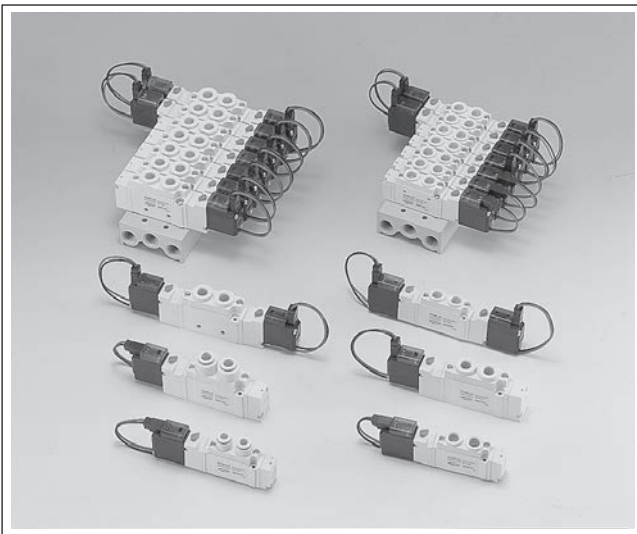


Directional control - SM series Solenoid valve

Solenoid valve - SM5000 , SM7000 , SM9000

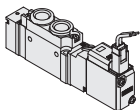
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Provide CAD external dimension.

Small size, big flow rate!
high speed , react quickly ; (Under 10 ms)
with indicator light and voltage protection circuit ;
air hole can be changed and be added connector.

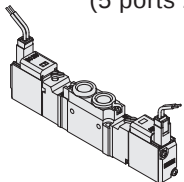
Solenoid valve single coil ----- **SM - 5000 series** --- Rc1/8" , Ø4 , Ø6 , Ø8 ----- **P.2-1.3**
(5 ports 2 positions)



SM - 7000 series --- Rc1/8" , 1/4" , Ø6 , Ø8 , Ø10 ----- **P.2-1.10**

SM - 9000 series --- Rc1/4" , 3/8" , Ø8 , Ø10 , Ø12 ----- **P.2-1.17**

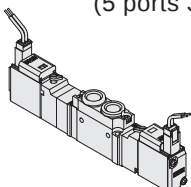
Solenoid valve double coils --- **SM - 5000 series** --- Rc1/8" , Ø4 , Ø6 , Ø8 ----- **P.2-1.3**
(5 ports 2 positions)



SM - 7000 series --- Rc1/8" , 1/4" , Ø6 , Ø8 , Ø10 ----- **P.2-1.10**

SM - 9000 series --- Rc1/4" , 3/8" , Ø8 , Ø10 , Ø12 ----- **P.2-1.17**

Solenoid valve double coils --- **SM - 5000 series** --- Rc1/8" , Ø4 , Ø6 , Ø8 ----- **P.2-1.5**
(5 ports 3 positions)



SM - 7000 series --- Rc1/8" , 1/4" , Ø6 , Ø8 , Ø10 ----- **P.2-1.12**

SM - 9000 series --- Rc1/4" , 3/8" , Ø8 , Ø10 , Ø12 ----- **P.2-1.18**

SM
Solenoid
Valve

SMB
Solenoid
Valve

SMU
Solenoid
Valve

SMUB
Solenoid
Valve

SR
Solenoid
Valve

SRB
Solenoid
Valve

SRU
Solenoid
Valve

SRUB
Solenoid
Valve

SRK
Solenoid
Valve

SK
Solenoid
Valve

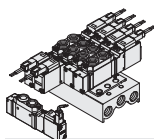
SNK
Solenoid
Valve

SKU
Solenoid
Valve

SV
Solenoid
Valve

SN
Solenoid
Valve

SV310
Solenoid
Valve



Safety notice / Caution for application

SM series - Solenoid valve

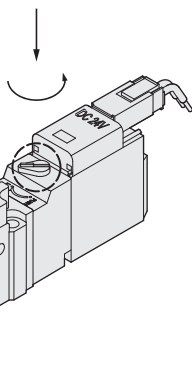
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Please read the safety notice carefully before using and pay attention to the safety caution for this series of products.

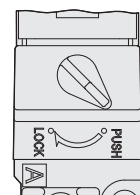
Operation and Instruction for manual for manual button

- Press down manual button to rotate the switching position so that solenoid valve on the lock status.



- The purpose of pressing the manual button is to provide manual test or test run adjustment. It is not for normal use.

- Must be check the lock status if it has been lifted. Manually button must be at **Push** position that it can be normal used for electronic control.



AV220V Solenoid Coil



Warning : Electrification, High temperature and Instruction

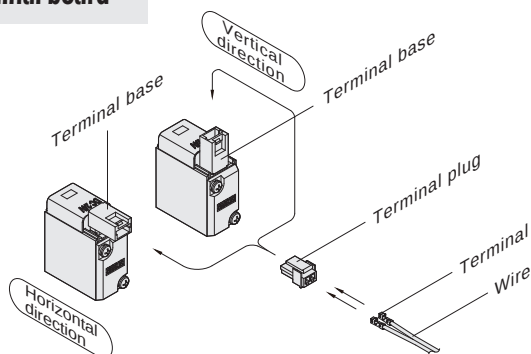
- SM solenoid coil with built-in rectifying circuit and electrified indicator light , with specification of AC220V , the built-in circuit is heated when electrified with high surface temperature (It is within safety range , Don't worry) , Please avoid touching it.

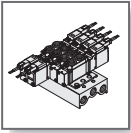
Sage surge voltage protection circuit

DC 12V	Below ± 0.1 mA
DC 24V	Below ± 0.1 mA
AC 110V	Below ± 0.1 mA
AC 220V	Below ± 0.1 mA

Method and description of the selection of terminal board

- (1) Direction (Horizontal& Vertical)
- (2) Terminal and Wire (Pressed)



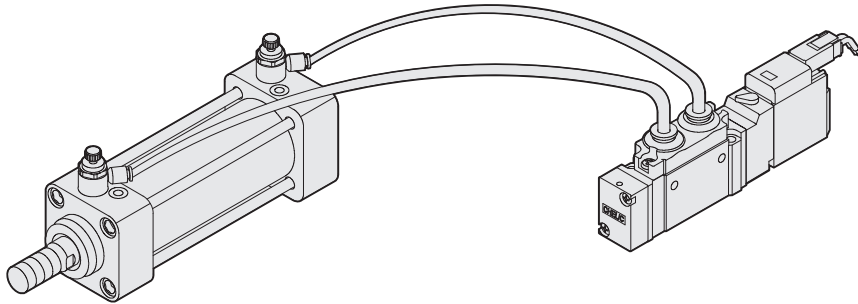


SM series - Solenoid valve

Flow rate and Applicable cylinder

CHELIC PNEUMATIC

Applicable cylinder (Reference)



● Max. driving speed of the cylinder (Length of piping : 1mm , diameter Ø8)

Model	CV Value	Cylinder speed mm/s	SDA,DB,FDA series							DMB,DN,DU series				
			Ø12	Ø16	Ø20	Ø25	Ø32	Ø40		Ø40	Ø50	Ø63	Ø80	Ø100
SM5000	0.5	150										●		
		300									●			
		450					●	●		●				
		600				●								
		750			●									
		900	●	●										
SM7000	0.9	150												●
		300											●	
		450						●				●		
		600					●			●				
		750				●				●				
		900			●									
SM9000	1.7	150												●
		300										●	●	
		450						●		●	●			
		600			●	●	●							
		750												
		900												

SM
Solenoid
Valve

SMB
Solenoid
Valve

SMU
Solenoid
Valve

SMUB
Solenoid
Valve

SR
Solenoid
Valve

SRB
Solenoid
Valve

SRU
Solenoid
Valve

SRUB
Solenoid
Valve

SRK
Solenoid
Valve

SK
Solenoid
Valve

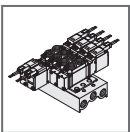
SNK
Solenoid
Valve

SKU
Solenoid
Valve

SV
Solenoid
Valve

SN
Solenoid
Valve

SV310
Solenoid
Valve

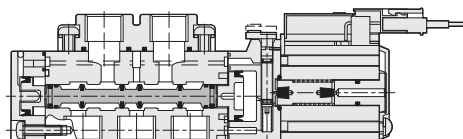
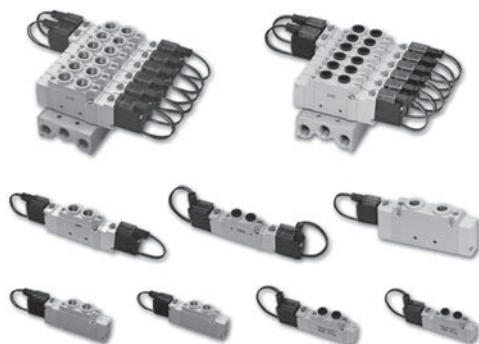


SM 5000 、 7000 、 9000 series - Solenoid valve

Operating specification and Order expression

CHELIC PNEUMATIC

Internal structure



SM
Solenoid Valve

SMB
Solenoid Valve

SMU
Solenoid Valve

SMUB
Solenoid Valve

SR
Solenoid Valve

SRB
Solenoid Valve

SRU
Solenoid Valve

SRUB
Solenoid Valve

SRK
Solenoid Valve

SK
Solenoid Valve

SNK
Solenoid Valve

SKU
Solenoid Valve

SV
Solenoid Valve

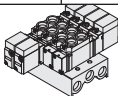
SN
Solenoid Valve

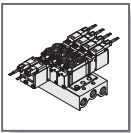
SV310
Solenoid Valve

Specification

Item	Model	SM5000		SM7000		SM9000	
Fluid		Air					
Pressure range	kgf/cm ² (Kpa)	1.5 ~ 7 (150 ~ 700)					
Operating ambient temperature range	°C	0 ~ 50					
Operating method		Pilot operated					
Number of position ports		5 ports 2 positions	5 ports 3 positions	5 ports 2 positions	5 ports 3 positions	5 ports 2 positions	5 ports 3 positions
Valve functions		Normal closed					
Orifice	mm ² (CV)	9 (0.5)		16.2 (0.9)		30.6 (1.7)	
Manual button		Push and lock					
Connection port		Rc 1/8 , Ø4 , Ø6 , Ø8		Rc1/8 , Rc 1/4 , Rc 3/8 , Ø6 , Ø8 , Ø10 , Ø12			
Lubrication		Lubrication free type					

How to order

SM	5	10	1		L	110	M	2																																																	
Model	Model number	Coil number	Port size	With connector type	Wire type	Voltage	No. of manifolds																																																		
SM : Solenoid valve	5: 5000 series 7: 7000 series 9: 9000 series	10: Single 20: Double 30: Normal close 40: Exhaust 50: Normal open 5 ports 3 positions are double coils	Thread type (standard) <table><tr><th>Code</th><th>Thread</th><th>Model</th></tr><tr><td>1</td><td>Rc 1/8"</td><td>SM5000</td></tr><tr><td>1</td><td>Rc 1/8"</td><td>SM7000</td></tr><tr><td>2</td><td>Rc 1/4"</td><td></td></tr><tr><td>2</td><td>Rc 1/4"</td><td>SM9000</td></tr><tr><td>3</td><td>Rc 3/8"</td><td></td></tr></table> A,B hole connector type <table><tr><td>0</td><td>with connector type</td></tr></table>	Code	Thread	Model	1	Rc 1/8"	SM5000	1	Rc 1/8"	SM7000	2	Rc 1/4"		2	Rc 1/4"	SM9000	3	Rc 3/8"		0	with connector type	<table><tr><th>Code</th><th>Bore size</th><th>Model</th></tr><tr><td>C4</td><td>Ø4</td><td></td></tr><tr><td>C6</td><td>Ø6</td><td>SM5000</td></tr><tr><td>C8</td><td>Ø8</td><td></td></tr><tr><td>C6</td><td>Ø6</td><td></td></tr><tr><td>C8</td><td>Ø8</td><td>SM7000</td></tr><tr><td>C10</td><td>Ø10</td><td></td></tr><tr><td>C8</td><td>Ø8</td><td></td></tr><tr><td>C10</td><td>Ø10</td><td>SM9000</td></tr><tr><td>C12</td><td>Ø12</td><td></td></tr></table> None : Standard type (Thread type)	Code	Bore size	Model	C4	Ø4		C6	Ø6	SM5000	C8	Ø8		C6	Ø6		C8	Ø8	SM7000	C10	Ø10		C8	Ø8		C10	Ø10	SM9000	C12	Ø12		 (With wire length 450mm)  (With wire length 450mm)	Standard : 12V DC 0.7W 24V DC 1.5W 110V AC 3W 220V AC 3W	 None : Without manifold M2 = 2 sets M3 = 3 sets ... M20 = 20 sets
Code	Thread	Model																																																							
1	Rc 1/8"	SM5000																																																							
1	Rc 1/8"	SM7000																																																							
2	Rc 1/4"																																																								
2	Rc 1/4"	SM9000																																																							
3	Rc 3/8"																																																								
0	with connector type																																																								
Code	Bore size	Model																																																							
C4	Ø4																																																								
C6	Ø6	SM5000																																																							
C8	Ø8																																																								
C6	Ø6																																																								
C8	Ø8	SM7000																																																							
C10	Ø10																																																								
C8	Ø8																																																								
C10	Ø10	SM9000																																																							
C12	Ø12																																																								

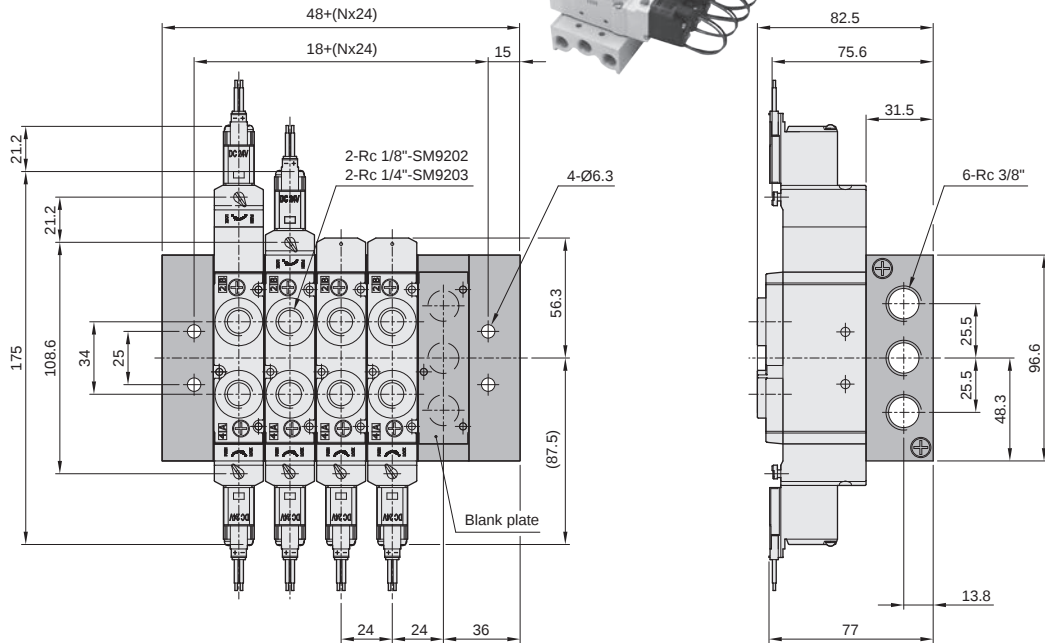


SM series Solenoid valve - SM 9000

External dimension / Manifold type

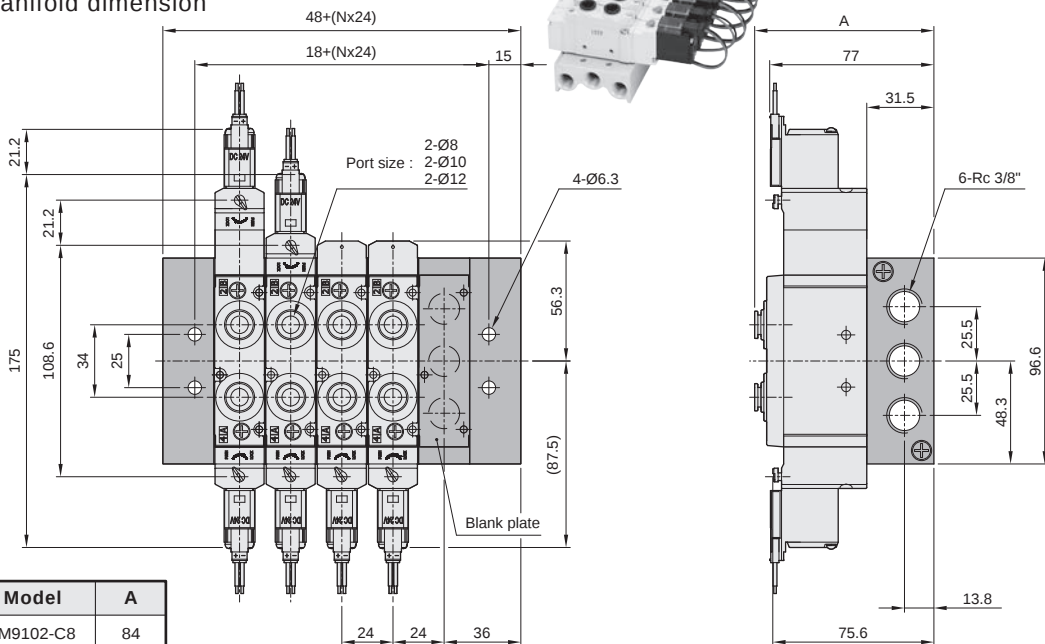
CHELIC PNEUMATIC

SM 9000 series (Standard) Manifold dimension



Note : Blank plate with rubber lining is reserved for temporary storage space of solenoid valves.

SM 9000 series (With connector type) Manifold dimension



Model	A
SM9102-C8	84
SM9102-C10	89.1
SM9102-C12	92.1

Note : Blank plate with rubber lining is reserved for temporary storage space of solenoid valves.

SM
Solenoid
Valve

SMB
Solenoid
Valve

SMU
Solenoid
Valve

SMUB
Solenoid
Valve

SR
Solenoid
Valve

SRB
Solenoid
Valve

SRU
Solenoid
Valve

SRUB
Solenoid
Valve

SRK
Solenoid
Valve

SK
Solenoid
Valve

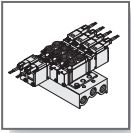
SNK
Solenoid
Valve

SKU
Solenoid
Valve

SV
Solenoid
Valve

SN
Solenoid
Valve

SV310
Solenoid
Valve



SM series Solenoid valve - SM 9000

Accessories and Installation

CHELIC PNEUMATIC

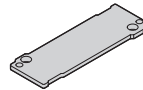
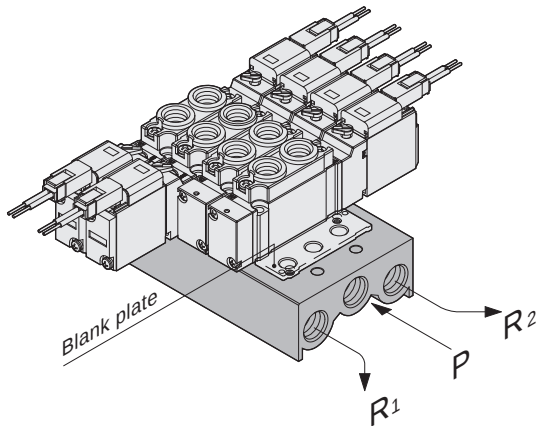
Manifold

SM-5000,7000,9000 series

Manifold

SM-5000,7000,9000 series

※ The accessories of blank plate.



Blank plate

Rubber lining

Mounting screw

SM-5000 series

MSM05041

MSM05039

M3X8L MSM05040

SM-7000 series

MSM07041

MSM07039

M4X8L MSM07040

SM-9000 series

MSM09041

MSM09039

M3X8L MSM09040

With indicator light all this series with indicator light and voltage protection circuit.

