

10 YEARS EXPERIENCE

FOCUS MAKES PROFESSION

Wenzhou Qiaosen Pneumatic Co., Ltd

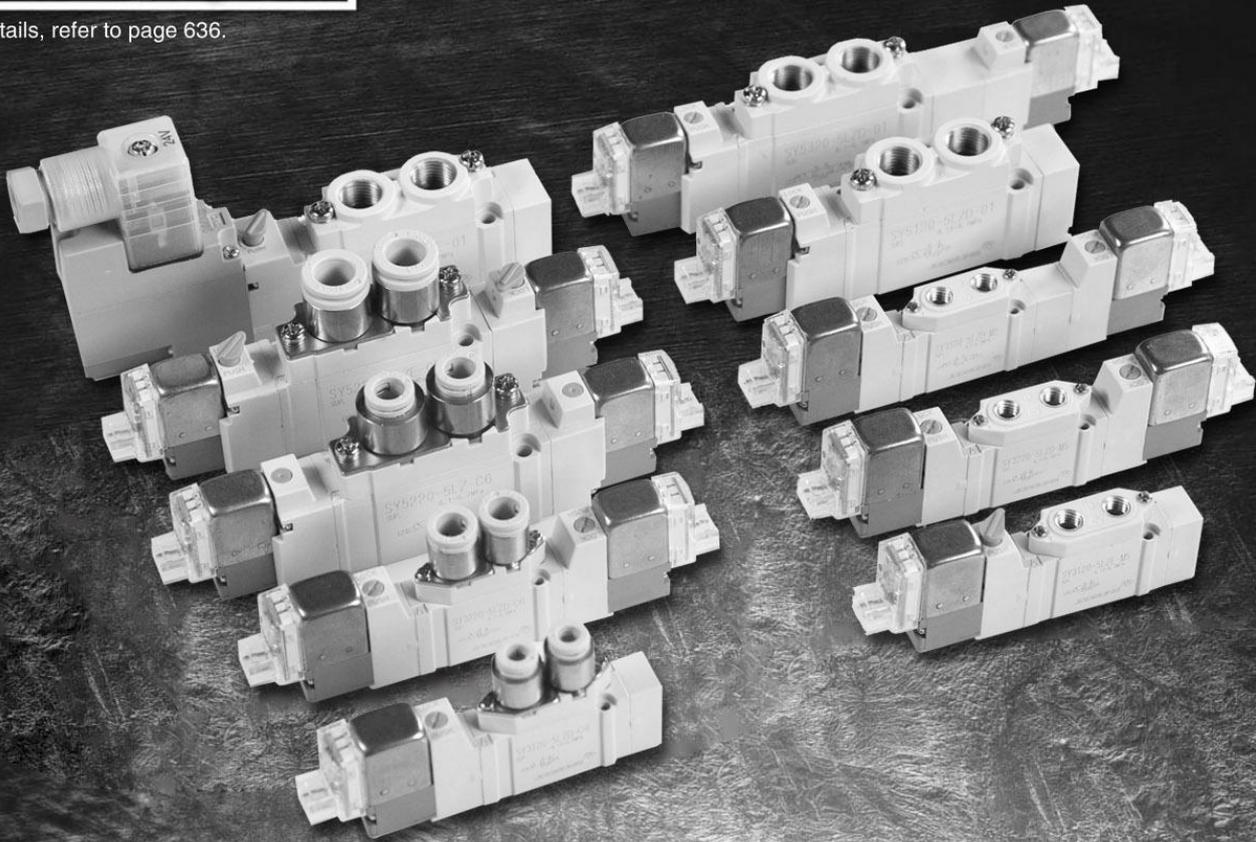
pneumatic Solenoid valve

# 5 Port Solenoid Valve

## SY3000/5000/7000/9000 Series

**Power Consumption**  
**0.1W\***  
 With Power Saving Circuit

\* For details, refer to page 636.



• **Flow Rate Characteristics**

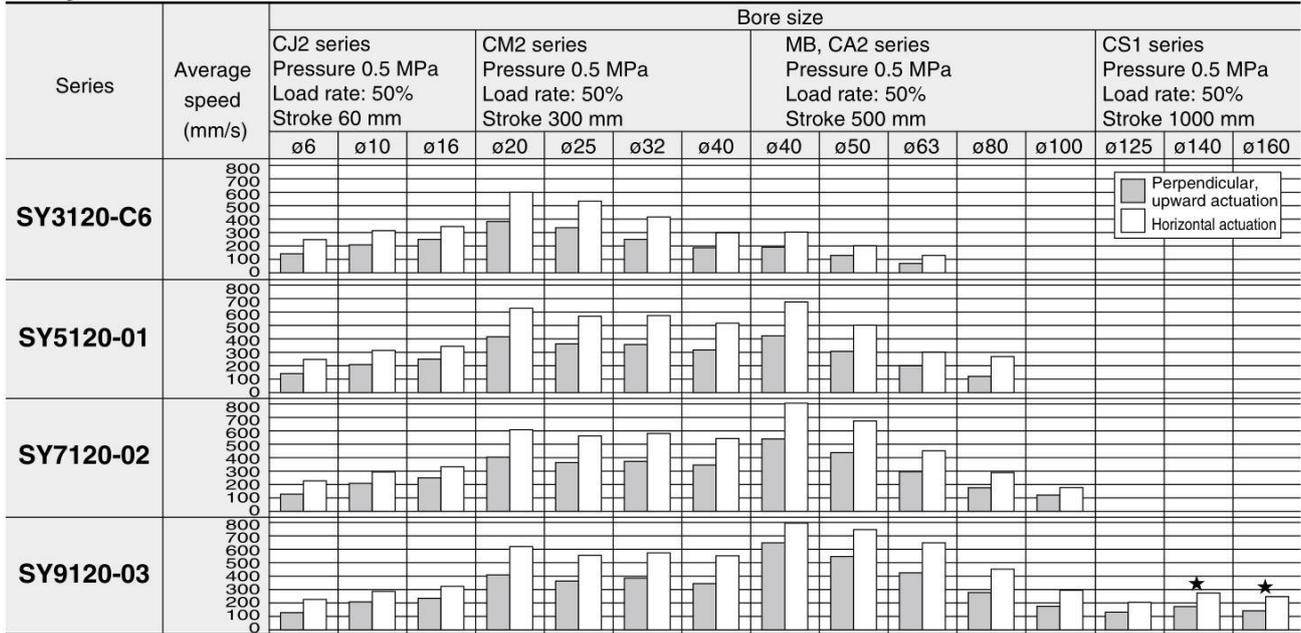
Series	Flow rate characteristics		
	C [dm <sup>3</sup> /(s·bar)]	b	Cv
SY3000	1.1	0.28	0.29
SY5000	2.8	0.37	0.90
SY7000	4.5	0.28	1.4
SY9000	10	0.29	2.5

• **Long service life**

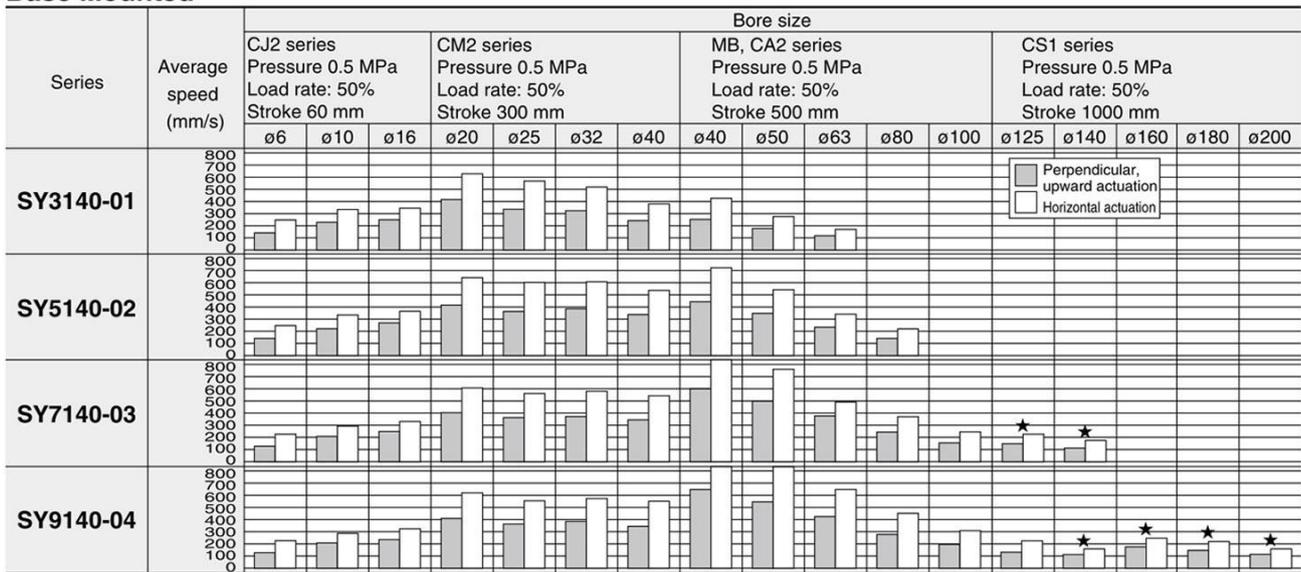
\* Please contact Qiaosen if life test data is required.

# Cylinder Speed Chart

## Body Ported



## Base Mounted



\* Cylinder is in extending. Speed controller is meter-out, which is directly connected with cylinder and its needle is fully opened.  
 \* Average speed of cylinder is obtained by dividing the full stroke time by the stroke.  
 \* Load factor: (Load mass x 9.8) / Theoretical force x 100%  
 \* The histograms with ★ marked are the case when piping is done by using steel.

## Conditions

Body ported		CJ2 series	CM2 series	MB, CA2 series	CS1 series
SY3120-C6	Tubing bore x Length	T0604 x 1 m			-
	Speed controller	AS2052F-06			-
	Silencer	AN120-M5			-
SY5120-01	Tubing bore x Length	T0604 x 1 m	T0806 x 1 m	-	
	Speed controller	AS3002F-06	AS3002F-08	-	
	Silencer	AN101-01			-
SY7120-02	Tubing bore x Length	T0604 x 1 m	T1075 x 1 m	-	
	Speed controller	AS3002F-06	AS4002F-10	-	
	Silencer	AN110-01			-
SY9120-03	Tubing bore x Length	T0604 x 1 m	T1075 x 1 m	T1209 x 1 m	-
	Speed controller	AS3002F-06	AS4002F-10	AS4002F-12	-
	Silencer	AN20-02			-

## Conditions [When using SGP (steel pipe)]

Body ported		CS1 series
SY9120-03	Tubing bore x Length	SGP10A x 1 m
	Speed controller	AS420-03
	Silencer	AN20-02

## Conditions

Base mounted		CJ2 series	CM2 series	MB, CA2 series	CS1 series
SY3140-01	Tubing bore x Length	T0604 x 1 m			-
	Speed controller	AS3002F-06			-
	Silencer	AN110-01			-
SY5140-02	Tubing bore x Length	T0604 x 1 m	T0806 x 1 m	-	
	Speed controller	AS3002F-06	AS3002F-08	-	
	Silencer	AN101-01			-
SY7140-03	Tubing bore x Length	T0604 x 1 m	T1075 x 1 m	T1209 x 1 m	-
	Speed controller	AS3002F-06	AS4002F-10	-	-
	Silencer	AN20-02			-
SY9140-04	Tubing bore x Length	T0604 x 1 m	T1075 x 1 m	T1209 x 1 m	-
	Speed controller	AS3002F-06	AS4002F-10	AS4002F-12	-
	Silencer	AN20-02			-

## Conditions [When using SGP (steel pipe)]

Base mounted		CS1 series
SY7140-03	Tubing bore x Length	SGP10A x 1 m
	Speed controller	AS420-03
	Silencer	AN30-03
SY9140-04	Tubing bore x Length	SGP15A x 1 m
	Speed controller	AS420-04
	Silencer	AN40-04

# 5 Port Solenoid Valve Body Ported/Single Unit SY3000/5000/7000/9000 Series

## How to Order

**SY 5 1 20 - 5 L - 01 -**

**Series**

3	SY3000
5	SY5000
7	SY7000
9	SY9000

**Type of actuation**

1	2 position single (A) 4 2 (B)  (EA) 5 1 3 (EB) (P)
2	2 position double (A) 4 2 (B)  (EA) 5 1 3 (EB) (P)
3	3 position closed center (A) 4 2 (B)  (EA) 5 1 3 (EB) (P)
4	3 position exhaust center (A) 4 2 (B)  (EA) 5 1 3 (EB) (P)
5	3 position pressure center (A) 4 2 (B)  (EA) 5 1 3 (EB) (P)

**For DC**

5	24 VDC
6	12 VDC

**For AC (50/60 Hz)**

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

**Rated voltage**

**Bracket**

**Nil:** Without bracket  
**F1:** With foot bracket (2 position single only)  
**F2:** With side bracket  
\* SY9000 has no bracket.

**A, B port size Thread piping**

Symbol	Port size	Applicable series
M5	M5 x 0.8	SY3000
01	1/8	SY5000
02	1/4	SY7000
02	1/4	SY9000
03	3/8	

**One-touch fitting (Metric size)**

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SY3000
C6	One-touch fitting for ø6	
C4	One-touch fitting for ø4	SY5000
C8	One-touch fitting for ø8	
C8	One-touch fitting for ø8	SY7000
C10	One-touch fitting for ø10	
C8	One-touch fitting for ø8	SY9000
C10	One-touch fitting for ø10	
C12	One-touch fitting for ø12	

**Thread type**

Nil	Rc
F	G
N	NPT
T	NPTF

\* Except for M5

**Manual override**

<b>Nil:</b> Non-locking push type 	<b>D:</b> Push-turn locking slotted type 	<b>E:</b> Push-turn locking lever type 
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**Electrical entry**

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC				24, 12 VDC/100, 110, 200, 220 VAC
Grommet	L plug connector	M plug connector	MN: Without lead wire	D, Y: With connector
<b>G:</b> Lead wire length 300 mm 	<b>L:</b> With lead wire (Length 300 mm) 	<b>M:</b> With lead wire (Length 300 mm) 	<b>MN:</b> Without lead wire 	<b>D, Y:</b> With connector 
<b>H:</b> Lead wire length 600 mm 	<b>LN:</b> Without lead wire 	<b>LO:</b> Without connector 	<b>MO:</b> Without connector 	<b>DO, YO:</b> Without connector 

**Light/Surge voltage suppressor**

Electrical entry for G, H, L, M, W		Electrical entry for D, Y	
<b>Nil</b>	Without light/surge voltage suppressor	<b>Nil</b>	Without light/surge voltage suppressor
<b>S</b>	With surge voltage suppressor	<b>S</b>	With surge voltage suppressor (Non-polar type)
<b>Z</b>	With light/surge voltage suppressor	<b>Z</b>	With light/surge voltage suppressor (Non-polar type)
<b>R</b>	With surge voltage suppressor (Non-polar type)		
<b>U</b>	With light/surge voltage suppressor (Non-polar type)		

\* For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.  
\* For "R" and "U", DC voltage is only available.  
\* Power saving circuit is only available in the "Z" type.  
\* DOZ and YOZ are not available.  
\* For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.

Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary.

### Specifications



Rubber seal ring ,Mitsubishi, Japan

Enameled wire ,ELEKTRISOLA ,German

Series		SY3000	SY5000	SY7000	SY9000
Fluid		Air			
Internal pilot	2 position single	0.15 to 0.7			
Operating pressure range (MPa)	2 position double	0.1 to 0.7			
	3 position	0.2 to 0.7			
Ambient and fluid temperature (°C)		-10 to 50 (No freezing)			
Max. operating frequency (Hz)	2 position single, double	10	5	5	5
	3 position	3	3	3	3
Manual override (Manual operation)		Non-locking push type, Push-turn locking slotted type, Push-turn locking lever type			
Pilot exhaust method		Common exhaust type for main and pilot valve			
Lubrication		Not required			
Mounting orientation		Unrestricted			
Impact/Vibration resistance (m/s <sup>2</sup> ) <sup>Note)</sup>		150/30			
Enclosure		Dust proof (* DIN terminal and M8 connector: IP65)			

\* Based on IEC60529

Note) Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

### Solenoid Specifications

Electrical entry	Grommet (G), (H) L plug connector (L) M plug connector (M)		DIN terminal (D), (Y) M8 connector (W)	
		G, H, L, M, W	D, Y	
Coil rated voltage (V)	DC	24, 12, 6, 5, 3	24, 12	
	AC 50/60 Hz	100, 110, 200, 220		
Allowable voltage fluctuation	±10% of rated voltage *			
Power consumption (W)	DC	Standard	0.35 (With indicator light: 0.4 DIN terminal with indicator light: 0.45)	
		With power saving circuit	0.1 (With indicator light only) * [Starting 0.4, Holding 0.1]	
Apparent power (VA) *	AC	100 V	0.78 (With indicator light: 0.81)	0.78 (With indicator light: 0.87)
		110 V	0.86 (With indicator light: 0.89)	0.86 (With indicator light: 0.97)
		[115 V]	[0.94 (With indicator light: 0.97)]	[0.94 (With indicator light: 1.07)]
		200 V	1.18 (With indicator light: 1.22)	1.15 (With indicator light: 1.30)
		220 V [230 V]	1.30 (With indicator light: 1.34) [1.42 (With indicator light: 1.46)]	1.27 (With indicator light: 1.46) [1.39 (With indicator light: 1.60)]
Surge voltage suppressor	Diode (Varistor is for DIN terminal and Non-polar type.)			
Indicator light	LED (AC of DIN connector is neon light.)			

\* In common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.

\* For 115 VAC and 230 VAC, the allowable voltage is -15% to +5% of rated voltage.

\* DIN terminal and M8 connector with power saving circuit are not available.

### Response Time

Note) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage)

#### SY3000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)			
	Without light/surge voltage suppressor	With light/surge voltage suppressor		Type R, U
		Type S, Z	Type R, U	
2 position single	12 or less	15 or less	12 or less	
2 position double	10 or less	13 or less	10 or less	
3 position	15 or less	20 or less	16 or less	

#### SY7000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)			
	Without light/surge voltage suppressor	With light/surge voltage suppressor		Type R, U
		Type S, Z	Type R, U	
2 position single	31 or less	38 or less	33 or less	
2 position double	27 or less	30 or less	28 or less	
3 position	50 or less	56 or less	50 or less	

#### SY5000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)			
	Without light/surge voltage suppressor	With light/surge voltage suppressor		Type R, U
		Type S, Z	Type R, U	
2 position single	19 or less	26 or less	19 or less	
2 position double	18 or less	22 or less	18 or less	
3 position	32 or less	38 or less	32 or less	

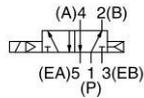
#### SY9000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)			
	Without light/surge voltage suppressor	With light/surge voltage suppressor		Type R, U
		Type S, Z	Type R, U	
2 position single	35 or less	41 or less	35 or less	
2 position double	35 or less	41 or less	35 or less	
3 position	62 or less	64 or less	62 or less	

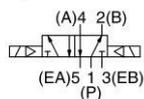
**Construction**

**SY series**

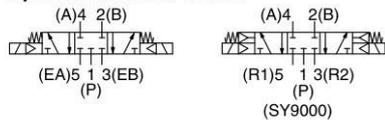
**Symbol**  
**2 position single**



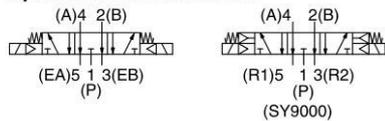
**Symbol**  
**2 position double**



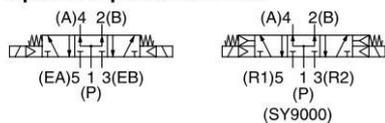
**Symbol**  
**3 position closed center**



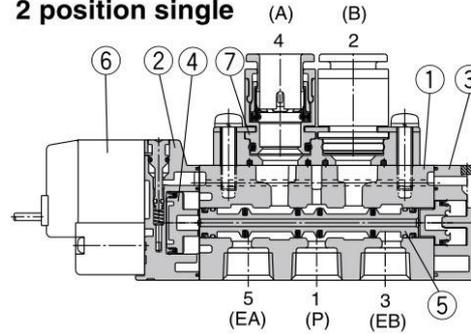
**3 position exhaust center**



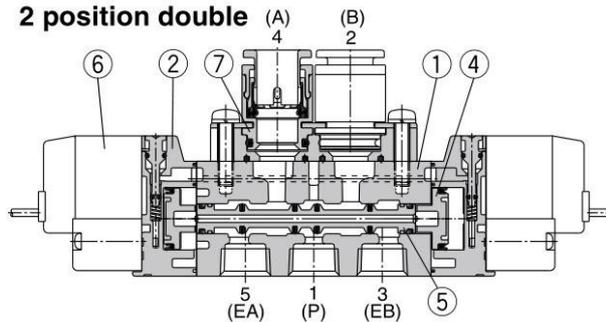
**3 position pressure center**



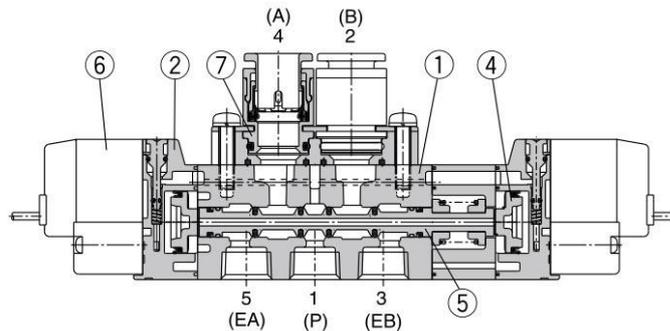
**2 position single**



**2 position double**



**3 position closed center / exhaust center / pressure center**



(This figure shows a closed center type.)

**Component Parts**

No.	Description	Material	Note
1	Body	Aluminum die-casted (SY3000: Zinc die-casted)	White
2	Adapter plate	Resin	White (SY9000: Gray)
3	End plate	Resin	White
4	Piston	Resin	-
5	Spool valve assembly	Aluminum, H-NBR	-

**Replacement Parts**

No.	Description	Part no.
6	Pilot valve assembly	Refer to "How to Order Pilot Valve Assembly" on page 629.
7	M5 port block assembly	Refer to "How to Order Port Block Assembly" on page 629.

**Bracket Assembly No.**

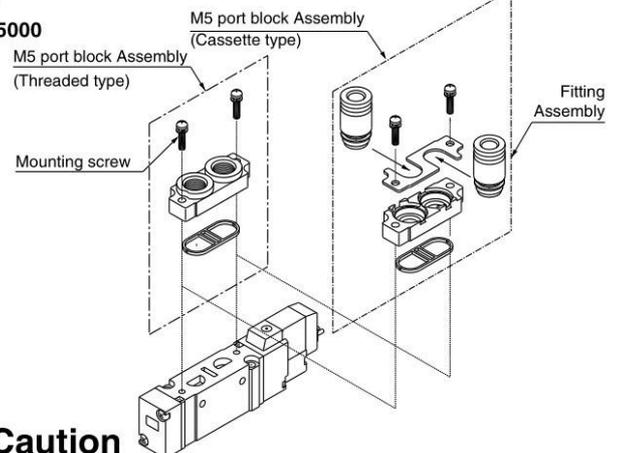
Description	Part no.
Bracket (For F1)	SX <sup>3</sup> 000-16-2A (with mounting screw)
Bracket (For F2)	SX <sup>3</sup> 000-16-1A (with mounting screw)

\* SY9000 has no bracket.

**How to Change Port Block Assembly**

If using body port type, both A and B port sizes can be changed by replacing the port block assembly mounted on the body. When changing this block assembly, the correct screw torque must be achieved to avoid possible air leakage.

**For SY5000**



**Caution**

**Mounting screw tightening torques**

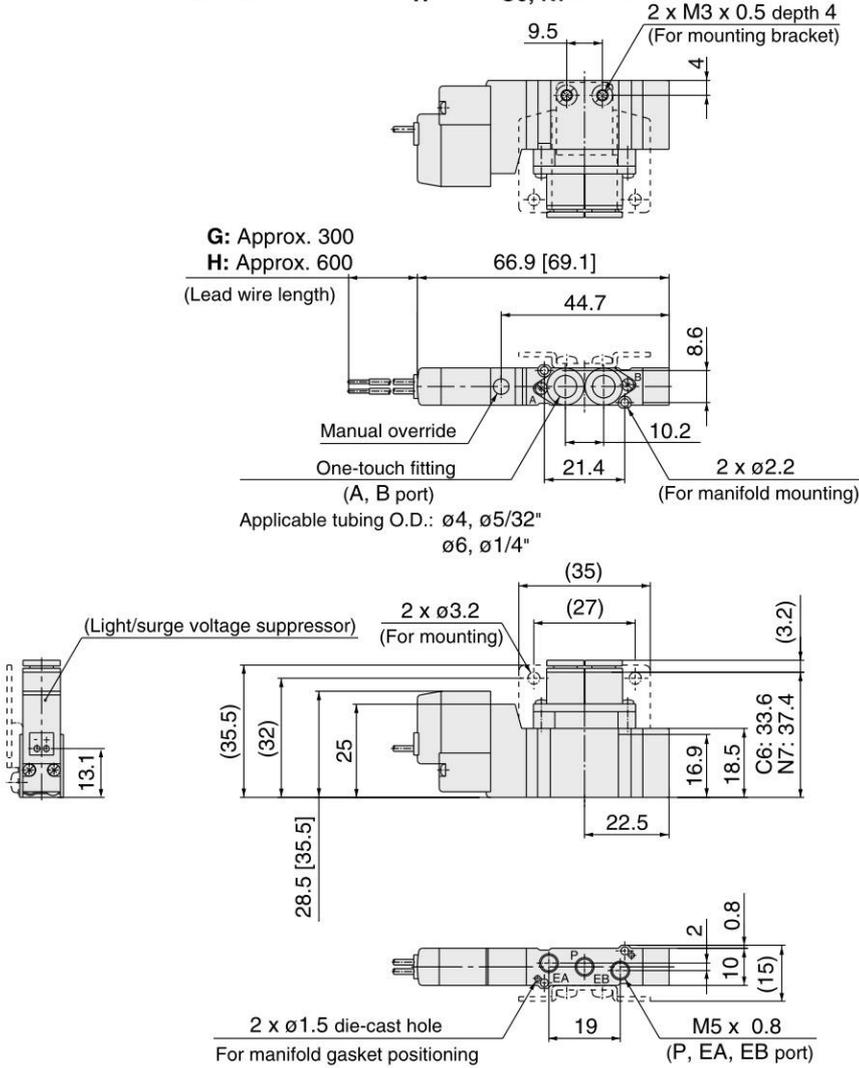
SY3000 (M2): 0.12 N·m  
 SY<sup>5</sup>000 (M3): 0.6 N·m  
 SY9000 (M4): 1.4 N·m

Dimensions: SY3000 Series

[ ]: AC

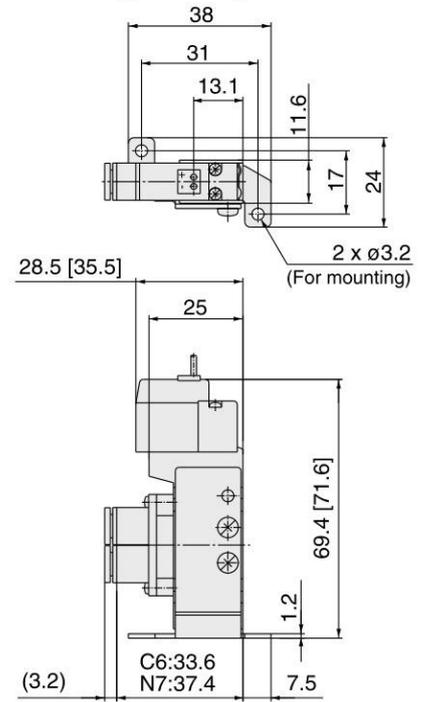
2 position single

Grommet (G), (H): SY3120-□<sub>G</sub>□□-C<sub>4</sub>, N<sub>3</sub>-C<sub>6</sub>, N<sub>7</sub>(-F<sub>2</sub>)

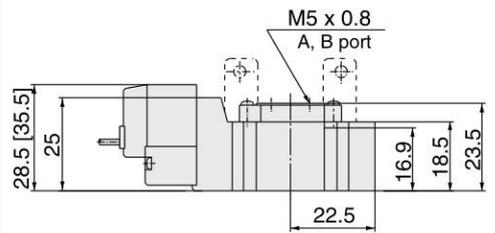


Foot bracket

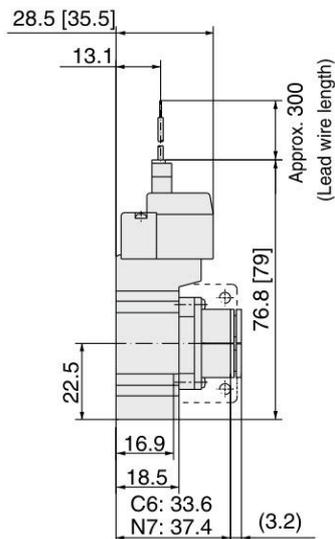
SY3120-□<sub>G</sub>□□-C<sub>4</sub>, N<sub>3</sub>-C<sub>6</sub>, N<sub>7</sub>-F<sub>1</sub>



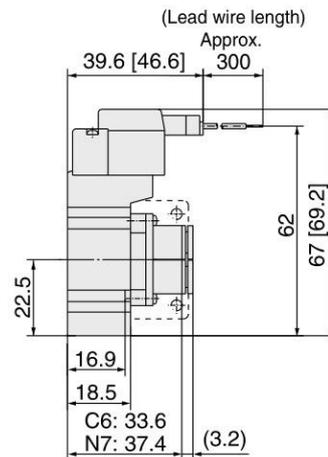
SY3120-□<sub>G</sub>□□-M5(-F<sub>2</sub>)



L plug connector (L):  
SY3120-□L□□-C<sub>4</sub>, N<sub>3</sub>-C<sub>6</sub>, N<sub>7</sub>(-F<sub>2</sub>)



M plug connector (M):  
SY3120-□M□□-C<sub>4</sub>, N<sub>3</sub>-C<sub>6</sub>, N<sub>7</sub>(-F<sub>2</sub>)

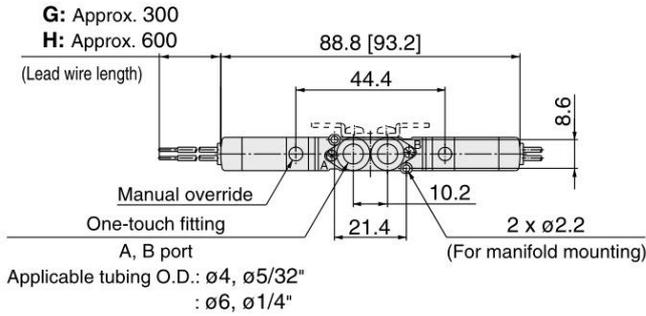
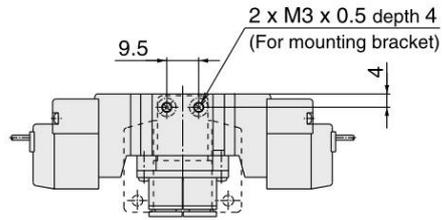


**Dimensions: SY3000 Series**

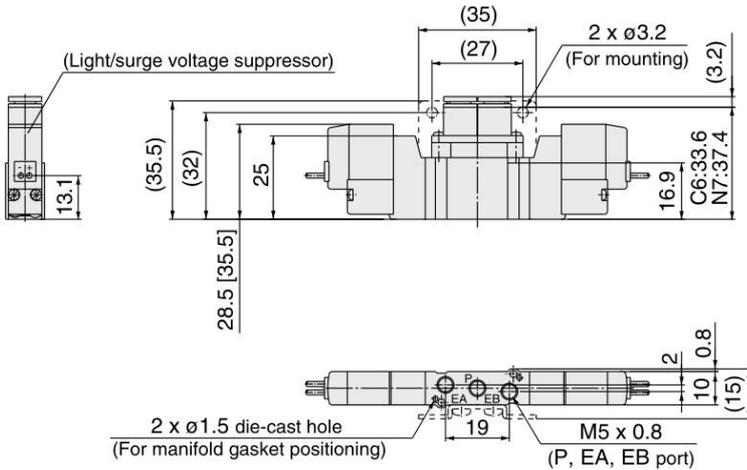
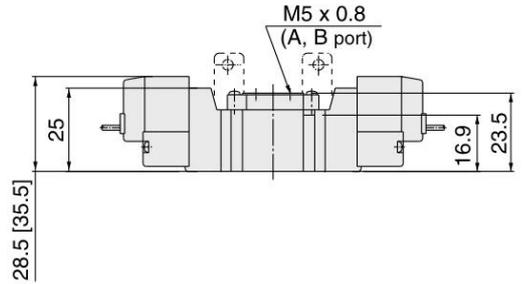
[ ]: AC

2 position double

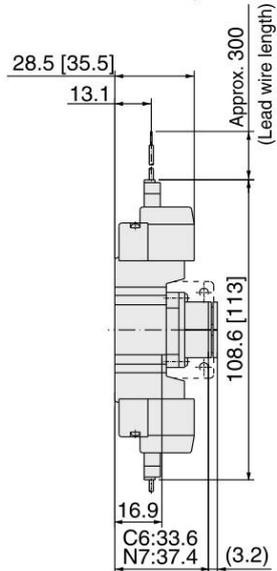
Grommet (G), (H): SY3220-□<sub>G</sub>□□-C4, N3  
C6, N7(-F2)



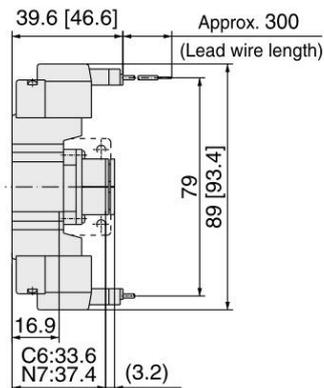
SY3220-□<sub>H</sub>□□-M5(-F2)



**L plug connector (L):**  
SY3220-□L□□-C4, N3  
C6, N7(-F2)



**M plug connector (M):**  
SY3220-□M□□-C4, N3  
C6, N7(-F2)



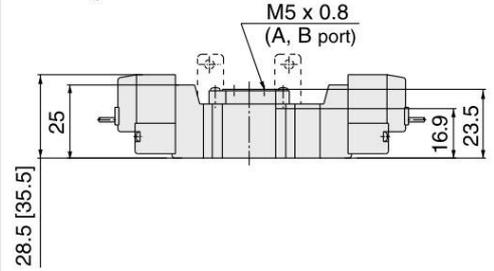
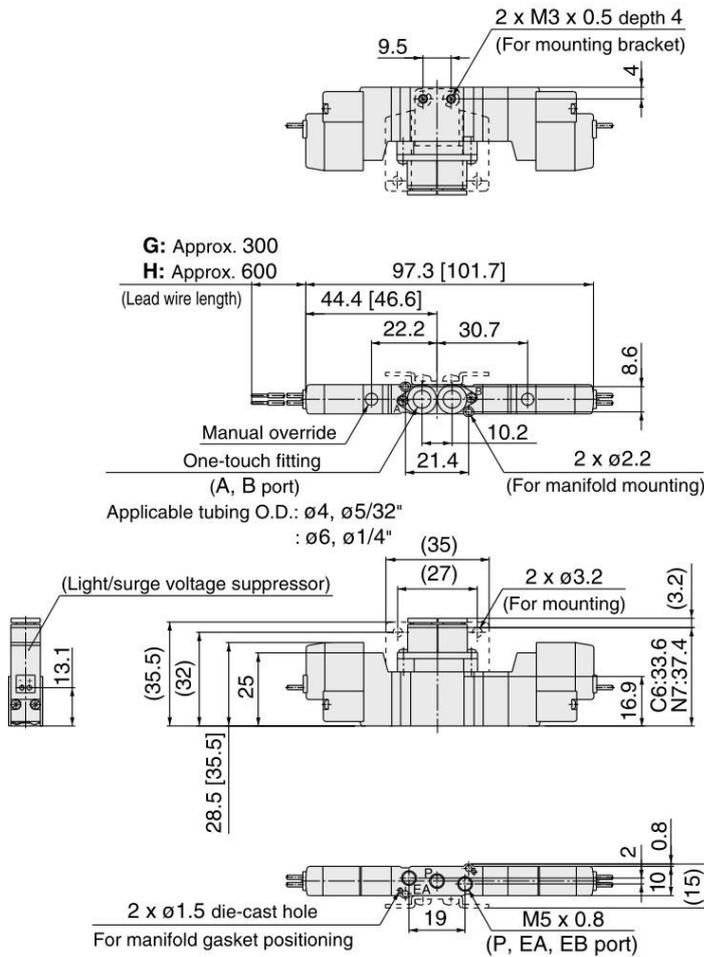
**Dimensions: SY3000 Series**

[ ]: AC

**3 position closed center / exhaust center / pressure center**

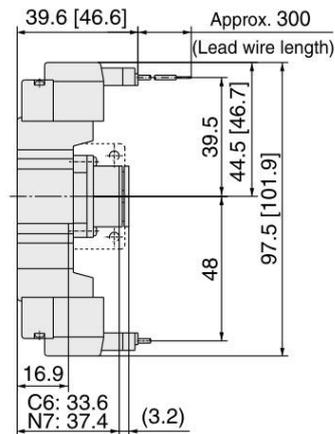
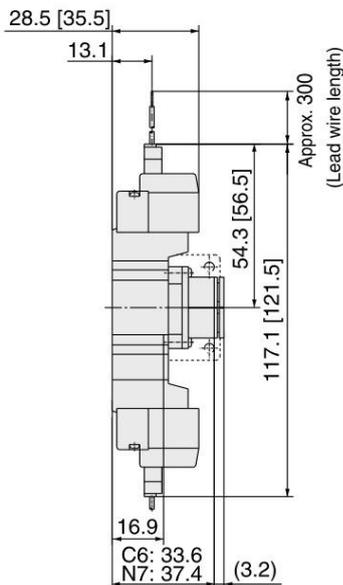
**Grommet (G), (H): SY3<sub>4</sub><sup>3</sup><sub>5</sub>20-□G□□-C<sub>4</sub>, N<sub>3</sub>  
C<sub>6</sub>, N<sub>7</sub> (-F2)**

**SY3<sub>4</sub><sup>3</sup><sub>5</sub>20-□H□□-M5(-F2)**



**L plug connector (L):**  
**SY3<sub>4</sub><sup>3</sup><sub>5</sub>20-□L□□-C<sub>4</sub>, N<sub>3</sub>  
C<sub>6</sub>, N<sub>7</sub> (-F2)**

**M plug connector (M):**  
**SY3<sub>4</sub><sup>3</sup><sub>5</sub>20-□M□□-C<sub>4</sub>, N<sub>3</sub>  
C<sub>6</sub>, N<sub>7</sub> (-F2)**

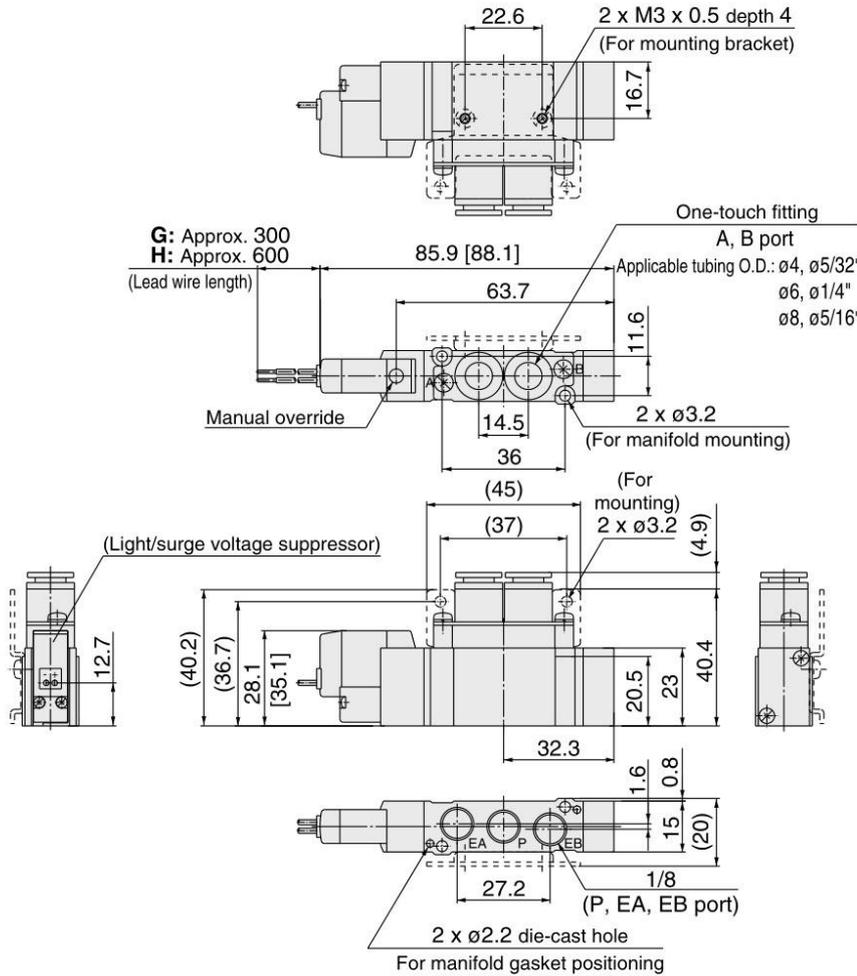


**Dimensions: SY5000 Series**

[ ]: AC

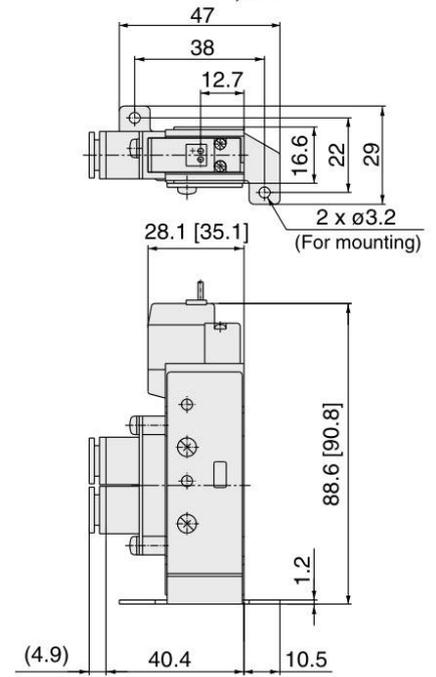
**2 position single**

Grommet (G), (H): SY5120-□<sup>G</sup>□□□-<sup>C4, N3</sup>  
<sup>C6, N7</sup>□□(-F<sub>2</sub>)  
<sup>C8, N9</sup>

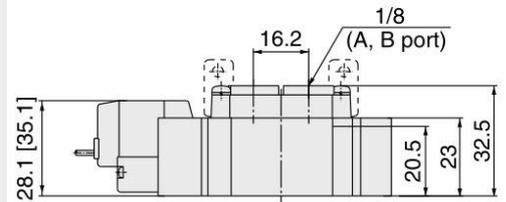


**Foot bracket**

SY5120-□<sup>G</sup>□□□-<sup>C4, N3</sup>  
<sup>C6, N7</sup>□□(-F<sub>1</sub>)  
<sup>C8, N9</sup>

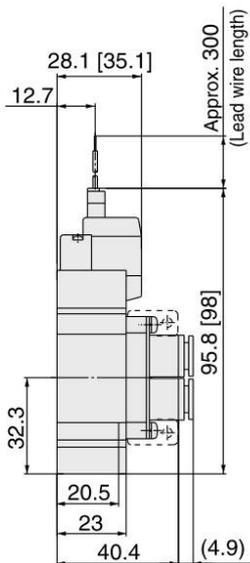


SY5120-□<sup>G</sup>□□□-01□(-F<sub>2</sub>)



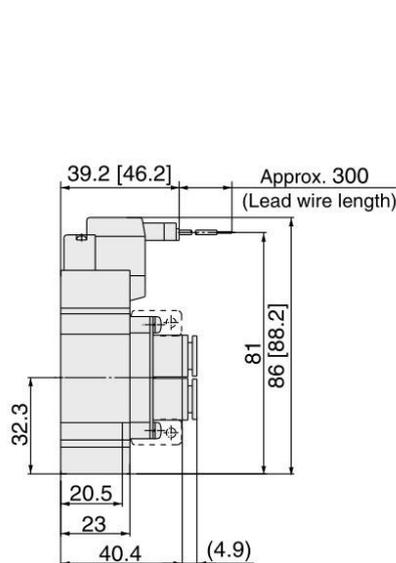
**L plug connector (L):**

SY5120-□<sup>L</sup>□□□-<sup>C4, N3</sup>  
<sup>C6, N7</sup>□□(-F<sub>2</sub>)  
<sup>C8, N9</sup>



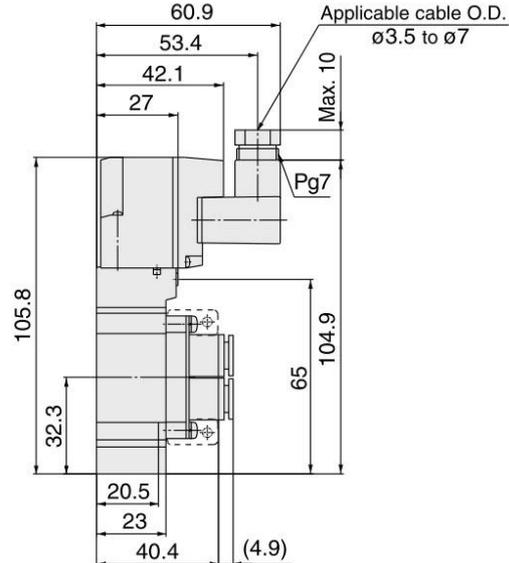
**M plug connector (M):**

SY5120-□<sup>M</sup>□□□-<sup>C4, N3</sup>  
<sup>C6, N7</sup>□□(-F<sub>2</sub>)  
<sup>C8, N9</sup>



**DIN terminal (D, Y):**

SY5120-□<sup>D</sup>□□□-<sup>C4, N3</sup>  
<sup>C6, N7</sup>□□(-F<sub>2</sub>)  
<sup>C8, N9</sup>

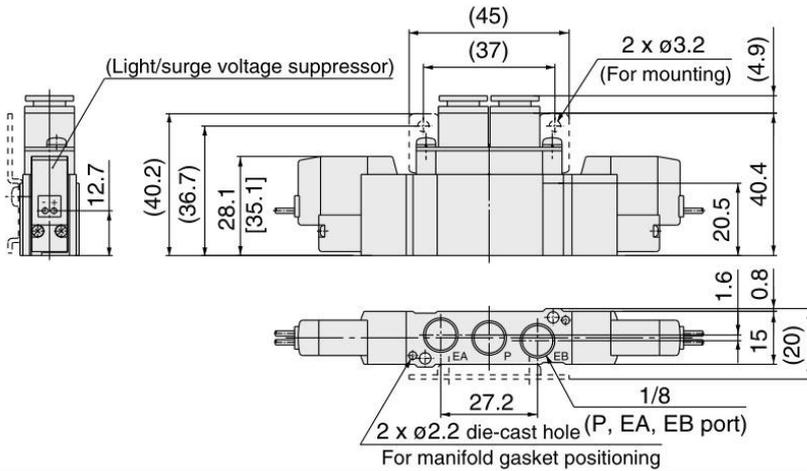
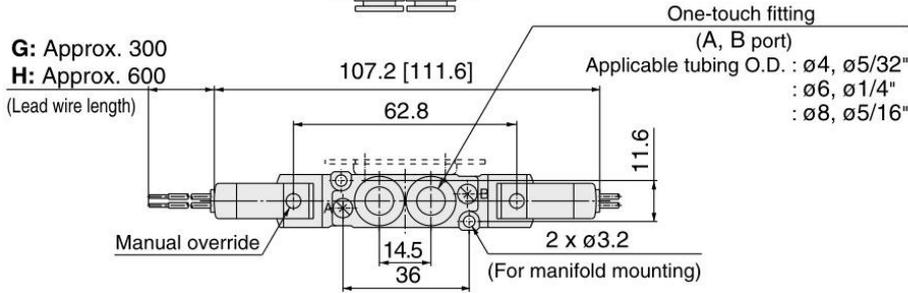
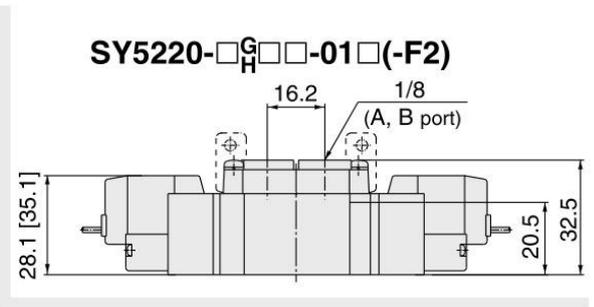
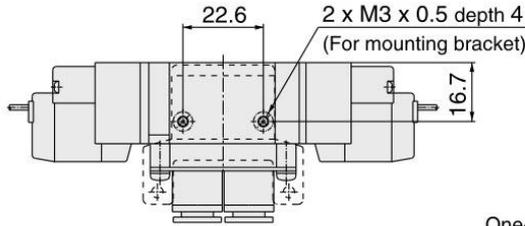


Dimensions: SY5000 Series

[ ]: AC

2 position double

Grommet (G), (H): SY5220-□<sup>G</sup>□□□-<sup>C4, N3</sup><sub>C6, N7</sub>□□(-F2)  
<sup>C8, N9</sup>



L plug connector (L):

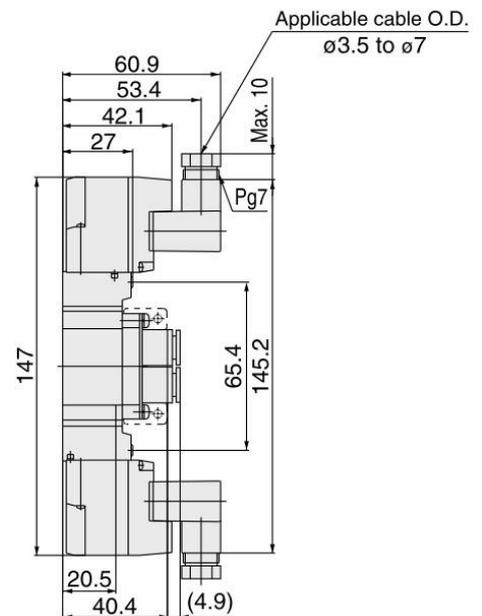
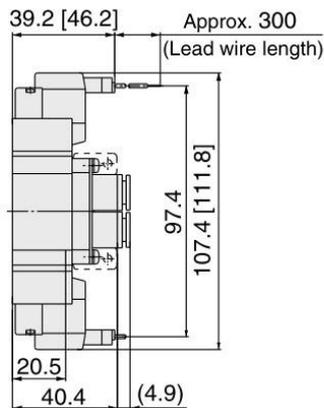
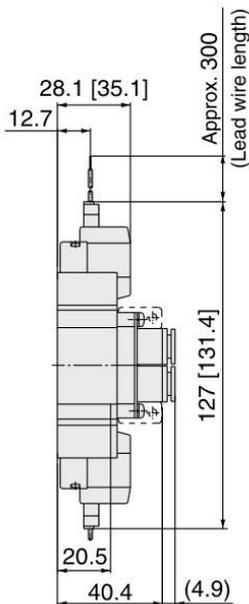
SY5220-□<sup>L</sup>□□□-<sup>C4, N3</sup><sub>C6, N7</sub>□□(-F2)  
<sup>C8, N9</sup>

M plug connector (M):

SY5220-□<sup>M</sup>□□□-<sup>C4, N3</sup><sub>C6, N7</sub>□□(-F2)  
<sup>C8, N9</sup>

DIN terminal (D, Y):

SY5220-□<sup>D</sup>□□□-<sup>C4, N3</sup><sub>C6, N7</sub>□□(-F2)  
<sup>C8, N9</sup>



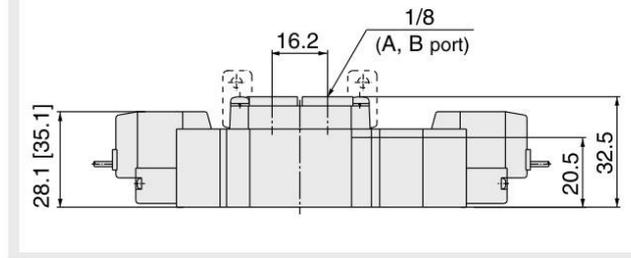
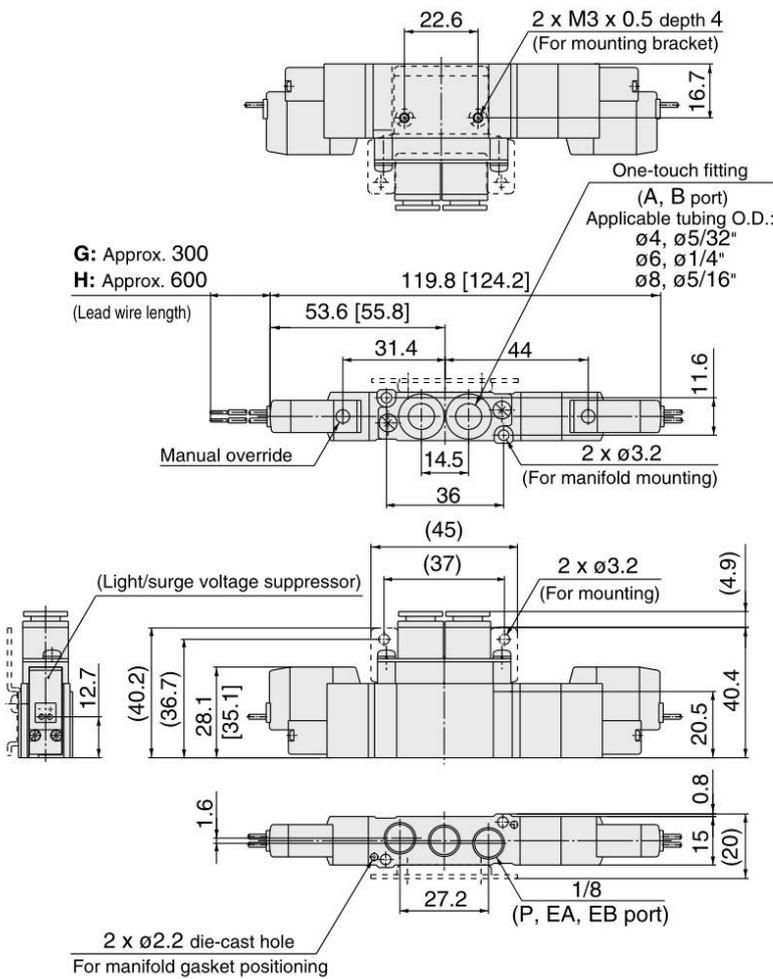
**Dimensions: SY5000 Series**

[ ]: AC

**3 position closed center / exhaust center / pressure center**

**Grommet (G), (H): SY<sup>3</sup><sub>5</sub>420-□G□□-C<sub>4</sub>, N<sub>3</sub>-C<sub>6</sub>, N<sub>7</sub>□(-F2)  
C<sub>8</sub>, N<sub>9</sub>**

**SY<sup>3</sup><sub>5</sub>420-□H□□-01□(-F2)**

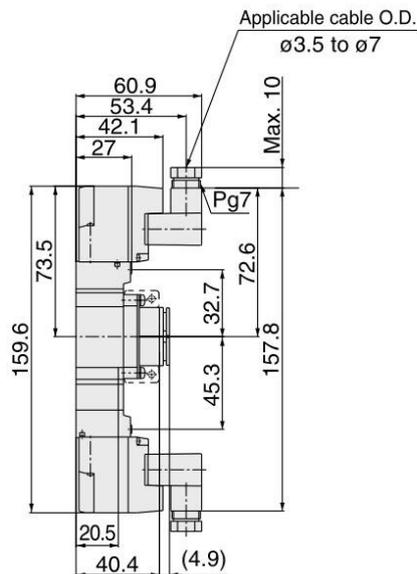
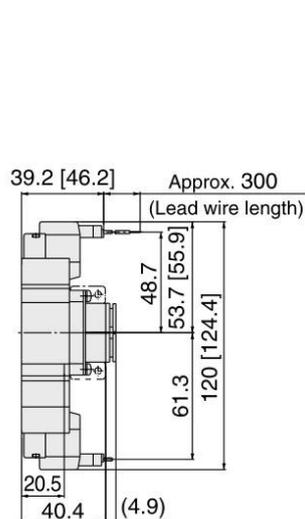
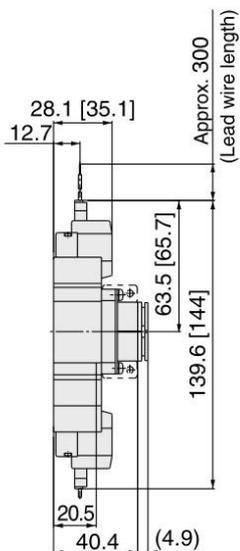


**L plug connector (L):**

**M plug connector (M):**

**DIN terminal (D, Y):**

**SY<sup>3</sup><sub>5</sub>420-□L□□-C<sub>4</sub>, N<sub>3</sub>-C<sub>6</sub>, N<sub>7</sub>□(-F2) C<sub>8</sub>, N<sub>9</sub> SY<sup>3</sup><sub>5</sub>420-□M□□-C<sub>4</sub>, N<sub>3</sub>-C<sub>6</sub>, N<sub>7</sub>□(-F2) C<sub>8</sub>, N<sub>9</sub> SY<sup>3</sup><sub>5</sub>420-□D□□-C<sub>4</sub>, N<sub>3</sub>-C<sub>6</sub>, N<sub>7</sub>□(-F2) C<sub>8</sub>, N<sub>9</sub>**

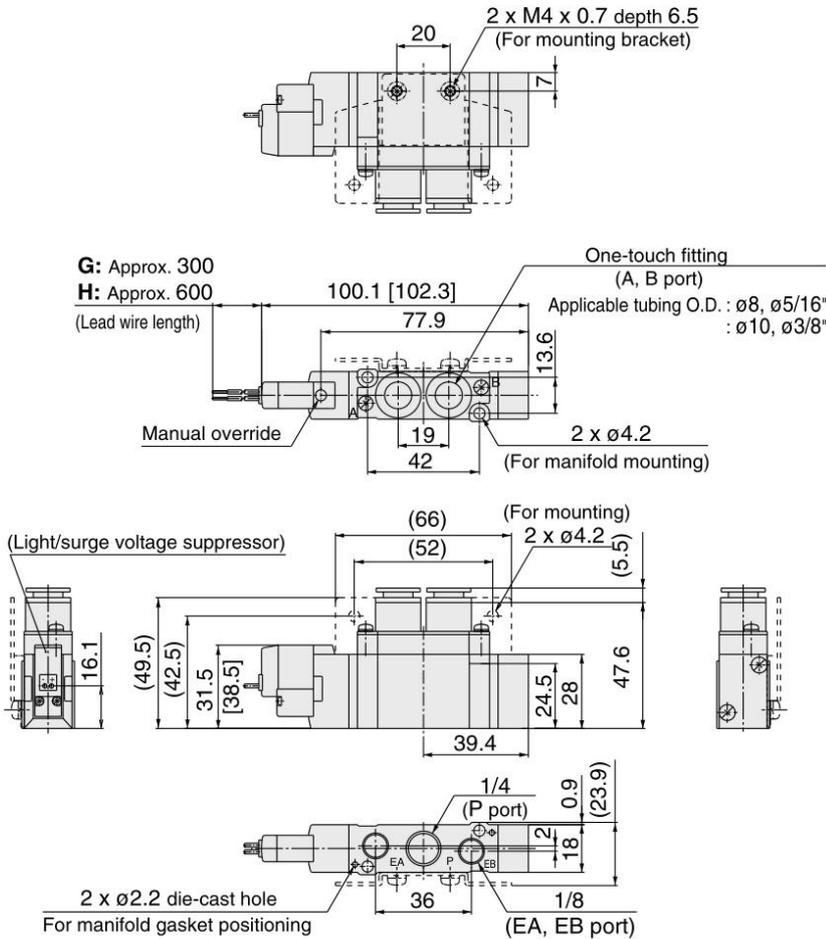


Dimensions: SY7000 Series

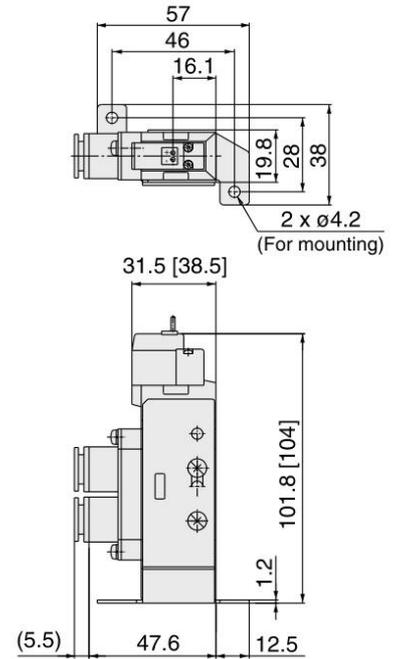
[ ]: AC

2 position single

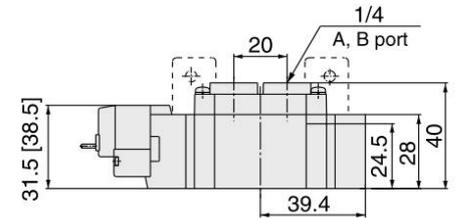
Grommet (G), (H): SY7120-□<sub>H</sub>□□-C8, N9 C10, N11 □(-F2)



SY7120-□<sub>H</sub>□□-C8, N9 C10, N11 □-F1



SY7120-□<sub>H</sub>□□-02□(-F2)



L plug connector (L):

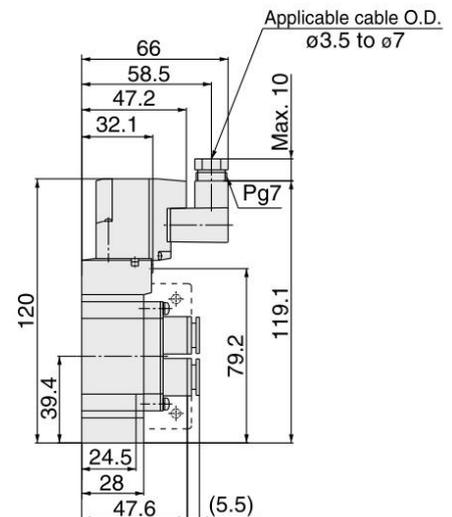
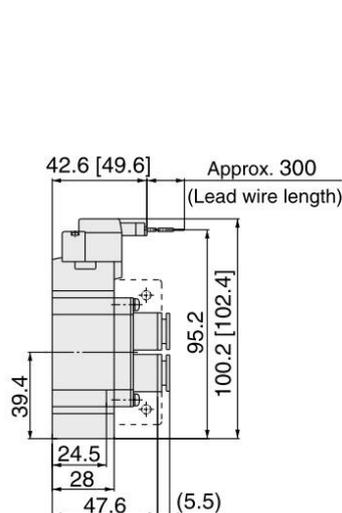
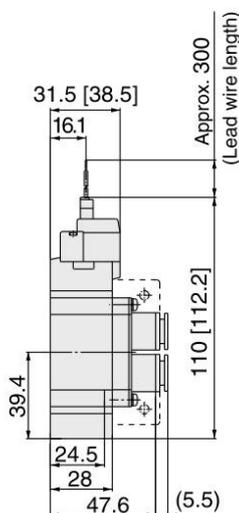
SY7120-□L□□-C8, N9 C10, N11 □(-F<sub>1</sub>)

M plug connector (M):

SY7120-□M□□-C8, N9 C10, N11 □(-F<sub>1</sub>)

DIN terminal (D, Y):

SY7120-□<sub>D</sub>□□-C8, N9 C10, N11 □(-F<sub>1</sub>)



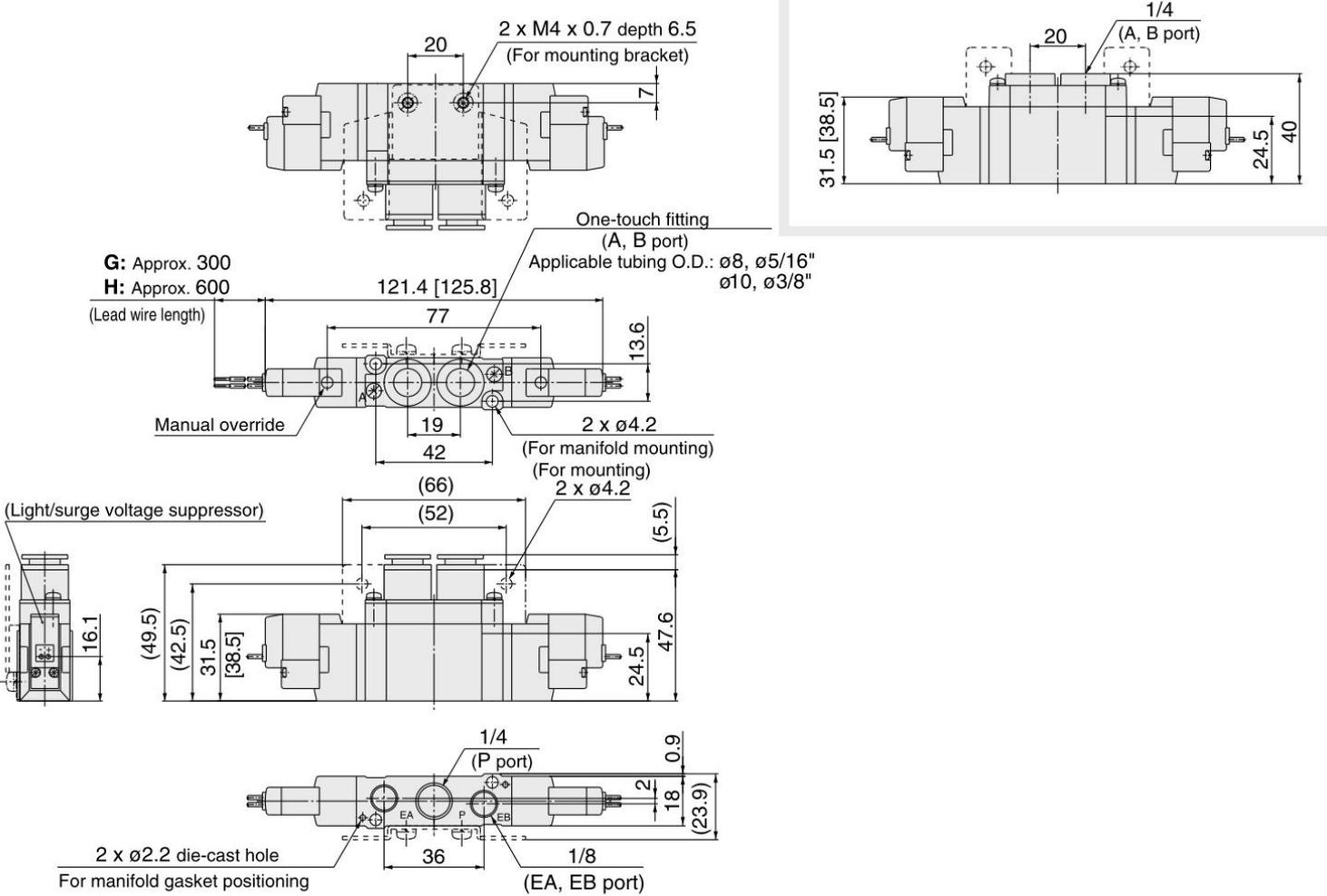
**Dimensions: SY7000 Series**

[ ]: AC

**2 position double**

**Grommet (G), (H): SY7220-□<sub>G</sub>□<sub>H</sub>□<sub>C8, N9</sub>□<sub>C10, N11</sub>□(-F2)**

**SY7220-□<sub>G</sub>□<sub>H</sub>□-02□(-F2)**



**L plug connector (L):**

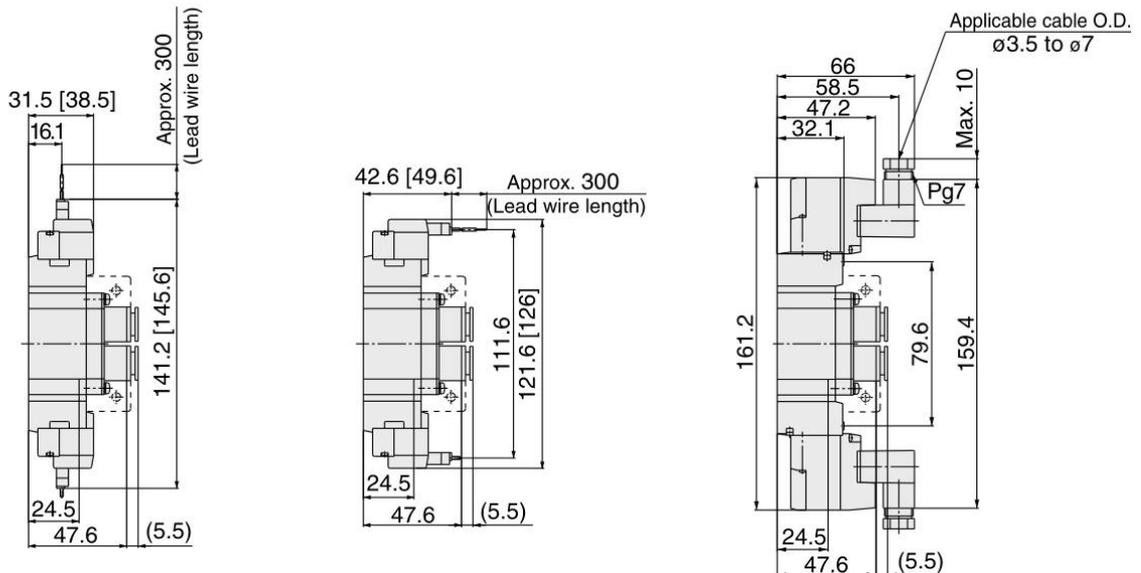
**SY7220-□L□<sub>C8, N9</sub>□<sub>C10, N11</sub>□(-F2)**

**M plug connector (M):**

**SY7220-□M□<sub>C8, N9</sub>□<sub>C10, N11</sub>□(-F2)**

**DIN terminal (D, Y):**

**SY7220-□<sub>D</sub>□<sub>Y</sub>□<sub>C8, N9</sub>□<sub>C10, N11</sub>□(-F2)**



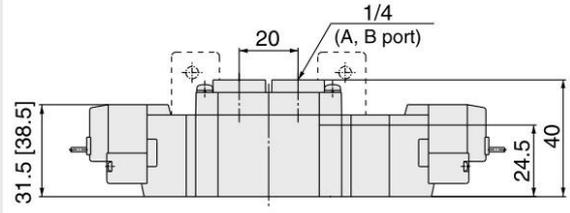
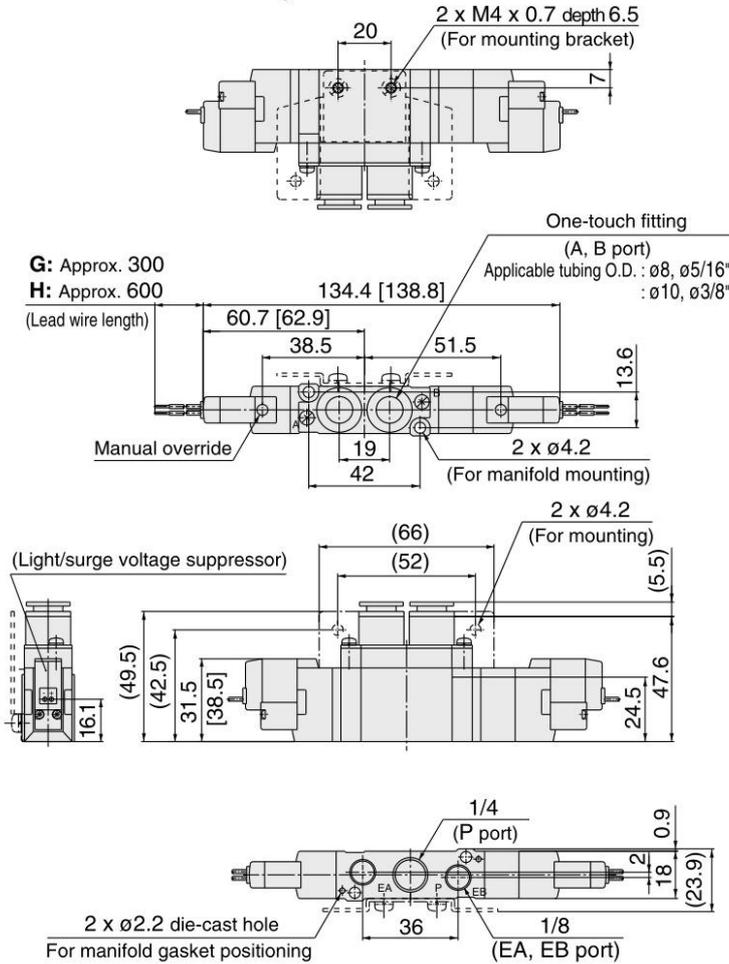
Dimensions: SY7000 Series

[ ]: AC

3 position closed center / exhaust center / pressure center

Grommet (G), (H): SY7<sup>3</sup>/<sub>5</sub>20-□G□□-C8, N9  
C10, N11□(-F2)

SY7<sup>3</sup>/<sub>5</sub>20-□H□□-02□(-F2)



L plug connector (L):

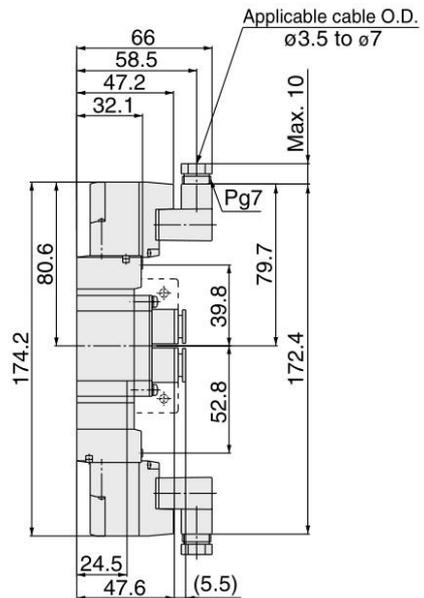
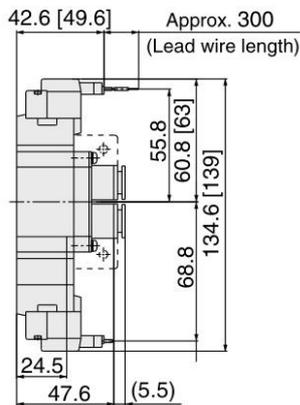
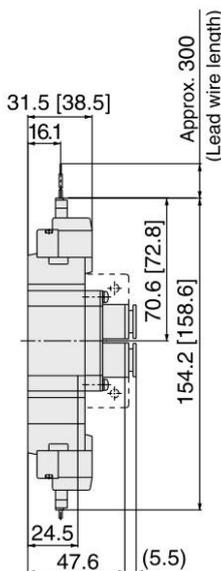
M plug connector (M):

DIN terminal (D, Y):

SY7<sup>3</sup>/<sub>5</sub>20-□L□□-C8, N9  
C10, N11□(-F2)

SY7<sup>3</sup>/<sub>5</sub>20-□M□□-C8, N9  
C10, N11□(-F2)

SY7<sup>3</sup>/<sub>5</sub>20-□D□□-C8, N9  
C10, N11□(-F2)



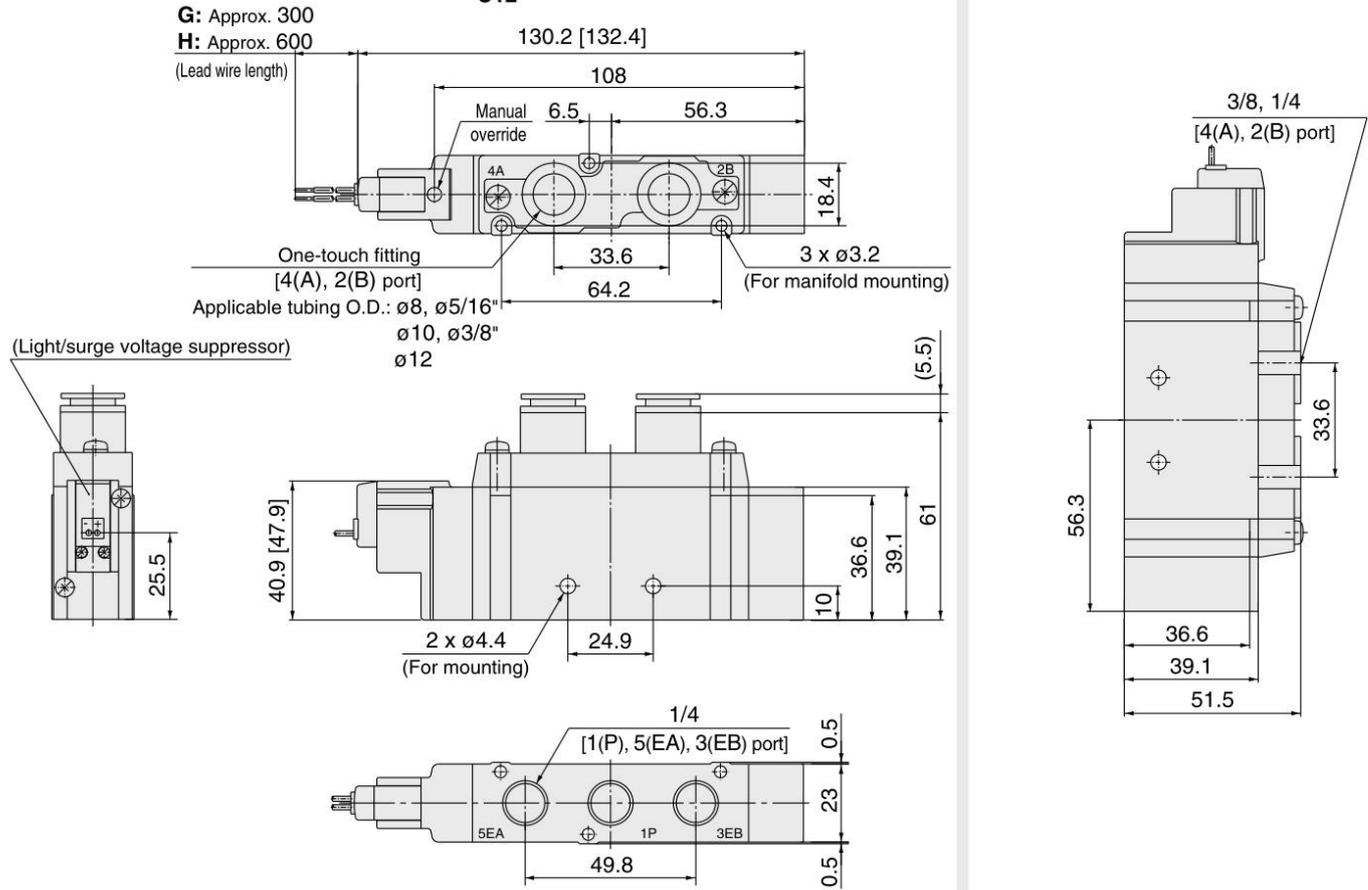
**Dimensions: SY9000 Series**

[ ] AC

**2 position single**

Grommet (G), (H): SY9120-□G□□-C8, N9  
C10, N11□  
C12

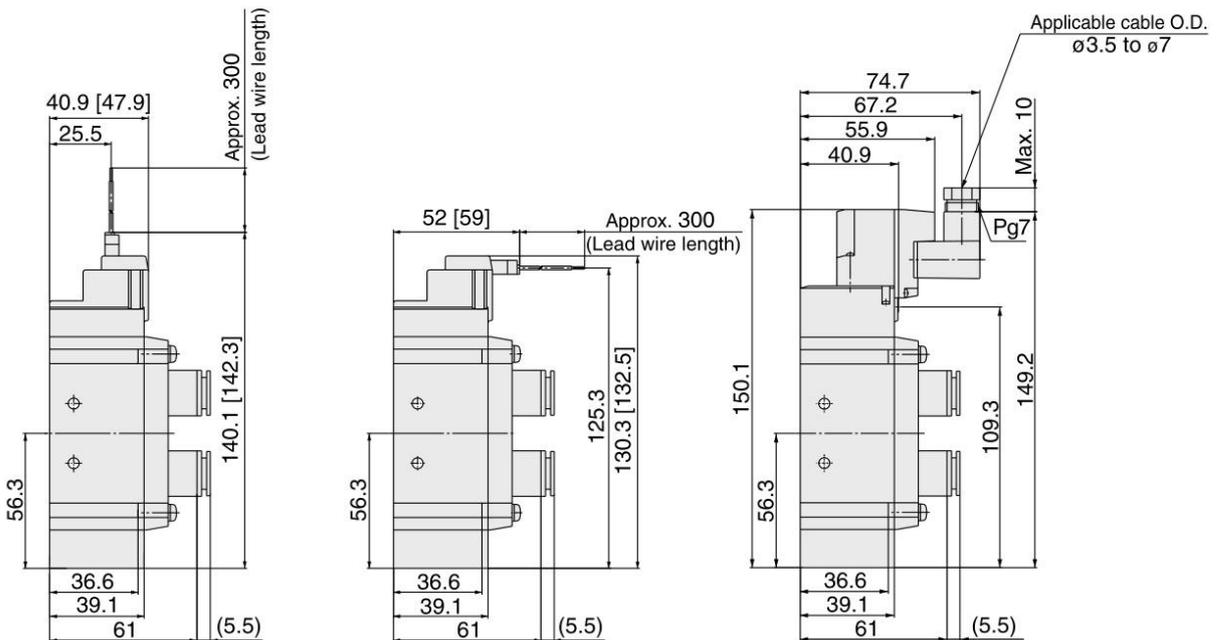
SY9120-□G□□-02  
03□



**L plug connector (L):**  
SY9120-□L□□-C8, N9  
C10, N11□  
C12

**M plug connector (M):**  
SY9120-□M□□-C8, N9  
C10, N11□  
C12

**DIN terminal (D, Y):**  
SY9120-□D□□-C8, N9  
C10, N11□  
C12



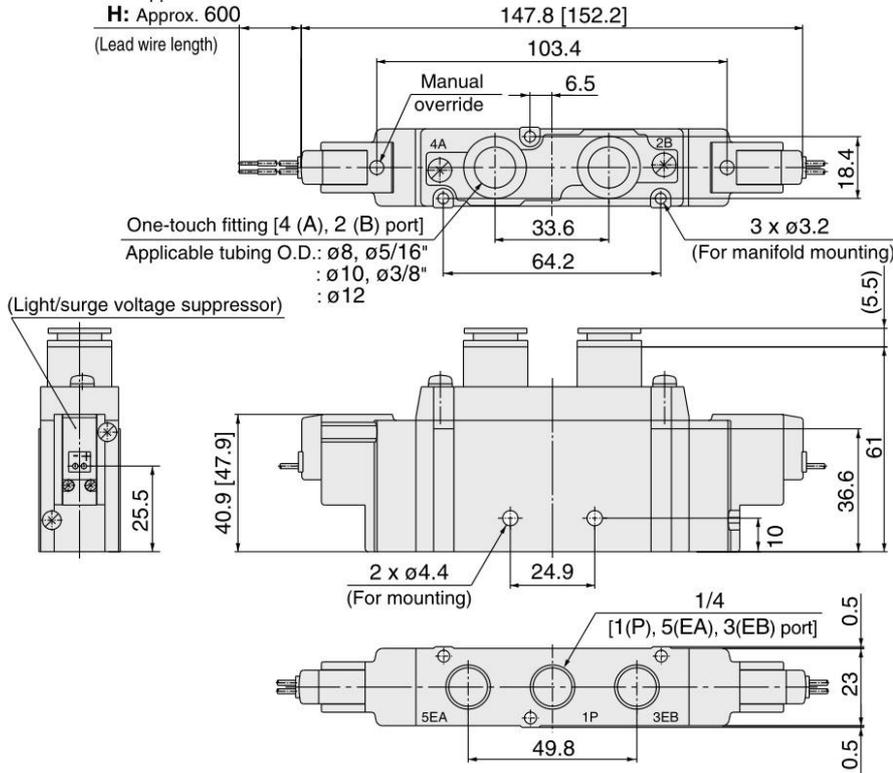
## Dimensions: SY9000 Series

[ ]: AC

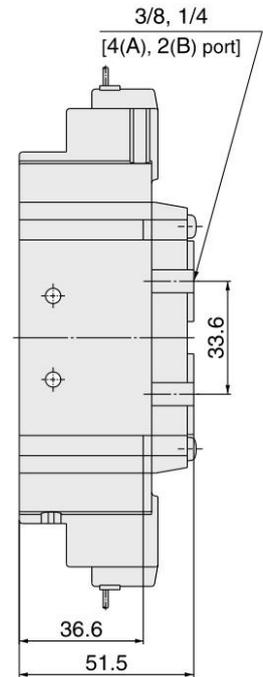
### 2 position double

Grommet (G), (H): SY9220-□<sup>G</sup>□□-C<sub>8, N<sub>9</sub></sub>□□  
C<sub>10, N<sub>11</sub></sub>□□  
C<sub>12</sub>

G: Approx. 300  
H: Approx. 600



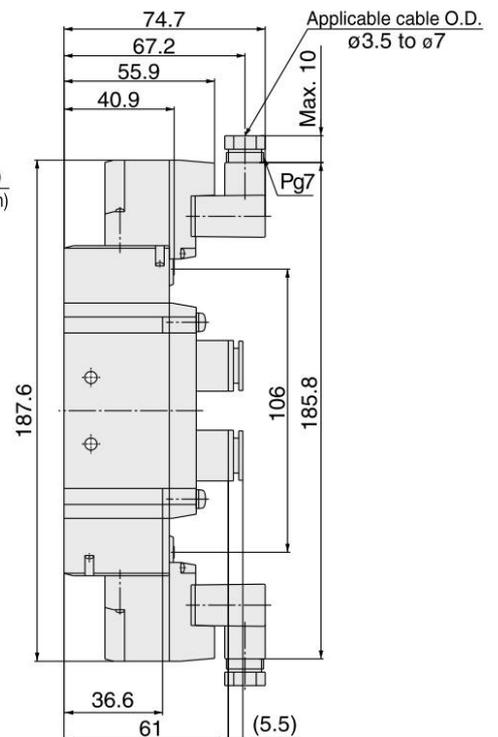
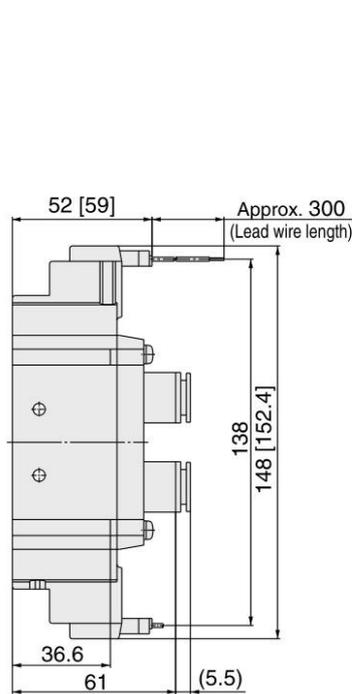
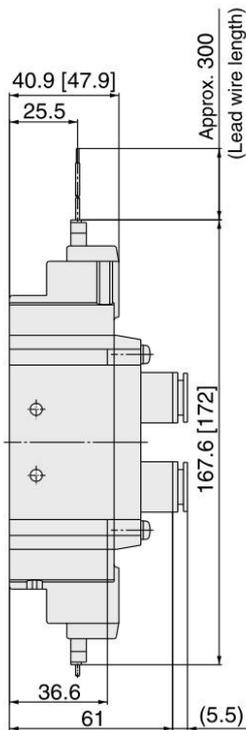
SY9220-□<sup>G</sup>□□-0<sub>2</sub>□□  
0<sub>3</sub>



L plug connector (L):  
SY9220-□L□□-C<sub>8, N<sub>9</sub></sub>□□  
C<sub>10, N<sub>11</sub></sub>□□  
C<sub>12</sub>

M plug connector (M):  
SY9220-□M□□-C<sub>8, N<sub>9</sub></sub>□□  
C<sub>10, N<sub>11</sub></sub>□□  
C<sub>12</sub>

DIN terminal (D, Y):  
SY9220-□<sup>D</sup>□□-C<sub>8, N<sub>9</sub></sub>□□  
C<sub>10, N<sub>11</sub></sub>□□  
C<sub>12</sub>



**Dimensions: SY9000 Series**

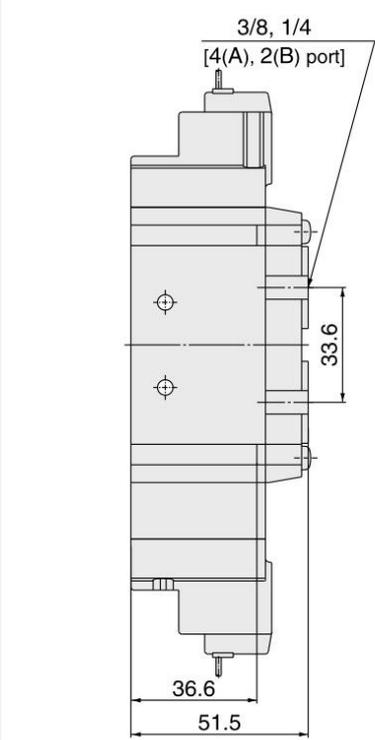
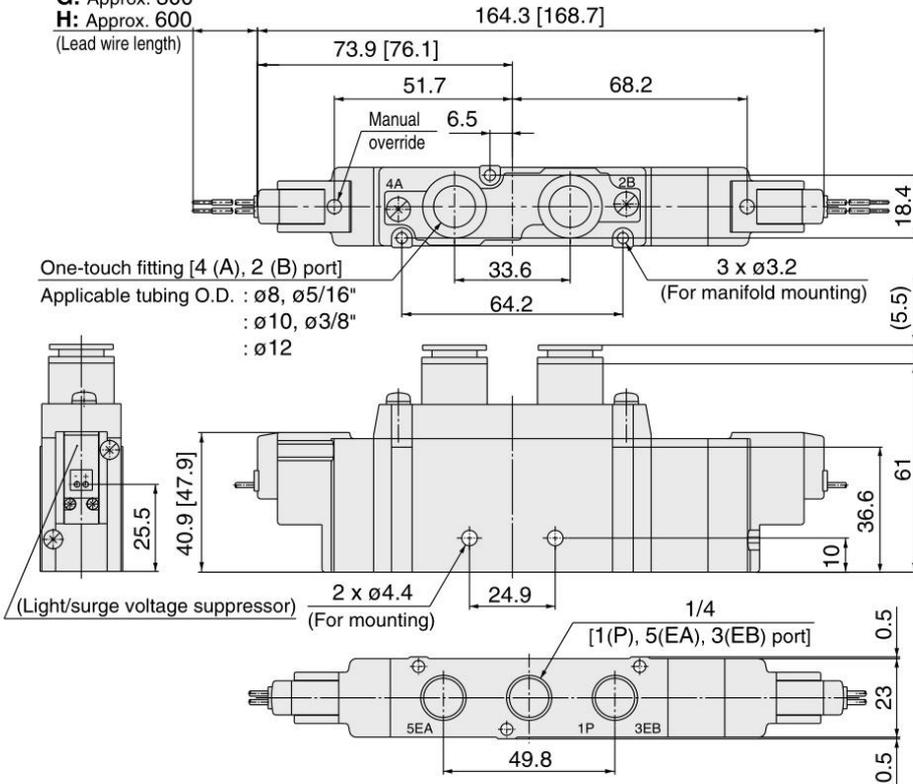
[ ]: AC

**3 position closed center / exhaust center / pressure center**

**Grommet (G), (H): SY9<sup>3</sup><sub>5</sub>420-□<sup>G</sup>□□□-C8, N9  
C10, N11□**

**SY9<sup>3</sup><sub>5</sub>420-□<sup>G</sup>□□□-02□**

G: Approx. 300  
H: Approx. 600  
(Lead wire length)



**L plug connector (L):**

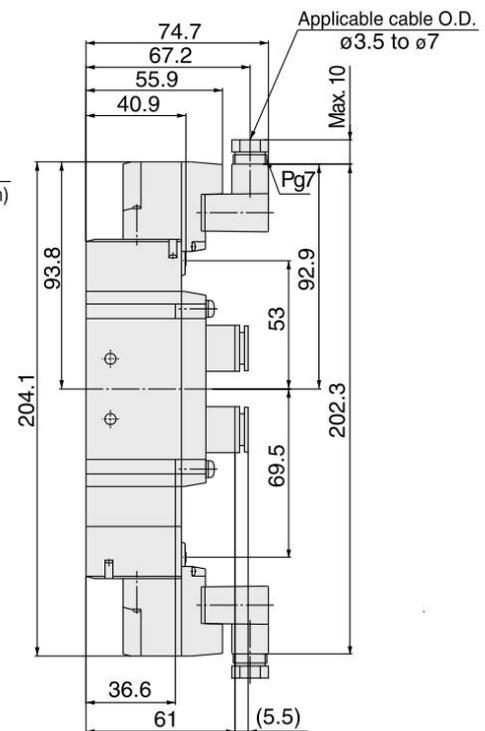
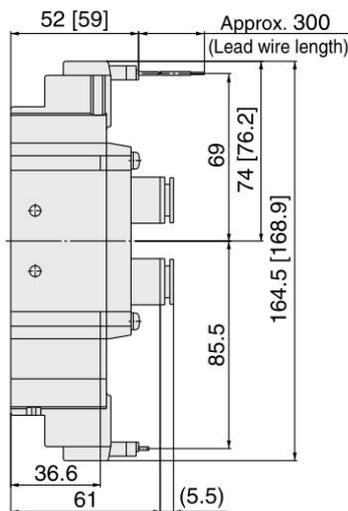
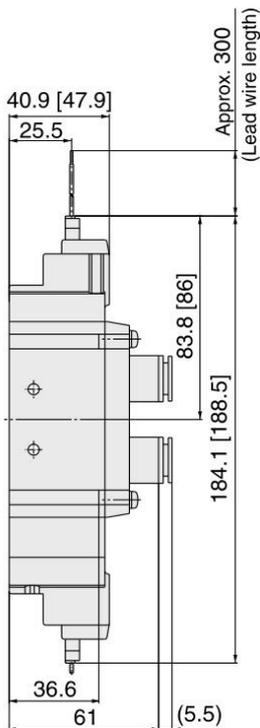
**SY9<sup>3</sup><sub>5</sub>420-□<sup>L</sup>□□□-C8, N9  
C10, N11□  
C12**

**M plug connector (M):**

**SY9<sup>3</sup><sub>5</sub>420-□<sup>M</sup>□□□-C8, N9  
C10, N11□  
C12**

**DIN terminal (D, Y):**

**SY9<sup>3</sup><sub>5</sub>420-□<sup>D</sup>□□□-C8, N9  
C10, N11□  
C12**



# JOOSUNG



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