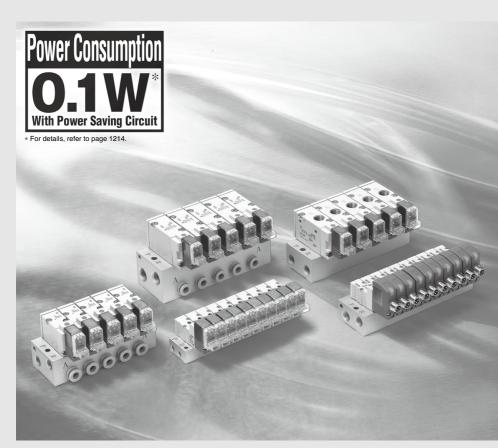
### 3 Port Solenoid Valve SYJ300/500/700 Series

Rubber Seal







#### Improved pilot valve

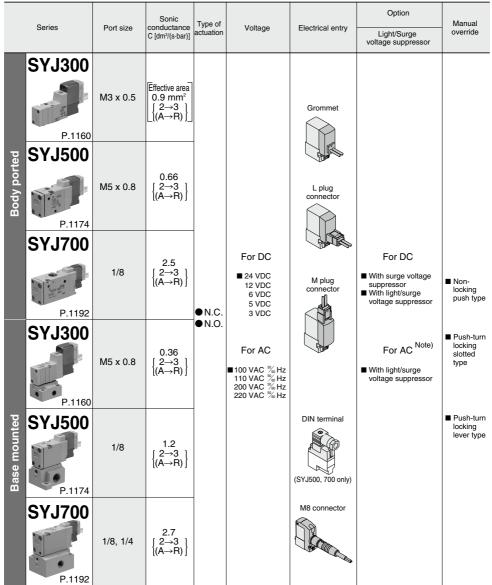
Pilot valve cover is stronger using stainless steel. Mounting thread is also reinforced from size M1.7 to M2.

Flow Rate Characteristics

Series	Flow rate characteristics						
Series	C [dm³/(s·bar)]	b	Cv				
SYJ300	0.36	0.31	0.089				
SYJ500	1.2	0.41	0.32				
SYJ700	2.7	0.38	0.72				

### Rubber Seal 3 Port Solenoid Valve **SYJ300/500/700 Series**

#### Variations



Note) All AC voltage models have built-in surge voltage suppressor.



#### SYJ300/500/700 Series

#### **Manifold Variations**

							A po	ort size				
	Value series	A port	P, R ports				With One-touch fitting					
	Valve series Ic		size	M3	M5	1/8	Applicable tubing O.D.					
							ø4	ø6	ø8	N3	N7	N9
	SYJ300	Тор	M5 x 0.8	Note 1)	—	—	_	_	—	—		—
fed	P.1166	TOP	1/8	Note 2)	—	—	_	—	—	—		—
dy ported	SYJ500 P.1180	Тор	1/8		•	_	_		_	_		_
Body	SYJ700	Тор	1/8		—	Note 1)		—	—	—		—
	P.1198	TOP	1/4	—	—	$\bullet$	—	—	—	—	—	—
_	SYJ300	Side	M5 x 0.8	Note 1)	—	—	—	—	—	-	-	—
Base mounted	P.1166	Olde	1/8	—	•	—		—	_		_	_
Ino	SYJ500	Bottom	1/8	—	•		_	_	_	—		_
e m	P.1180	Side	1/0	—			$\bullet$	•	—		•	_
as		Bottom	1/8	—	_	Note 1)	—	_	_	<u> </u>	_	
m	<b>SYJ700</b>	Dottom	1/4	—			—	—			—	
	P.1198	Side	1/4	—			—					

Note 1) Only for internal pilot Note 2) Only for external pilot



SYJ300 series

SYJ500 series

SYJ VQZ VP

VG VP3

### Rubber Seal 3 Port Pilot Solenoid Valve **SYJ300 Series**

[Option]



Body ported



Base mounted

SYJ32<sup>2</sup>

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2(A)

(P)1 3(R)

2(A)

(P)1 3(R)

SYJ32<sup>2</sup>R

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#### Specifications

Fluid	Air		
Operating pressure range (MPa) Internal pilot	0.15 to 0.7		
Ambient and fluid temperature (°C)	-10 to 50 (No freezing.)		
Response time ms (at 0.5 MPa) Note 1)	15 or less		
Max. operating frequency (Hz)	10		
Manual override (Manual operation)	Non-locking push type, push-turn locking slotted type, push-turn locking lever type		
Pilot exhaust method	Individual exhaust for the pilot valve, common exhaust for the pilot and main valve		
Lubrication	Not required		
Mounting orientation	Unrestricted		
Impact/Vibration resistance (m/s <sup>2</sup> ) Note 2)	150/30		
Enclosure	Dust proof (* M8 connector conforms to IP65.)		

\* Based on IEC60529

Note 1) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage, without surge voltage suppressor.) Note 2) Impact resistance: No malfunction occurred when it is tested in the axial direction and at the rig

e: 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. (Value in the initial state)

Vibration resistance:

ce: No malfunction occurred in 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. (Value in the initial state)

#### **Solenoid Specifications**

#### Grommet (G), (H), L plug connector (L), Electrical entry M plug connector (M), M8 connector (W) Coil rated DC 24, 12, 6, 5, 3 voltage (V) AC 50/60 Hz 100, 110, 200, 220 Allowable voltage fluctuation ±10% of rated voltage 0.35 (With light: 0.4) Standard Power DC With power 0.1 (With light only) consumption (W) saving circuit [Starting 0.4, Holding 0.1] 100 V 0.78 (With light: 0.81) 0.86 (With light: 0.89) 110 V [0.94 (With light: 0.97)] [115 V] Apparent power ۸С (VA) \* 200 V 1.18 (With light: 1.22) 220 V 1.30 (With light: 1.34) [230 V] [1.42 (With light: 1.46)] Surge voltage suppressor Diode (Varistor when non-polar types) Indicator light LED

\* 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.

\* For details, refer to page 1214.

Mac	je to der	1
	uc.	(

Symbol Internal pilot

SYJ31<sup>2</sup>

2(A)

(P)1 3(R)

External pilot

SYJ31<sup>2</sup><sub>4</sub>R

2(A)

(P)1 3(R)

de to Order (For details, refer to pages 1210 and 1211)

### SYJ300 Series Manifold Specifications



#### Manifold Specifications

Mardal	For internal pilot	Type 20	Type 41, S41	Type 42, S42		
Model	For external pilot	Type 20R	_	Type 42R, S42R		
Manifold type		Single base/B mount				
P (SUP), R (EXH)			Common SUP/	Common EXH		
Valve stations		2 to 20 stations				
A port	Location	Valve	Base			
Porting specifications	Direction	Тор	Side			
	P, R port	M5 x 0.8 1/8	M5 x 0.8	1/8		
Port size	A port	M3 x 0.5	M3 x 0.5	M5 x 0.8 C4 (One-touch fitting ø4)		
	X port Note)	M5 x 0.8	—	M5 x 0.8		

Note) Only for external pilot

#### **Flow Rate Characteristics**

			Port size		Flow rate characteristics						Effective
					1	I→2 (P→A	)	2→3 (A→R)			area
Manifold		1(P), 3(R) Port	2(A) Port	C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	(mm <sup>2</sup> )	
Body ported for internal pilot	Type SS3YJ3-20	SYJ3⊡2	M5 x 0.8	M3 × 0.5	-	Ι	-	-	-	-	0.9
	Type SS3YJ3- 41 S41	SYJ3⊡4	M5 x 0.8	M3 x 0.5	-	-	-	-	-	-	1.5
Base mounted	Type SS3YJ3-42-M5	SYJ3⊡4	1/8	M5 x 0.8	0.31	0.17	0.075	0.32	0.11	0.072	-
for internal pilot	Type SS3YJ3-42-C4	513304	1/0	C4	0.33	0.36	0.086	0.33	0.2	0.082	-
	Type SS3YJ3-S42-M5	SYJ3⊡4		M5 x 0.8	0.32	0.3	0.079	0.33	0.35	0.086	-
	Type SS3YJ3-S42-C4	513314	1/8	C4	0.35	0.17	0.082	0.35	0.26	0.086	-
Body ported for external pilot	Type SS3YJ3-20R	SYJ3⊡2R	1/8	M3 x 0.5	-	-	-	-	-	-	0.9
	Type SS3YJ3-42R-M5		1/8	M5 x 0.8	0.31	0.17	0.075	0.32	0.11	0.072	-
Base mounted	Type SS3YJ3-42R-C4	SYJ3⊡4R	1/8	C4	0.33	0.36	0.086	0.33	0.20	0.082	-
for external pilot	Type SS3YJ3-S42R-M5		4/0	M5 x 0.8	0.32	0.30	0.079	0.33	0.35	0.086	-
	Type SS3YJ3-S42R-C4	SYJ3⊡4R	1/8	C4	0.35	0.17	0.082	0.35	0.26	0.086	-

Note) Value at manifold base mounted, 2 position single acting

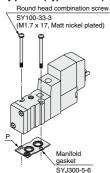
#### How to Order Manifold (Example)

Instruct by specifying the valves and blanking plate as with the manifold base model no.	sembly to be mounted on the manifold along
(Example) SS3YJ3-20-031 set (manifold base)	SS3YJ3-42R-03-C4 1 set (manifold base)
* SYJ312-5LZ-M3 2 sets (valve)	* SYJ314R-5G 2 sets (valve)
* SYJ300-10-7A ·········· 1 set (blanking plate assembly)	* SYJ300-10-7A 1 set (blanking plate assembly)
→ The asterisk denotes the symbol for assembly. Prefix i	it to the part nos. of the solenoid valve, etc.

### Rubber Seal SYJ300 Series

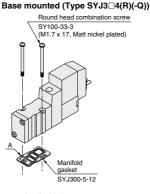
#### Combinations of Solenoid Valve, Manifold Gasket and Manifold Base

#### Body ported (Type SYJ3□2(R)(-Q))



#### Applicable base

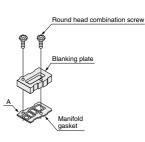
SS3YJ3-20(-Q) Manifold SS3YJ3-20R(-Q) base



#### Applicable base Sub-plate

SS3YJ3-41(-Q) SS3YJ3-S41(-Q) SS3YJ3-22(-Q) SS3YJ3-42(-Q) SS3YJ3-42R(-Q) SS3YJ3-42R(-Q) SS3YJ3-542R(-Q) **Blanking Plate Assembly** 

Part no.: SYJ300-10-7A(-Q)



# Applicable base Sub-plate SS3YJ3-20(-0) SS3YJ3-20R(-Q) SS3YJ3-20R(-Q) SS3YJ3-20R(-Q) SS3YJ3-42(-Q) SS3YJ3-42(-Q) SS3YJ3-42(-Q) SS3YJ3-42(-Q) SS3YJ3-42(-Q) SS3YJ3-42(-Q) SS3YJ3-42(-Q) SS3YJ3-42R(-Q) SS3YJ3-42R(-Q)

Note) Add suffix "-Q" for the CE-compliant product.

#### \land Caution

Mounting screw tightening torgues

#### M1.7: 0.12 N·m

Use caution to the assembly orientation for solenoid valves, gasket and optional parts.

SYJ
VQZ
VP
VG
VP3

### Rubber Seal 3 Port Pilot Solenoid Valve **SYJ500 Series**



Body ported



Base mounted

SYJ52 4 2(A)

(P)1 3(R)

SYJ52<sup>2</sup>/<sub>4</sub>R

2(A)

(P)1 3(R)

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#### Specifications

Fluid		Air		
Operating pressure range (MPa) Internal pilot		0.15 to 0.7		
Ambient and fluid ten	nperature (°C)	-10 to 50 (No freezing.)		
Response time ms (at	t 0.5 MPa) Note 1)	25 or less		
Max. operating freque	ency (Hz)	5		
Manual override (Manual operation)		Non-locking push type, push-turn locking slotted type, push-turn locking lever type		
Pilot exhaust method		Individual exhaust for the pilot valve, common exhaust for the pilot and main valve		
Lubrication		Not required		
Mounting orientation		Unrestricted		
Impact/Vibration resis	tance (m/s²) Note 2)	150/30		
Enclosure		Dust proof (* DIN terminal, M8 connector conforms to IP65.)		
<ul> <li>Based on IEC60529</li> <li>Note 1) Based on dynamic p</li> </ul>		B 8419: 2010. (Coil temperature: 20°C, at rated voltage,		

without surge voltage suppressor.) Note 2) 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. (Value in the initial state)

Vibration resistance: No malfunction occurred in 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. (Value in the initial state)

#### 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	D	С	24, 12, 6, 5, 3	24, 12	
voltage (V)	Α	C 50/60 Hz	100, 110,	200, 220	
Allowable voltage	fluctu	ation	±10% of rate	ed voltage *	
Dames		Standard	0.35 (With light: 0.4 (DIN terminal with light: 0.45)		
Power consumption (W)	DC	With power saving circuit	0.1 (With light only) * [Starting 0.4, Holding 0.1]		
		100 V	0.78 (With light: 0.81)	0.78 (With light: 0.87)	
Apparent power		110 V [115 V]	0.86 (With light: 0.89) [0.94 (With light: 0.97)]	0.86 (With light: 0.97) [0.94 (With light: 1.07)]	
(VA) *	AC	200 V	1.18 (With light: 1.22)	1.15 (With light: 1.30)	
		220 V [230 V]	1.30 (With light: 1.34) [1.42 (With light: 1.46)]	1.27 (With light: 1.46) [1.39 (With light: 1.60)]	
Surge voltage sup	Surge voltage suppressor		Diode (DIN terminal, varistor when non-polar types)		
Indicator light			LED (Neon light when AC with DIN terminal)		

\* 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.

\* For details, refer to page 1214.

Made to Order (For details, refer to pages 1210 and 1211.)

SMC \$

Symbol Internal pilot SYJ51<sup>2</sup>

(P)1 3(R)

External pilot SYJ51<sup>2</sup><sub>4</sub>R

2(A)

(P)1 3(R)

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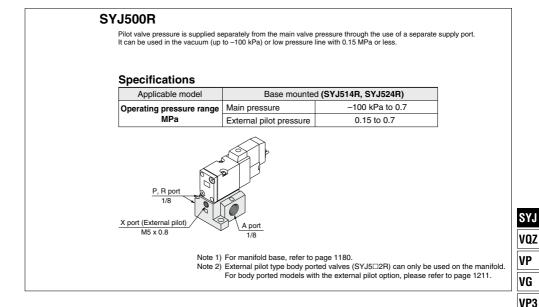
### Rubber Seal SYJ500 Series

#### Flow Rate Characteristics/Weight

				Flow rate characteristics						Weight (g) Note)					
Valve n	nodel	Type of Port actuation size					1→2 (P→A)			2→3 (A→R)		Grommet	L/M plug	DIN	M8
		actuation	3120	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm3/(s·bar)]	b	Cv	Giommer	connector	terminal	connector		
Body	SYJ512	N.C.	M5 x 0.8	0.53	0.45	0.14	0.47	0.39	0.12	46	47	68	51		
ported	SYJ522	N.O.	0.0 X CIVI	0.66	0.45	0.18	0.66	0.45	0.18	40	47	00	51		
	SYJ514	N.C.	1/8	1.2	0.41	0.32	1.1	0.46	0.32	CO (4C)	61 (47)	00 (00)	CE (E1)		
(with sub-plate)	SYJ524	N.O.	1/0	1.3	0.37	0.33	1.2	0.48	0.34	60 (46)	61 (47)	82 (68)	05 (51)		

Note) Value for DC. Add 3 g for AC. ( ): Without sub-plate.

#### **External Pilot**



### SYJ500 Series Manifold Specifications



#### **Manifold Specifications**

	For internal pilot	Type 20	Type 40	Type 41	
Model	For external pilot	Type 21R	Type 40R	Type 41R	
Manifold type			Single bas	e/B mount	
P (SUP), R (EXH	I)	Common SUP, common EXH			
Valve stations		2 to 20 stations			
A port Porting	Location	Valve		Base	
specifications	Direction	Тор	Bottom	Side	
	P, R port	1/8	1/8	1/8	
Port size	A port	M5 x 0.8	M5 x 0.8 1/8	M5 x 0.8, $\frac{1}{8}$ , C4 (One-touch fitting for ø4), C6 (One-touch fitting for ø6)	
	X port Note)	M5 x 0.8	M5 x 0.8	M5 x 0.8	

Note) Only for external pilot

#### **Flow Rate Characteristics**

			Port size		Flow rate characteristics					
	Mar - 16-1-1		Pon	size		1→2 (P→A)		2→3 (A→R)		
Manifold		1(P), 3(R) port	2(A) port	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	
Body ported for internal pilot	Body ported for internal pilot Type SS3YJ5-20 SYJ5□2		1/8	M5 x 0.8	0.47	0.43	0.13	0.74	0.32	0.19
	Type SS3YJ5-40-M5		1/8	M5 x 0.8	0.71	0.52	0.21	0.81	0.28	0.20
	Type SS3YJ5-40-01		1/8	1/8	0.98	0.36	0.25	0.92	0.24	0.22
Base mounted	Type SS3YJ5-41-M5	SYJ5⊡4	1/8	M5 x 0.8	0.71	0.49	0.20	0.80	0.23	0.19
for internal pilot	Type SS3YJ5-41-01		1/8	1/8	1.0	0.37	0.26	0.96	0.25	0.24
	Type SS3YJ5-41-C4		1/8	C4	0.68	0.35	0.17	1.0	0.25	0.24
	Type SS3YJ5-41-C6		1/8	C6	1.0	0.27	0.25	1.0	0.30	0.26
Body ported for external pilot	Type SS3YJ5-21R	SYJ5□2R	1/8	M5 x 0.8	0.47	0.43	0.13	0.74	0.32	0.19
	Type SS3YJ5-40R-M5		1/8	M5 x 0.8	0.71	0.52	0.21	0.81	0.28	0.20
	Type SS3YJ5-40R-01		1/8	1/8	0.98	0.36	0.25	0.92	0.24	0.22
Base mounted	Type SS3YJ5-41R-M5	SYJ5⊡4R	1/8	M5 x 0.8	0.71	0.49	0.20	0.80	0.23	0.19
for external pilot	Type SS3YJ5-41R-01	51J5∐4R	1/8	1/8	1.0	0.37	0.26	0.96	0.25	0.24
	Type SS3YJ5-41R-C4		1/8	C4	0.68	0.35	0.17	1.0	0.25	0.24
	Type SS3YJ5-41R-C6		1/8	C6	1.0	0.27	0.25	1.0	0.30	0.26

Note) Value at manifold base mounted, 2 position single operating

#### How to Order Manifold (Example)

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.				
(Example)				
SS3YJ5-20-03 ······· 1 set (manifold base)	SS3YJ5-41R-03-C6 ···· 1 set (manifold base)			
* SYJ512-5LZ-M5 2 sets (valve)	* SYJ514R-5G ······ 2 sets (valve)			
* SYJ500-10-1A 1 set (blanking plate assembly) $T$	* SYJ500-10-3A 1 set (blanking plate assembly)			
The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.				

### Rubber Seal 3 Port Pilot Solenoid Valve **SYJ700 Series**



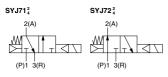
Body ported



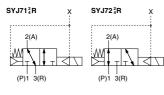
Base mounted

#### Symbol

Internal pilot



#### External pilot



#### Specifications

Fluid		Air		
Operating pressure range (MPa)	Internal pilot	0.15 to 0.7		
Ambient and fluid ter	nperature (°C)	-10 to 50 (No freezing.)		
Response time ms (a	t 0.5 MPa) Note 1)	30 or less		
Max. operating frequ	ency (Hz)	5		
Manual override (Mar	nual operation)	Non-locking push type, push-turn locking slotted type, push-turn locking lever type		
Pilot exhaust method	1	Individual exhaust for the pilot valve, common exhaust for the pilot and main valve		
Lubrication		Not required		
Mounting orientation		Unrestricted		
Impact/Vibration resistance (m/s <sup>2</sup> ) Note 2)		150/30		
Enclosure		Dust proof (* DIN terminal, M8 connector: IP65)		
Based on IEC60529				

Based on IEC605

Note 1) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage, without surge voltage suppressor.)

Note 2) 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. (Value in the initial state)

Vibration resistance: No malfunction occurred in 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. (Value in the initial state)

#### **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	D	C	24, 12, 6, 5, 3	24, 12		
voltage (V)	AC 50/60 Hz		100, 110,	200, 220		
Allowable voltage fluctuation			±10% of rate	ed voltage *		
Power consumption (W)		Standard	0.35 (With light: 0.4 (DIN terminal with light: 0.4			
	DC	With power saving circuit	0.1 (With light only) * [Starting 0.4, Holding 0.1]			
		100 V	0.78 (With light: 0.81)	0.78 (With light: 0.87)		
Apparent power		110 V [115 V]	0.86 (With light: 0.89) [0.94 (With light: 0.97)]	0.86 (With light: 0.97) [0.94 (With light: 1.07)]		
(VA) *	AC	200 V	1.18 (With light: 1.22)	1.15 (With light: 1.30)		
. ,		220 V [230 V]	1.30 (With light: 1.34) [1.42 (With light: 1.46)]	1.27 (With light: 1.46) [1.39 (With light: 1.60)]		
Surge voltage suppressor			Diode (DIN terminal, varistor when non-polar types)			
Indicator light			LED (Neon light when AC with DIN terminal)			

 $\ast$  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.

\* For details, refer to page 1214.



Made to Order

(For details, refer to pages 1210 and 1211.)

### Rubber Seal SYJ700 Series

#### Flow Rate Characteristics/Weight

			- ·	Flow rate characteristics						Weight (g) Note)			
Valve n	Valve model Type of		Port size	-	1→2 (P→A)		2→3 (A→R)			Grommet	L/M plug	DIN	M8
		actuation	size	C [dm3/(s-bar)]	b	Cv	C [dm <sup>3</sup> /(s-bar)]	b	Cv	Grommer	connector	terminal	connector
Body	SYJ712	N.C.	1/8	2.8	0.43	0.77	2.5	0.51	0.76	75	76	97	80
ported	d SYJ722 N.O. 1/0	1/0	2.7	0.38	0.72	2.4	0.42	0.69	1 / 5	70	97	00	
	SYJ714	N.C.	1/8	2.9	0.32	0.71	2.7	0.34	0.69				
Base mounted	SYJ724	N.O.		2.8	0.21	0.70	2.3	0.45	0.63	135 (75)	136 (76)	157 (97)	140 (80)
(with sub-plate)	SYJ714	N.C. 1/4	3.0	0.31	0.74	2.6	0.33	0.66	- 135 (75)	5) 130 (76)	157 (97)	140 (80)	
	SYJ724	N.O.	1/4	2.7	0.31	0.68	2.3	0.48	0.64				

Note) Value for DC. Add 3 g for AC. ( ): Without sub-plate.

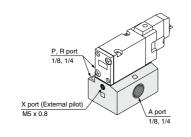
#### **External Pilot**

#### SYJ700R

Pilot valve pressure is supplied separately from the main valve pressure through the use of a separate supply port. It can be used in the vacuum (up to -100 kPa) or low pressure line with 0.15 MPa or less.

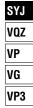
#### Specifications

Applicable model	Base mounted (SYJ714R, SYJ724R)			
Operating pressure range	Main pressure	-100 kPa to 0.7		
МРа	External pilot pressure	0.15 to 0.7		



#### Note 1) For manifold base, refer to page 1198.

Note 2) External pilot type body ported valves (SYJ7⊡2R) can only be used on the manifold. For body ported models with the external pilot option, please refer to page 1211.



### SYJ700 Series Manifold Specifications



Model	For internal pilot	Type 20	Type 21	Type 40	Type 41	Type 42	
Model	For external pilot	—	Type 21R	—	Type 41R	Type 42R	
Manifold ty	ре		-	Single base/E	3 mount		
P (SUP), R	EXH)		Cor	nmon SUP, co	mmon EXH		
Valve static	ns	2 to 20 stations					
A port Porting	Location	Valve	Valve	Base	Base	Base	
specifications	Direction	Тор	Тор	Bottom	Bottom	Side	
	P, R port	1/8	1/4	1/8	1/4	1/4	
Port size	A port	1⁄8	1/8	1/8	1/8		
	X port Note)		M3 x 0.8	_	M5 x 0.8	M5 x 0.8	

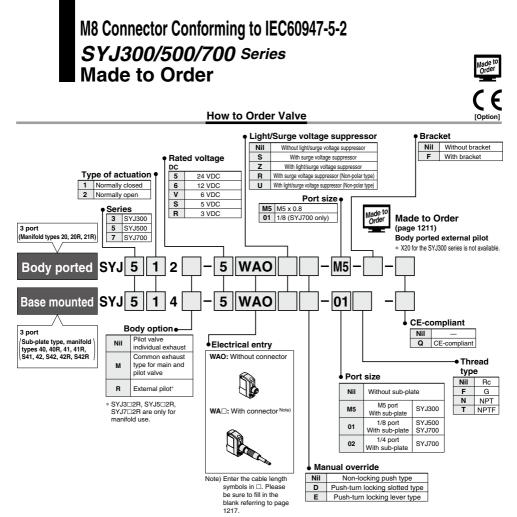
Note) Only for external pilot

#### **Flow Rate Characteristics**

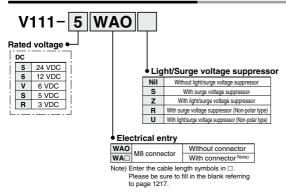
			Port size		Flow rate characteristics						
	M 16-1-1		Port size			1→2 (P→A)			2→3 (A→R)		
Manifold		1(P), 3(R) port	2(A) port	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv		
Body ported	Type SS3YJ7-20	0)/1700	1/8	1/8	2.2	0.34	0.55	2.3	0.27	0.59	
for internal pilot	Type SS3YJ7-21	SYJ7⊡2	1/4	1/8	2.2	0.39	0.59	2.4	0.32	0.62	
	Type SS3YJ7-40		1/8	1/8	2.1	0.35	0.59	2.3	0.27	0.54	
Base mounted	Type SS3YJ7-41	SYJ7⊡4	1/4	1/8	2.2	0.35	0.59	2.4	0.36	0.66	
for internal pilot	Type SS3YJ7-42-01		1/4	1/8	2.0	0.27	0.47	2.2	0.32	0.56	
for internal pilot	Type SS3YJ7-42-C6		1/4	C6	1.6	0.32	0.39	2.2	0.27	0.54	
	Type SS3YJ7-42-C8		1/4	C8	2.1	0.24	0.51	2.3	0.31	0.59	
Body ported for external pilot	Type SS3YJ7-21R	SYJ7⊡2R	1/4	1/8	2.2	0.34	0.55	2.4	0.32	0.62	
	Type SS3YJ7-41R		1/4	1/8	2.2	0.35	0.59	2.4	0.36	0.66	
Base mounted	Type SS3YJ7-42R-01		1/4	1/8	2.0	0.27	0.47	2.2	0.32	0.56	
for external pilot	Type SS3YJ7-42R-C6	SYJ7⊡4R	1/4	C6	1.6	0.32	0.39	2.2	0.27	0.54	
	Type SS3YJ7-42R-C8		1/4	C8	2.1	0.24	0.51	2.3	0.31	0.59	

Note) Value at manifold base mounted, 2 position single operating

#### How to Order Manifold (Example)



#### How to Order Pilot Valve Assembly



Note) Since V111 is CE-compliant as standard, the suffix "-Q" is not necessary.

## *SYJ500/700* Series Made to Order

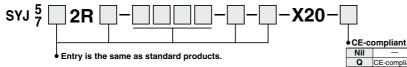
For detailed specifications, delivery and pricing, please contact SMC.

#### **Body Ported External Pilot**

Note) AC-type models that are CE-compliant have DIN terminals only.



#### How to Order Applicable solenoid valve series/SYJ5□2R, SYJ7□2R



#### **Operating Pressure Range MPa**

Operating pressure range	-100 kPa to 0.7
Pilot pressure range	0.15 to 0.7

#### Dimensions

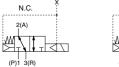
SYJ500: 8 mm longer in total length SYJ700: 8 mm longer in total length

#### **External Pilot Port**

Series	Port size
SYJ500, SYJ700	M5 x 0.8

#### Symbol

#### Body ported





CE-compliant
 Nil
 Q
 CE-compliant
 Note) AC-type models that
 are CE-compliant
 have DIN terminals
 only.

SYJ
VQZ
VP
VG
VP3