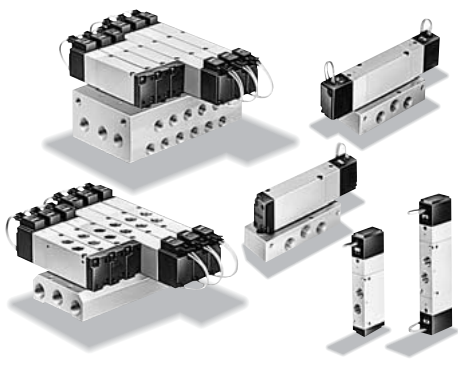


Small-size lubrication-free solenoid valves having a valve width of 21 mm and effective sectional area of 25 mm² (2-position type)

- Suitable for driving cylinders with bores from 63 to 100 mm
- As standard devices for protection from power surge, the valves for AC are provided with varistors, and those for DC are provided with flywheel diodes.
- The valves for AC power supply are applicable to 100 V AC to 120 V AC or 200 V AC to 240 V AC.
- The valves can be wired by various methods, e.g. Q socket, P socket, DIN socket and lead wire methods, and the Q socket, P socket and DIN socket type valves are provided with lamps for easy confirmation as standard devices.



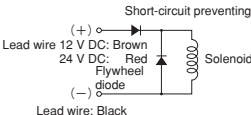
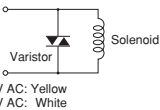
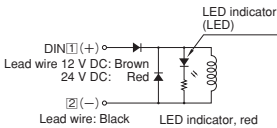
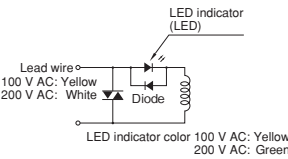
Valve Specifications

Model			5-port				
			2-position		3-position		
Item			Return	Detent	3-position closed center	3-position exhaust center	3-position pressure center
Model number	Direct type		SR552-RN2	SR552-DN2	SR552-CN2	SR552-EN2	SR552-PN2
	Easy-manifold						
	Sub-plate type		SR552-RMM	SR552-DMM	SR552-CMM	SR552-EMM	SR552-PM
	Mono-manifold						
JIS symbol							
Port size	Direct type	P-A-B R1-R2	Direct screw piping type: Rc1/4				
	Sub-plate type	P-A-B R1-R2	Direct screw piping type: Rc1/4				
Effective sectional area	Direct		25 mm ²		22 mm ²		
	Sub-plate Sub-plate/tandem type		22 mm ²		20 mm ²		
Working fluid			Air				
Lubrication			Unnecessary				
Working pressure range			0.17 to 0.7 MPa				
Proof test pressure			1.05 MPa				
Note 1) Response time In ON/OFF state	24 V DC, 12 V DC		15/30 ms or less	15 ms or less	20/25 ms or less		
	100 V AC, 200 V AC		15/25 ms or less	15 ms or less	15/20 ms or less		
Working temperature range			+5 to +50°C (ambient temperature and fluid temperature)				
Manual override			Pushing				
Installing direction			Free				
Vibration resistance/impact resistance			1373.0 m/s ² (343.2 m/s ² in axial direction)	1373.0 m/s ² (245.2 m/s ² in axial direction)	1373.0 m/s ² (441.3 m/s ² in axial direction)		
Recommended lubricant			JIS K2213 Class 1 (additive-free turbine oil ISO VG32) or its equivalent				
Note 2) Weight g	Direct type		230	330	380		
	Easy-manifold						
	Sub-plate type Mono-manifold		240 (460)	330 (550)	390 (610)		

Note 1) Values at an air pressure of 0.5 MPa. The values were obtained at the opposite positions in the case of 2-position valves or in the valve neutral state in the case of 3-position valves.

Note 2) The parenthesized weight includes the weight of the sub-plate.

Electrical Specifications

Item	Rating	12 V DC	24 V DC	100 V AC	200 V AC
Type		Flywheel diode against surge		Shading type	
Working voltage range	V	10.8 to 13.2 (12±10%)	21.6 to 26.4 (24±10%)	90 to 132 (100 ⁺³² ₋₁₀ %)	180 to 264 (200 ⁺³² ₋₁₀ %)
Current value (when rated voltage is applied)	Frequency Hz	—	—	50	60
	Starting mA(r.m.s)	—	—	55	49
	Exciting mA(r.m.s)	140 (1.7W)	75 (1.8W)	24	19
Allowable circuit leakage current value	mA	8	4	4	2
Insulation resistance	MΩ	100 or more			
Wiring method and lead wire length		Lead wire type: 300 mm, P/Q socket type: 300 mm (standard)			
Note) Lead wire color		Brown : + Black : —	Red : + Black : —	Yellow	White
Color of LED indicator		Red		Yellow	Green
Measures against surge (standard device)		Flywheel diode		Varistor	
Lead wire type		For 12 V DC and 24 V DC		For 100 V AC and 200 V AC	
					
Electric circuit		For 12 V DC and 24 V DC		For 100 V AC and 200 V AC	
	Q socket type P socket type DIN socket type				

Note) The 1 and 3m lead wires (code: 1L and 3L, optional) of the P socket and Q socket type valves are in red and black.

Manifold Specifications

Name		Mono-manifold	Easy-manifold
Type		Direct screw piping type	Direct screw piping type
Model number		MF552M	MF552E
Max. number of stations		10 stations	10 stations
Standard number of stations		2 · 4 · 6 · 8 · 10	2 · 4 · 6 · 8 · 10
Exhaust type		Common exhaust type	
Port size	P · R1 · R2	Rc3/8	
	A · B	Rc1/4	Rc1/4 (valve side)
Piping specification		Side piping	Front piping

Valve Weight

Model		5-port				
		2-position		3-position		
		Return	Detent	3-position closed center	3-position exhaust center	3-position pressure center
Model number	Direct type	SR552-RN2	SR552-DN2	SR552-CN2	SR552-EN2	SR552-PN2
	Easy-manifold					
	Sub-plate type	SR552-RMM	SR552-DMM	SR552-CMM	SR552-EMM	SR552-PMM
Note) Weight g	Direct type	230	330	380		
	Easy-manifold					
	Sub-plate type	240 (460)	330 (550)	390 (610)		
	Mono-manifold					

Note) The parenthesized weight includes the weight of the sub-plate.

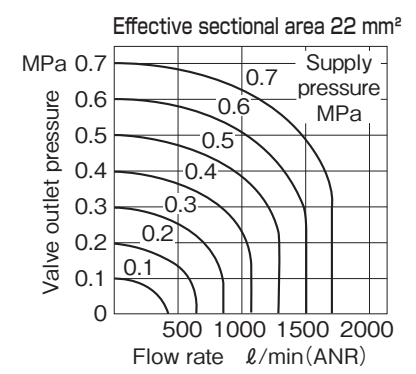
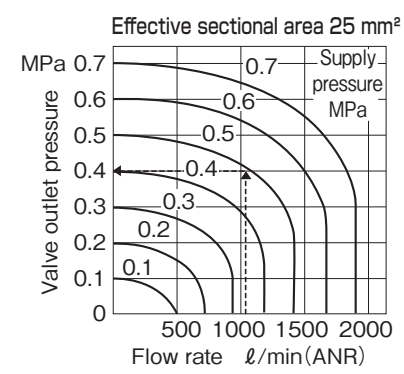
Manifold Weight

Unit: g

Name		No. of stations				
		2	4	6	8	10
Mono-manifold	MF552M-**A	1620	2680	3740	4800	5860
Easy-manifold	MF552E-**S	270	440	610	780	950

Note) Add the valve weight to the manifold weight.

Flow Characteristic Curves

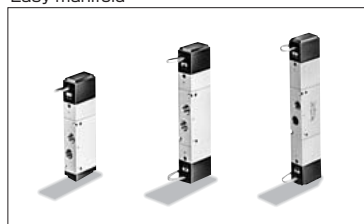


How to read the chart

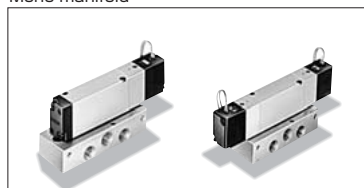
When the flow rate is 1050 ℓ/min (ANR) at a supply pressure of 0.5 MPa, the valve outlet pressure is 0.4 MPa.

How to order

- Model number of valve only
- Direct type (port size Rc¹/₄)
- Easy-manifold



Sub-plate type (port size Rc¹/₄)
Mono-manifold



(Note) The valve will be delivered without the sub-plate mounted.

SR552- R N2 1 RK- 1L- F

Series

Mounting plate
No symbol: None
F: With mounting plate
Note) Only return type

SR552- R MM 1 RK- 1L- SP

Series

Sub-plate
No symbol: None
SP: With sub-plate

Lead wire length
No symbol: Standard (300 mm)
1L: 1000 mm (order made)
3L: 3000 mm (order made)
Note) Only Q and P socket types.
All lead wires are in red and black.

Switching method

Symbol	Switching method
R	Return
D	Detent
C	Closed center
E	Exhaust center
P	Pressure center

Voltage (standard)

Symbol	Voltage
1	100 V AC $\pm 32\%$ (Lead wire color: yellow)
2	200 V AC $\pm 32\%$ (Lead wire color: white)
8	24 V DC $\pm 10\%$ (Lead wire color: (●) red, (○) black)
Voltage (option)	
6	12 V DC $\pm 10\%$ (Lead wire color: (●) brown, (○) black)
9	Other voltages

Wiring method (standard)

Symbol	Wiring method
RK	Lead wire type With protective circuit
QW	Q socket type With indicating lamp/protective circuit
DW	DIN socket type With indicating lamp/protective circuit
Wiring method (option)	
PW	P socket type With indicating lamp/protective circuit

How to order manifold base

- Model number of Mono-manifold

MF552M- 04 A

Series

No. of manifold stations

Side piping (direct screw piping type)

Symbol	No. of stations	Symbol	No. of stations	Symbol	No. of stations
02	2 stations	06	6 stations	10	10 stations
04	4 stations	08	8 stations		

How to order manifold valve

- Mono-manifold

SR552- R MM 1 QW- 1L

Series

For Mono-manifold

Note) For details, see "How to order valve only".

How to order seal plate

MF552-MS (For Mono-manifold)

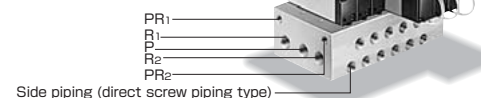
How to order gasket and bolt set

MF552-MGBS (For Mono-manifold)

MF552-EGBS (For Easy-manifold)

How to order manifold

- Mono-manifold
- SR552-CMM1QW
- SR552-RMM1QW



- A 6-station Mono-manifold type is shown as follows.
- Manifold body Qty.
MF552M-06A 1
- Valve block
SR552-RMM1QW 3
SR552-CMM1QW 3

- Model number of Easy-manifold

MF552E- 04 S

Series

No. of manifold stations

Symbol	No. of stations	Symbol	No. of stations	Symbol	No. of stations
02	2 stations	06	6 stations	10	10 stations
04	4 stations	08	8 stations		

- Easy-manifold

SR552- R N2 1 QW- 1L

Series

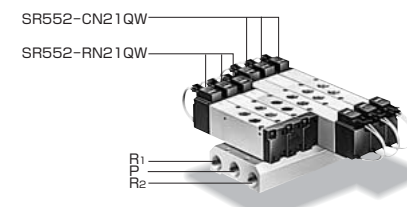
For Easy-manifold

Note) For details, see "How to order valve only".

MF552-ES (For Easy-manifold)

Note) Easy-manifold valves will not come with manifold mounting gaskets and bolts. When adding a valve to a manifold, place an order for a gasket and bolt set at the same time.

- Easy-manifold



- A 6-station Easy-manifold type is shown as follows.
- Manifold body Qty.
MF552E-06S 1
- Valve block
SR552-RN21QW 3
SR552-CN21QW 3

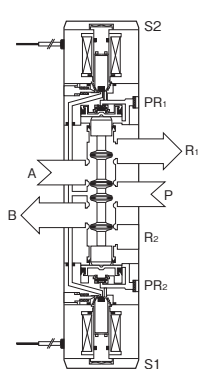
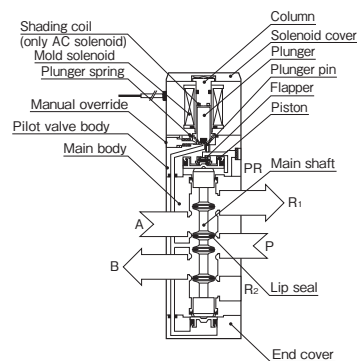
Related products/Silencers

More compact installation is enabled.

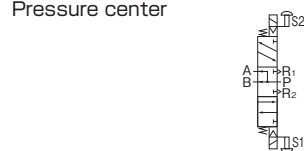
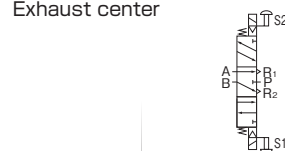


Port size	Model number
M5	SA2-M5
G1/8	SA2-O6
G1/4	SA2-O8
G3/8	SA2-10

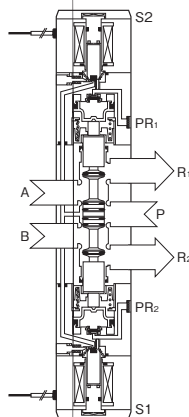
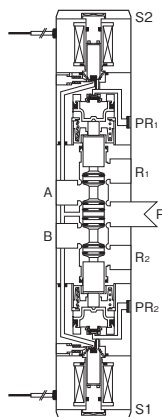
SR552 - DN2
(Solenoid S1 in released state
after it is energized)



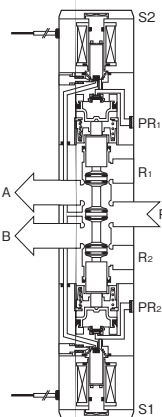
Name		Material
Valve	Main body	Aluminum alloy (aluminum)
	Main shaft	
	Lip seal	
	Seal	Synthetic rubber (NBR)
	Flapper	
	Plunger	Electromagnetic stainless steel
	Column	
	Sub-base	Aluminum alloy (aluminum)
Mounting base	Mild steel (galvanized)	
Manifold	Main body	Aluminum alloy (aluminum)
	Block plate	Mild steel (nickel-plated)
	Seal	Synthetic rubber (NBR)



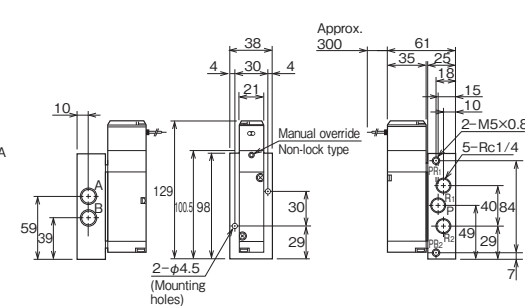
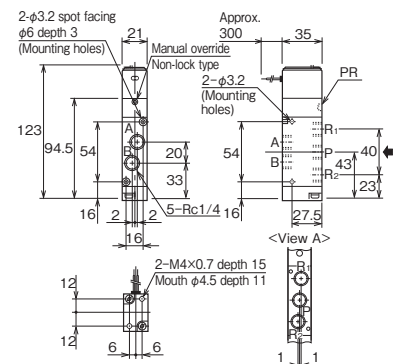
SR552-EN2
(Solenoids S1 and S2
in non-energized state)



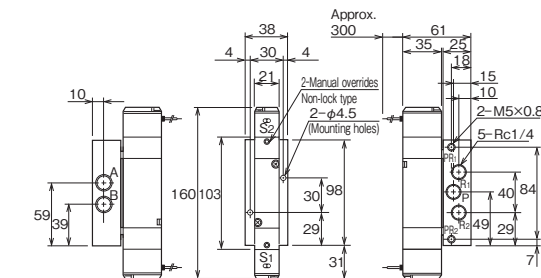
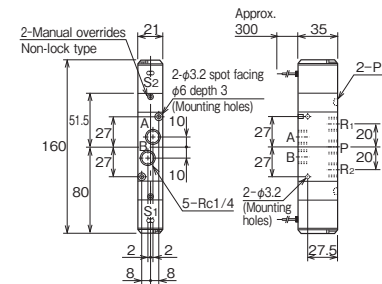
SR552 – PN2
(Solenoids S1 and S2
in non-energized state)



●SR552-RMM Voltage RK-SP (return)



●SR552-DMM Voltage RK-SP (detent)



- SR552 – CN2

Voltage

 RK (closed center)
- SR552 – EN2

Voltage

 RK (exhaust center)
- SR552 – PN2

Voltage

 RK (pressure center)

- SR552 – CMM

Voltage

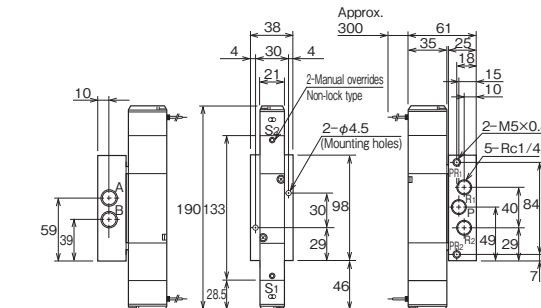
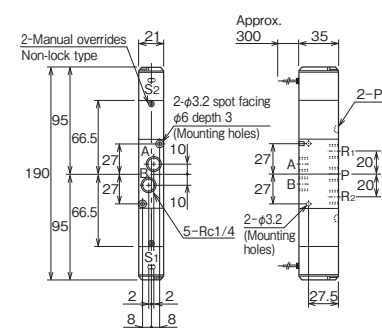
 RK – SP (closed center)
- SR552 – EMM

Voltage

 RK – SP (exhaust center)
- SR552 – PMM

Voltage

 RK – SP (pressure center)

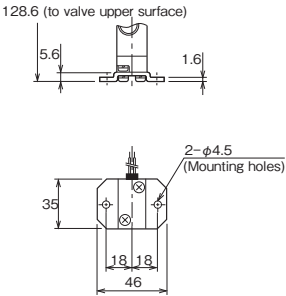


Note) The valve will be delivered without the sub-plate mounted.

Option

■ Mounting plate (only return type)

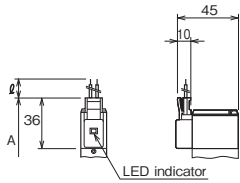
[SZZ] SR552-F



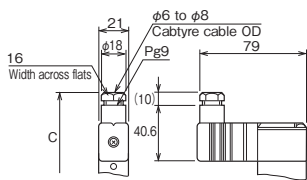
(Note) The valve will be delivered without the mounting plate mounted.

■ Wiring method

● Q socket type



● DIN socket type



Dimensional Table

Model number	Symbol	A	C	ℓ (lead wire length)	Remarks
SR552-RN2		130.5	(145.2)	Standard type: 300 mm Order made: 1L: 1000 mm 3L: 3000 mm	Overall length to valve or sub-base end face
SR552-RMM*-SP		136.5	(151.2)		
SR552-DN2, SR552-DMM*-SP		175	(204.4)	Overall length to solenoid end face on opposite side	
SR552-(C, E, P) N2, SR552-(C, E, P) MM*-SP		205	(234.4)		

CAD/DATA
SR552/TSR552A (B) is available.



Manifold

■ Mono-manifold

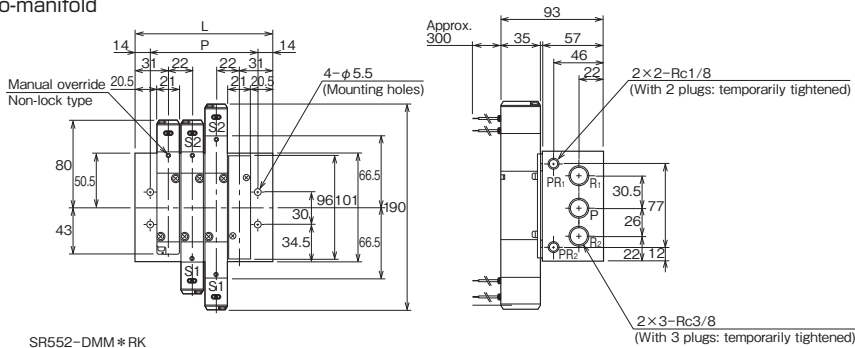


Table of Dimensions of Manifold

Symbol	No. of stations	2	4	6	8	10
P		56	100	144	188	232
L		84	128	172	216	260

■ Easy-manifold

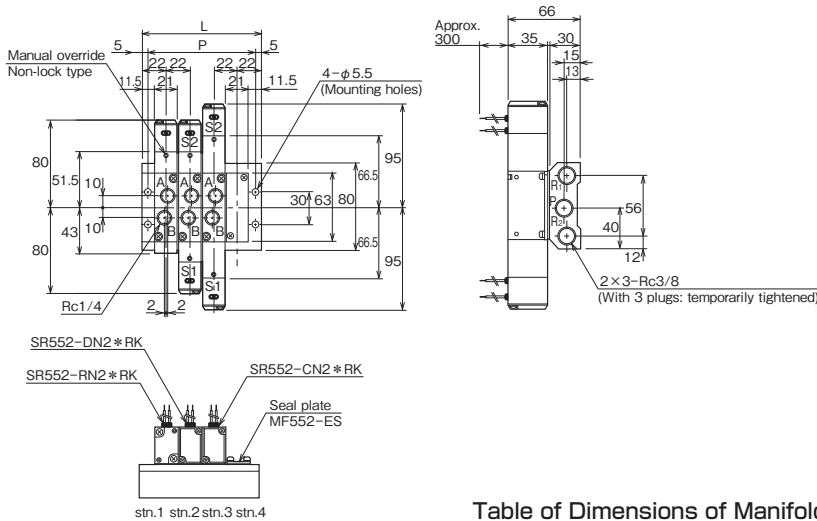


Table of Dimensions of Manifold

Symbol	No. of stations	2	4	6	8	10
P		56	100	144	188	232
L		66	110	154	198	242