

Solenoid Valve SVR

Pilot solenoid valve with 3/5 ports (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 (Example)

SVR10 (1)	08 (2)	A (3)	-	8C (4)	0C (5)	A08 (6)	S (7)	-	F (8)	-	K (9)	-	D24 (10)	-	(11)	(12)	4C (13)	-	(14)
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(1) Solenoid Valve SVR

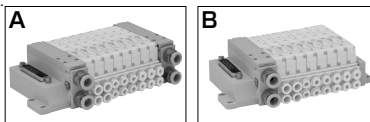
(2) No. of stations

Code	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
No. of stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

* Maximum station number of individual wiring type is 20 and 12 for concentrated wiring type.

(3) Intake & Exhaust block

Code	A	B
Block type	Intake & Exhaust block on Both sides	Intake & Exhaust block on One side



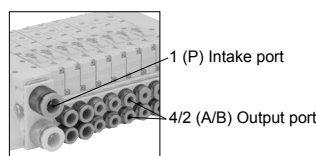
(4) 1/2 (A/B) Output port size

Fitting type	Push-in fitting mm size (mm)						Push-in fitting inch size (inch)			
Code	1C	2C	3C	4C	6C	8C(*)	1/8C	5/32C	1/4C	5/16C(*)
Size	Combination of port size	ø1.8	ø3	ø4	ø6	ø8	ø1/8	ø5/32	ø1/4	ø5/16
Piping direction	Side									

* Compression fitting for polyurethane tube

(5) 1 (P) Intake port size

Fitting type	Push-in fitting mm size (mm)			Push-in fitting inch size (inch)		
Code	6C	8C	0C	1/4C	5/16C	3/8C
Size	ø6	ø8	ø10	ø1/4	ø5/16	ø3/8
Piping direction	Side					



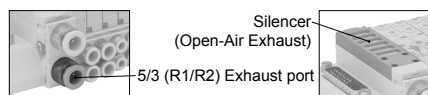
(6) Exhaust check valve specification

Code	A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	No code
Qty.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Without Check valve

* This option is not selectable when Blank plate is selected in (9) . Valve type.

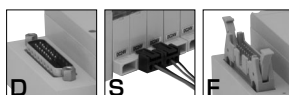
(7) 5/3 (R1/R2) Exhaust port size

Fitting type	Push-in fitting mm size (mm)			Push-in fitting inch size (inch)			Silencer (Open-Air Exhaust)
Code	6	8	0	1/4	5/16	3/8	S
Size	ø6	ø8	ø10	ø1/4	ø5/16	ø3/8	-



(8) Wiring type

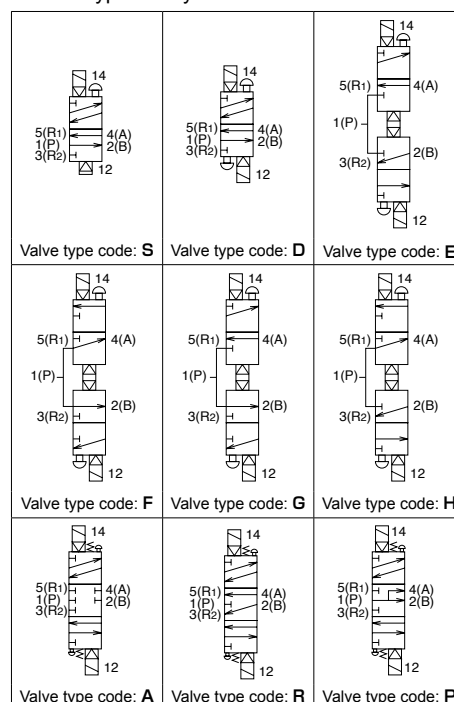
Code	Wiring type
D	Sub-D connector
S	Individual Plug-in Connector
F	Flat cable (ribbon-cable) connector



(9) Mounting valve type

Code	No. of ports	No. of positions	Type
S	5	2	Single solenoid valve
D	5	2	Double solenoid valve
E	3	2	4 (A), 2 (B) port: Normally Closed (Twin 3-Way Valve)
F	3	2	4 (A), 2 (B) port: Normally Open (Twin 3-Way Valve)
G	3	2	4 (A) port: Normally Closed, 2 (B) port: Normally Open (Twin 3-Way Valve)
H	3	2	4 (A) port: Normally Open, 2 (B) port: Normally Closed (Twin 3-Way Valve)
A	5	3	Closed Center
R	5	3	Exhaust Center
P	5	3	Pressure Center
K	Combination of Valves		
B	Blank Plate		
M	Manifold-base Only		

■ Valve type JIS symbol



(10) Voltage

Code	D24	A100
Coil voltage	24VDC	100VAC

* 100VAC valve is no CE marking product.

(11) Dual pressure option

Code	No code	P
Supply pressure	Single pressure	Dual pressure

*1. Please specify pressure separating position by an order form.

*2. Intake & Exhaust Block for Dual Pressure is "A" type (Intake & Exhaust Block on Both sides) only.

*3. When Twin 3-way valve is mounted on a dual pressure type manifold, supply pressure of 1 (P) L side should be equal or more than 1 (P) R side.

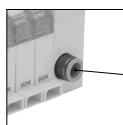
(12) DIN-rail mounting bracket

Code	No code	D
Bracket	Without bracket	With DIN-rail bracket(*)

* 1 set (2 pcs.) is equipped.

(13) (14/12) External pilot air port

Code	Specifications	Fitting size and type
No code	Internal pilot air	—
4C	External Pilot air	ø4mm·Straight
6C	External Pilot air	ø6mm·Straight
4L	External Pilot air	ø4mm·Elbow
6L	External Pilot air	ø6mm·Elbow



(14/12) External Pilot air port

(14) Pilot valve electrical polarity

Code	No code	MC
Specification	Positive common	Negative common

*1 Mixing of electrical polarity on a manifold is not possible.

*2 Negative common type is no CE marking product.

Solenoid Valve SVR

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

SVR10 (1) **D** (2) - **D24** (3) **D** (4)

(1) Solenoid Valve SVR

(2) Mounting valve type

Code	No. of ports	No. of positions	Valve type
S	5	2	Single solenoid valve
D			Double solenoid valve
E	3	2	4 (A), 2 (B) port: Normally Closed (Twin 3-Way Valve)
F			4 (A), 2 (B) port: Normally Open (Twin 3-Way Valve)
G			4 (A) port: Normally Closed, 2 (B) port: Normally Open (Twin 3-Way Valve)
H			4 (A) port: Normally Open, 2 (B) port: Normally Closed (Twin 3-Way Valve)
A	5	3	Closed Center
R			Exhaust Center
P			Pressure Center
K			Combination of Valves
B			Blank Plate

(3) Valve coil voltage

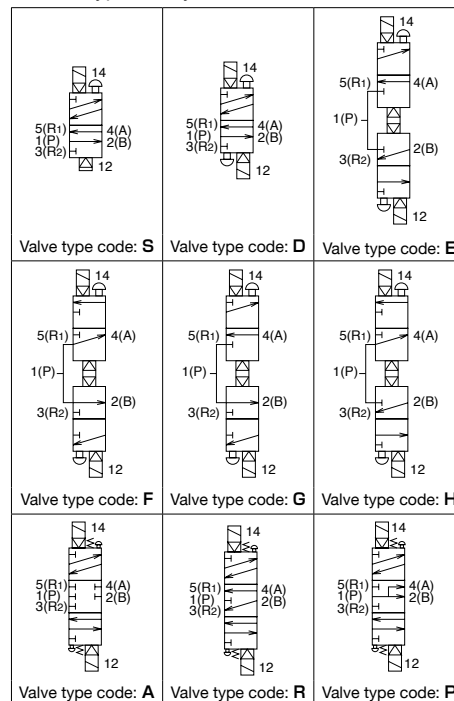
Code	D24	A100
Coil voltage	24VDC	100VAC

* 100VAC valve is no CE marking product.

(4) Wiring type

Code	Wiring type
D	Concentrated wiring (Sub-D connector, Flat cable connector)
S	Individual Plug-in Connector

Valve type JIS symbol



Model code of DIN-rail mounting bracket

DRF35S (1)

(1) DIN-rail mounting bracket

Model code of Silencer element

SVR10 (1) **EX - E**

(1) Solenoid Valve SVR

Model code of Blank Plate (Example)

SVR10 (1) **B**

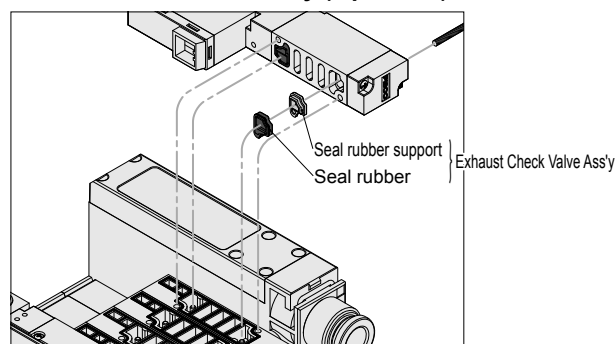
(1) Solenoid Valve SVR

Model code of Exhaust Check Valve

SVR10 (1) - **EXV** (2)

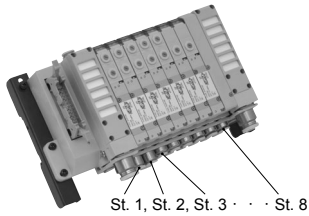
(1) Solenoid Valve SVR

(2) Exhaust Check Valve Ass'y (2 pcs/ set)



Order Example

Model (1)	No. of stations (2)	In. & Ex. block (3)	Out-port (4)	In-port (5)	Check valve (6)	Ex-port (7)	Wiring (8)	Valve (9)	Voltage (10)	2-press. (11)	DIN rail (12)	Extl. Pilot (13)	Elec. Polarity (14)
SVR10	08	A	1C	0C		S	F	K	D24	P	D	4C	



* Station No. is counted as St.1, St.2, St.3
...St.8 from left side with the tube fittings at
the front as shown in the figure above.

Station No.	Out-port	Check valve	Valve	2-press.
St. 1	6		SVR10	D
St. 2	6		SVR10	D
St. 3	4	A	SVR10	D
St. 4	4	A	SVR10	D
St. 5	4	A	SVR10	D
St. 6	3		SVR10	S
St. 7	3		SVR10	S
St. 8	3		SVR10	B

Cut here

SVR10 Solenoid Valve Specification Order Form

To: NIHON PISCO Co.,Ltd.

Person in charge: _____

Distributor/Dealer address: _____

TEL _____

Delivery address: _____

TEL _____

Customer address: _____

TEL _____

Requested EX-W PISCO Date: _____

Quantity _____

pcs

Model (1)	No. of stations (2)	In. & Ex. block (3)	Out-port (4)	In-port (5)	Check valve (6)	Ex-port (7)	Wiring (8)	Valve (9)	Voltage (10)	2-press. (11)	DIN rail (12)	Extl. Pilot (13)	Elec. Polarity (14)
SVR10													

Station No.	Out-port	Check valve	Valve	2-press.
St. 1			SVR10	
St. 2			SVR10	
St. 3			SVR10	
St. 4			SVR10	
St. 5			SVR10	
St. 6			SVR10	
St. 7			SVR10	
St. 8			SVR10	
St. 9			SVR10	
St. 10			SVR10	
St. 11			SVR10	
St. 12			SVR10	
St. 13			SVR10	
St. 14			SVR10	
St. 15			SVR10	
St. 16			SVR10	
St. 17			SVR10	
St. 18			SVR10	
St. 19			SVR10	
St. 20			SVR10	

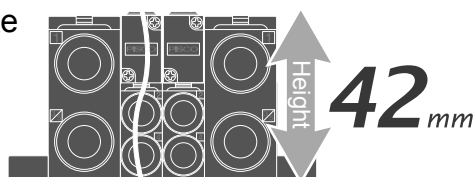
* (6). Check valve is not selectable when Blank plate is selected in (9). Valve type.

Solenoid Valve SVR

Characteristics

Compact body, but securing high flow rate

Suitable to be installed in limited space.



9 types of valves

Code>S	Code>D	Code>E	Code>F	Code>G	Code>H	Code>A	Code>R	Code>P
5 ports	2 positions	3 ports 2 positions				5 ports 3 positions		
Single solenoid valve	Double solenoid valve	4 (A), 2 (B) port: Normally Closed (Twin 3-Way Valve)	4 (A), 2 (B) port: Normally Open (Twin 3-Way Valve)	4 (A) port: Normally Closed, 2 (B) port: Normally Open (Twin 3-Way Valve)	4 (A) port: Normally Open, 2 (B) port: Normally Closed (Twin 3-Way Valve)	Closed Center	Exhaust Center	Pressure Center

Twin 3-way valve can reduce No. of manifold stations and contributes to space-saving.

Suitable for applications where 3-way valve is often used, such as air operated-valve and single acting cylinder.

Centralized wire harness makes manifold piping easy.

Sub-D connector and Flat cable (ribbon-cable) connector are available.

Easy exchange of input and output port fittings.

Cartridge fitting replacement is simple to do and just requires you to remove the lock pin.

■ Cartridge fitting for 1 (P) intake port, 5/3 (R1/R2) exhaust port

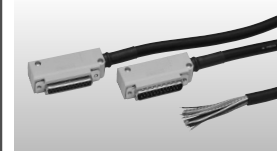
mm size			inch size		
ø6mm	ø8mm	ø10mm	ø1/4"	ø5/16"	ø3/8"

■ Cartridge fittings for 4/2(A/B) output ports

mm size					inch size			
ø1.8mm	ø3mm	ø4mm	ø6mm	ø8mm (*)	ø1/8"	ø5/32"	ø1/4"	ø5/16" (*)

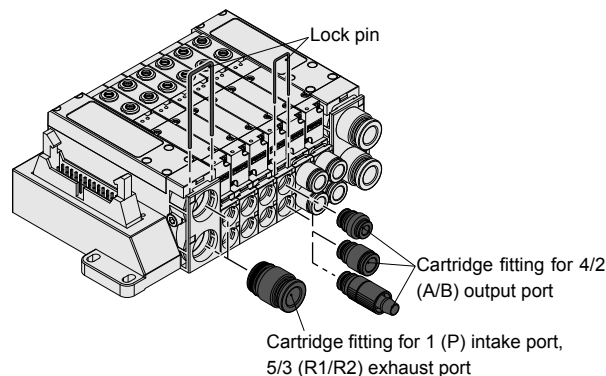
* Compression fitting for urethane tube

Related products



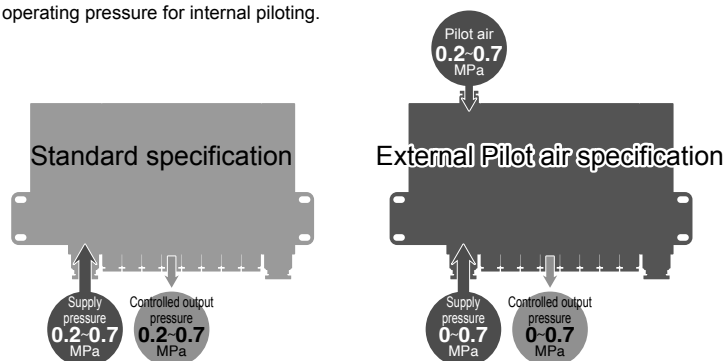
Sub-D connector

► P.246



Serviceable from 0 MPa operating pressure.

It can be used for application at low-pressures down to 0 MPa which is realized by independent external pilot while normal operations require at least 0.2 MPa operating pressure for internal piloting.



Exhaust check valve prevents malfunction of an actuator.

When using SVR with multiple manifold stations, exhaust check valve prevents malfunction of actuators, caused by a surge pressure in exhaust circuit when switching a valve.

Specifications

Manifold specifications

Model	SVR10 □□ - □ - D	SVR10 □□ - □ - F	SVR10 □□ - □ - S
Item	Sub-D connector	Flat cable connector	Individual plug-in connector
Fluid medium	Air		
Operating pressure range	0.2 to 0.7 MPa (With external pilot air port: 0 to 0.7 MPa ^(*)) Pressure range of external pilot air port: 0.2 to 0.7 MPa		
Proof pressure	1.05MPa		
Operating temp. range	5 to 50°C		
Installing direction	Universal		
Vibration resistance	49m/s ²		
Impact resistance	150m/s ²		
No. of mountable main valve	Max 12pcs.		Max 20pcs.
Wiring type	Type	Sub-D	Flat cable
	No. of pins	2 to 4St.: 9pins	2 to 4St.: 10pins
		5 to 12St.: 25pins	5 to 9St.: 20pins
		10 to 12St.: 26pins	
Silencer	Standard equipment only with silencer exhaust 5 (R1) and 3 (R2) port.		

* When twin 3-way valve is mounted, 0.2 to 0.7 MPa.

Cylinder Speed Table

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

*1 The cylinder average speed is referential at 0.5 MPa of pressure, 30% of load factor and 1 m 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 ø6mm Push-in fitting is used on 4 (A) and 2 (B) ports of SVR10D.

Effective sectional area

Model		SVR10S-□ SVR10D-□		SVR10A-□		SVR10R-□		SVR10P-□		SVR10E-□ SVR10G-□ (NC) SVR10H-□ (NC)		SVR10F-□ SVR10G-□ (NO) SVR10H-□ (NO)	
		S ^(*)	Cv	S ^(*)	Cv	S ^(*)	Cv	S ^(*)	Cv	S ^(*)	Cv	S ^(*)	Cv
Piping spec.		Output port size											
1(P)→4(A), 2(B)	ø8 ^(*)	6.0	0.33	4.7	0.25	4.7	0.25	6.8	0.37	3.5	0.19	5.9	0.32
	ø6	6.0	0.33	4.7	0.25	4.7	0.25	6.8	0.37	3.5	0.19	5.9	0.32
	ø4	4.0	0.22	3.8	0.21	3.8	0.21	4.3	0.23	3.3	0.18	4.0	0.22
	ø3	2.6	0.14	2.6	0.14	2.6	0.14	2.6	0.14	2.6	0.14	2.6	0.14
	ø1.8	1.1	0.06	1.1	0.06	1.1	0.06	1.1	0.06	1.1	0.06	1.1	0.06
4(A), 2(B)→ 5(R1), 3(R2) Without Exhaust check valve (*)	ø8	5.6	0.30	3.6	0.20	6.7	0.36	3.6	0.20	5.1	0.28	5.1	0.28
	ø6	5.6	0.30	3.6	0.20	6.7	0.36	3.6	0.20	5.1	0.28	5.1	0.28
	ø4	3.6	0.20	3.3	0.18	4.3	0.23	3.3	0.18	4.0	0.22	4.0	0.22
	ø3	2.1	0.11	2.1	0.11	2.1	0.11	2.1	0.11	2.1	0.11	2.1	0.11
	ø1.8	0.5	0.03	0.5	0.03	0.5	0.03	0.5	0.03	0.5	0.03	0.5	0.03
4(A), 2(B)→ 5(R1), 3(R2) With Exhaust check valve (*)	ø8	3.6	0.20	3.1	0.17	3.6	0.20	3.1	0.17	3.5	0.19	3.5	0.19
	ø6	3.6	0.20	3.1	0.17	3.6	0.20	3.1	0.17	3.5	0.19	3.5	0.19
	ø4	2.9	0.16	2.9	0.16	3.4	0.18	2.9	0.16	3.1	0.17	3.1	0.17
	ø3	2.1	0.11	2.1	0.11	2.1	0.11	2.1	0.11	2.1	0.11	2.1	0.11
	ø1.8	0.5	0.03	0.5	0.03	0.5	0.03	0.5	0.03	0.5	0.03	0.5	0.03

*1 The value of a compression fitting

*2 The value of 5/3 (R1/R2) with dia. 10mm fitting

*3 S: Effective Sectional Area (mm²)

*4 Refer to the effective sectional area of dia. 3mm for inch port size of dia. 1/8", refer to dia. 4mm for dia. 5/32", dia 6mm for 1/4" refer to dia. 8mm for dia. 5/16" respectively.

Main valve specifications

Model	SVR10S	SVR10D	SVR10A SVR10R SVR10P	SVR10E SVR10F SVR10G SVR10H
Item				
Operating system	Pilot-operated			
Valve structure	Rubber seal, Spool valve			
No. of positions	2 positions		3 positions	2 positions
No. of ports	5 ports			3 ports×2
Valve function	Single	Double		Single×2
No. of pilot points	1	2		
Response time ^(*)	→ON	11msec	8msec	10msec ^(*)
	→OFF	6msec	—	15msec ^(*)
Max. operation cycle	5Hz			
Min. excitation time	—	50msec	—	—
Vibration resistance	49m/s ²			
Impact resistance	150m/s ²			
Lubrication	Not required			
Operating pressure range	0.2 to 0.7 MPa (With external pilot air port: 0 to 0.7 MPa) ^(*)			

*1. The value at supply air: 0.5 MPa with 24 VDC.

*2. Response time for 3-Position represents the value from Neutral Position to ON and from ON to Neutral Position (OFF).

*3. When twin 3-way valve is mounted, 0.2 to 0.7 MPa.

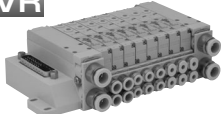
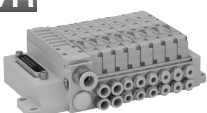
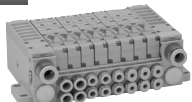
Pilot valve specifications

Rated voltage	24VDC	100VAC
Item		
Operating system	Direct acting	
Valve structure	Rubber seal, Poppet valve	
Tolerance of voltage range	21.6 to 26.4VDC	90 to 110VAC
Power consumption (With indication lamp)	0.7W	1.25VA
Surge protection circuit	Surge absorber	Bridge diode
Manual override	Push-lock button	
Max. operating pressure	0.7MPa	
Indication lamp	LED (4(A): Green, 2(B): Red)	

Solenoid Valve SVR

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



Sub-D connector type			
Type	Model code	Type	Model code
Intake & Exhaust block on both sides (Tube exhaust) SVR 	SVR102A-4157-D-9-10-111213-14	Intake & Exhaust block on one side (Tube exhaust) SVR 	SVR102B-4157-D-9-10-111213-14
Type	Model code	Type	Model code
Intake & Exhaust block on both sides (Silencer exhaust) SVR 	SVR102A-415S-D-9-10-111213-14	Intake & Exhaust block on one side (Silencer exhaust) SVR 	SVR102B-415S-D-9-10-111213-14
Individual Plug-in Connector type			
Type	Model code	Type	Model code
Intake & Exhaust block on both sides (Tube exhaust) SVR 	SVR102A-4157-S-9-10-111213-14	Intake & Exhaust block on one side (Tube exhaust) SVR 	SVR102B-4157-S-9-10-111213-14
Type	Model code	Type	Model code
Intake & Exhaust block on both sides (Silencer exhaust) SVR 	SVR102A-415S-S-9-10-111213-14	Intake & Exhaust block on one side (Silencer exhaust) SVR 	SVR102B-415S-S-9-10-111213-14
Flat cable (ribbon-cable) connector type			
Type	Model code	Type	Model code
Intake & Exhaust block on both sides (Tube exhaust) SVR 	SVR102A-4157-F-9-10-111213-14	Intake & Exhaust block on one side (Tube exhaust) SVR 	SVR102B-4157-F-9-10-111213-14
Type	Model code	Type	Model code
Intake & Exhaust block on both sides (Silencer exhaust) SVR 	SVR102A-415S-F-9-10-111213-14	In. & Ex. block on one side (Silencer exhaust) SVR 	SVR102B-415S-F-9-10-111213-14



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 model designation on page 238 to 239. [2]: Number of stations, [4]: Output port size code, [5]: Intake port size code, [7]: Exhaust port size code, [9]: Valve type code, [10]: Voltage code, [11]: Dual pressure option code, [12]: DIN rail bracket code, and [13]: External pilot air code.

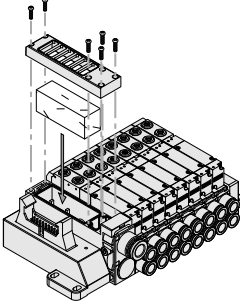
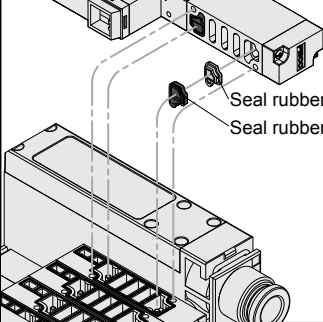
*3. 100VAC valve and negative common type are no CE marking products.



Packaging specifications

1 pc. /bag

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

DIN-rail mounting bracket		Blank Plate	
Type	Model code	Type	Model code
DIN-rail mounting bracket DRF 	DRF35S	Blank Plate SVR10B 	SVR10B
Silencer element		Exhaust Check Valve Ass'y	
	Model code SVR10EX-E	 Seal rubber support Seal rubber Exhaust Check Valve Ass'y * 1 set includes 2 pcs. Model code SVR10-EXV	



Notes

* Replacement of Silencer element is possible only when a exhaust port is open-air type with a silencer.

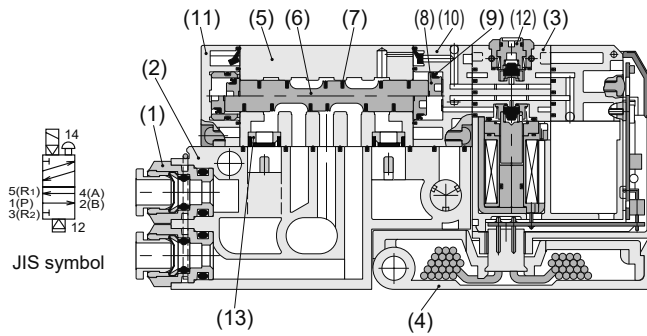


Packaging specifications

1 pc. /bag : Blank plate
2 pcs. /bag: DIN rail bracket
10 sets/bag: Silencer element
1 set (2 pcs.) /bag: Exhaust check valve ass'y

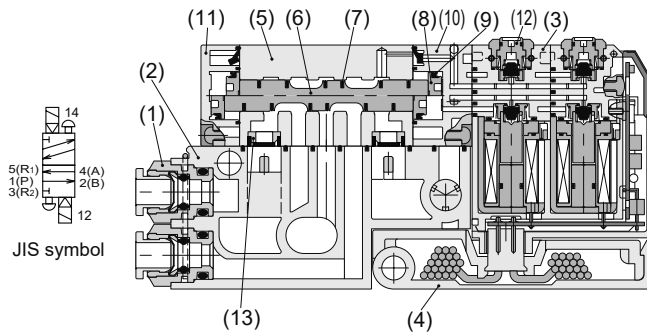
Sectional Drawings

2 positions, 5 ports, Single solenoid (SVR10S)



No.	Parts	Material (Treatment)
(1)	Fitting Ass'y	
(2)	Manifold block	PBT
(3)	Pilot valve Ass'y	
(4)	Electrical part Ass'y	
(5)	Valve body	Aluminum alloy
(6)	Spool	Aluminum alloy
(7)	Spool seal rubber	NBR
(8)	Piston	POM
(9)	Piston packing	NBR
(10)	Intermediate block	PBT
(11)	End block	PBT
(12)	Manual button	POM
(13)	Exhaust Check Valve Ass'y	

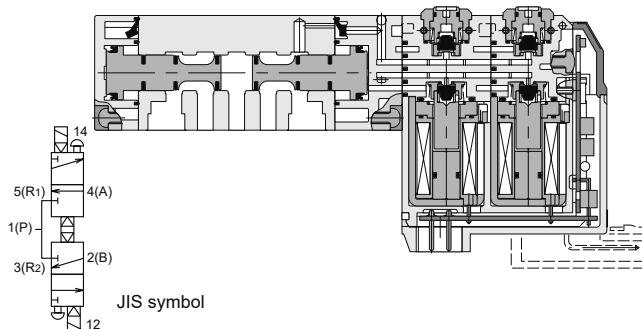
2 positions, 5 ports, Double solenoid (SVR10D)



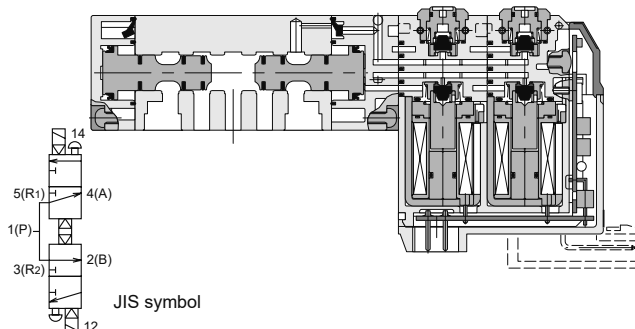
No.	Parts	Material (Treatment)
(1)	Fitting Ass'y	
(2)	Manifold block	PBT
(3)	Pilot valve Ass'y	
(4)	Electrical part Ass'y	
(5)	Valve body	Aluminum alloy
(6)	Spool	Aluminum alloy
(7)	Spool seal rubber	NBR
(8)	Piston	POM
(9)	Piston packing	NBR
(10)	Intermediate block	PBT
(11)	End block	PBT
(12)	Manual button	POM
(13)	Exhaust Check Valve Ass'y	

■ 2 positions, 3 ports, Valve

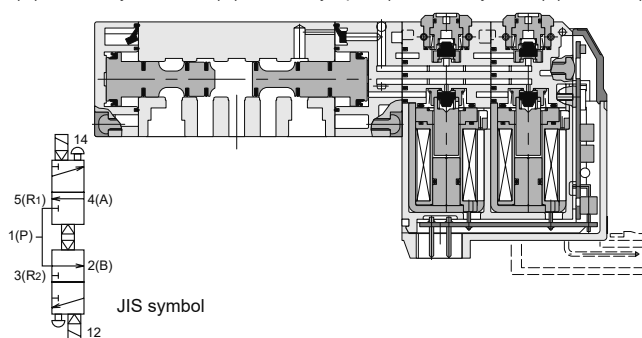
4(A). 2(B). Normally closed (Twin 3-way valve) (SVR10E)



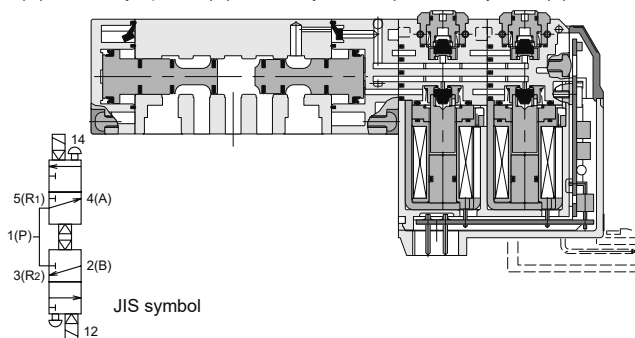
4(A). 2(B). Normally open (Twin 3-way valve) (SVR10F)



4(A). Normally closed, 2(B). Normally open (Twin 3-way valve) (SVR10G)

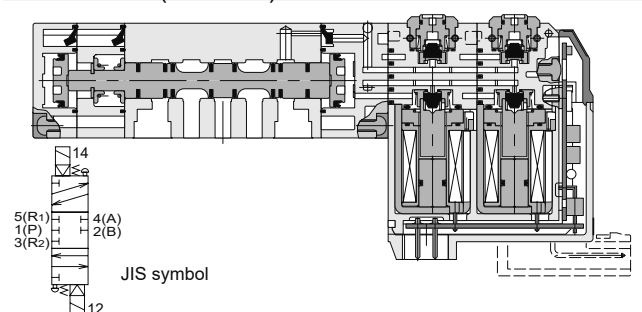


4(A). Normally open, 2(B). Normally closed (Twin 3-way valve) (SVR10H)

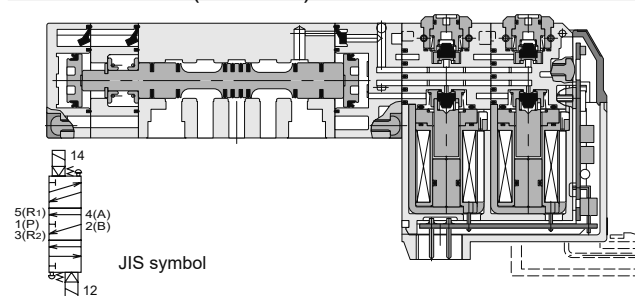


■ 3 positions, 5 ports, Double solenoid

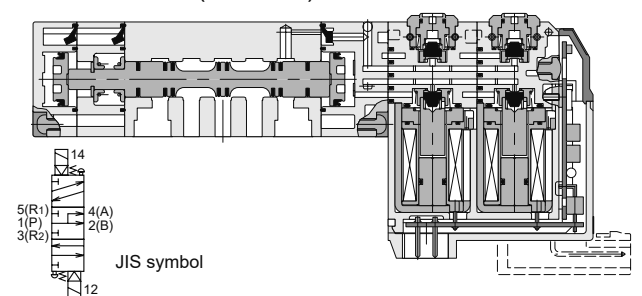
Close center (SVR10A)



Exhaust center (SVR10R)



Pressure center (SVR10P)



■ Weight List

Valve type	Weight (g)
SVR10S	30
SVR10D	38
SVR10E	38
SVR10F	38
SVR10G	38
SVR10H	38
SVR10A	40
SVR10R	40
SVR10P	40
SVR10B	17

Manifold intermediate block (per station)	Weight (g)
Individual wiring	16
Concentrated wiring	17

Manifold intermediate block for dual pressure (per station)	Weight (g)
Individual wiring	16
Concentrated wiring	18

Exhaust Check Valve Ass'y	Weight (g)
Per station	0.4

Connector cable (individual wiring type)	Weight (g)
2P (for valve type S)	3
3P (for valve types D, E, F, G, H, A, R, P)	4.5

Manifold type	Exhaust type	Wiring type	Weight (g)
Block on one side	Tube exhaust	Individual wiring	79
		Sub-D 9-pin	102
		Sub-D 25-pin	106
		Flat cable 10-pin	102
		Flat cable 20-pin	103
		Flat cable 26-pin	103
	Silencer exhaust	Individual wiring	82
		Sub-D 9-pin	106
		Sub-D 25-pin	110
		Flat cable 10-pin	105
		Flat cable 20-pin	106
		Flat cable 26-pin	106
Block on both sides	Tube exhaust	Individual wiring	110
		Sub-D 9-pin	134
		Sub-D 25-pin	138
		Flat cable 10-pin	133
		Flat cable 20-pin	135
		Flat cable 26-pin	135
	Silencer exhaust	Individual wiring	117
		Sub-D 9-pin	141
		Sub-D 25-pin	145
		Flat cable 10-pin	140
		Flat cable 20-pin	141
		Flat cable 26-pin	142

Fitting cartridge		Weight (g)
CJC09-180	Output port	4.3
CJC09-03	Output port	3.7
CJC09-04A	Output port/External pilot port	3.5
CJC09-06A	Output port/External pilot port	3.5
CJB09-08	Output port	9
CJL09-04	External pilot port	4.7
CJL09-06	External pilot port	5.5
CJP09	External pilot port (plug)	1.3
CJC14-06	Intake/Exhaust port	12
CJC14-08	Intake/Exhaust port	10
CJC14-10	Intake/Exhaust port	13

■ Use the following formula to calculate the weight of SVR.

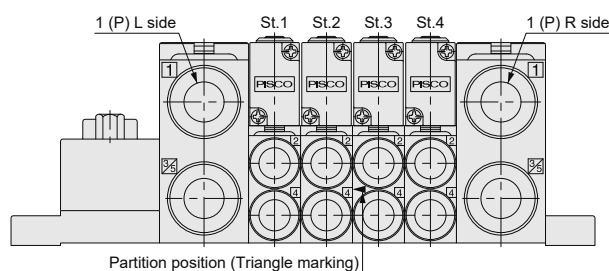
(Manifold intermediate block x No. of stations) + Manifold type + (Cartridge x Quantity) + {Connector cable type x Quantity} + {Exhaust Check Valve x Quantity} + (Valve type x Quantity)

Safety instructions for External Pilot Air (*1)

- When operating the twin 3-way solenoid valve (valve type: E, F, G and H) with external pilot air, keep a pressure of 0.2 MPa or more on the intake port 1(P). Also, make sure that the pilot air pressure stays greater than or equal to the pressure on the intake port 1(P). If the pilot air pressure drops below the supply pressure, it could cause malfunctions.

Safety Instructions for Dual Pressure Option (*1 to 3)

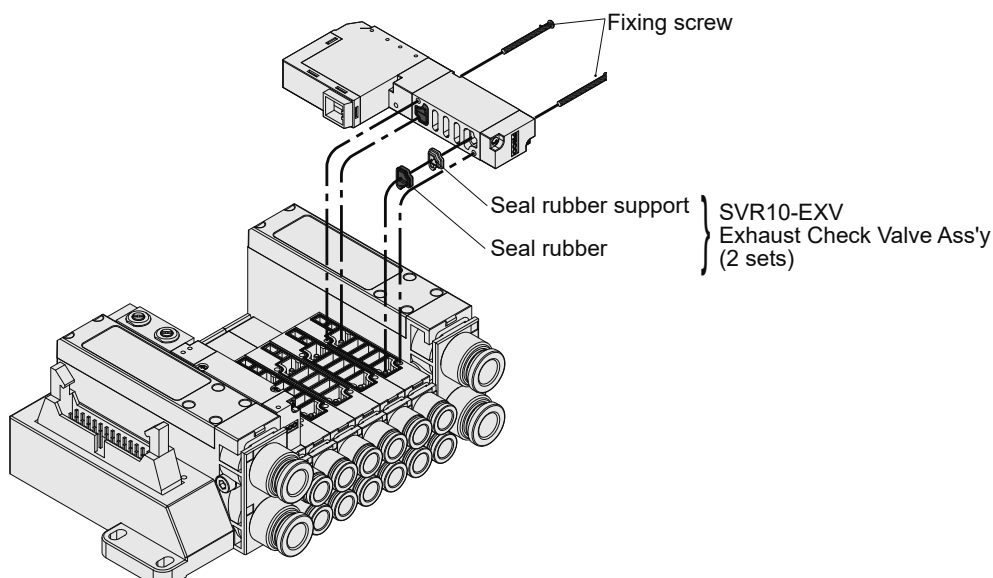
- The triangle marking indicates where supply air is partitioned.
Ex.) In the case of the figure below, the intake port on the "L" side supplies air to St. 1 and St. 2, while the intake port on the "R" side supplies air to St. 3 and St. 4.



- *1. When dual pressure and external pilot air are selected, external pilot air pressure will be supplied to all stations.
- *2. When dual pressure is selected, pilot air pressure will be supplied to all stations from the intake port on the L side.
- *3. When the twin 3-way solenoid valve is mounted on a dual pressure manifold base, make sure that the supply pressure of 1(P)L side stays greater than or equal to that of 1(P)R side.

■ How to attach Exhaust Check Valve Ass'y

- Attach a seal rubber support on a seal rubber.
- Put the seal rubber with the seal rubber support in Solenoid Valve.
(Make sure to put it straight in Solenoid Valve. Otherwise proper check valve function may not be obtained.)
- Install Solenoid Valve on the manifold base and tighten fixing screws.
(Refer to the user's manual for Solenoid Valve installation/removal.)



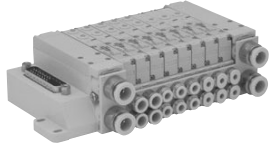
■ Dimensional Drawings

SVR Sub-D Connector type Tube exhaust



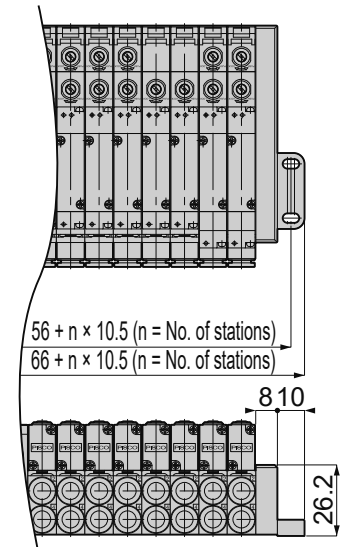
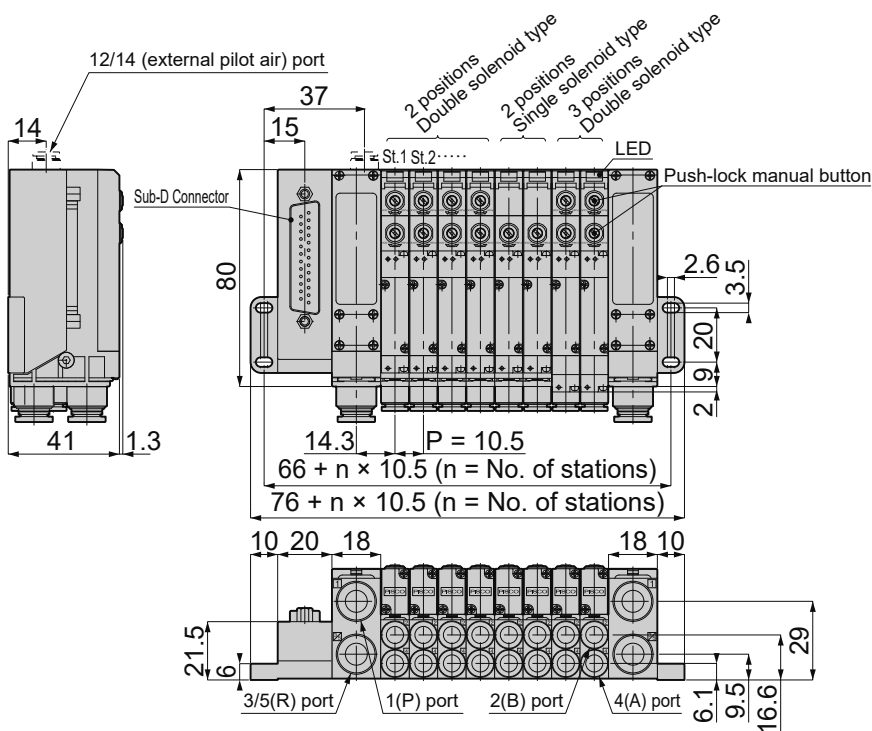
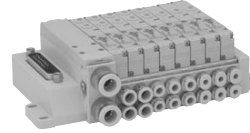
Intake & Exhaust block on both sides

Model code: SVR10(2)A-(4)(5)(7)-D-(9)-(10)-(11)(12)(13)-(14)



Intake & Exhaust block on one side

Model code: SVR10(2)B-(4)(5)(7)-D-(9)-(10)-(11)(12)(13)-(14)



*1. Fitting part dimensions can be found on the latter page after the "Dimensional Drawings" section.

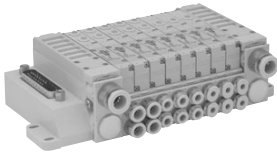
*2. 100 VAC valve and negative common type are not CE marked.

SVR Sub-D Connector type Silencer exhaust



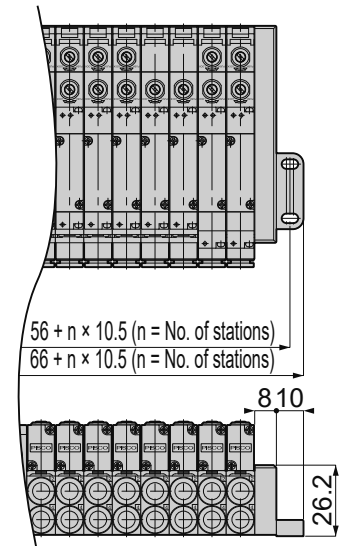
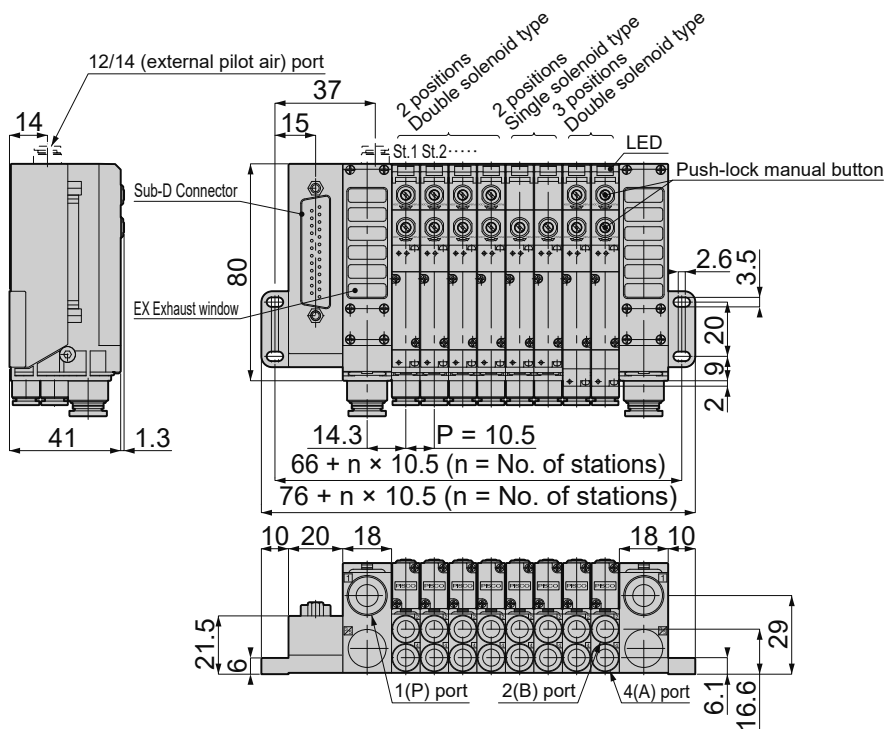
Intake & Exhaust block on both sides

Model code: SVR10(2)A-(4)(5)S-D-(9)-(10)-(11)(12)(13)-(14)



Intake & Exhaust block on one side

Model code: SVR10(2)B-(4)(5)S-D-(9)-(10)-(11)(12)(13)-(14)



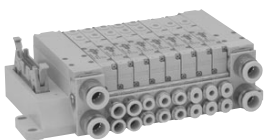
*1. Fitting part dimensions can be found on the latter page after the "Dimensional Drawings" section.

*2. 100 VAC valve and negative common type are not CE marked.

SVR**Flat cable (ribbon-cable) connector type Tube exhaust**

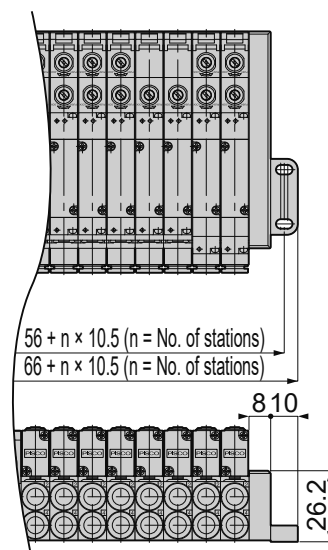
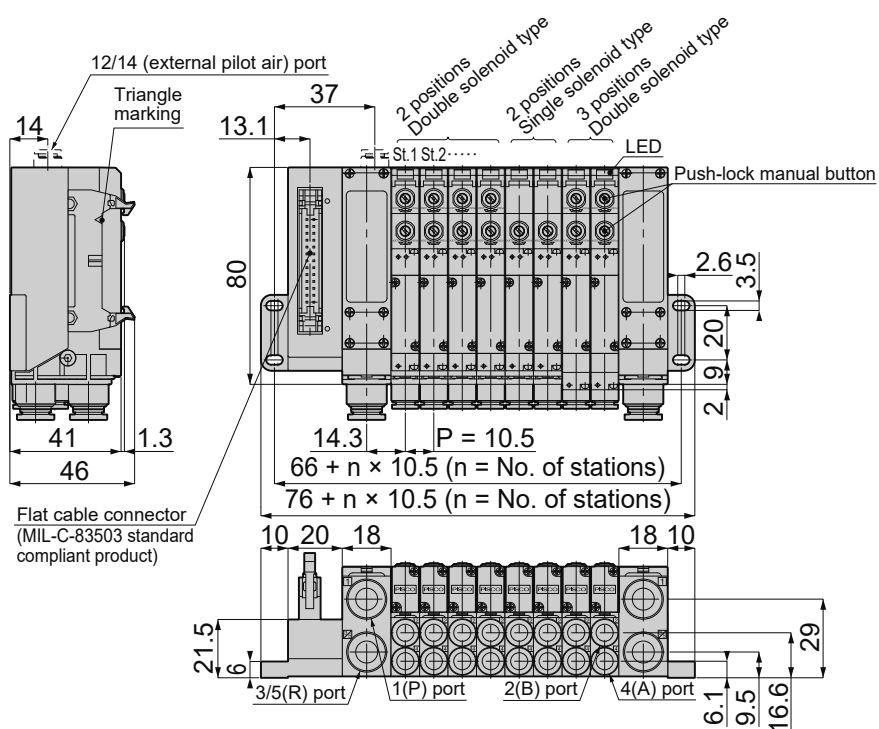
Intake & Exhaust block on both sides

Model code: SVR10(2)A-(4)(5)(7)-F-(9)-(10)-(11)(12)(13)-(14)



Intake & Exhaust block on one side

Model code: SVR10(2)A-(4)(5)(7)-F-(9)-(10)-(11)(12)(13)-(14)



*1. Fitting part dimensions can be found on the latter page after the "Dimensional Drawings" section.

*2. 100 VAC valve and negative common type are not CE marked.

SVR**Flat cable (ribbon-cable) connector type Silencer exhaust**

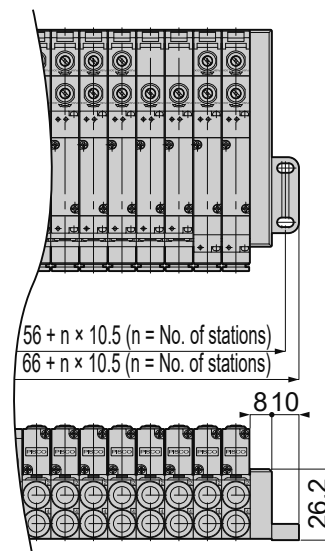
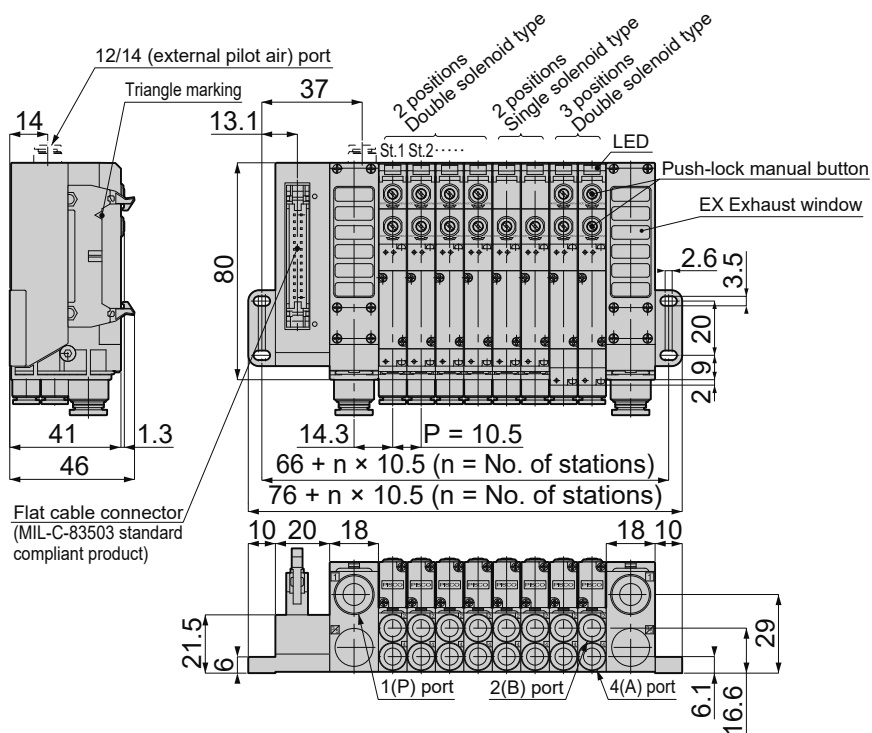
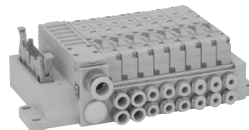
Intake & Exhaust block on both sides

Model code: SVR10(2)A-(4)(5)S-F-(9)-(10)-(11)(12)(13)-(14)



Intake & Exhaust block on one side

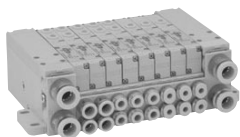
Model code: SVR10(2)B-(4)(5)S-F-(9)-(10)-(11)(12)(13)-(14)



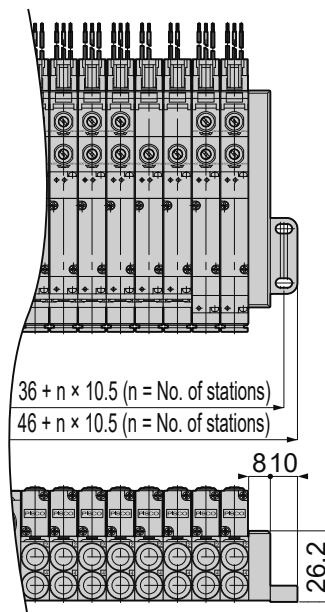
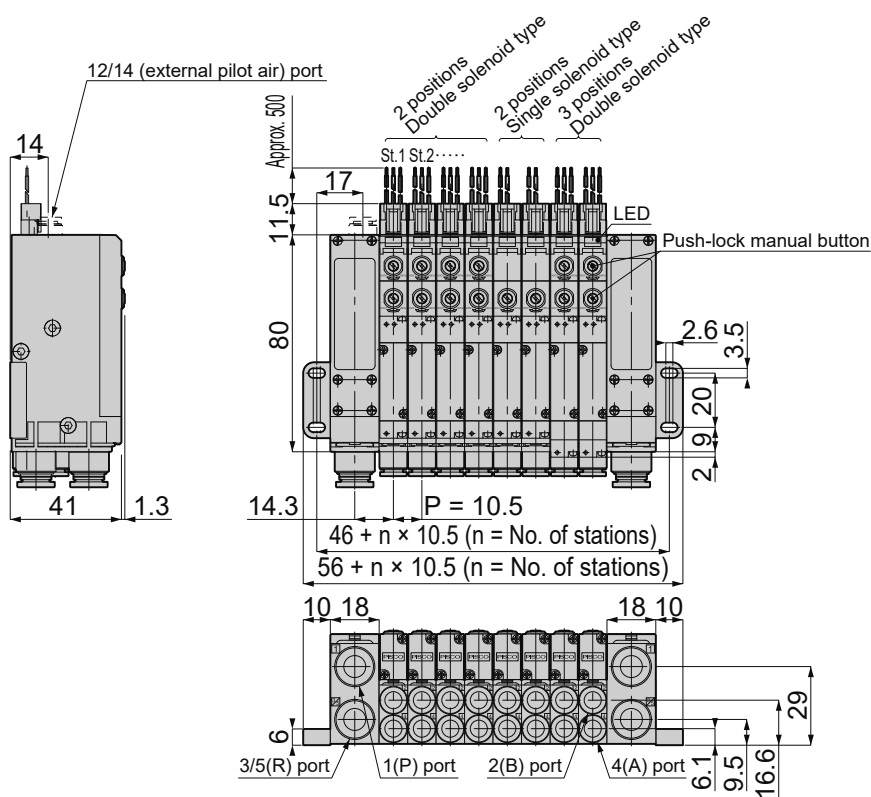
*1. Fitting part dimensions can be found on the latter page after the "Dimensional Drawings" section.

*2. 100 VAC valve and negative common type are not CE marked.

Model code: SVR10(2)A-(4)(5)(7)-S-(9)-(10)-(11)(12)(13)-(14)



Model code: SVR10(2)B-(4)(5)(7)-S-(9)-(10)-(11)(12)(13)-(14)

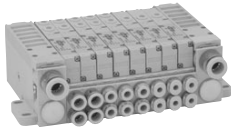


*2. 100 VAC valve and negative common type are not CE marked.

SVR**Individual plug-in connector type Silencer exhaust**

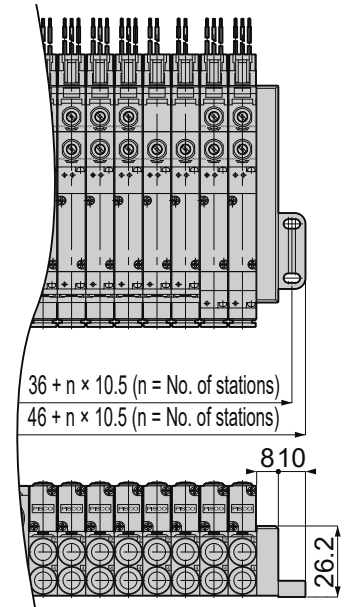
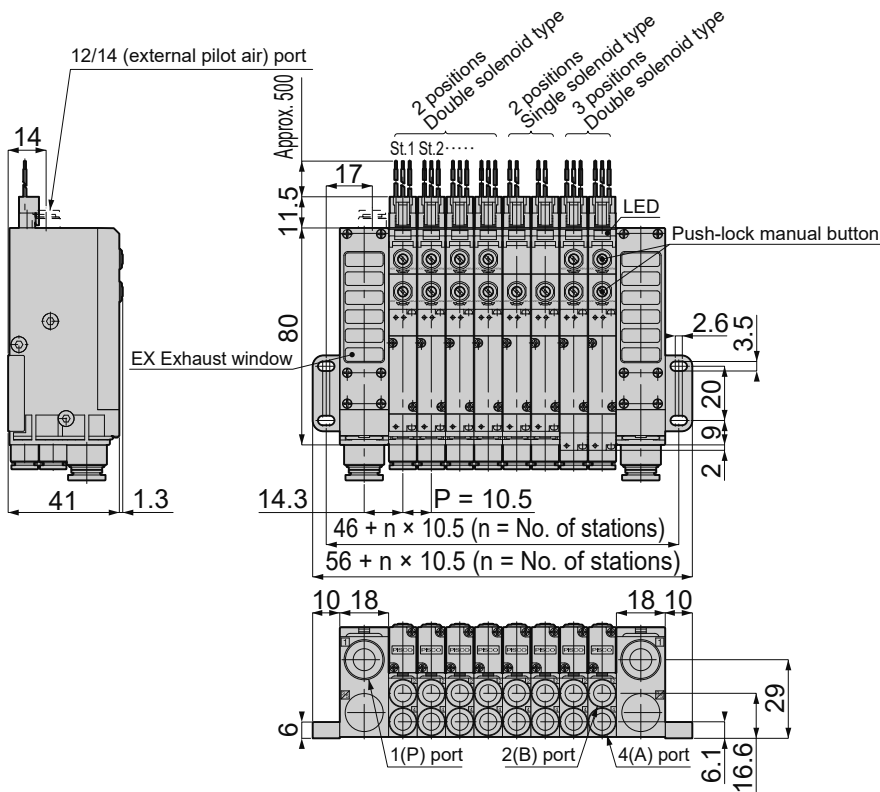
Intake & Exhaust block on both sides

Model code: SVR10(2)A-(4)(5)S-S-(9)-(10)-(11)(12)(13)-(14)



Intake & Exhaust block on one side

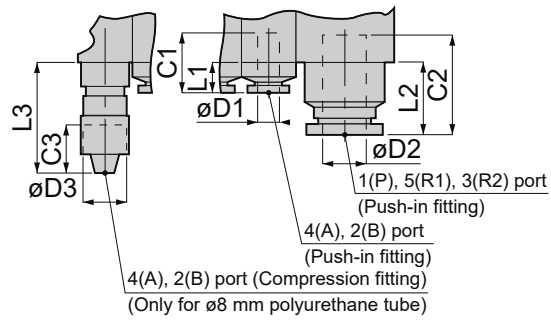
Model code: SVR10(2)B-(4)(5)S-S-(9)-(10)-(11)(12)(13)-(14)



*1. Fitting part dimensions can be found on the latter page after the "Dimensional Drawings" section.

*2. 100 VAC valve and negative common type are not CE marked.

■ Fitting Part Dimensions



Unit: mm

	Tube O.D. øD1	C1	L1	Tube O.D. øD2	C2	L2	Tube O.D. øD3	C3	L3
4(A) port, 2(B) port	1.8	8.5	5	-	-	-	-	-	-
	3 (1/8)	11	5.8	-	-	-	-	-	-
	4 (5/32)	11	6	-	-	-	-	-	-
	6	12	9	-	-	-	-	-	-
	1/4	11.4	10.4	-	-	-	-	-	-
	-	-	-	-	-	-	8 (5/16)	9	22
1(P) port, 5/3(R) port	-	-	-	6	17	12	-	-	-
	-	-	-	1/4	17	12	-	-	-
	-	-	-	8 (5/16)	18.5	13.5	-	-	-
	-	-	-	10	21	17	-	-	-
	-	-	-	3/8	21	17	-	-	-

■ DIN-rail Mounting Bracket

DRF35S DIN-rail Mounting Bracket



Model code

DRF35S

