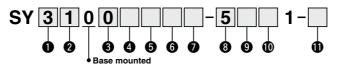
Connector Connecting Base SY3000/5000/7000 Series

How to Order Valves (With mounting screw)

Refer to page 404 for valve specifications.



Series

3	SY3000
5	SY5000
7	SY7000

2 Type of actuation

1	2-position	Single				
2	2-position	Double				
3		Closed center				
4	3-position	Exhaust center				
5		Pressure center				
A *1	4	N.C./N.C.				
B*1	4-position dual 3-port	N.O./N.O.				
C*1	uuai 3-poit	N.C./N.O.				

*1 Only the rubber seal type is available for the 4-position dual 3-port valve.

A Soal tuno

	x. 1, po
0	Rubber seal
1	Metal seal

A Pilot type

Nil

	<u> </u>
Nil	Internal pilot
R	External pilot

Back pressure check valve (Built-in valve type)

Н	Built-in
	he rubber seal type is available. A
	ald inetalled type is available if a book

- pressure check valve with a metal seal is required. Refer to page 625 for ordering examples. However, it is not recommended to use the built-in valve type and the manifold installed type at the same time because it will reduce the flow
- * The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000

6 Pilot valve option

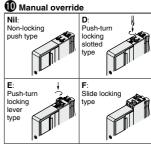
Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)
K*1	High pressure type (1.0 MPa)

*1 Only the metal seal type is available for the high pressure type.

Coil type

Nil	Standard						
Т	With power saving circuit (Continuous duty type						

- Be sure to select the power saving circuit type if the valve is to be continuously energized for long periods of time.
- * Be careful of the energizing time when the power saving circuit is selected. Refer to page 705 for details.



Refer to page 423 for the safety slide locking manual override.

Rated voltage

5	24 VDC
6	12 VDC

9 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification		
Nil	_	_			
R	-		Non-polar		
U	•				
S	_	•	Positive		
Z	•	_	common		
NS	ı		Negative		
NZ	•		common		

- * For the non-polar type, be careful of surge voltage intrusion. Refer to page 706 for details.
- Only "Z" and "NZ" types are available with a power saving circuit.

Type of mounting screw

Nil	Round head combination screw
В	Hexagon socket head cap screw
K	Round head combination screw (Drop prevention type)
Н	Hexagon socket head cap screw (Drop prevention type)

- * For "K" and "H," the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance, etc.
- When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 611 for base gasket and mounting screw part numbers.
- "B" and "H" cannot be selected for the individual SUP/EXH spacer assembly, interface regulator, or double check spacer assembly with residual pressure release valve.



SY3000/5000/7000 Series Valve Specifications

Valve Specifications

	Valve type			Rubber seal Metal seal			
Internal pilot operating pressure range A-position 0.2 to 0.7 0.1 to 0.7 (High pressure type: 0.1 to 1)	Fluid			Air			
MPa		2-position	single	0.15 to 0.7			
Non-locking push type		2-position double		0.1 to 0.7	0.1 to 0.7 (High pressure type: 0.1 to 1)		
		3-position		0.2 to 0.7			
External pilot operating pressure range [MPa]	[iiii u]	4-position dual 3-port valve		0.15 to 0.7	_		
Pilot exhaust type Power consumption [W] Power consumption [W] Power saving circuit Pilot pyresure type; 0.4 doi: 0.7 (High pressure type; 0.1 to 1) Pilot to 0.7 (High pressure type; 0.1 to 1) Pilot 0.7 (High pressure type; 0.1 to 0.7 (With indicator light; 0.1) Pilot 0.7 (High pressure type; 0.1 to 0.1 (High pressure type; 0.1 to 0		Operating	pressure range	-100 kPa to 0.7 (4-position: -100 kPa to 0.6)	-100 kPa to 0.7 (High pressure type: -100 kPa to 1)		
Main Pilot exhaust type Main Pilot exhaust type Main Pilot exhaust type Main Pilot valve ommon exhaust Main Pilot valve individual exhaust Main Pilot valve individual exhaust Pilot valve ommon exhaust Main Pilot valve individual exhaust Pilot valve ommon exhaust Main Pilot valve individual exhaust Pi	External pilot		2-position single				
Max. operating frequency [**Indext and fluid temperatures [**C]			2-position double	0.25 to 0.7 0.1 to 0.7	0.1 to 0.7 (High pressure type: 0.1 to 1)		
Ambient and fluid temper=turues [°C] Aposition dual 3-port valve Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or more (Min. 0.25) to 0.7 — Operating pressure + 0.1 or to 50 (No freezing)	[MPa]		3-position				
Max. operating frequency Hz 2-position single/double 4-position dual 3-port valve 5 20°1		90	4-position dual 3-port valve	Operating pressure + 0.1 or more (Min. 0.25) to 0.7	_		
Max. operating frequency Foliable Fol	Ambient and fluid tempera	tures [°C]		-10 to 50 (f	No freezing)		
Max. operating frequency [Hz] A-position dual 3-port valve 3-position 3 10°1		CVOOO	2-position single/double	5	20*1		
Max. operating frequency [Hz] A position B A pos				3	20		
Sy7000 4-position dual 3-port valve 3			<u> </u>	-	10*1		
Non-locking push type Push-turn locking slotted type Slide locking type Slide locking type Slide locking type Slide locking type Push-turn locking slotted type Slide locking type Slide locking type Main/Pilot valve common exhaust Main/Pilot valve individual exhaust Main/Pilot valve individual exhaust Push to required Single: Unrestricted Double/3-position: Main valve is horizontal Impact/Vibration resistance*2 [m/s²] Sloy3 Single: Unrestricted Double/3-position: Main valve is horizontal Push to resistance*2 Pish to sloy3 Sloy4 Sloy	[Hz]				10*1		
Manual override Non-locking push type Push-turn locking slotted type Slide locking type Slide lock		SY7000		3	_		
Push-turn locking slotted type Push-turn locking lever type Slide locking type			3-position	*			
Push-turn locking lever type Slide locking type Slide locking type					3.		
Push-turn locking lever type Remainder Fush-turn Side Internal pilot Main/Pilot valve common exhaust Main/Pilot valve individual exhaust	Manual override				<u> </u>		
Pilot exhaust type Internal pilot Main/Pilot valve common exhaust Main/Pilot valve individual exhaust	manual override				0 71		
External pilot External pilot Pilot valve individual exhaust							
Lubrication Not required	Pilot exhaust type						
Mounting orientation °2 Unrestricted Single: Unrestricted Double/3-position: Main valve is horizontal Impact/Vibration resistance °2 [m/s²] Impact/Vibration resistance °2 [m/s²] 150/30 Enclosure IP67 (Based on IEC60529)°3 Coil rated voltage [DC] 24, 12 V Allowable voltage fluctuation [V] ± 10% of rated voltage °4 Allowable voltage fluctuation [V] ± 10% of rated voltage °4 High pressure type, Quick response type 0.9 (With indicator light: 0.95) With power saving circuit Standard: 0.1°5 (With indicator light only) [Inrush 0.4, Holding 0.1], High pressure type: 0.4°5 (With indicator light only) [Inrush 0.95, Holding 0.4] Surge voltage suppressor Diode (Varistor for non-polar type)	,,	External pilot					
Double/3-position: Main valve is horizontal	Lubrication						
Enclosure	Mounting orientation*2						
Coil rated voltage [DC] 24, 12 V	Impact/Vibration resistance	e*2 [m/s²]		150/30			
Allowable voltage fluctuation [V]	Enclosure			IP67 (Based on IEC60529)*3			
Power consumption [W] Standard 0.35 (With indicator light: 0.4) High pressure type, Quick response type 0.9 (With indicator light: 0.95) With power saving circuit Standard: 0.1*5 (With indicator light only) [Inrush 0.4, Holding 0.1], High pressure type: 0.4*5 (With indicator light only) [Inrush 0.95, Holding 0.4] Surge voltage suppressor Diode (Varistor for non-polar type)	Coil rated voltage [DC]			24, 12 V			
Power consumption [W] High pressure type, Quick response type 0.9 (With indicator light: 0.95) With power saving circuit Standard: 0.1*5 (With indicator light only) [Inrush 0.4, Holding 0.1], High pressure type: 0.4*5 (With indicator light only) [Inrush 0.95, Holding 0.4] Surge voltage suppressor Diode (Varistor for non-polar type)	Allowable voltage fluctuation [V]			±10% of rated voltage*4			
Standard: 0.1*5 (With indicator light only) [Inrush 0.4, Holding 0.1], High pressure type: 0.4*5 (With indicator light only) [Inrush 0.95, Holding 0.4] Surge voltage suppressor Diode (Varistor for non-polar type)	Standard			0.35 (With indicator light: 0.4)			
Standard: 0.1*5 (With indicator light only) [Inrush 0.4, Holding 0.1], High pressure type: 0.4*5 (With indicator light only) [Inrush 0.95, Holding 0.4] Surge voltage suppressor Diode (Varistor for non-polar type)	Power consumption (W)	High pressure type, Quick response type		0.9 (With indicator light: 0.95)			
	r ower consumption [w]	With power saving circuit					
Indicator light	Surge voltage suppressor			Diode (Varistor for non-polar type)			
mulcator ngm	Indicator light			LED			

^{*1} Use below 5 Hz for with the power saving circuit.

*3 In the case of a metal seal, there are restrictions in the operating environment. Refer to the "Specific Product Precautions" on page 703.



^{*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. (Values at the initial period) Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. The 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) Refer to page 708 for the fixation of DIN rail mounting type manifold.

^{*4} Due to voltage drops by the internal circuit in S/Z type and T type (with power saving circuit), use within the allowable voltage fluctuation as follows. S/Z type {24 VDC: -7% to +10% T type {24 VDC: -8% to +10% L 2 VDC: -4% to +10% T type {12 VDC: -6% to +10% L 2 VDC: -6% to +10%

^{*5} For details, refer to page 705.

Valve Specifications **SY3000/5000/7000 Series**

Response Time

	s Seal type Mode			Response time [ms] (at 0.5 MPa)*1					
				Standard			Quick response type		
Series		Model	Type of actuation	Type of actuation Without light/ surge voltage		With light/surge voltage suppressor		With light/surge voltage suppressor	
				suppressor	S/Z type	R/U type	suppressor	S/Z type	R/U type
	Rubber seal	SY31□0	2-position single	15 or less	20 or less	15 or less	12 or less	15 or less	12 or less
	Metal seal	SY31□1	z-position single	15 or less	20 or less	15 or less	12 or less	15 or less	12 or less
	Rubber seal	SY32□0	2-position double	12 or less	15 or less	12 or less	10 or less	13 or less	10 or less
SY3000	Metal seal	SY32□1	z-position double	12 or less	15 or less	12 or less	10 or less	13 or less	10 or less
	Rubber seal	SY33/4/5□0	3-position	18 or less	22 or less	18 or less	14 or less	18 or less	14 or less
	Metal seal	SY33/4/5□1	3-position	18 or less	22 or less	18 or less	14 or less	18 or less	14 or less
	Rubber seal	SY3A/B/C□0	4-position dual 3-port valve	18 or less	22 or less	18 or less	15 or less	19 or less	15 or less
	Rubber seal	SY51□0	2-position single	24 or less	31 or less	24 or less	18 or less	25 or less	18 or less
	Metal seal	SY51□1		24 or less	31 or less	24 or less	18 or less	25 or less	18 or less
	Rubber seal	SY52□0	2-position double	12 or less	15 or less	12 or less	10 or less	13 or less	10 or less
SY5000	Metal seal	SY52□1		12 or less	15 or less	12 or less	10 or less	13 or less	10 or less
	Rubber seal	SY53/4/5□0	3-position	30 or less	34 or less	30 or less	24 or less	28 or less	24 or less
	Metal seal	SY53/4/5□1		28 or less	30 or less	28 or less	23 or less	25 or less	23 or less
	Rubber seal	SY5A/B/C□0	4-position dual 3-port valve	35 or less	42 or less	35 or less	28 or less	35 or less	28 or less
	Rubber seal	SY71□0	2-position single	47 or less	58 or less	53 or less	42 or less	52 or less	44 or less
	Metal seal	SY71□1	2-position single	39 or less	48 or less	39 or less	34 or less	43 or less	34 or less
	Rubber seal	SY72□0	2-position double	18 or less	19 or less	19 or less	18 or less	17 or less	17 or less
SY7000	Metal seal	SY72□1	2-position double	17 or less	17 or less	16 or less	16 or less	16 or less	16 or less
	Rubber seal	SY73/4/5□0	3-position	52 or less	54 or less	47 or less	42 or less	46 or less	40 or less
	Metal seal	SY73/4/5□1	3-position	38 or less	45 or less	39 or less	33 or less	38 or less	34 or less
	Rubber seal	SY7A/B/C□0	4-position dual 3-port valve	52 or less	60 or less	54 or less	49 or less	53 or less	48 or less

^{*1} Based on dynamic performance test, JIS B 8419-2010 (Coil temperature: 20°C, at rated voltage)
Since the response time of the external pilot type of the 4-position dual 3-port valve differs from the above table, please contact SMC.



Valve Weight

SY3000 series

Valve model	Seal type	Type of actuation		Weight [g]
		2-position	Single	74
	SY3□00 Rubber seal	2-position	Double	83
01/0-00		3-position	Closed center	
31300			Exhaust center	87
			Pressure center	
		4-position	Dual 3-port valve	83

Valve model	Seal	Typ	e of actuation	Port size	Weight
Valve model	type	Тур		4, 2 (A, B)	[g]
		2-position	Single		74
SY3□30-M5		2 position	Double		83
			Closed center	M5 x 0.8	
		3-position	Exhaust center	INIO X 0.0	87
			Pressure center		
		4-position	Dual 3-port valve		83
		2-position	Single		82
		z-position	Double	C2	91
SY3□30-C2			Closed center	ø2 One-touch	
313 30-02		3-position	Exhaust center	fitting	95
			Pressure center	illing	
		4-position	Dual 3-port valve		91
		2-position	Single		85
	Rubber	z-position	Double	C3	94
SY3□30-C3		3-position	Closed center	ø3.2 One-touch	98
313 30-03	seal		Exhaust center	fitting	
			Pressure center		
		4-position	Dual 3-port valve		94
		2-position	Single		77
		z-position	Double	C4	86
SY3□30-C4			Closed center	ø4 One-touch	
313 30-04		3-position	Exhaust center		90
			Pressure center	fitting	
		4-position	Dual 3-port valve		86
		2-position	Single		80
		z-position	Double	C6	89
SY3□30-C6			Closed center	ø6 One-touch	
313 30-00		3-position	Exhaust center		93
			Pressure center	fitting	
		4-position	Dual 3-port valve		89

Valve model	Seal type	Type of actuation		Weight [g]
	2-position	Single	76	
		2-position	Double	86
SY3□01	Metal seal	3-position	Closed center	
			Exhaust center	90
			Pressure center	1

Valve model	Seal	Type	of actuation	Port size	Weight
	type	71.		4, 2 (A, B)	[g]
		2-position	Single		76
		2 position	Double		86
SY3□31-M5			Closed center	M5 x 0.8	
		3-position	Exhaust center		90
			Pressure center Single Double Closed center Exhaust center Pressure center Sition Single		
		2-position	Single		84
		z-position	Double	C2	94
SY3 31-C2			Closed center	ø2 One-touch	
		3-position	Exhaust center	fitting	98
		'	Pressure center	1 ,	
		0:4:	Single		87
	Metal	2-position	Double	C3	97
SY3□31-C3	seal		Closed center	ø3.2 One-touch	
		3-position Ext	Exhaust center	fitting	101
			Pressure center	1	
		0:4:	Single		79
		2-position	Double	C4	89
SY3□31-C4			Closed center	ø4 One-touch	
		3-position	Exhaust center	fitting	93
		'	Pressure center]	
		0	Single		82
SY3□31-C6		2-position	Double	C6	92
			Closed center	ø6 One-touch	
		3-position	Exhaust center	fitting	96
		l '	Pressure center	1	

SY5000 series

Valve model	Seal type	Type of actuation		Weight [g]
SY5□00	Rubber seal	2-position	Single	82
			Double	90
		3-position	Closed center	
			Exhaust center	100
			Pressure center	
		4-position	Dual 3-port valve	90

Valve model	Seal	Tyro	e of actuation	Port size	Weight
valve illouel	type	Тур	e oi actuation	4, 2 (A, B)	[g]
		2-position	Single		102
SY5□30-01		z-position	Double		110
			Closed center	1/8	
		3-position	Exhaust center	1/0	120
			Pressure center		
		4-position	Dual 3-port valve		110
		2-position	Single		115
		2-position	Double	C4	123
SY5□30-C4			Closed center	ø4 One-touch	
313030-04		3-position	Exhaust center	64 One-touch	133
		"	Pressure center	illing	
	Rubber	4-position	Dual 3-port valve		123
	seal	0:	Single		110
		2-position	Double	C6	118
SY5□30-C6			Closed center		
313030-00		3-position	Exhaust center	ø6 One-touch	128
		"	Pressure center	fitting	
		4-position	Dual 3-port valve		118
		2 position	Single		99
SY5□30-C8		2-position	Double	C8	107
			Closed center		
		3-position	Exhaust center	ø8 One-touch	117
		'	Pressure center	fitting	
		4-position	Dual 3-port valve		107

Valve model	Seal type	Type of actuation		Type of actuation We		Weight [g]
SY5□01 Me		2-position	Single	91		
	Metal seal		Double	101		
		3-position	Closed center			
			Exhaust center	111		
			Pressure center			

Valve model	Seal	Type of actuation		Port size	Weight
valve model	type			4, 2 (A, B)	[g]
		2-position	Single		111
		2-position	Double		121
SY5□31-01			Closed center	1/8	
		3-position	Exhaust center		131
			Pressure center		
		2-position	Single		124
		2-position	Double	C4	134
SY5□31-C4		3-position Metal	Closed center	ø4 One-touch	
			Exhaust center	fitting	144
	Metal		Pressure center		
	seal 2-position	2 position	Single		120
		2-position	Double	C6	130
SY5□31-C6			Closed center	ø6 One-touch	
		3-position	Exhaust center	fitting	140
			Pressure center		
	1	2-position	Single		108
		z-position	Double	C8	118
SY5□31-C8			Closed center	ø8 One-touch	
		3-position	Exhaust center	fitting	128
			Pressure center	_	



Valve Specifications **SY3000/5000/7000 Series**

Valve Weight

SY7000 series

Valve model	Seal type	Type of actuation		Weight [g]
SY7□00 Rubber sea		2-position	Single	110
			Double	118
	Rubber seal	3-position	Closed center	
31700			Exhaust center	133
			Pressure center	
		4-position	Dual 3-port valve	114

Valve model	Seal	-		Port size	Weight
valve model	type	l i ypi	e of actuation	4, 2 (A, B)	[g]
		0:	Single		125
		2-position	Double		133
SY7□30-02			Closed center	1/4	
317 _ 30-02		3-position	Exhaust center	1/4	147
			Pressure center		
		4-position	Dual 3-port valve		129
		0:	Single		163
		2-position	Double	C6	171
SY7□30-C6			Closed center	ø6 One-touch	
317 - 30-00		3-position	Exhaust center		186
			Pressure center	fitting	
		4-position	Dual 3-port valve		167
		2-position	Single		151
	Rubber		Double	C8	159
SY7□30-C8			Closed center	ø8 One-touch	
317 - 30-00	seal	3-position	Exhaust center	fitting	174
			Pressure center		
		4-position	Dual 3-port valve		155
		2-position	Single		136
		z-position	Double	C10	144
SY7 30-C10			Closed center	ø10 One-touch	
317-30-010		3-position	Exhaust center	fitting	159
			Pressure center	illing	
		4-position	Dual 3-port valve		140
		2-position	Single		146
		2-position	Double	C12	154
SY7□30-C12			Closed center	ø12 One-touch	
317-30-012		3-position	Exhaust center	fitting	169
		' ' '	Pressure center	many	
		4-position	Dual 3-port valve		150

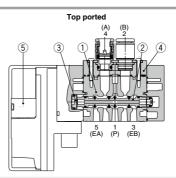
Valve model	Seal type	Type of actuation		Weight [g]
SY7□01 Metal seal	2-position	Single	122	
		z-position	Double	133
	Metal seal	3-position	Closed center	
			Exhaust center	150
			Pressure center	

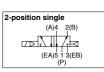
Valve model	Seal	Typo	of actuation	Port size	Weight
valve illouel	type	Type of actuation		4, 2 (A, B)	
		2-position	Single		136
		2-position	Double		148
SY7□31-02			Closed center	1/4	
		3-position	Exhaust center		164
			Pressure center		
		2-position	Single		174
		2-position	Double	C6	186
SY7□31-C6			Closed center	ø6 One-touch	
		3-position	Exhaust center	fitting	202
			Pressure center	1	
		0:	Single		162
	Metal	2-position	Double	C8	174
SY7□31-C8	seal	3-position	Closed center	ø8 One-touch	
			Exhaust center	fitting	190
			Pressure center	1	
		0:	Single		148
		2-position	Double	C10	159
SY7 31-C10			Closed center	ø10 One-touch	
		3-position	Exhaust center	fitting	176
			Pressure center	1	
		2 position	Single		157
		2-position	Double	C12	169
SY7□31-C12			Closed center	ø12 One-touch	
		3-position	Exhaust center	fitting	185
		'	Pressure center	1 ,	

Valve Construction

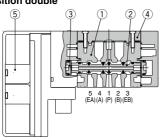
Rubber Seal

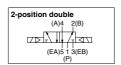
2-position single



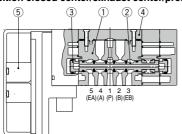


2-position double

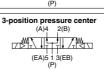




3-position closed center/exhaust center/pressure center







3-position exhaust center				
(A)4	4 2(B)			
<u> </u>	7 M			
(EA)5 1 3(EB)				

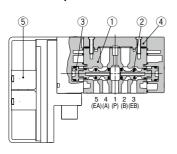
Component Parts

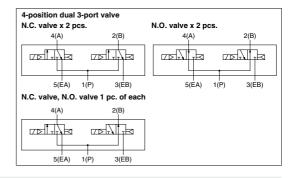
COII	omponent Parts			
No.	Description	Material	Note	
1	Body	SY3000: Zinc die-casted SY5000/SY7000: Aluminum die-casted		
2	Spool valve	Special resin/HNBR (3-position valve: \ Aluminum/HNBR		
3	Piston	Resin		
	Body cover assembly	Resin	For the side/bottom-ported type	
4	Port block assembly	SY3000: Resin SY5000: Zinc die-casted (Thread piping) SY5000: Resin (Fitting) SY7000: Aluminum die-casted	For the top-ported type	
5	Pilot valve assembly	_	Refer to page 412.	

Valve Construction SY3000/5000/7000 Series

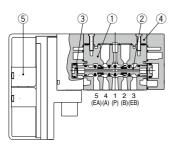
Rubber Seal

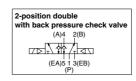
4-position dual 3-port valve





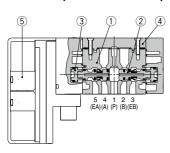
2-position double with back pressure check valve (Built-in valve type)

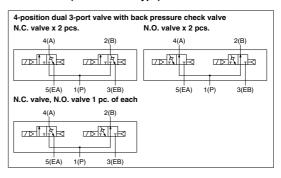




st The built-in valve type back pressure check valve is not available for the SY7000.

4-position dual 3-port valve with back pressure check valve (Built-in valve type)



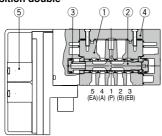


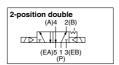
* The built-in valve type back pressure check valve is not available for the SY7000.

Metal Seal

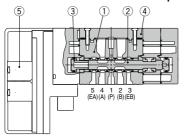
2-position single 5 3 1 2 4 5 3 1 2 4 2 2-position single (A) 2(B) (EA) (P) (EB) (EA) (P) (EB) (EA) 5 1 3(EB) (EA) 5 1 3(EB)

2-position double

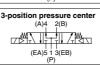




3-position closed center/exhaust center/pressure center







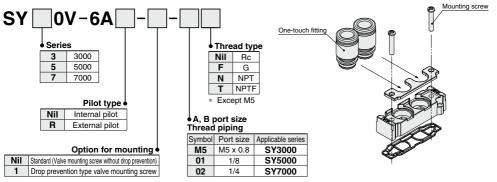


Component Parts

No.	Description	Material	Note
1	Body	SY3000: Zinc die-casted SY5000/7000: Aluminum die-casted	
2	Spool, Sleeve	Stainless steel/HNBR	
3	Piston	Resin	
	Body cover assembly	Resin	For the side/bottom-ported type
4	Port block assembly	SY3000: Resin SY5000: Zinc die-casted (Thread piping) SY5000: Resin (Fitting) SY7000: Aluminum die-casted	For the top-ported type
5	Pilot valve assembly	_	Refer to page 412.

Valve Replacement Parts

How to Order Port Block Assembly



Metric size (One-touch fitting)

wetric size (One-toden nitting)					
Symbol Port size	Dout oine	Applicable series			
	SY3000	SY5000	SY7000		
C2	ø2	•	_	_	
C3	ø3.2	•	_	_	
C4	ø4	•	•	_	
C6	ø6	•	•	•	
C8	ø8	_	•	•	
C10	ø10	_	_	•	
C12	ø12	_	_	•	

Inch size (One-touch fitting)

Symbol	Port size	Applicable series			
Symbol Port size		SY3000	SY5000	SY7000	
N1	ø1/8"	•	_	_	
N3	ø5/32"	•	•		
N7	ø1/4"	•	•	•	
N9	ø5/16"	_	•	•	
N11	ø3/8"	_	_	•	

Possible to replace only the One-touch fitting

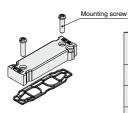
Port size		SY3000	SY5000	SY7000
	ø2	VVQ1000-50A-C2	_	_
	ø3.2	VVQ1000-50A-C3	_	_
	ø4	VVQ1000-50A-C4	VVQ1000-51A-C4	_
Metric size	ø6	VVQ1000-50A-C6	VVQ1000-51A-C6	VVQ2000-51A-C6
	ø8	_	VVQ1000-51A-C8	VVQ2000-51A-C8
	ø10	_	_	VVQ2000-51A-C10
	ø12	_	_	KQ2H12-17-X224
Inch size	ø1/8"	VVQ1000-50A-N1	_	_
	ø5/32"	VVQ1000-50A-N3	VVQ1000-51A-N3	_
	ø1/4"	VVQ1000-50A-N7	VVQ1000-51A-N7	VVQ2000-51A-N7
	ø5/16"	_	VVQ1000-51A-N9	VVQ2000-51A-N9
	ø3/8"	_	_	VVQ2000-51A-N11

Refer to pages 707 and 708 for how to replace the port block assembly, One-touch fitting, and body cover assembly.



Body Cover Assembly

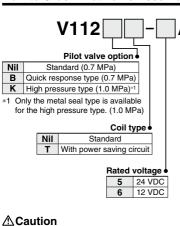
* Used when the top-ported type is changed to the side or bottom-ported type



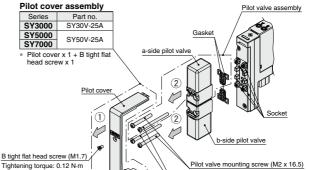
Series		Part no.		
		Standard (Valve mounting screw without drop prevention)	Drop prevention type valve mounting screw	
SY3000	Internal pilot	SY30V-16A	SY30V-16A-1	
513000	External pilot	SY30V-16AR	SY30V-16AR-1	
SY5000	Internal pilot	SY50V-16A	SY50V-16A-1	
313000	External pilot	SY50V-16AR	SY50V-16AR-1	
SY7000	Internal pilot	SY70V-16A	SY70V-16A-1	
	External pilot	SY70V-16AR	SY70V-16AR-1	
7				

^{*} The part number is not indicated on the product.

How to Order Pilot Valve Assembly (With a gasket and two mounting screws)



- The coil specification and voltage (including light/surge voltage suppressor) cannot be changed by changing the pilot valve assembly.
- When selecting the coil type with power saving circuit, it is not possible to change to high pressure/power saving circuit type.



How to replace pilot valves

- \bullet Loosen B tight flat head screw to remove the pilot cover in the direction indicated by the arrow 1.
- · Remove the pilot valve mounting screws.
- Remove the pilot valve in the direction indicated by the arrow 2).
- * Assemble by following the removal procedure in reverse.
- * Ensure the gasket is mounted, and take care not to bend the socket.
- Be noted for mounting that there are two types of lengths for the pilot valve mounting screws.



Tightening torque: 0.15 N·m

Tightening torque: 0.15 N·m

Pilot valve mounting screw (M2 x 25)