EX250 Serial Wiring with Input/Output Unit Series SV

Refer to the SMC website for detailed information on models that meet world standards.

How to Order



Symbol	A, B port	P, E port	Applicable series	Symbol	A, B port	P, E port	Applicable series
C3	ø3.2 One-touch fitting	ø8		N1	ø1/8" One-touch fitting	ø5/16"	
C4	ø4 One-touch fitting	One-touch	SV1000	N3	ø5/32" One-touch fitting	One-touch fitting	SV1000
C6	ø6 One-touch fitting	fitting		N7	ø1/4" One-touch fitting		
C4	ø4 One-touch fitting	ø10	SV2000	N3	ø5/32" One-touch fitting	ø3/8"	SV2000
C6	ø6 One-touch fitting	One-touch		N7	ø1/4" One-touch fitting	One-touch	
C8	ø8 One-touch fitting	fitting		N9	ø5/16" One-touch fitting	fitting	
C6	ø6 One-touch fitting	ø12	SV3000	N7	ø1/4" One-touch fitting	ø3/8"	SV3000
C8	ø8 One-touch fitting	One-touch		N9	ø5/16" One-touch fitting	One-touch	
C10	ø10 One-touch fitting	fitting		N11	ø3/8" One-touch fitting	fitting	
М	A. B ports mixed			М	A B ports mixed		

* In case of mixed specification (M), indicate separately on a manifold specification sheet.
* The port size of X and PE ports of the external pilot specification (R, RS) is ø4 (metric) or ø5/32" (inch) for Series SV1000 and 2000, and ø6 (metric) or ø1/4" (inch) for Series SV3000.



How to Order Valve Manifold Assembly (Example)

Example (SV1000)

Manifold

SS5V1-W10S1QW11ND-05B-C6 (1 set)



How to Order Solenoid Valves







AS-i

1 power supply system





2 power supply system





▲ Specific Product Precautions

Be sure to read before handling. Please consult SMC for applications outside the specifications.

When one AS-i power supply system is used

A Caution

		TCW	SDTC	TDW	SDTD
Pow	Yower supply voltage Supplied from AS-i circuit, 26.5 to 31.6 VDC ^N				
Curre	ent consumption Note 2)	consumption Note 2) Max. 100 mA Max.65 mA			
out	Number of inputs	8		4	
out/outp ecificati	Number of outputs	8	3	4	
	Valve supply voltage	24 VDC ± 10%			
n spe	Possible supply current Note 3)	Max. 240 mA		Max. 120 mA	

Note 1) For communication power supply, use a power supply dedicated to AS-i. For details, please refer to instruction manuals provided by the respective manufacturers. Note 2) Current consumption of SI unit internal power supply

Note 2) Current consumption of Si unit internal power supply Note 3) The AS-i circuit provides current to the internal parts of the SI unit and all connected equipment. Since there is a limit on the possible supply current to all connected equipment, select the equipment connected to the input block, such as sensors and valves, to stay within

the possible supply current.

Example) When SDTD type is used

Valve: VQC1100NY – 5 (low wattage type of 0.5 W) \times 4 pcs.

0.5 [W] \div 24 [V] \times 4 [pcs.] = 84 [mA] (4 outputs simultaneously ON)

The maximum possible supply current of SDTD is 120 mA. Therefore, the possible supply current to the sensor connected to the input block is

120 [mA] - 84 [mA] = 36 [mA].

Use of low wattage type valves by minimizing the maximum number of simultaneous outputs, and low current consumption sensors (2 wire sensor, etc.) connected to the input block is recommended.

Maximum number of AS-i compatible input blocks							
		SI unit specification	Input block type		Maximum number of input blocks		
SV -	TAW	AS-i, 8 in/8 out, 31 slave modes, 2 power supply systems	1	M12: 2 inputs	4 stations		
			2	M12: 4 inputs	2 stations		
			3	M8: 4 inputs	2 stations		
	TBW	AS-i, 4 in/4 out, 31 slave modes, 2 power supply systems	1	M12: 2 inputs	2 stations		
			2	M12: 4 inputs	1 station		
			3	M8: 4 inputs	1 station		
	тсw			M12: 2 inputs	4 stations		
		AS-i, 8 in/8 out, 31 slave modes, 1 power supply system	2	M12: 4 inputs	2 stations		
			3	M8: 4 inputs	2 stations		
	TDW	AS-i, 4 in/4 out, 31 slave modes, 1 power supply system	1	M12: 2 inputs	2 stations		
			2	M12: 4 inputs	1 station		
			3	M8: 4 inputs	1 station		
VQC -	SDTA	AS-i, 8 in/8 out, 31 slave modes, 2 power supply systems	1	M12: 2 inputs	4 stations		
			2	M12: 4 inputs	2 stations		
			3	M8: 4 inputs	2 stations		
	SDTB	AS-i, 4 in/4 out, 31 slave modes, 2 power supply systems	1	M12: 2 inputs	2 stations		
			2	M12: 4 inputs	1 station		
			3	M8: 4 inputs	1 station		
	SDTC	AS-i, 8 in/8 out, 31 slave modes, 1 power supply system	1	M12: 2 inputs	4 stations		
			2	M12: 4 inputs	2 stations		
			3	M8: 4 inputs	2 stations		
	SDTD	AS-i, 4 in/4 out, 31 slave modes, 1 power supply system	1	M12: 2 inputs	2 stations		
			2	M12: 4 inputs	1 station		
			3	M8: 4 inputs	1 station		

