 (R2) port

■ Main Valve Specifications (22 series)

Model	SVB22S	SVB22D	SVB22A SVB22R SVB22P
Item			
Fluid medium	Air		
Operating pressure range	0.2 to 0.7 MPa		0.3 to 0.7 MPa
Proof pressure	1.05 MPa		
Operating temp. range	5 to 50°C		
Installing direction	Universal		
Operating system	Indirect operation by pilot valve		
Port thread size	1(P),4(A),2(B) port: Rc1/4 5(R ₁),3(R ₂) port: Rc1/8		
Valve structure	Rubber seal, Spool valve		
No. of positions	2positions	3positions	
No. of ports	5ports		
Valve function	Single	Double	
Response time	25msec	18msec	25msec
Max. operation cycle	5Hz		
Min. excitation time		50msec	
Lubrication	Not required		
Flow characteristics	S ^(*)	18 (0.98)	A, R : 13 (0.70)
	S ^(*)		P : 15 (0.81)

* S: Effective sectional area (mm² (Cv)). The value is from 1 (P) to 4 (A) or 2 (B).

■ 18 Series Cylinder Speed Table

Cylinder speed (mm/s)	Cylinder tube bore (mm)							
	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
100								
200								
300								
400								
500								
600								
700								
800								
900								
1,000								
1,100								

*1. The cylinder average speed is referential at 0.5MPa of pressure, 30% of load factor and 1m of tube length.

*2. The cylinder speed can vary according to the configuration of piping and fittings.

*3. The data in the above table represents the value when dia. 8mm Push-in fitting is used on 4 (A) and 2 (B) ports of SVB18D.

■ 22 Series Cylinder Speed Table

Cylinder speed (mm/s)	Cylinder tube bore (mm)								
	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100	ø125
100									
200									
300									
400									
500									
600									
700									
800									
900									
1,000									
1,100									

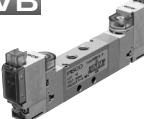
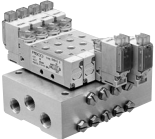
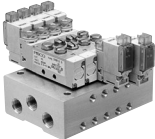
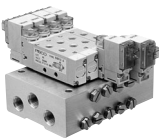
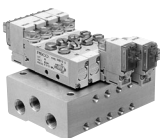
*1. The cylinder average speed is referential at 0.5MPa of pressure, 30% of load factor and 1m of tube length.

*2. The cylinder speed can vary according to the configuration of piping and fittings.

*3. The data in the above table represents the value when dia. 10mm Push-in fitting is used on 4 (A) and 2 (B) ports of SVB22D.

Solenoid Valve SVB

RoHS2 (2011/65/EU+EU2015/863) compliant

10 series					
Stand-alone unit type					
2 positions, 5 ports, Single solenoid		2 positions, 5 ports, Double solenoid		3 positions, 5 ports, Closed Center/Exhaust Center/Pressure Center	
Type	Model code	Type	Model code	Type	Model code
Connector lead-out direction: Top SVB 	SVB10S-SW- <u>7</u>	Connector lead-out direction: Top SVB 	SVB10D-SW- <u>7</u>	Connector lead-out direction: Top SVB 	SVB10A-SW- <u>7</u> SVB10R-SW- <u>7</u> SVB10P-SW- <u>7</u>
Type	Model code	Type	Model code	Type	Model code
Connector lead-out direction: Side SVB 	SVB10S-LW- <u>7</u>	Connector lead-out direction: Side SVB 	SVB10D-LW- <u>7</u>	Connector lead-out direction: Side SVB 	SVB10A-LW- <u>7</u> SVB10R-LW- <u>7</u> SVB10P-LW- <u>7</u>
Manifold type					
Direct piping		Manifold base piping			
Type	Model code	Type	Model code		
Connector lead-out direction: Top SVB 	SVB10 <u>3</u> -SW-K- <u>9</u> -D <u>11</u>	Connector lead-out direction: Top SVB 	SVB10 <u>3</u> -SW-K- <u>9</u> -B <u>11</u>		
Type	Model code	Type	Model code		
Connector lead-out direction: Side SVB 	SVB10 <u>3</u> -LW-K- <u>9</u> -D <u>11</u>	Connector lead-out direction: Side SVB 	SVB10 <u>3</u> -LW-K- <u>9</u> -B <u>11</u>		

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Notes

*1. No. of manifold stations and valve type in pictures above are just examples.

*2. For 7 in model code of Stand-alone unit type, please select rated voltage code from page 214.

*3. For 3 in model code of Manifold type, please select a code for number of stations, for 9, please select a rated voltage code, and for 11, please select check valve code from page 216.



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag

RoHS2 (2011/65/EU+EU2015/863) compliant

15 series

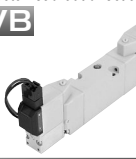
Stand-alone unit type

2 positions, 5 ports, Single solenoid		2 positions, 5 ports, Double solenoid		3 positions, 5 ports, Closed Center/Exhaust Center/Pressure Center	
Type	Model code	Type	Model code	Type	Model code
Connector lead-out direction: Top SVB	SVB15S-S[5][6]-[7]	Connector lead-out direction: Top SVB	SVB15D-S[5][6]-[7]	Connector lead-out direction: Top SVB	SVB15A-S[5][6]-[7] SVB15R-S[5][6]-[7] SVB15P-S[5][6]-[7]
	▲ Manifold specification: 3- & 5-port mixed mountable manifold base		▲ Manifold specification: 3- & 5-port mixed mountable manifold base		▲ Manifold specification: 3- & 5-port mixed mountable manifold base
Type	Model code	Type	Model code	Type	Model code
Connector lead-out direction: Side SVB	SVB15S-L[5][6]-[7]	Connector lead-out direction: Side SVB	SVB15D-L[5][6]-[7]	Connector lead-out direction: Side SVB	SVB15A-L[5][6]-[7] SVB15R-L[5][6]-[7] SVB15P-L[5][6]-[7]
	▲ Manifold specification: 3- & 5-port mixed mountable manifold base		▲ Manifold specification: 3- & 5-port mixed mountable manifold base		▲ Manifold specification: 3- & 5-port mixed mountable manifold base

2 positions, 3 ports, Single solenoid, Normally closed, Normally open

For manifold mixed-mountable with 5-port valves		For manifold dedicated to 3-port valves	
Type	Model code	Type	Model code
Connector lead-out direction: Top SVB	SVB15J-S[5][6]-[7] SVB15L-S[5][6]-[7]	Connector lead-out direction: Top SVB	SVB15M-S[5][6]-[7] SVB15N-S[5][6]-[7]
	▲ Manifold specification: 3- & 5-port mixed mountable manifold base Dedicated for Manifold installation		▲ Manifold specification: 3-port valve-dedicated manifold
Type	Model code	Type	Model code
Connector lead-out direction: Side SVB	SVB15J-L[5][6]-[7] SVB15L-L[5][6]-[7]	Connector lead-out direction: Side SVB	SVB15M-L[5][6]-[7] SVB15N-L[5][6]-[7]
	▲ Manifold specification: 3- & 5-port mixed mountable manifold base Dedicated for Manifold installation		▲ Manifold specification: 3-port valve-dedicated manifold

2 positions, 3 ports, Double solenoid

For manifold mixed-mountable with 5-port valves		For manifold dedicated to 3-port valves	
Type	Model code	Type	Model code
Connector lead-out direction: Top SVB	SVB15Y-S[5][6]-[7]	Connector lead-out direction: Top SVB	SVB15Z-S[5][6]-[7]
	▲ Manifold specification: 3- & 5-port mixed mountable manifold base Dedicated for Manifold installation		▲ Manifold specification: 3-port valve-dedicated manifold
Type	Model code	Type	Model code
Connector lead-out direction: Side SVB	SVB15Y-L[5][6]-[7]	Connector lead-out direction: Side SVB	SVB15Z-L[5][6]-[7]
	▲ Manifold specification: 3- & 5-port mixed mountable manifold base Dedicated for Manifold installation		▲ Manifold specification: 3-port valve-dedicated manifold



Notes

* Please select each code referring to the example of Stand-alone unit type model designation on page 214. [5]: Body color code, [6]: Manual override code, and [7]: Rated voltage code.



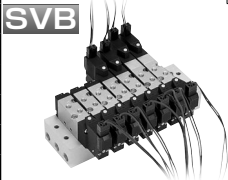
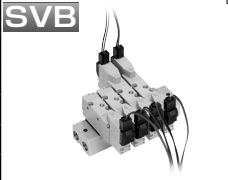
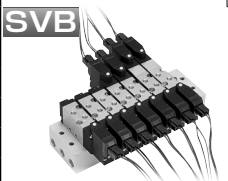
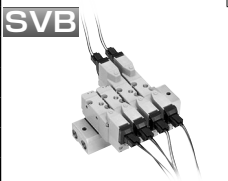
CAD data is available at PISCO website.



Packaging specifications
1 pc. / bag

Solenoid Valve SVB

RoHS2 (2011/65/EU+EU2015/863) compliant

15 series			
Manifold type			
3- & 5-port valves mixed mounting type		For 3 port valves	
Type	Model code	Type	Model code
Connector lead-out direction: Top 	SVB15[3]-S[6][7]-[8]-[9]	Connector lead-out direction: Top 	SVB15[3]-Y-S[6][7]-[8]-[9]
Type	Model code	Type	Model code
Connector lead-out direction: Side 	SVB15[3]-L[6][7]-[8]-[9]	Connector lead-out direction: Side 	SVB15[3]-Y-L[6][7]-[8]-[9]

i Notes

*1. No. of manifold stations and valve type in pictures above are just examples.

*2. Please select each code referring to the example of Manifold type model designation on page 216. [3]: Number of stations code, [6]: Body color code, [7]: Manual override code, [8]: Valve type code, and [9]: Rated voltage code

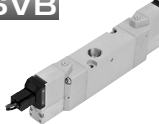
 CAD data is available at PISCO website.

 Packaging specifications
1 pc. /bag

RoHS2 (2011/65/EU+EU2015/863) compliant

18 series

Stand-alone unit type

2 positions, 5 ports, Single solenoid			2 positions, 5 ports, Double solenoid			3 positions, 5 ports, Closed Center/Exhaust Center/Pressure Center		
Type	Model code		Type	Model code		Type	Model code	
Connector lead-out direction: Top SVB	SVB18S-S[5][6]-[7]		Connector lead-out direction: Top SVB	SVB18D-S[5][6]-[7]		Connector lead-out direction: Top SVB	SVB18A-S[5][6]-[7] SVB18R-S[5][6]-[7] SVB18P-S[5][6]-[7]	
	 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base			 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base			 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base	
Type	Model code		Type	Model code		Type	Model code	
Connector lead-out direction: Side SVB	SVB18S-L[5][6]-[7]		Connector lead-out direction: Side SVB	SVB18D-L[5][6]-[7]		Connector lead-out direction: Side SVB	SVB18A-L[5][6]-[7] SVB18R-L[5][6]-[7] SVB18P-L[5][6]-[7]	
	 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base			 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base			 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base	
2 positions, 3 ports, Single solenoid, Normally closed, Normally open						 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base		
For manifold mixed-mountable with 5-port valves			For manifold dedicated to 3-port valves					
Type	Model code		Type	Model code				
Connector lead-out direction: Top SVB	SVB18J-S[5][6]-[7] SVB18L-S[5][6]-[7]		Connector lead-out direction: Top SVB	SVB18M-S[5][6]-[7] SVB18N-S[5][6]-[7]				
	 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base Dedicated for Manifold installation			 ▲ Manifold specification: 3-port valve-dedicated manifold				
Type	Model code		Type	Model code				
Connector lead-out direction: Side SVB	SVB18J-L[5][6]-[7] SVB18L-L[5][6]-[7]		Connector lead-out direction: Side SVB	SVB18M-L[5][6]-[7] SVB18N-L[5][6]-[7]				
	 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base Dedicated for Manifold installation			 ▲ Manifold specification: 3-port valve-dedicated manifold				
2 positions, 3 ports, Double solenoid								
For manifold mixed-mountable with 5-port valves			For manifold dedicated to 3-port valves					
Type	Model code		Type	Model code				
Connector lead-out direction: Top SVB	SVB18Y-S[5][6]-[7]		Connector lead-out direction: Top SVB	SVB18Z-S[5][6]-[7]				
	 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base Dedicated for Manifold installation			 ▲ Manifold specification: 3-port valve-dedicated manifold				
Type	Model code		Type	Model code				
Connector lead-out direction: Side SVB	SVB18Y-L[5][6]-[7]		Connector lead-out direction: Side SVB	SVB18Z-L[5][6]-[7]				
	 ▲ Manifold specification: 3- & 5-port mixed mountable manifold base Dedicated for Manifold installation			 ▲ Manifold specification: 3-port valve-dedicated manifold				

Notes

* Please select each code referring to the example of Stand-alone unit type model designation on page 214. [5]: Body color code, [6]: Manual override code and [7]: Rated voltage code.

CAD

2D 3D

CAD data is available at PISCO website.

Packaging specifications

1 pc. /bag



Notes

* Please select each code referring to the example of Stand-alone unit type model designation on page 214. [5]: Body color code, [6]: Manual override code, and [7]: Rated voltage code.



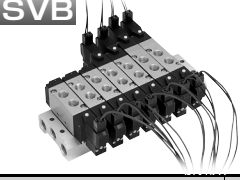
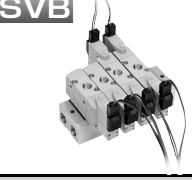
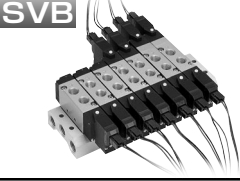
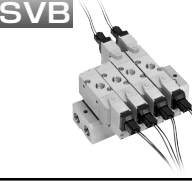
CAD data is available at PISCO website.

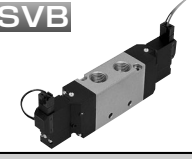
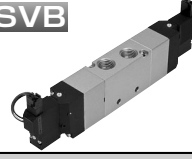
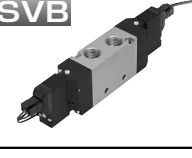
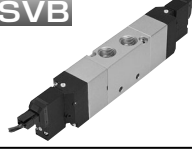


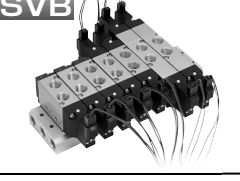
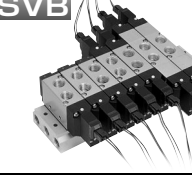
Packaging specifications
1 pc. / bag

Solenoid Valve SVB

RoHS2 (2011/65/EU+EU2015/863) compliant

18 series			
Manifold type			
3- & 5-port valves mixed mounting type		For 3 port valves	
Type	Model code	Type	Model code
Connector lead-out direction: Top 	SVB18[3]-S[6][7]-[8]-[9]	Connector lead-out direction: Top 	SVB18[3]Y-S[6][7]-[8]-[9]
Connector lead-out direction: Side 	SVB18[3]-L[6][7]-[8]-[9]	Connector lead-out direction: Side 	SVB18[3]Y-L[6][7]-[8]-[9]

22 series					
Stand-alone unit type					
2 positions, 5 ports, Single solenoid		2 positions, 5 ports, Double solenoid		3 positions, 5 ports, Closed Center/Exhaust Center/Pressure Center	
Type	Model code	Type	Model code	Type	Model code
Connector lead-out direction: Top 	SVB22S-S[5][6]-[7]	Connector lead-out direction: Top 	SVB22D-S[5][6]-[7]	Connector lead-out direction: Top 	SVB22A-S[5][6]-[7] SVB22R-S[5][6]-[7] SVB22P-S[5][6]-[7]
Connector lead-out direction: Side 	SVB22S-L[5][6]-[7]	Connector lead-out direction: Side 	SVB22D-L[5][6]-[7]	Connector lead-out direction: Side 	SVB22A-L[5][6]-[7] SVB22R-L[5][6]-[7] SVB22P-L[5][6]-[7]

Manifold type			
3- & 5-port valves mixed mounting type			
Type	Model code	Type	Model code
Connector lead-out direction: Top 	SVB22[3]-S[6][7]-[8]-[9]	Connector lead-out direction: Side 	SVB22[3]-L[6][7]-[8]-[9]

Notes

*1. Please select each code referring to the example of Stand-alone unit type model designation on page 214. [5]: Body color code, [6]: Manual override code, and [7]: Rated voltage code.

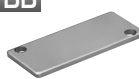
*2. No. of manifold stations and valve type in pictures above are just examples.

*3. Please select each code referring to the example of Manifold type model designation on page 216. [3]: Number of stations code, [6]: Body color code, [7]: Manual override code, [8]: Valve type code, and [9]: Rated voltage code.

CAD data is available
at PISCO website.

Packaging specifications
1 pc. /bag

RoHS2 (2011/65/EU+EU2015/863) compliant

Manifold-base Only				Blank plate for Manifold-base	
10 series					
Type	Model code	Type	Model code	Type	Model code
Direct piping SVBM 	SVBM10 ³ D- ⁵	Manifold base piping SVBM 	SVBM10 ³ B- ⁵	Blank plate SVBB 	SVBB10
15, 18, 22 series					
Type	Model code	Type	Model code	Type	Model code
3- & 5-port valves mixed mounting type SVBM 	SVBM15 ³	For 3 port valves SVBM 	SVBM15 ³ Y	Blank plate SVBB 	SVBB15
	SVBM18 ³		SVBM18 ³ Y		SVBB15Y
	SVBM22 ³				SVBB18
					SVBB18Y
					SVBB22



Notes

* Please select each code referring to the example of Manifold-base Only model designation on page 217. [3]: Number of stations code and [5]: Check valve specification code.

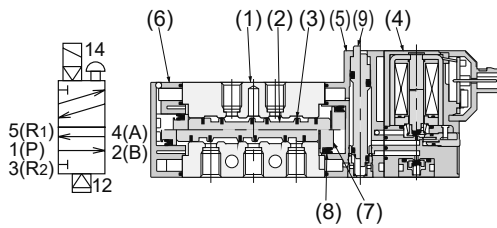


Packaging specifications

1 pc. /bag

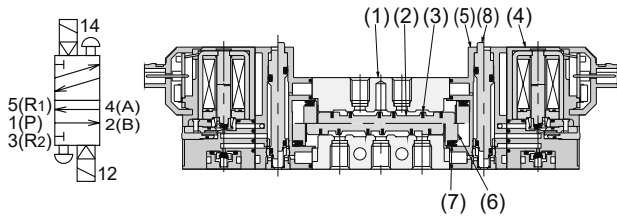
Sectional Drawings

2 positions, 5 ports, Single solenoid (For Stand-alone unit type, and 3- & 5-port valves mixed mountable manifold)



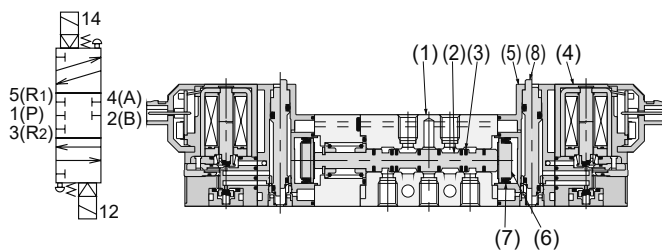
No.	Parts	Material (Treatment)
1	Valve body	Aluminum alloy
2	Spool	Aluminum alloy
3	Spool seal rubber	NBR
4	Pilot Valve Ass'y	
5	Intermediate block	PBT
6	End block	PBT
7	Piston	POM
8	Y-shaped seal rubber	NBR
9	Manual button	POM

2 positions, 5 ports, Double solenoid (For Stand-alone unit type, and 3- & 5-port valves mixed mountable manifold)



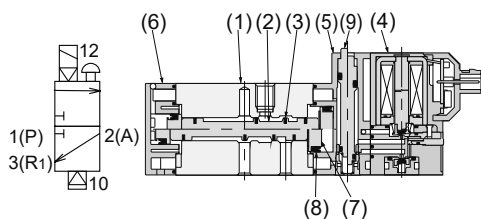
No.	Parts	Material (Treatment)
1	Valve body	Aluminum alloy
2	Spool	Aluminum alloy
3	Spool seal rubber	NBR
4	Pilot Valve Ass'y	
5	Intermediate block	PBT
6	Piston	POM
7	Y-shaped seal rubber	NBR
8	Manual button	POM

3 Positions, 5 Ports, Closed center (For Stand-alone unit type, and 3- & 5-port valves mixed mountable manifold)



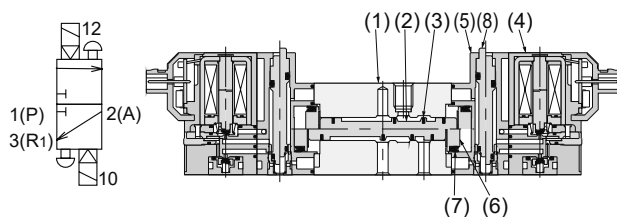
No.	Parts	Material (Treatment)
1	Valve body	Aluminum alloy
2	Spool	Aluminum alloy
3	Spool seal rubber	NBR
4	Pilot Valve Ass'y	
5	Intermediate block	PBT
6	Piston	POM
7	Y-shaped seal rubber	NBR
8	Manual button	POM

2 positions, 3 ports, Single solenoid, Normally closed (For 3- & 5-port valves mixed mountable manifold)



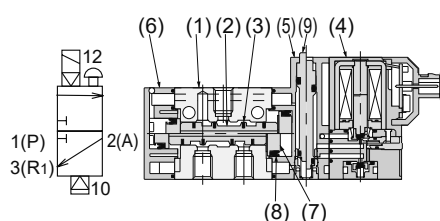
No.	Parts	Material (Treatment)
1	Valve body	Aluminum alloy
2	Spool	Aluminum alloy
3	Spool seal rubber	NBR
4	Pilot Valve Ass'y	
5	Intermediate block	PBT
6	End block	PBT
7	Piston	POM
8	Y-shaped seal rubber	NBR
9	Manual button	POM

■ 2 positions, 3 ports, Double solenoid (For 3- & 5-port valves mixed mountable manifold)



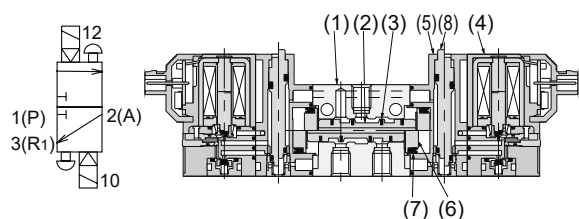
No.	Parts	Material (Treatment)
1	Valve body	Aluminum alloy
2	Spool	Aluminum alloy
3	Spool seal rubber	NBR
4	Pilot Valve Ass'y	
5	Intermediate block	PBT
6	Piston	POM
7	Y-shaped seal rubber	NBR
8	Manual button	POM

■ 2 positions, 3 ports, Single solenoid, Normally closed (For Stand-alone unit type, and 3-port valve-dedicated manifold)



No.	Parts	Material (Treatment)
1	Valve body	Aluminum alloy
2	Spool	Aluminum alloy
3	Spool seal rubber	NBR
4	Pilot Valve Ass'y	
5	Intermediate block	PBT
6	End block	PBT
7	Piston	POM
8	Y-shaped seal rubber	NBR
9	Manual button	POM

■ 2 positions, 3 ports, Double solenoid (For Stand-alone unit type, and 3-port valve-dedicated manifold)



No.	Parts	Material (Treatment)
1	Valve body	Aluminum alloy
2	Spool	Aluminum alloy
3	Spool seal rubber	NBR
4	Pilot Valve Ass'y	
5	Intermediate block	PBT
6	Piston	POM
7	Y-shaped seal rubber	NBR
8	Manual button	POM

■ Weight List

■ SVB10 Series

Valve type		Weight (g)	Manifold-base Only for Direct Piping		Weight (g)	Manifold-base Only		Weight (g)
SVB 10S	Stand-alone unit	29	SVBM 1002-D		185	SVBM 1002-B		184
	-MD	30	1003-D		224	1003-B		221
	-MB	33	1004-D		262	1004-B		259
SVB 10D	Stand-alone unit	44	1005-D		300	1005-B		296
	-MD	45	1006-D		339	1006-B		334
	-MB	48	1007-D		378	1007-B		372
SVB 10A	Stand-alone unit	48	1008-D		416	1008-B		409
	-MD	49	1009-D		452	1009-B		444
	-MB	52	1010-D		493	1010-B		484
SVB 10P	Stand-alone unit	48						
	-MD	49						
	-MB	52						
SVB 10R	Stand-alone unit	48						
	-MD	49						
	-MB	52						

■ SVB15 Series

Valve type	Weight (g)	Manifold-base Only	Weight (g)	Manifold-base Only	Weight (g)
SVB 15S	60	SVBM 1502	175	SVBM 1502Y	91
D	85	03	225	03Y	118
A	97	04	279	04Y	145
R	97	05	312	05Y	174
P	97	06	389	06Y	201
J	63	07	444	07Y	229
L	63	08	496	08Y	256
Y	87	09	548	09Y	285
M	52	10	607	10Y	310
N	52				
Z	76	Blank Plate Only	Weight (g)	Blank Plate Only	Weight (g)
		SVBB 15	9	SVBB 15Y	6

■ SVB18 Series

Valve type	Weight (g)
SVB 18S	82
D	107
A	119
R	119
P	119
J	91
L	91
Y	116
M	69
N	69
Z	94

Manifold-base Only	Weight (g)
SVBM 1802	130
03	176
04	223
05	267
06	309
07	356
08	401
09	451
10	497
Blank Plate Only	Weight (g)
SVBB 18	9

Manifold-base Only	Weight (g)
SVBM 1802Y	130
03Y	176
04Y	221
05Y	264
06Y	312
07Y	355
08Y	403
09Y	440
10Y	493
Blank Plate Only	Weight (g)
SVBB 18Y	9

■ SVB22 Series

Valve type	Weight (g)
SVB 22S	129
D	148
A	267
R	267
P	267

Manifold-base Only	Weight (g)
SVBM 2202	192
03	261
04	326
05	390
06	455
07	523
08	590
09	654
10	721
Blank Plate Only	Weight (g)
SVBB 22	18

■ Dimensional Drawings (10 Series, Stand-alone unit type)

SVB

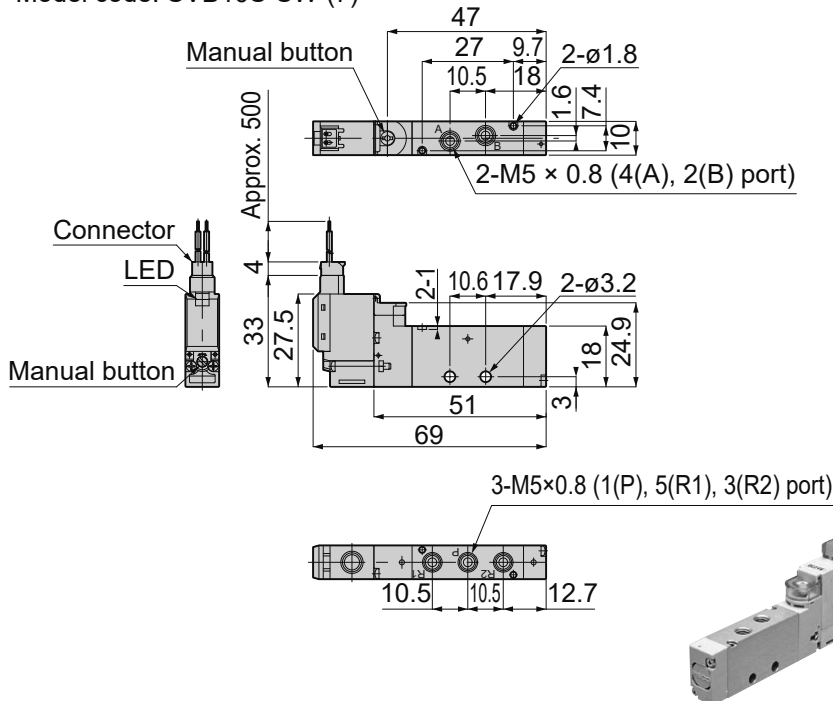
10 Series

2 positions, 5 ports, Single solenoid



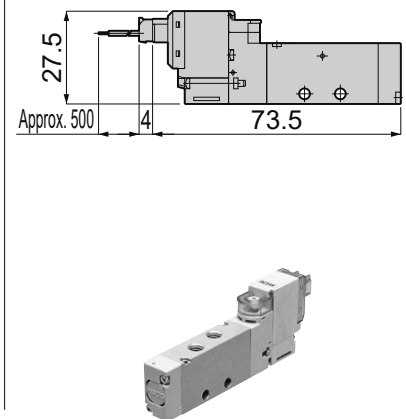
Connector lead-out direction: Top

Model code: SVB10S-SW-(7)



Connector lead-out direction: Side

Model code: SVB10S-LW-(7)



SVB

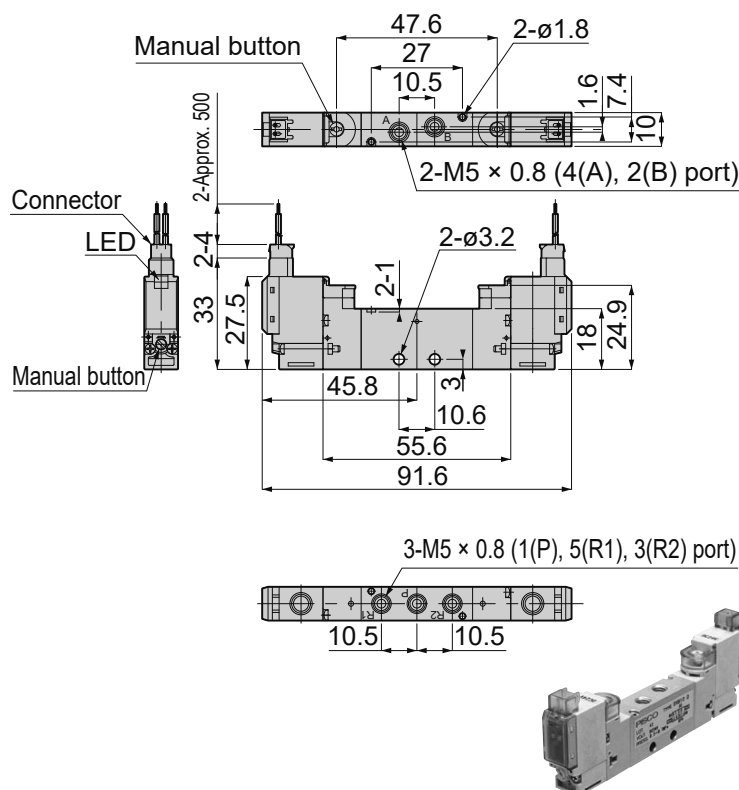
10 Series

2 positions, 5 ports, Double solenoid



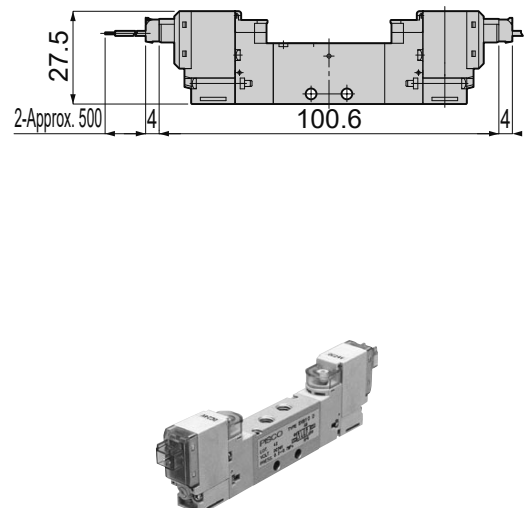
Connector lead-out direction: Top

Model code: SVB10D-SW-(7)



Connector lead-out direction: Side

Model code: SVB10D-LW-(7)



SVB

10 Series

3 positions, 5 ports, Closed center/Exhaust center/Pressure center

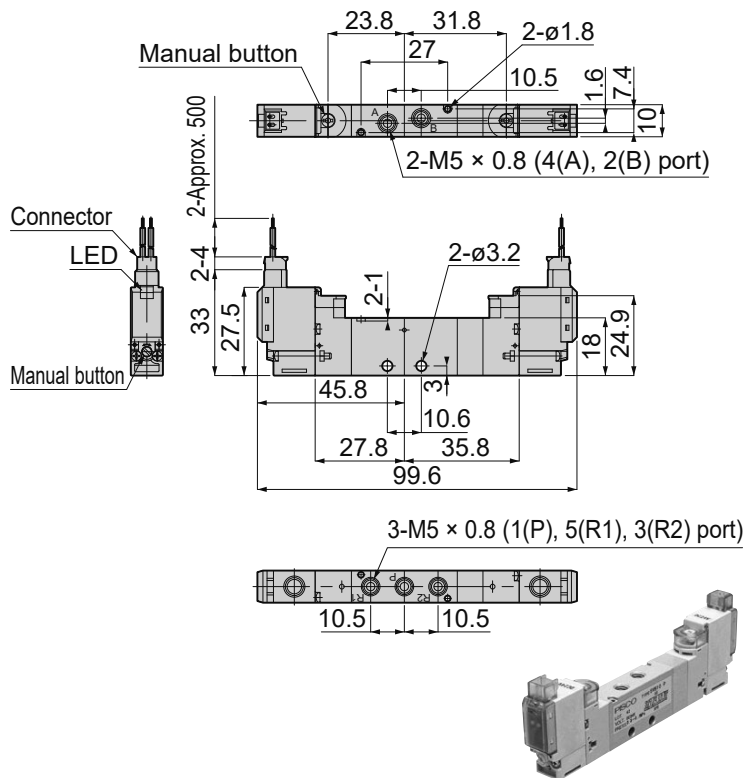


Connector lead-out direction: Top

Model code: SVB10A-SW-(7)

SVB10R-SW-(7)

SVB10P-SW-(7)

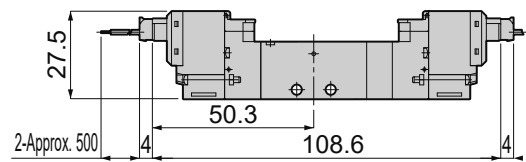


Connector lead-out direction: Side

Model code: SVB10A-LW-(7)

SVB10R-LW-(7)

SVB10P-LW-(7)



■ Dimensional Drawings (15 Series, Stand-alone unit type)

SVB

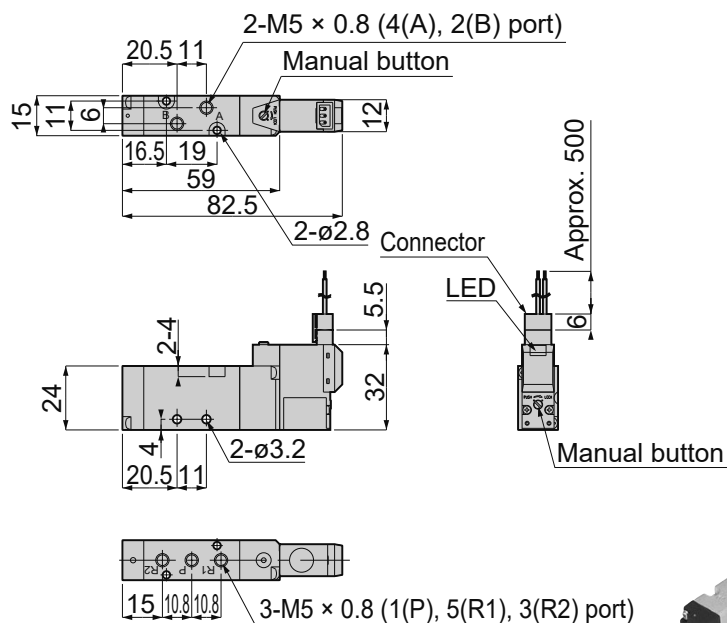
15 Series

2 positions, 5 ports, Single solenoid



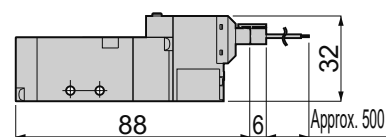
Connector lead-out direction: Top

Model code: SVB15S-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB15S-L(5)(6)-(7)



SVB

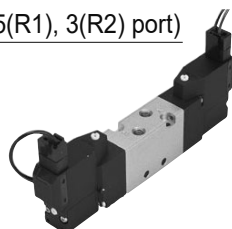
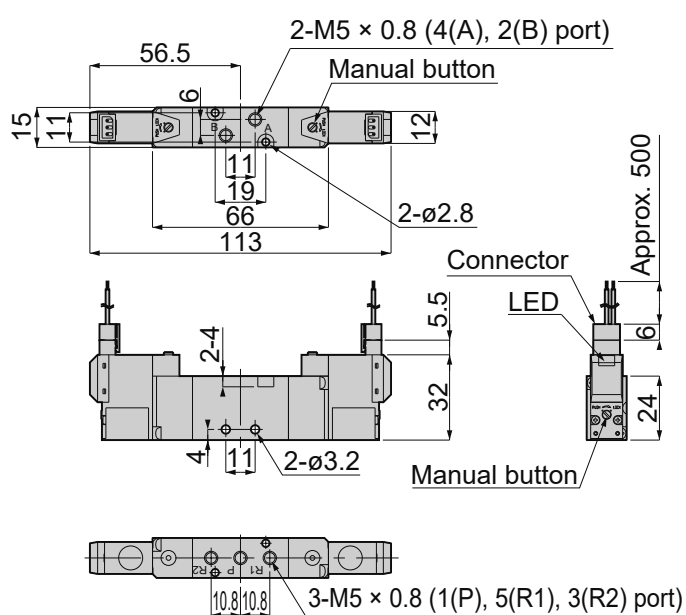
15 Series

2 positions, 5 ports, Double solenoid



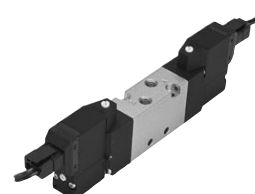
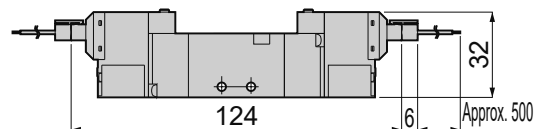
Connector lead-out direction: Top

Model code: SVB15D-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB15D-L(5)(6)-(7)



SVB

15 Series

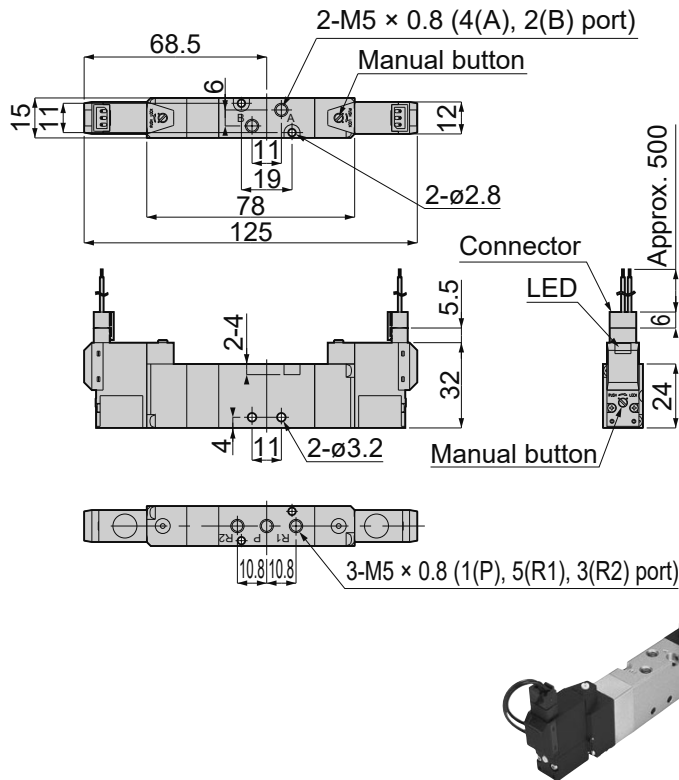
3 positions, 5 ports,**Closed center/Exhaust center/Pressure center**

Connector lead-out direction: Top

Model code: SVB15A-S(5)(6)-(7)

SVB15R-S(5)(6)-(7)

SVB15P-S(5)(6)-(7)

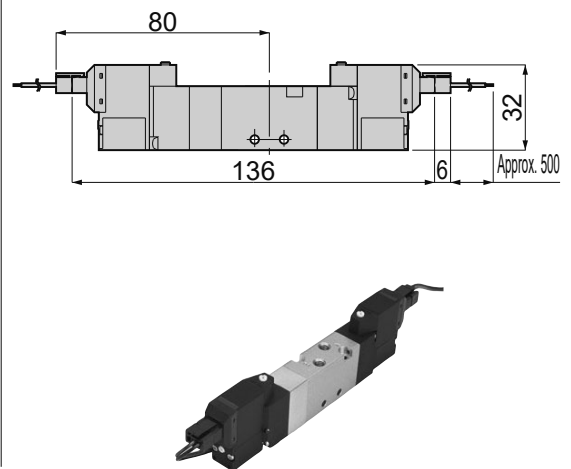


Connector lead-out direction: Side

Model code: SVB15A-L(5)(6)-(7)

SVB15R-L(5)(6)-(7)

SVB15P-L(5)(6)-(7)

**SVB**

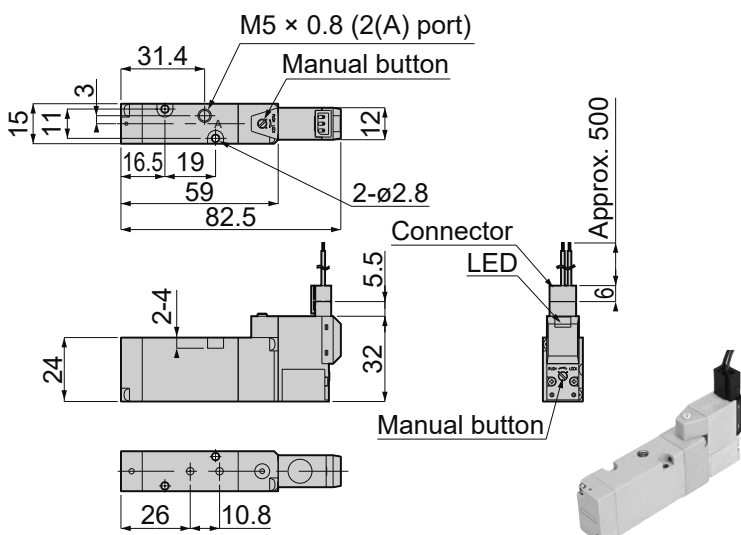
15 Series

2 positions, 3 ports,**Single solenoid, Normally closed, Normally open****(For manifold mixed mountable with 5-port valves)****For Manifold Mounting**

Connector lead-out direction: Top

Model code: SVB15J-S(5)(6)-(7)

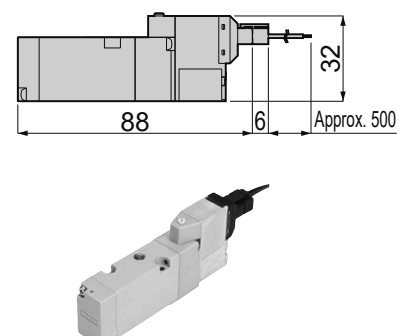
SVB15L-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB15J-L(5)(6)-(7)

SVB15L-L(5)(6)-(7)



SVB

15 Series

2 positions, 3 ports, Single solenoid, Normally closed, Normally open (For manifold dedicated to 3-port valves)

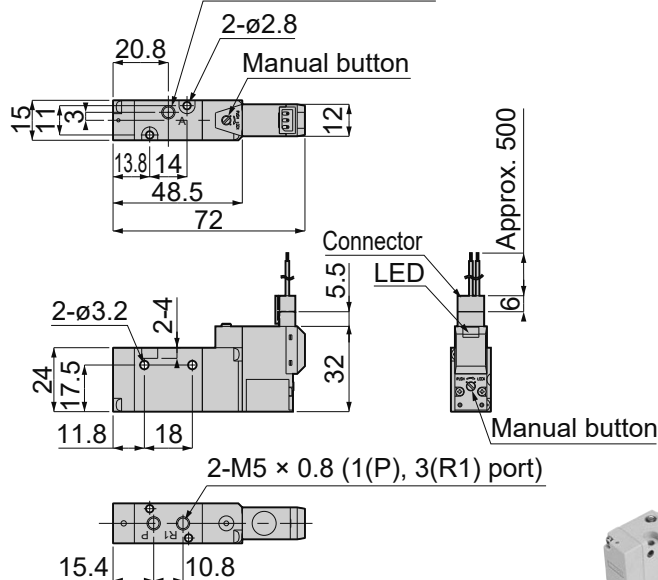


Connector lead-out direction: Top

Model code: SVB15M-S(5)(6)-(7)

SVB15N-S(5)(6)-(7)

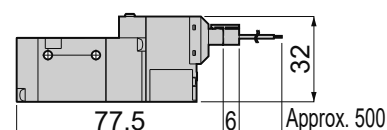
M5 × 0.8 (2(A) port)



Connector lead-out direction: Side

Model code: SVB15M-L(5)(6)-(7)

SVB15N-L(5)(6)-(7)

**SVB**

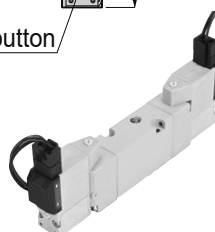
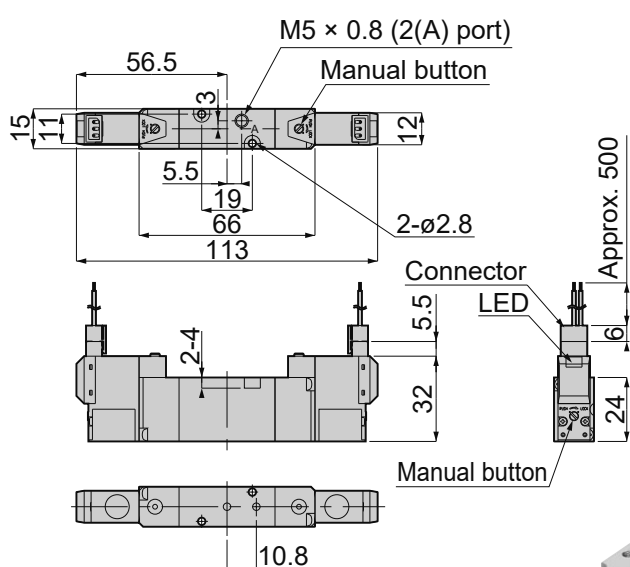
15 Series

2 positions, 3 ports, Double solenoid (For manifold mixed mountable with 5-port valves)

**For Manifold Mounting**

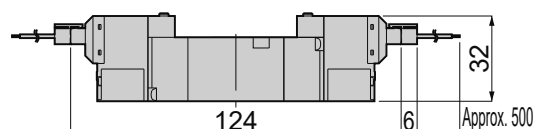
Connector lead-out direction: Top

Model code: SVB15Y-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB15Y-L(5)(6)-(7)



SVB

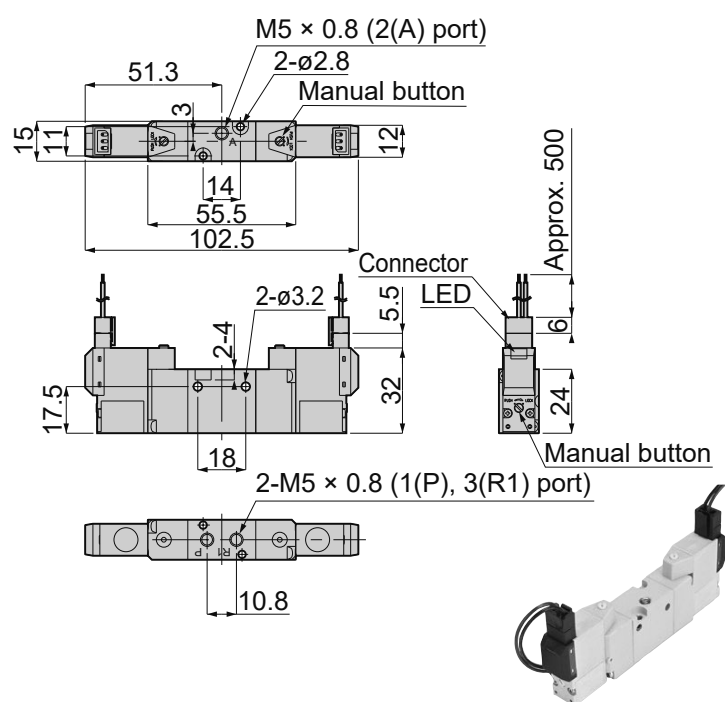
15 Series

2 positions, 3 ports, Double solenoid (For manifold dedicated to 3-port valves)



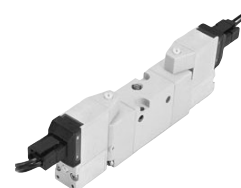
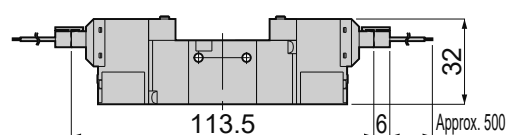
Connector lead-out direction: Top

Model code: SVB15Z-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB15Z-L(5)(6)-(7)



■ Dimensional Drawings (18 Series, Stand-alone unit type)

SVB

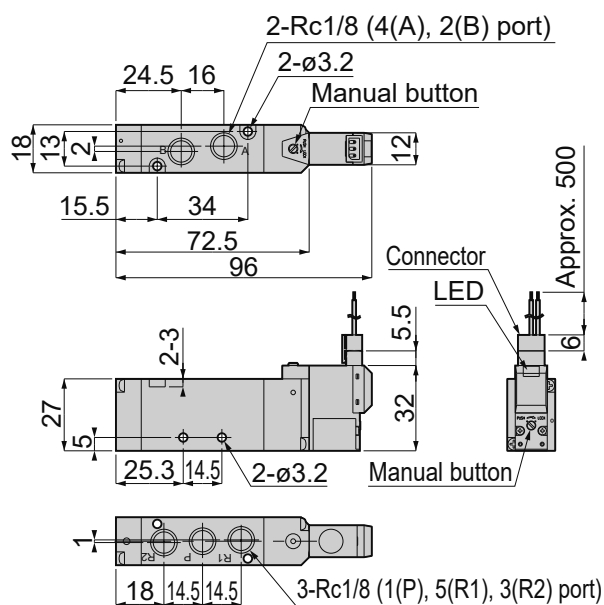
18 Series

2 positions, 5 ports, Single solenoid



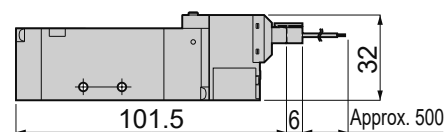
Connector lead-out direction: Top

Model code: SVB18S-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB18S-L(5)(6)-(7)



SVB

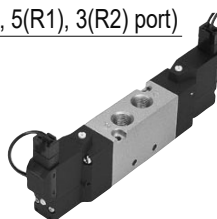
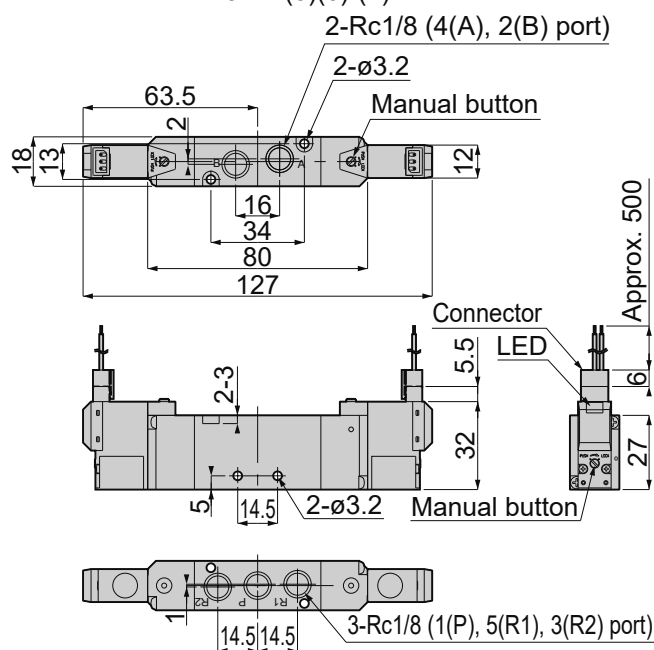
18 Series

2 positions, 5 ports, Double solenoid



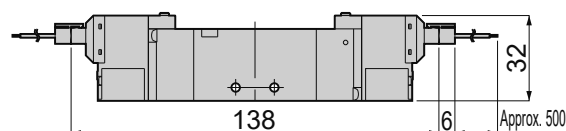
Connector lead-out direction: Top

Model code: SVB18D-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB18D-L(5)(6)-(7)



SVB

18 Series

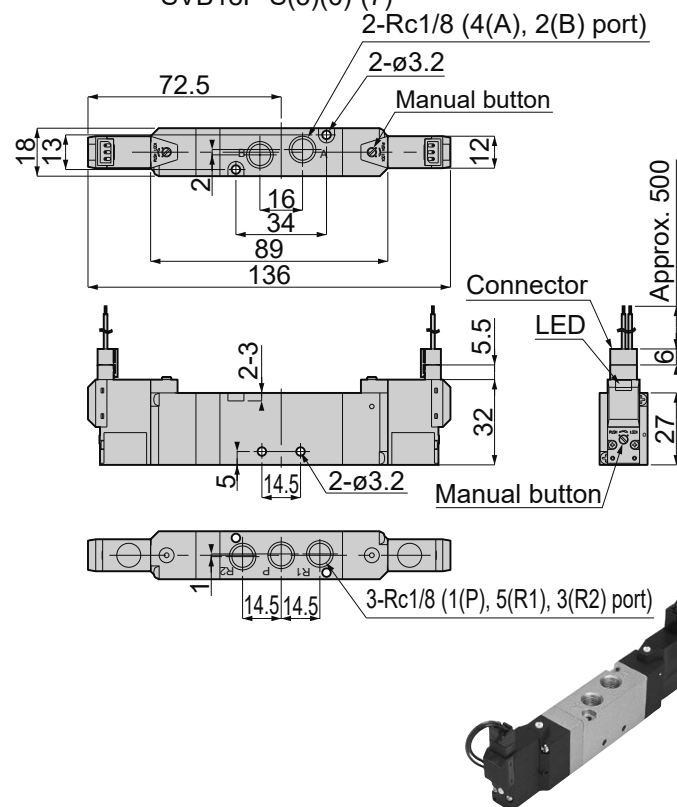
3 positions, 5 ports,**Closed center/Exhaust center/Pressure center**

Connector lead-out direction: Top

Model code: SVB18A-S(5)(6)-(7)

SVB18R-S(5)(6)-(7)

SVB18P-S(5)(6)-(7)

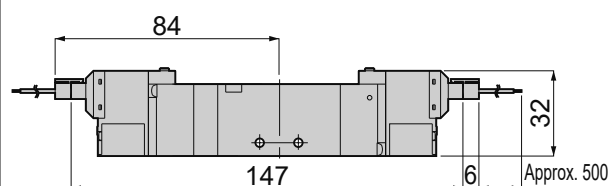


Connector lead-out direction: Side

Model code: SVB18A-L(5)(6)-(7)

SVB18R-L(5)(6)-(7)

SVB18P-L(5)(6)-(7)

**SVB**

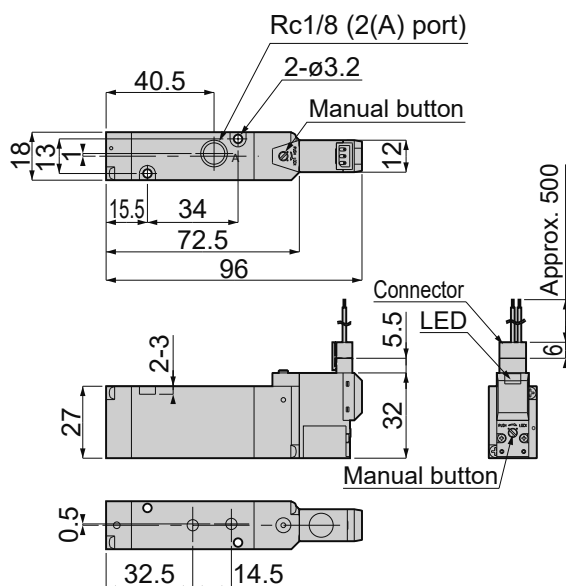
18 Series

2 positions, 3 ports,**Single solenoid, Normally closed, Normally open****(For manifold mixed mountable with 5-port valves) For Manifold Mounting**

Connector lead-out direction: Top

Model code: SVB18J-S(5)(6)-(7)

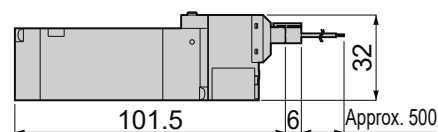
SVB18L-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB18J-L(5)(6)-(7)

SVB18L-L(5)(6)-(7)



SVB

18 Series

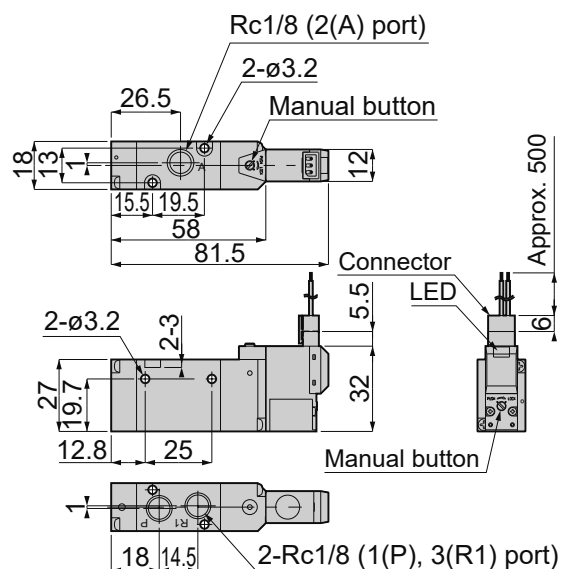
2 positions, 3 ports, Single solenoid, Normally closed, Normally open (For manifold dedicated to 3-port valves)



Connector lead-out direction: Top

Model code: SVB18M-S(5)(6)-(7)

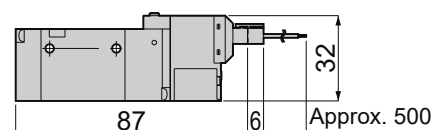
SVB18N-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB18M-L(5)(6)-(7)

SVB18N-L(5)(6)-(7)

**SVB**

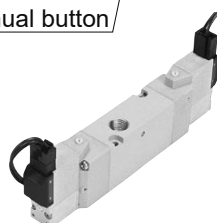
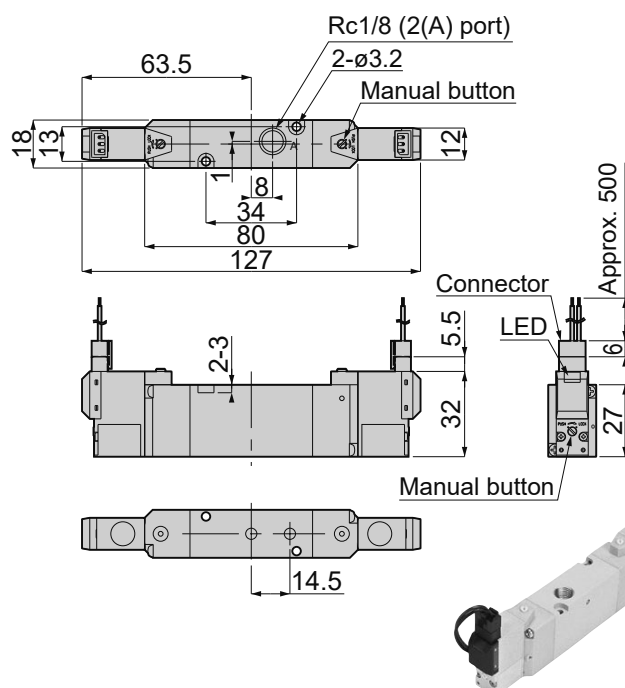
18 Series

2 positions, 3 ports, Double solenoid (For manifold mixed mountable with 5-port valves)

**For Manifold Mounting**

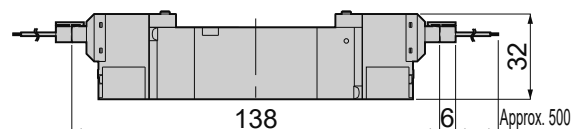
Connector lead-out direction: Top

Model code: SVB18Y-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB18Y-L(5)(6)-(7)



SVB

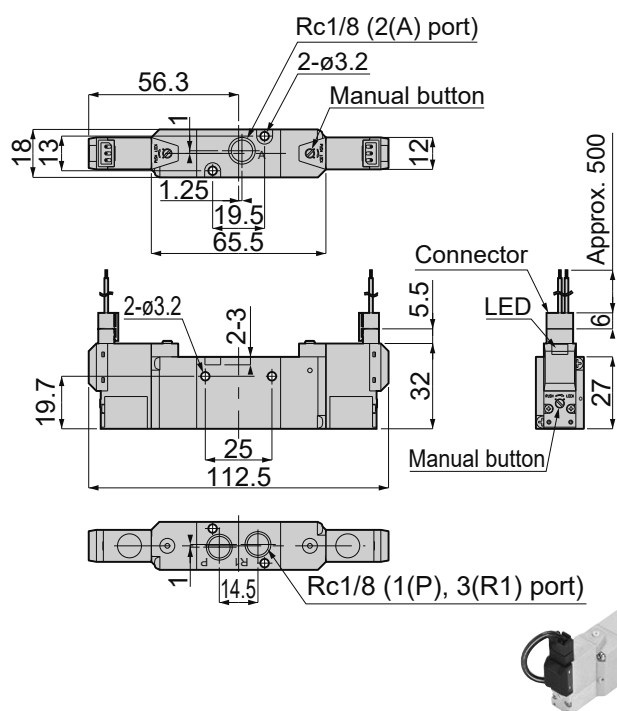
18 Series

2 positions, 3 ports, Double solenoid (For manifold dedicated to 3-port valves)



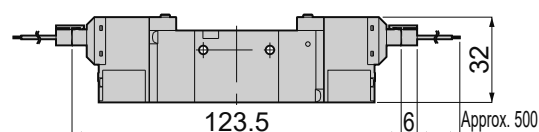
Connector lead-out direction: Top

Model code: SVB18Z-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB18Z-L(5)(6)-(7)



■ Dimensional Drawings (22 Series, Stand-alone unit type)

SVB

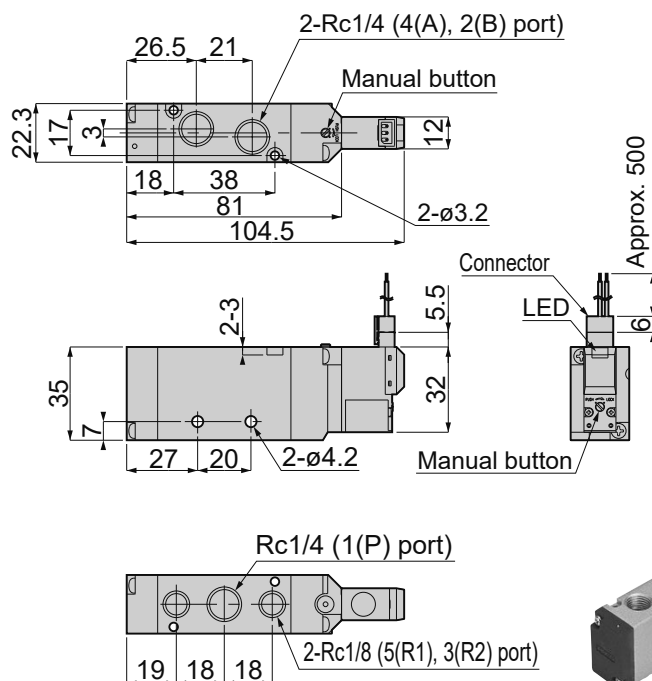
22 Series

2 positions, 5 ports, Single solenoid



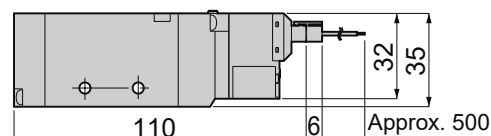
Connector lead-out direction: Top

Model code: SVB22S-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB22S-L(5)(6)-(7)



SVB

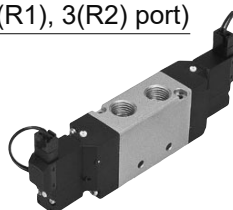
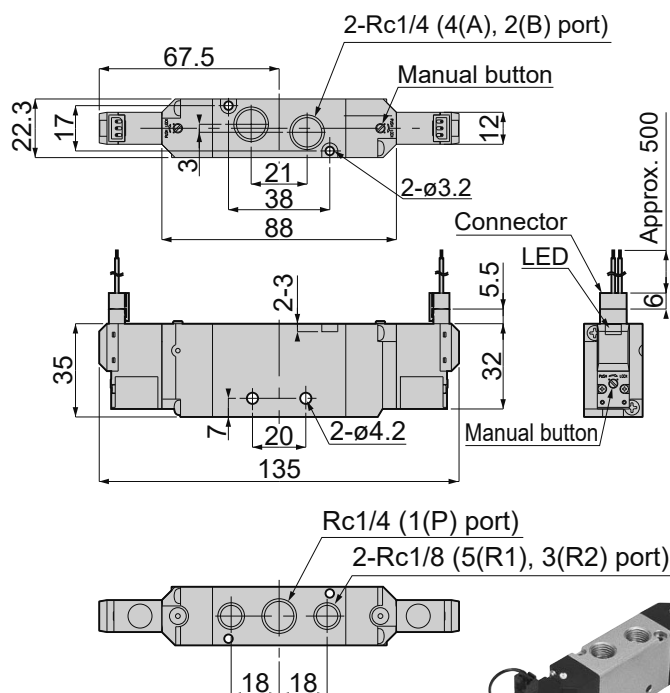
22 Series

2 positions, 5 ports, Double solenoid



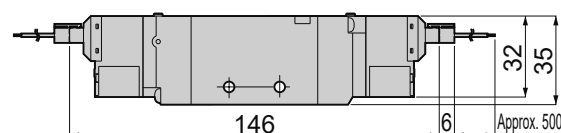
Connector lead-out direction: Top

Model code: SVB22D-S(5)(6)-(7)



Connector lead-out direction: Side

Model code: SVB22D-L(5)(6)-(7)



SVB

22 Series

3 positions, 5 ports, Closed center/Exhaust center/Pressure center

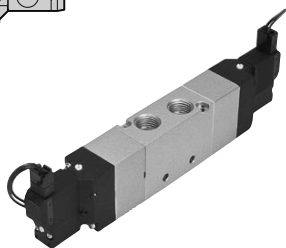
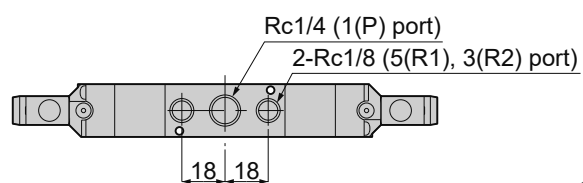
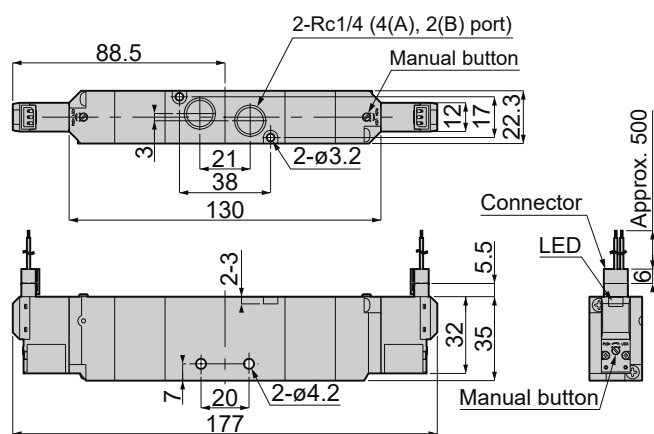


Connector lead-out direction: Top

Model code: SVB22A-S(5)(6)-(7)

SVB22R-S(5)(6)-(7)

SVB22P-S(5)(6)-(7)

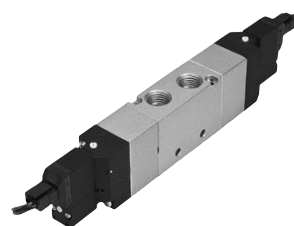
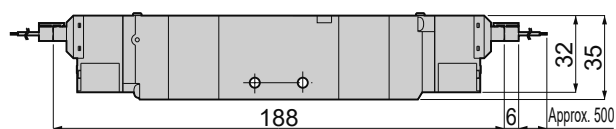


Connector lead-out direction: Side

Model code: SVB22A-L(5)(6)-(7)

SVB22R-L(5)(6)-(7)

SVB22P-L(5)(6)-(7)



■ Dimensional Drawings (10 Series, Manifold type)

SVB

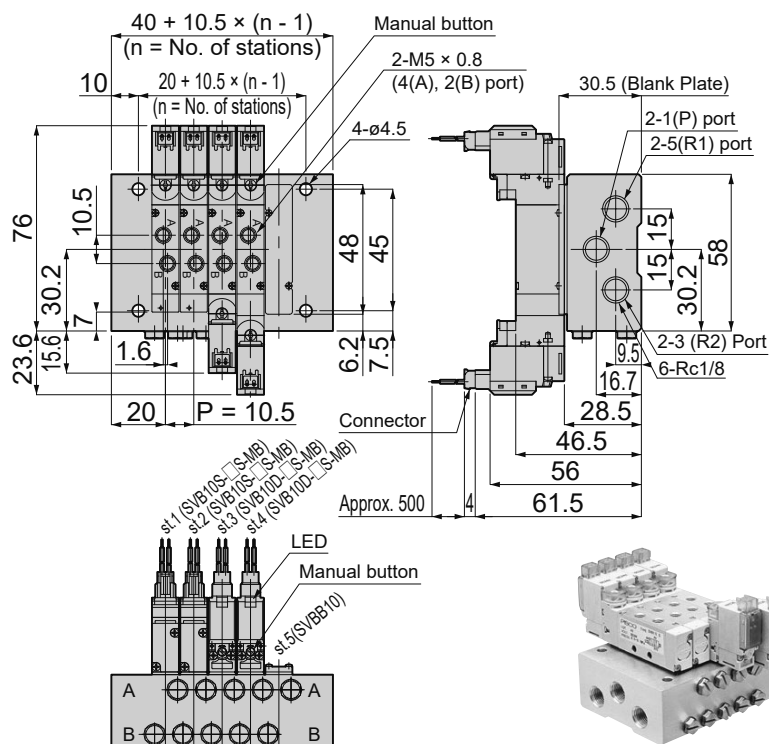
Direct piping

10 Series



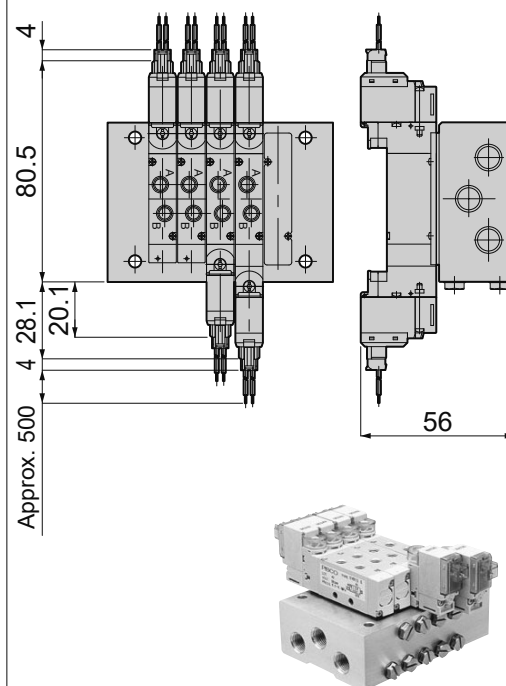
Connector lead-out direction: Top

Model code: SVB10(3)-SW-K-(9)-D(11)



Connector lead-out direction: Side

Model code: SVB10(3)-LW-K-(9)-D(11)



SVB

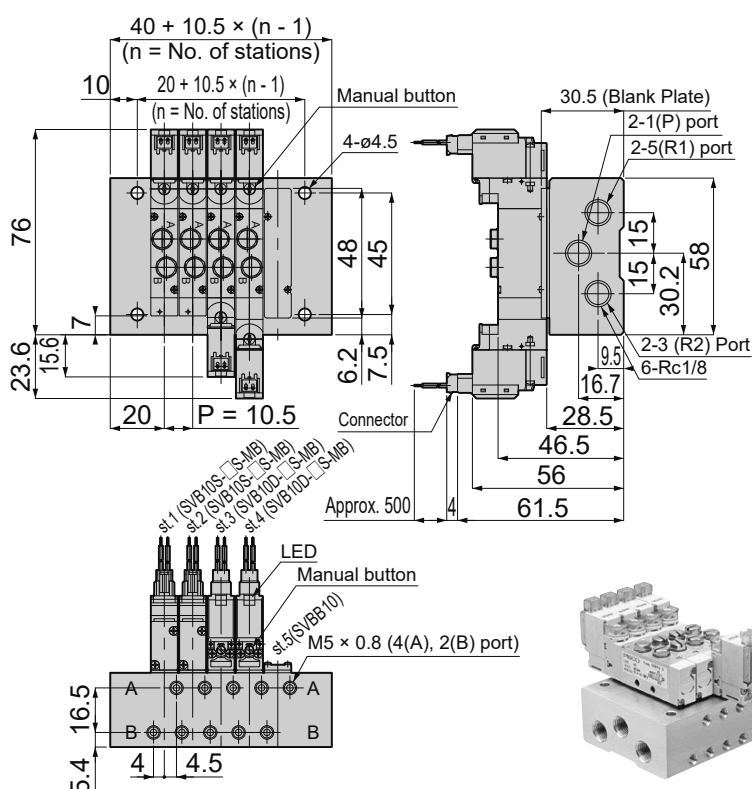
Manifold base piping

10 Series



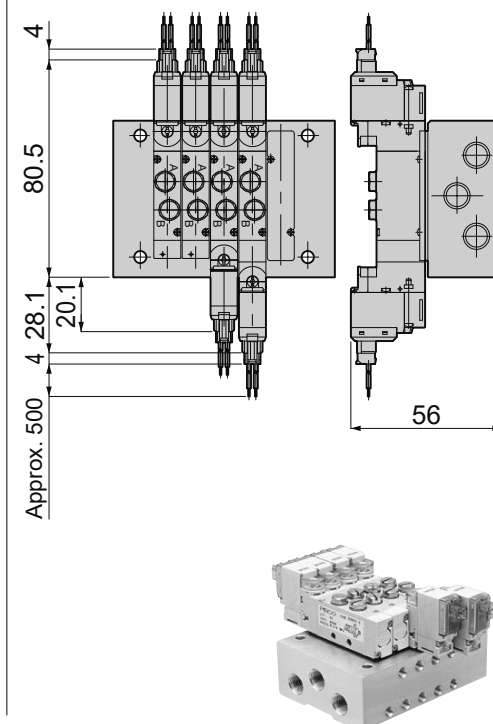
Connector lead-out direction: Top

Model code: SVB10(3)-SW-K-(9)-B(11)



Connector lead-out direction: Side

Model code: SVB10(3)-LW-K-(9)-B(11)



■ Dimensional Drawings (15 Series, Manifold type)

SVB

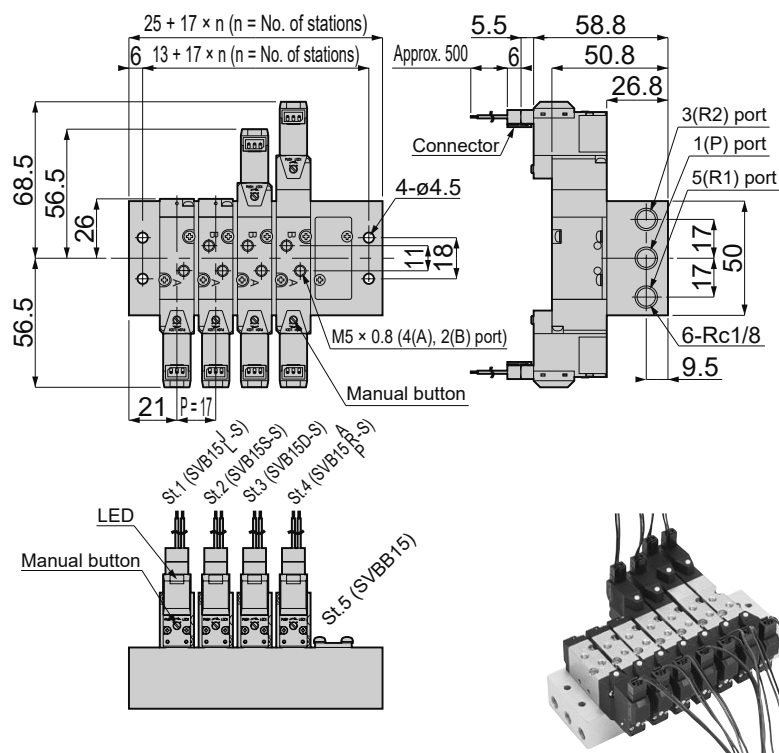
15 Series

3- & 5-port valves mixed mounting type



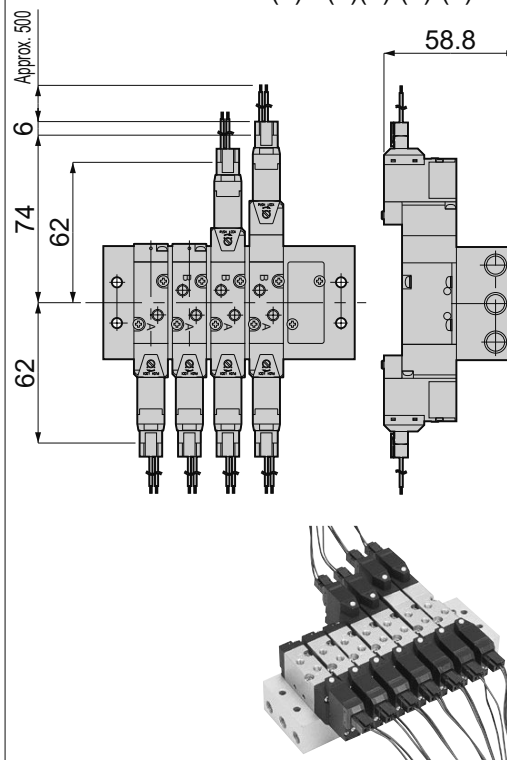
Connector lead-out direction: Top

Model code: SVB15(3)-S(6)(7)-(8)-(9)



Connector lead-out direction: Side

Model code: SVB15(3)-L(6)(7)-(8)-(9)



SVB

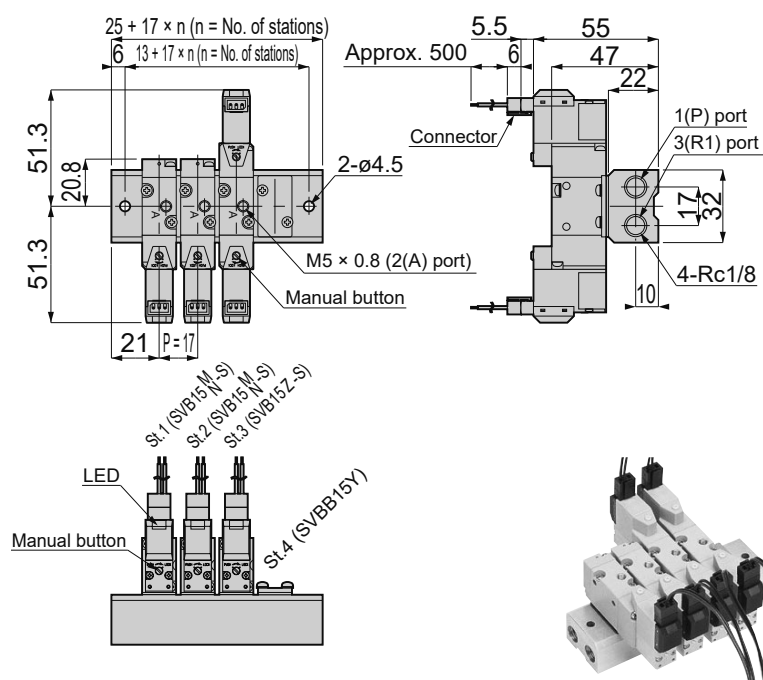
15 Series

For 3 port valves



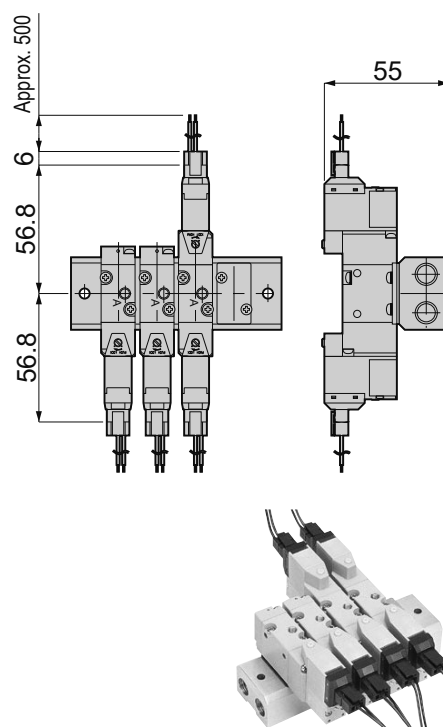
Connector lead-out direction: Top

Model code: SVB15(3)Y-S(6)(7)-(8)-(9)



Connector lead-out direction: Side

Model code: SVB15(3)Y-L(6)(7)-(8)-(9)



■ Dimensional Drawings (18 Series, Manifold type)

SVB

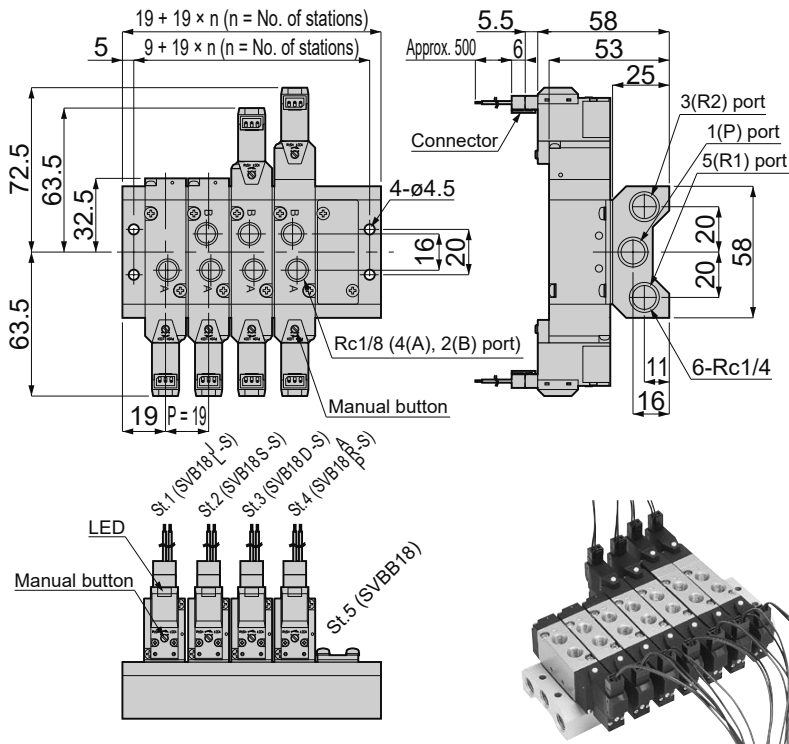
18 Series

3- & 5-port valves mixed mounting type



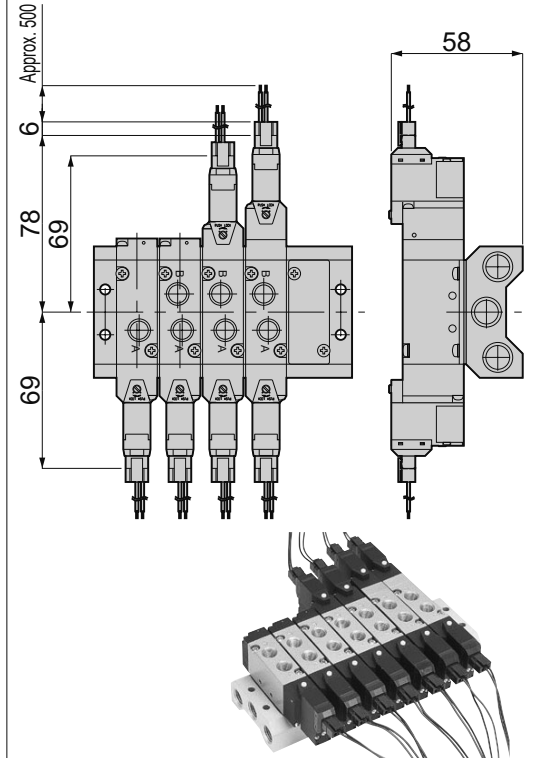
Connector lead-out direction: Top

Model code: SVB18(3)-S(6)(7)-(8)-(9)



Connector lead-out direction: Side

Model code: SVB18(3)-L(6)(7)-(8)-(9)



SVB

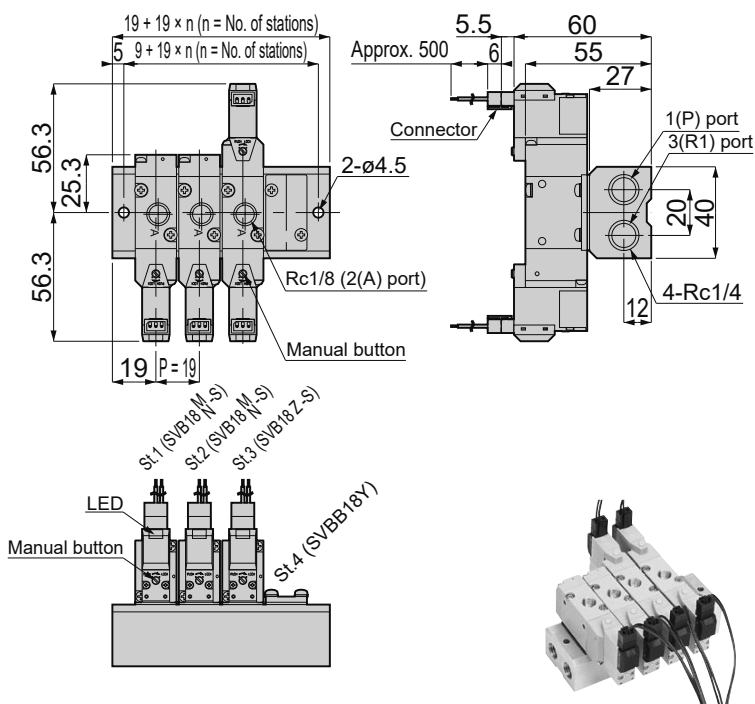
18 Series

For 3 port valves



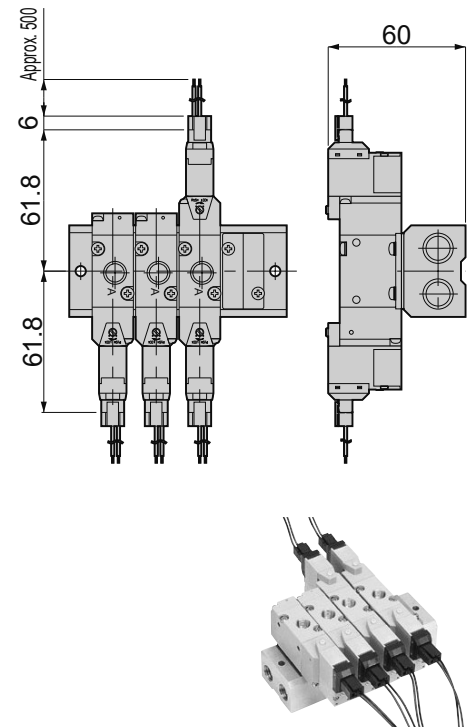
Connector lead-out direction: Top

Model code: SVB18(3)Y-S(6)(7)-(8)-(9)



Connector lead-out direction: Side

Model code: SVB18(3)Y-L(6)(7)-(8)-(9)



■ Dimensional Drawings (22 Series, Manifold type)

SVB

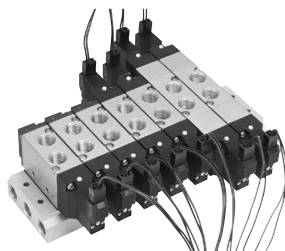
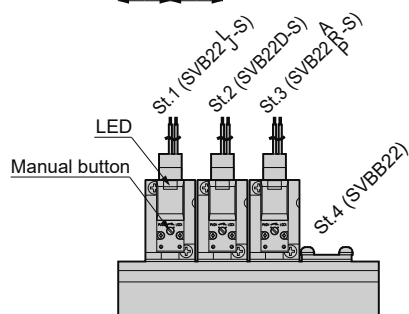
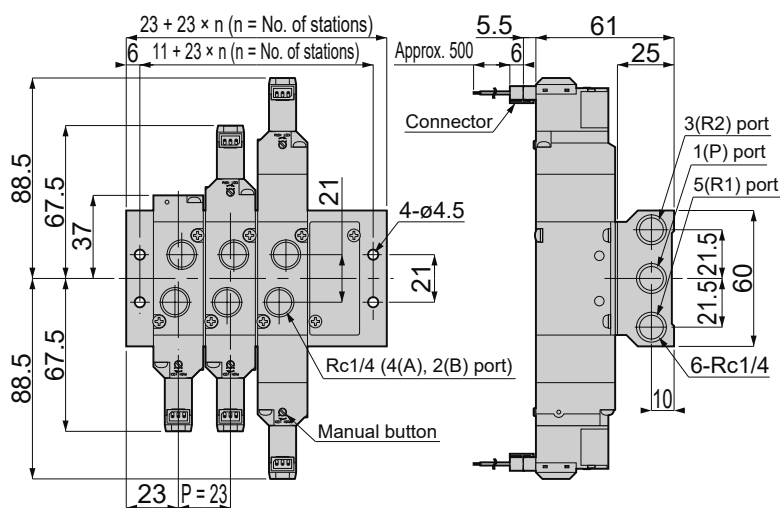
22 Series

3- & 5-port valves mixed mounting type



Connector lead-out direction: Top

Model code: SVB22(3)-S(6)(7)-(8)-(9)



Connector lead-out direction: Side

Model code: SVB22(3)-L(6)(7)-(8)-(9)

