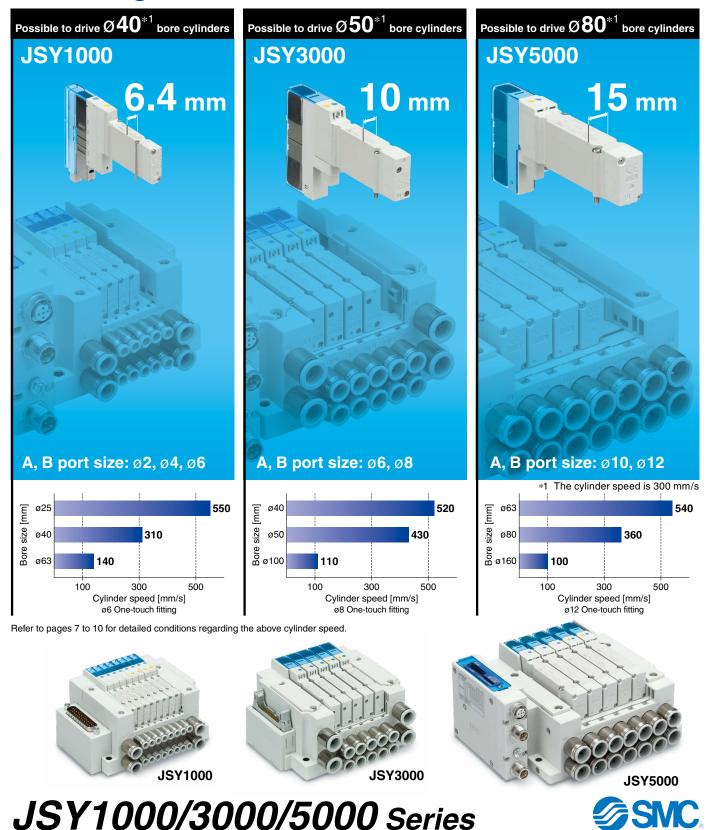
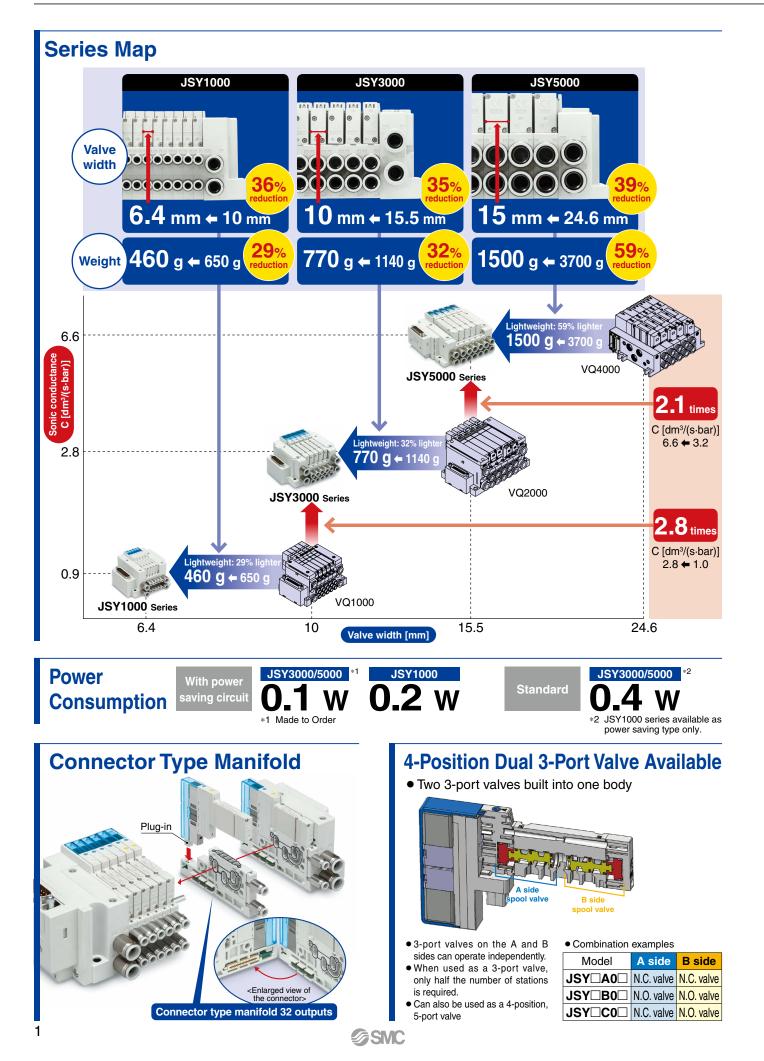
Plug-in

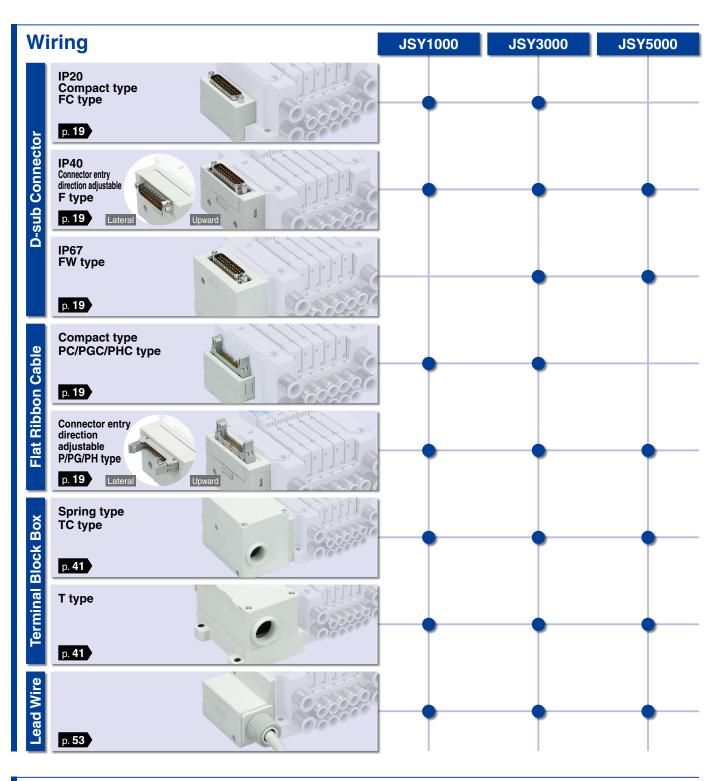
Compact 5-Port Solenoid Valve New

Size reduction possible thanks to a flow increase $f \in \mathbb{R}$ Bolds This leads to space saving, weight reduction, and a large flow rate.



CAT.ES11-110A

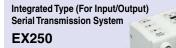




Serial Transmission Compatible Protocols

0





p. 71

EtherNet/I™ compatible wireless master PROFINET compatible wireless master PROFIBUS DP CC-Link EtherNet/IP™ CANopen AS-Interface

DeviceNet™

PROFIBUS DP

CC-Link

EtherNet/IP™

EtherCAT

PROFINET

Integrated Type (For Output) Serial Transmission System EX260



DeviceNet™ PROFIBUS DP CC-Link EtherNet/IP™ EtherCAT PROFINET Ethernet POWERLINK IO-Link

Integrated Type (For Output) Serial Transmission System

EX120

p. **83**

SMC

p. 77

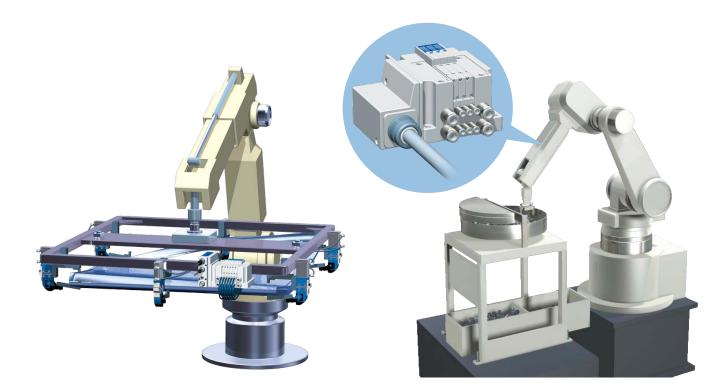
DeviceNet™ CC-Link OMRON CompoBus/S CompoNet™

Series Variations

	Sonic cond C [dm ³ /(s						4((A), 2(Port s				
	$\begin{cases} 4/2 \rightarrow 4\\ (A/B \rightarrow E) \end{cases}$ $4(A), 2(B)$ port		Type of	Type of actuation			ø4	ø6	ø8		ø12	1(P), 3/5(E) port	
000	ø4	0.87	2-position single (A)4 2(B) (A)4 2(B) (C) (A)4 2(B) (C) (C) (C) (C) (C) (C) (C) (C	3-position pressure center (A)4 2(B) (A)4 2(B) (A)4 2(B) (EA)5 13(EB) (P)		•	•					~0	
JSY1000	ø6	0.91	2-position double (A)4 2(B) (A)4 2(B) (EA)513(EB) (P)	4-position dual 3-port valve N.C. valve x 2 pcs. 4(A) 2(B)	04.1/000			•				ø8	
JSY3000	ø8	2.77	3-position closed center (A)4 2(B) (EA)5 13(EB) (P)	5(EA) 1(P) 3(EB) N.O. valve x 2 pcs. 4(A) 2(B) (CDT+1+2 CDT+1+3 5(EA) 1(P) 3(EB)	24 VDC				•			ø10	
JSY5000	ø12	6.59	3-position exhaust center (A)4 2(B) ∠→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→	N.C. valve, N.O. valve 1 pc. of each 4(A) 2(B) CDTTTCCTTCCTTCCTTCC 5(EA) 1(P) 3(EB)						•	•	ø12	

● Standard ○ Option ▲ Made to Order

Application Examples



	Wir	ring				ifold Opt	tions				Va	lve Optic		
Pitch width [mm]	Positive common to	Negative common	Blanking plate	Individual SUP spacer	Individual EXH spacer	SUP/EXH blocking disk	Label for blocking disk	Silencer (One- touch fitting connection type)	Built-in silencer	Vacuum/Low pressure specification	Different pressures	Reverse pressure	Mixed fitting sizes	Enclosure IP67 ^{*1}
6.5														
9		•	0	0	0	0	0	0	•		0		•	_
11.5	-		p. 111	p. 111	p. 111	p. 112	p. 112	p. 112		External pilot	Individual SUP	External pilot		•
16														•

*1 Refer to the "Manifold Specifications" on pages 15 and 16 for details on IP67.

tube from port A and B.

α1

For JSY3000

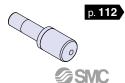
For JSY1000

Manifold Options Individual SUP spacer p. 111 Individual EXH spacer p. **111** When valve exhaust affects other When the same manifold is used for different pressures, an individual stations due to the circuit configuration, 2-position single valve 4 (A) -4 (A) -2 (B) 2-position single valve SUP spacer is used as a supply port this spacer is used for individual valve Individual EXH exhaust. for different pressures. Individual SUP -3/5 (E') spacer assembly 1 (P') spacer assembly 5 (EA) 1 (P) 3 (EB) 5 (EA) 1 (P) 3 (EB) **Circuit diagram** Circuit diagram (Mounting example of a 2-position single valve) (Mounting example of a 2-position single valve) Blanking plate (A) (B) Label for blocking disk p. 111 p. **112** 2 Used when valve additions are Label to indicate and confirm on the T expected or for maintenance. manifold where the SUP/EXH blocking disk Т Т Т assemblies were inserted. (3 labels of each) 5 1 3 SUP/EXH (EA) (P) (EB) blocking disk labe Circuit diagram 3/5 3/5 /1 1 2 В /3/5 3/5 SUP/EXH blocking disk p. 112 m (For connector type manifold, Type 10) SUP EXH blocking blocking [SUP blocking disk] disk labe disk label By inserting the SUP blocking disk in the pressure supply passage ⁄1∐1\ of the manifold valve, can provide two different high and low 3/5 73/5||3/5| pressure in one manifold. [EXH blocking disk] **Tube Releasing Tool** By inserting the EXH blocking disk in the exhaust passage of the This tool is used for removing the p. **109**

manifold valve, can separate the exhaust from the valve so it does not affect the other valves. It can also be used for the manifold for the positive pressure and vacuum mixed manifold. (2 pieces are required to block EA/EB both sides of the EXH.)

Silencer (One-touch fitting connection type)

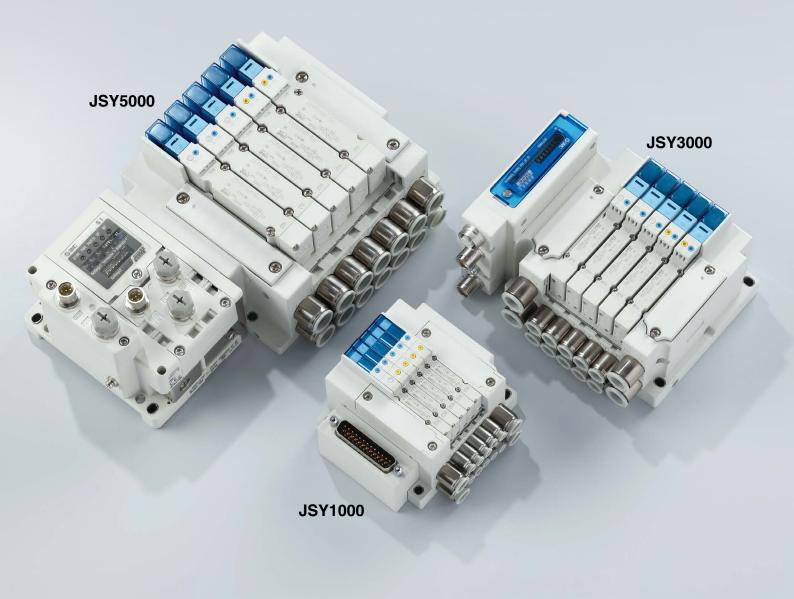
This silencer can be mounted to the 3/5 (E: EXH) port of the manifold in one step.





ø12

For JSY5000

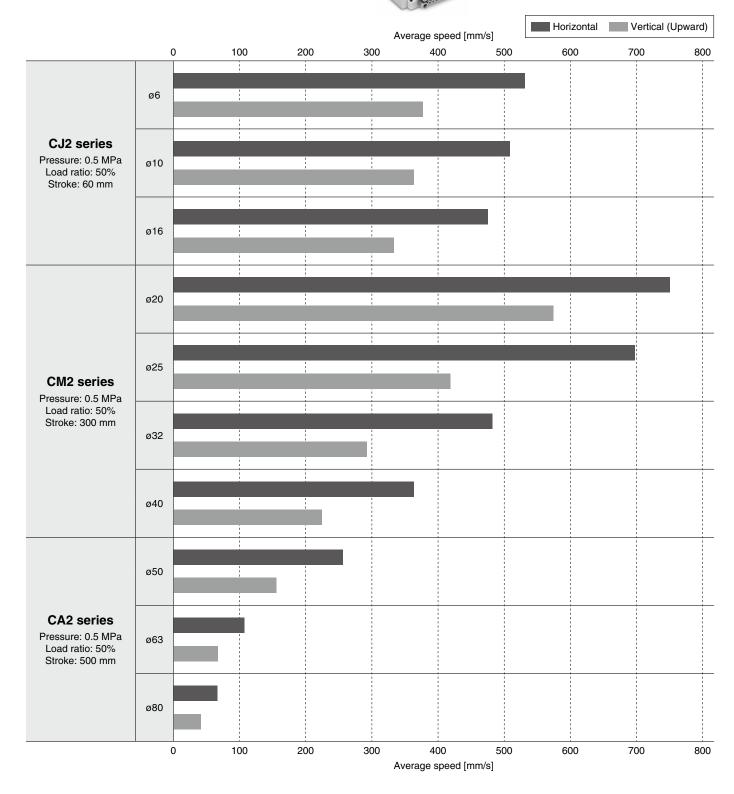


CONTENTS

Valve Specifications p. 11 Manifold Specifications p. 15 Valve Construction p. 12 Manifold Weight p. 15 Valve Construction p. 13 Connector Fint Ribbon Cable [IP20/40/67] p. 13 Valve Replacement Parts Pilot Valve p. 13 Connector (IP40Connector Enry Declan Adjustate); P p. 13 Image: Connector Part Pilot Valve p. 13 Daub connector Desub Connector (IP40Connector Enry Declan Adjustate); P p. 23 Image: Connector Pilot Valve p. 23 Daub connector Desub Connector Pilot, Paio Cable Concector p. 23 Image: Concector Pilot Valve p. 23 Terminal block box Desub Concector Pilot, Pilot Valve p. 24 Pilot Valve p. 24 Exercised Wing Specifications Desub Concector Pilot, Pilot Valve p. 24 Pilot Valve p. 24 Exercised Wing Specifications Desub Concector Pilot, Pilot Valve p. 24 Pilot Valve p. 24 Exercised Wing Specifications Desub Concector Pilot Ving Specifications p. 24 Pilot Valve p. 24 Exercised Vine (Pilot Ving (Pic For Input/Output) Serial Transmission System p. 71 Pilot Valve p. 26 Exercised Vine (Pilot Ving (Pi	Optimum Actuation Size C			Plug-in Connector Connecting Base		
Valve Weight p. 12 Manifold Flow Rate Characteristics p. 15 geogram Valve Construction p. 13 Connector Wiring Layout p. 17 geogram Valve Replacement Parts: Pilot Valve p. 14 Deub Connector (Pilot Valve) p. 14 geogram geogram Daub Connector (Pilot Valve) p. 14 Deub Connector (Pilot Valve) p. 21 geogram geogra						
Valve Construction p. 13 Connector Wring Layout p. 17 Valve Replacement Parts: Pilot Valve p. 14 p. 14 p. 14 Deab connector Deab Connector (RPG) previous Adjustable); F p. 25 p. 26 Deab connector Deab Connector (RPG) previous Adjustable); F p. 26 p. 26 Deab connector Deab Connector (RPG) previous Adjustable); F p. 26 p. 26 Deab connector (RPG) previous Adjustable); F p. 26 p. 26 p. 26 Deab connector (RPG) previous Adjustable); FPG/PH p. 30 p. 37 Terminal block box Data Connector (RPG) previous Adjustable); PPG/PH p. 30 p. 37 Terminal block box Data Connector (RPG) previous Adjustable); PPG/PH p. 30 p. 37 Terminal block box Data Connector (RPG) previous Adjustable); PPG/PH p. 30 p. 37 Terminal block box Data Connector (RPG) p. 51 p. 51 p. 51 Dimensions Extored Wire p. 53 p. 55 p. 56 p. 56 p. 56 Extored Wire Dimensions p. 56 p						Ĕ
Valve Construction p. 13 Connector Wring Layout p. 17 Valve Replacement Parts: Pilot Valve p. 14 p. 14 p. 14 Deab connector Deab Connector (RPG) previous Adjustable); F p. 25 p. 26 Deab connector Deab Connector (RPG) previous Adjustable); F p. 26 p. 26 Deab connector Deab Connector (RPG) previous Adjustable); F p. 26 p. 26 Deab connector (RPG) previous Adjustable); F p. 26 p. 26 p. 26 Deab connector (RPG) previous Adjustable); FPG/PH p. 30 p. 37 Terminal block box Data Connector (RPG) previous Adjustable); PPG/PH p. 30 p. 37 Terminal block box Data Connector (RPG) previous Adjustable); PPG/PH p. 30 p. 37 Terminal block box Data Connector (RPG) previous Adjustable); PPG/PH p. 30 p. 37 Terminal block box Data Connector (RPG) p. 51 p. 51 p. 51 Dimensions Extored Wire p. 53 p. 55 p. 56 p. 56 p. 56 Extored Wire Dimensions p. 56 p						Cha
D-sub Connector, Flat Hibbon Cable [IP/24/dbf2] Public Connector, Flat Hibbon Cable [IP/24/dbf2] Public Connector, Flat Hibbon Cable [IP/24/dbf2] D-sub Connector, Flat Hibbon Cable [IP/24/Connector Entry Direction Adjustable); F P.21 Public Connector, Flat Hibbon Cable [IP/24/dbf2] D-sub Connector, Flat Hibbon Cable [IP/24/Connector Entry Direction Adjustable); PP/24PH Public Connector, Flat Hibbon Cable [IP/24/dbf2] Public Connector, Flat Hibbon Cable [IP/24/dbf2] Flat Hibbon cable [IP/24/dbf2] Public Connector, Cable [IP/24/dbf2] Public Connector, Public IP/24/dbf2] Public Connector, Public IP/24/dbf2] Flat Hibbon Cable [IP/24/dbf2] Public Connector, Public IP/24/dbf2] Public IP/24/dbf2] Public IP/24/dbf2] Terminal block box Public Informations Public Informations Public IP/24/dbf2] Public IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			•	Connector Wiring Layout	р. 17	L
D-sub Connector, Flat Hibbon Cable [IP24/dbt/] memory of the second se	Valve Replacement Parts:	: Pilot Valve	р. 14			alve
Daub connector Daub Connector (IP40/Connector Entry Direction Adjustable); F P. 221 Daub Connector (IP40/Connector Entry Direction Adjustable); F P. 221 Daub Connector (IP40/Connector Entry Direction Adjustable); F P. 221 Daub Connector (IP40/Connector Entry Direction Adjustable); P/G/PH P. 337 Flat ribbon Cable PEdications: Ela ribbon Cable PEdications: Ela ribbon Cable P. 347 P. 347 Formial block box Spring Type Terminal Block Box P. 443 Terminal Block Box P. 443 Terminal block box Spring Type Terminal Block Box P. 443 Terminal Block Box Connector/Electrical Wring Specifications P. 545 Ela drive P. 545 Dimensions P. 547 Dimensions P. 545 Ela drive Connector/Electrical Wring Specifications P. 547 Dimensions P. 547 Dimensions P. 547 Dimensions P. 547 Dimensions EX200 Lead Wire P. 647 P. 547 Dimensions EX200 Coder Dimensions P. 547 Dimensions P. 548 EX200 EX200 Coder P. 747 P. 747 P. 747 Dimensions P. 747 Dimensions P. 747 P. 747 Dimensions P. 749 Dimensions P. 747 <td< td=""><td>a HAAR .</td><td></td><td></td><td></td><td></td><td>></td></td<>	a HAAR .					>
D-aub connector D-aub Connector (FP2); FW P.257 File File D-aub Connector (FP2); FW P.350 File File File File File File File File File File File File Connection File File File File File File File Connection File File File <td></td> <td></td> <td></td> <td></td> <td>p. 15</td> <td>ase</td>					p. 15	ase
First ribbon cable Electrical Wring Specifications: D-auto (Connector Cable) P. 37 Image: Connector (Cable) First ribbon cable Electrical Wring Specifications: D-auto (Connector Cable) P. 37 Image: Connector (Cable) Terminal block box D-attribute P. 41 Image: Connector (Cable) P. 43 Terminal block box D-attribute P. 45 Image: Connector (Cable) P. 44 Terminal block box D-attribute P. 45 Image: Connector (Cable) P. 45 Terminal block box Death (Cable) Death (Cable) P. 45 Image: Connector (Cable) Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) P. 45 Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) <		Dimensions				B B
First ribbon cable Electrical Wring Specifications: D-auto (Connector Cable) P. 37 Image: Connector (Cable) First ribbon cable Electrical Wring Specifications: D-auto (Connector Cable) P. 37 Image: Connector (Cable) Terminal block box D-attribute P. 41 Image: Connector (Cable) P. 43 Terminal block box D-attribute P. 45 Image: Connector (Cable) P. 44 Terminal block box D-attribute P. 45 Image: Connector (Cable) P. 45 Terminal block box Death (Cable) Death (Cable) P. 45 Image: Connector (Cable) Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) P. 45 Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) <	D-sub connector					cto
First ribbon cable Electrical Wring Specifications: D-auto (Connector Cable) P. 37 Image: Connector (Cable) First ribbon cable Electrical Wring Specifications: D-auto (Connector Cable) P. 37 Image: Connector (Cable) Terminal block box D-attribute P. 41 Image: Connector (Cable) P. 43 Terminal block box D-attribute P. 45 Image: Connector (Cable) P. 44 Terminal block box D-attribute P. 45 Image: Connector (Cable) P. 45 Terminal block box Death (Cable) Death (Cable) P. 45 Image: Connector (Cable) Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) P. 45 Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) <						Jue
First ribbon cable Electrical Wring Specifications: D-auto (Connector Cable) P. 37 Image: Connector (Cable) First ribbon cable Electrical Wring Specifications: D-auto (Connector Cable) P. 37 Image: Connector (Cable) Terminal block box D-attribute P. 41 Image: Connector (Cable) P. 43 Terminal block box D-attribute P. 45 Image: Connector (Cable) P. 44 Terminal block box D-attribute P. 45 Image: Connector (Cable) P. 45 Terminal block box Death (Cable) Death (Cable) P. 45 Image: Connector (Cable) Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) Ext 200 Terminal Block Box P. 45 Image: Connector (Cable) P. 45 Dimensions Ext 200 Terminal Block Box P. 45 Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) Ext 200 Torminal Block Box P. 45 Image: Connector (P. 45) Image: Connector (P. 45) <	A STATE		Flat Ribbon Cable (IP40/C	Connector Entry Direction Adjustable): P/PG/PH	p. 30	ŝē
Spring Type Terminal Block Box, Terminal Block Box p. 41 How to Order p. 41 Perminal Block Box	- Scalate		Flat Ribbon Cable (IP20/C	compact Type): PC/PGC/PHC	p. 34	
Spring Type Terminal Block Box, Terminal Block Box p. 41 How to Order p. 41 Terminal Block Box	Flat ribbon cable					Plug
Terminal Block Box p. 47 Connection/Electrical Wiring Specifications p. 55 Lead Wire p. 55 Lead Wire Electrical Wiring Specifications EX600 p. 63 EX500 p. 63 EX250 Integrated Type (For Input/Output) Serial Transmission System (Fieldbus System) Dimensions p. 77 Dimensions p. 78 EX260 Integrated Type (For Output) Serial Transmission System Dimensions p. 77 Dimensions p. 78 EX260 Terminal Block Box p. 79 Dimensions p. 88 Manifold Exploded View [By Wiring] p. 94 D-sub Connector/Flat Ribbon Cable (P20/Compact Type) p. 97 Spring Type Terminal Block Box p. 106 EX280 p. 106 D-sub Connector/Flat Ribbon Cable (P20/Compact Type) p. 97 D-sub Conn	Common & Contraction					u o o
Terminal Block Box p. 47 Connection/Electrical Wiring Specifications p. 55 Lead Wire p. 55 Lead Wire Electrical Wiring Specifications EX600 p. 63 EX500 p. 73 Dimensions p. 73 Dimensions p. 73 EX260 they to Order p. 73 Dimensions p. 74 EX260 they to Order p. 74 Dimensions p. 74 p. 74 EX260 they to Order p. 73 Dimensions p. 74 p. 74 EX260 they to Order p. 88 Manifold Exploded View [Gv Output] Serial Transmission System p. 94		How to Order	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·····p. 41	-sut Ribl
Terminal Block Box p. 47 Connection/Electrical Wiring Specifications p. 55 Lead Wire p. 55 Lead Wire Electrical Wiring Specifications EX600 p. 63 EX500 p. 73 Dimensions p. 73 Dimensions p. 73 EX260 they to Order p. 73 Dimensions p. 74 EX260 they to Order p. 74 Dimensions p. 74 p. 74 EX260 they to Order p. 73 Dimensions p. 74 p. 74 EX260 they to Order p. 88 Manifold Exploded View [Gv Output] Serial Transmission System p. 94	- Comments	Dimensions	Spring Type Terminal Bloc	k Box	p. 43	Flat D
How to Orderp. 53 Dimensionsp. 54 Dimensionsp. 61 Dimensionsp. 61 <br< td=""><td></td><td></td><td></td><td></td><td></td><td></td></br<>						
How to Orderp. 53 Dimensionsp. 54 Dimensionsp. 61 Dimensionsp. 61 <br< td=""><td>Terminal block box</td><td>Connection/E</td><td>Electrical Wiring Specificatio</td><td>ns</td><td></td><td>nin ock</td></br<>	Terminal block box	Connection/E	Electrical Wiring Specificatio	ns		nin ock
How to Orderp. 53 Dimensionsp. 53 Dimensionsp. 53 Dimensionsp. 53 		l oad Wiro				Bic
Lead wire Dimensions p. 55 Electrical Wiring Specifications p. 55 p. 59 000 F. 59 Exad wire Electrical Wiring Specifications p. 61 Dimensions p. 61 p. 63 000 F. 63 EX260 EX250 Integrated Type (For Input/Output) Serial Transmission System (Fieldbus System) How to Order p. 71 Dimensions p. 73 EX250 EX250 Integrated Type (For Output) Serial Transmission System p. 77 p. 77 Dimensions p. 77 p. 77 p. 77 EX250 EX250 Integrated Type (For Output) Serial Transmission System p. 77 p. 77 How to Order p. 78 p. 77 p. 78 p. 77 Dimensions p. 77 p. 78 p. 78 p. 77 How to Order p. 83 p. 85 p. 98 p. 98 p. 98 Manifold Exploded View (For Output) Serial Transmission System p. 98 p. 99					n 53	
EX600 Integrated Type (For Input/Output) Serial Transmission System (Fieldbus System) P. 61 How to Order p. 61 971 Dimensions P. 71 p. 71 How to Order p. 77 p. 77 Dimensions EX260 EX260 Integrated Type (For Output) Serial Transmission System p. 77 EX260 EX260 Integrated Type (For Output) Serial Transmission System p. 77 Dimensions EX260 Integrated Type (For Output) Serial Transmission System p. 77 How to Order p. 77 p. 79 Dimensions P. 83 p. 83 EX260 Type 10/Side Ported: Common Dimensions p. 84 Type 10/Side Ported: Romon Dimensions p. 98 Manifold Exploded View [By Wiring] p. 94 Disub Connector/Flat Ribbon Cable (P40/Connector Entry Direction Adjustable) p. 98 Munupped Munupped EX260 Ex100 Manifold Exploded View [Common Parts] p. 106 p. 106 EX260 Terminal Block Box p. 106 p. 106 p. 106 p. 106 EX260 Ex100 Order p. 106 p. 106 p. 106 p. 106 Dise-Uch Now to Increase C	C Ocean	Dimensions			•	Vire
EX600 Integrated Type (For Input/Output) Serial Transmission System (Fieldbus System) P. 61 How to Order p. 61 971 Dimensions P. 71 p. 71 How to Order p. 77 p. 77 Dimensions EX260 EX260 Integrated Type (For Output) Serial Transmission System p. 77 EX260 EX260 Integrated Type (For Output) Serial Transmission System p. 77 Dimensions EX260 Integrated Type (For Output) Serial Transmission System p. 77 How to Order p. 77 p. 79 Dimensions P. 83 p. 83 EX260 Type 10/Side Ported: Common Dimensions p. 84 Type 10/Side Ported: Romon Dimensions p. 98 Manifold Exploded View [By Wiring] p. 94 Disub Connector/Flat Ribbon Cable (P40/Connector Entry Direction Adjustable) p. 98 Munupped Munupped EX260 Ex100 Manifold Exploded View [Common Parts] p. 106 p. 106 EX260 Terminal Block Box p. 106 p. 106 p. 106 p. 106 EX260 Ex100 Order p. 106 p. 106 p. 106 p. 106 Dise-Uch Now to Increase C	Lead wire	Electrical Wir	ing Specifications		p. 55	ad V
How to Order p. 61 Dimensions p. 71 Dimensions p.	- Harris .					Le
EX250 Integrated Type (For Input/Output) Serial Transmission System p. 71 How to Order p. 77 Dimensions p. 77 EX250 EX260 EX260 EX260 EX260 EX260 EX260 EX260 EX260 EX260 EX260 EX120 Image: Second Secon	The second second	EX600 Inte	grated Type (For Input/	(Output) Serial Transmission System (Fieldb	us System)	2
EX250 Integrated Type (For Input/Output) Serial Transmission System p. 71 How to Order p. 77 Dimensions p. 77 EX250 EX260 EX260 EX260 EX260 EX260 EX260 EX260 EX260 EX260 EX260 EX120 Image: Second Secon	a an a Sector				•	293
EX250 Integrated Type (For Input/Output) Serial Transmission System p. 71 p. 73 How to Order p. 77 Dimensions p. 77 EX250 EX260 Integrated Type (For Output) Serial Transmission System p. 77 How to Order p. 77 Dimensions p. 77 EX250 EX120 Integrated Type (For Output) Serial Transmission System p. 77 How to Order p. 77 Dimensions p. 83 Type 10/Side Ported: Common Dimensions p. 84 Desub Connector/Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable) p. 94 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 98 Terminal Block Box p. 99 Lead Wire p. 100 EX260 p. 101 EX260 p. 104 EX260 p. 104 EX260 p. 106 JJSSY1-10, JJSSY3-10, JJSSY3-10, JSSY3-10, J	EX600				р. 63	ω
EX250 EX260 Integrated Type (For Output) Serial Transmission System p. 77 How to Order p. 77 Dimensions p. 77 EX260 EX120 Integrated Type (For Output) Serial Transmission System p. 83 How to Order p. 83 Dimensions p. 84 Wath Old Exploded View (By Wiring) p. 84 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 94 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 95 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 96 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 96 EX260 p. 100 EX260 p. 106 IVEW IVEW EX260 p. 106 IVEW IVEW EX260	LX000	EX250 Inte	grated Type (For Inpu	ut/Output) Serial Transmission System		0
EX250 EX260 Integrated Type (For Output) Serial Transmission System p. 77 How to Order p. 77 Dimensions p. 78 EX260 EX120 Integrated Type (For Output) Serial Transmission System p. 83 How to Order p. 83 Dimensions p. 84 Manifold Exploded View (By Wiring) p. 84 D-sub Connector/Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable) p. 94 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 98 Terminal Block Box p. 99 Lead Wire p. 100 EX260 p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJSSY1-10, JJSSY3-10, JJSSY3-10, JJSSY3-10, JJSSY3-10, JJSSY3-10, JJSSY3-10, JJSSY3-10,		How to Order			•	25
EX250 EX260 Integrated Type (For Output) Serial Transmission System p. 77 How to Order p. 77 Dimensions p. 78 EX260 EX120 Integrated Type (For Output) Serial Transmission System p. 83 How to Order p. 83 Dimensions p. 84 Manifold Exploded View (By Wiring) p. 84 D-sub Connector/Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable) p. 94 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 98 Terminal Block Box p. 99 Lead Wire p. 100 EX260 p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJSSY1-10, JJSSY3-10, JJSSY3-10, JJSSY3-10, JJSSY3-10, JJSSY3-10, JJSSY3-10, JJSSY3-10,	C C C C C C C C C C C C C C C C C C C	Dimensions			р. 73	Ш
How to Order p. 77 Dimensions p. 77 Dimensions p. 77 Dimensions p. 77 Dimensions p. 77 Dimensions p. 77 Dimensions p. 83 Dimensions p. 84 Dimensions p. 94 Dimensions p.	- EX250	EX260 Inte	grated Type (For Out	put) Serial Transmission System		
EX260 EX120 Integrated Type (For Output) Serial Transmission System P. 83 P. 83 How to Order Dimensions P. 83 P. 83 P. 83 Dimensions Dimensions P. 83 P. 83 P. 83 P. 83 EX120 Type 10/Side Ported: Common Dimensions P. 84 P. 94 P. 94 <td< td=""><td>Colores Colores</td><td>How to Order</td><td></td><td></td><td>·····p. 77</td><td>560</td></td<>	Colores Colores	How to Order			·····p. 77	560
EX260 EX120 Integrated Type (For Output) Serial Transmission System P. 83 P. 83 How to Order Dimensions P. 83 P. 83 P. 83 Dimensions Dimensions P. 83 P. 83 P. 83 P. 83 EX120 Type 10/Side Ported: Common Dimensions P. 84 P. 94 P. 94 <td< td=""><td>0</td><td>Dimensions</td><td></td><td></td><td>·····р. 79</td><td>X</td></td<>	0	Dimensions			·····р. 79	X
EX260 How to Order p. 83 Dimensions p. 83 Dimensions p. 83 P. 85 EX120 Type 10/Side Ported: Common Dimensions (External Pilot, Built-in Silencer/Mixed Size, Straight Port Type) p. 889 P. 899 p. 889 Manifold Exploded View [By Wiring] p. 944 p. 944 p. 944 D-sub Connector/Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable) p. 946 p. 946 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 947 p. 946 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 947 p. 947 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 947 p. 947 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 947 p. 947 EX260 p. 1001 EX250 p. 1001 EX260 p. 1001 p. 1004 p. 1004 EX260 p. 1004 p. 1004 p. 1004 Manifold Exploded View [Common Parts] p. 1064 p. 1067 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 1097 p. 1099 Manifold Options p. 1110 p. 1105 p. 1104 Made to Order p. 1116 p. 1116 p. 1116 S	- Oberer	EX120 Inte	egrated Type (For Out	put) Serial Transmission System		-
Dimensions p. 85 Image: Straight Port Type) p. 85 Image: Straight Port Type) p. 89 Manifold Exploded View [By Wiring] p. 94 p. 94 p. 94 p. 94 D-sub Connector/Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable) p. 94 p. 94 p. 94 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 97 p. 97 p. 97 p. 97 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 97 p. 97 p. 97 p. 97 Spring Type Terminal Block Box p. 910 p. 910 p. 910 p. 910 EX260 p. 100 EX260 p. 100 p. 100 p. 100 EX260 p. 103 p. 106 p. 106 p. 106 p. 106 p. 106 Manifold Exploded View [Common Parts] p. 106 p. 106 p. 106 p. 106 p. 106 p. 107 p. 106 p. 107 p. 106 p. 107 p. 106 p. 106 </td <td>EX260</td> <td>How to Order</td> <td></td> <td></td> <td>р. 83</td> <td>20</td>	EX260	How to Order			р. 83	20
EX120 Type 10/Side Ported: Common Dimensions (External Pilot, Built-in Silencer/Mixed Size, Straight Port Type) p. 849 segment p. 94 Manifold Exploded View [By Wiring] p. 94 p. 94 segment p. 94 segment p. 94 D-sub Connector/Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable) p. 966 segment p. 97 segment p. 101	Contraction of the second					ž
Manifold Exploded View [By Wiring]p. 94p. 94p. 94D-sub Connector/Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable)p. 95p. 96D-sub Connector/Flat Ribbon Cable (IP20/Compact Type)p. 97p. 97Spring Type Terminal Block Boxp. 99p. 99Lead Wirep. 100p. 100EX260p. 103p. 103EX260p. 104p. 106EX260p. 106p. 106JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos.p. 107One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Toolp. 109Manifold Optionsp. 101Made to Orderp. 114Specific Product Precautionsp. 120		Type 10/Si	de Ported: Common I	Dimensions		ш
D-sub Connector (IP67) p. 96 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 97 Spring Type Terminal Block Box p. 98 Terminal Block Box p. 99 Lead Wire p. 100 EX600 p. 101 EX260 p. 104 EX260 p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 114 Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120		(External Pilo	ot, Built-in Silencer/Mixed Si	ze, Straight Port Type)	р. 89	_ S
D-sub Connector (IP67) p. 96 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 97 Spring Type Terminal Block Box p. 98 Terminal Block Box p. 99 Lead Wire p. 100 EX600 p. 101 EX260 p. 104 EX260 p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 114 Made to Order p. 114 Specific Product Precautions p. 114 Model Index p. 120		Manifold E	xploded View (By Wi	ring]		nmo
D-sub Connector (IP67) p. 96 D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) p. 97 Spring Type Terminal Block Box p. 98 Terminal Block Box p. 99 Lead Wire p. 100 EX600 p. 101 EX260 p. 104 EX260 p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 114 Made to Order p. 114 Specific Product Precautions p. 114 Model Index p. 120				-	•	Con
D-sub Connector/Flat Ribbon Cable (IP20/Compact Type)p. 97Spring Type Terminal Block Boxp. 98Terminal Block Boxp. 100EX600p. 101EX250p. 103EX260p. 103EX260p. 104EX120p. 105Manifold Exploded View [Common Parts]p. 106Type 10: How to Increase Connector Type Manifoldsp. 106JJSSY1-10, JJSSY3-10, JJSSY5-10/Manifold Parts Nos.p. 107One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Toolp. 109Manifold Optionsp. 114Specific Product Precautionsp. 115Model Indexp. 120		D-sub Con	nector (IP67)		р. 96	L
Lead Wire p. 100 EX600 p. 101 EX250 p. 103 EX260 p. 104 EX120 p. 106 Manifold Exploded View [Common Parts] p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJSSY1-10, JJSSY3-10, JJSSY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120						Viev
Lead Wire p. 100 EX600 p. 101 EX250 p. 103 EX260 p. 104 EX120 p. 106 Manifold Exploded View [Common Parts] p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJSSY1-10, JJSSY3-10, JJSSY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120						lanif
EX600 p. 101 EX250 p. 103 EX260 p. 104 EX120 p. 106 Manifold Exploded View [Common Parts] p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 106 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 114 Specific Product Precautions p. 114 Model Index p. 120						Exp
EX120 p. 101 EX120 p. 105 Manifold Exploded View [Common Parts] p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 120					•	nent
EX120 p. 101 EX120 p. 105 Manifold Exploded View [Common Parts] p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 120		EX600 ·····				eplace, Tools
EX120 p. 101 EX120 p. 105 Manifold Exploded View [Common Parts] p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 120		EX250 ·····			р. 103	Parts
Manifold Exploded View [Common Parts] p. 106 Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 120		EX260 ·····			р. 104	Ē
Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120		EX120 ·····			р. 105	la s
Type 10: How to Increase Connector Type Manifolds p. 106 JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/Manifold Parts Nos. p. 107 One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120		Manifold E	xploded View [Comm	on Parts]	·····p. 106	Aanife Optio
One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool p. 109 Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120		• •			•	
Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120		JJ5SY1-10	, JJ5SY3-10, JJ5SY5-10/M	anifold Parts Nos.	р. 107	e.
Manifold Options p. 110 Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120		One-touch	Fittings, Plug, Clip, Por	t Plate, Tube Releasing Tool	p. 109	ade
Made to Order p. 114 Specific Product Precautions p. 115 Model Index p. 120						ž
Specific Product Precautions p. 115 Model Index p. 120					-	
Model Index Safety Instructions					P · · · ·	Produ
Safety Instructions						Precal
						ds 1



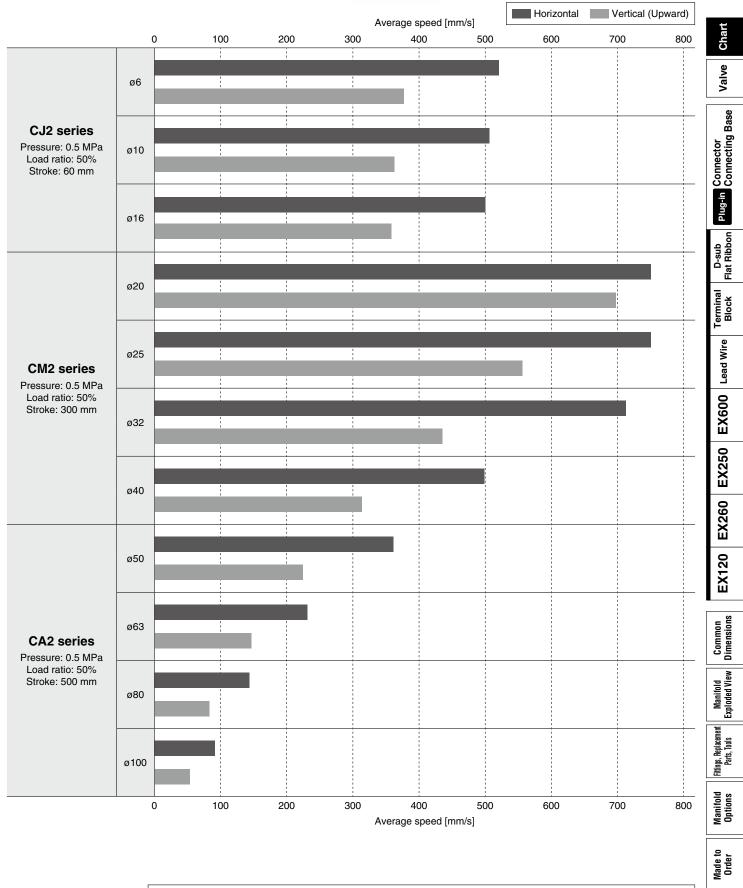
For JSY1000, A, B port: Ø4



- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- $\ast~$ The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.



For JSY1000, A, B port: Ø6

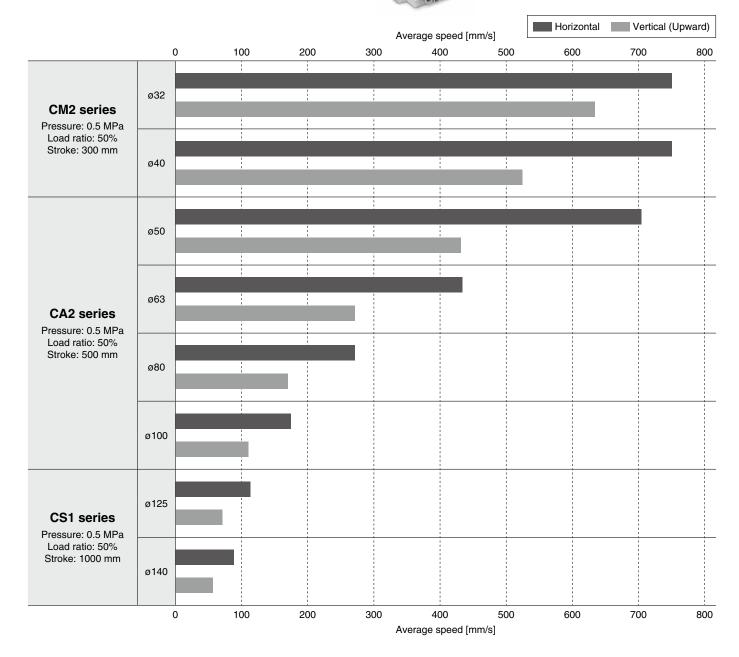


- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open. *
 - The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100% *
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1. *
 - Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.



Specific Product Precautions

For JSY3000, A, B port: Ø8

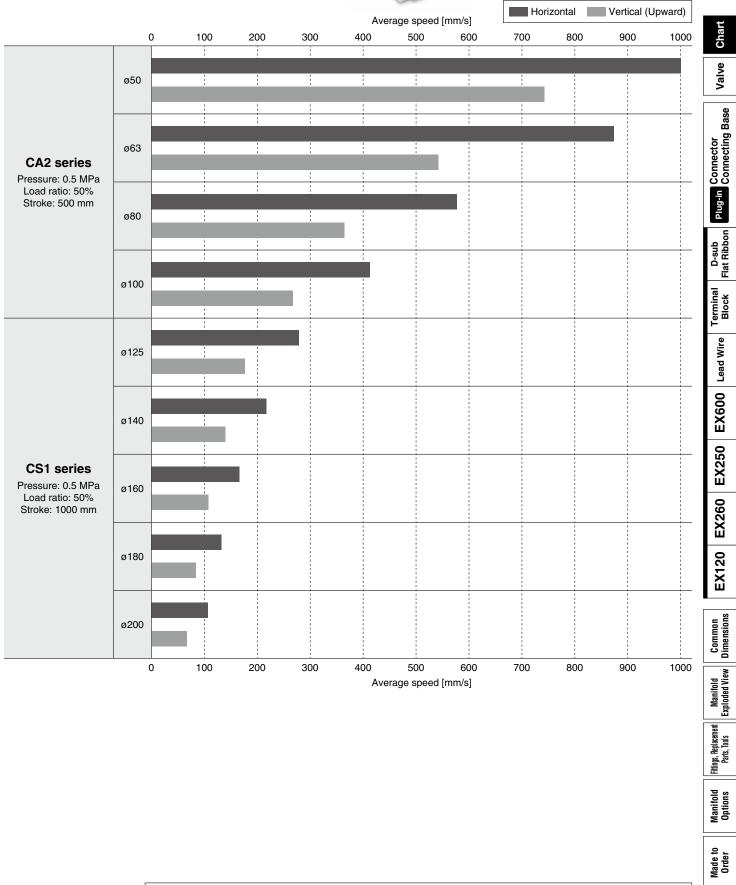


- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- $\ast\,$ The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.



For JSY5000, A, B port: Ø12





- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open. *
 - The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100% *
- Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.



Specific Product Precautions

JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

Valve type			Rubber seal				
Fluid			Air				
	2-position sing	gle	0.15 to 0.7				
Internal pilot operating	2-position dou	ble	0.1 to 0.7				
pressure range [MPa]	3-position		0.2 to 0.7				
	4-position dua	I 3-port valve	0.15 to 0.7				
External pilot	Operating pres	ssure range	-100 kPa to 0.7				
(Made to Order)	Pilot	2-position single					
operating pressure range	pressure	2-position double	0.25 to 0.7				
[MPa]	range	3-position					
Ambient and fluid temperat	tures [°C]		-10 to 50 (No freezing)				
		2-position single/double	r.				
	JSY1000/3000	4-position dual 3-port valve	5				
Max. operating frequency		3-position	3				
[Hz]		2-position single/double	5				
	JSY5000	4-position dual 3-port valve	3				
		3-position	3				
			Non-locking push type				
Manual override			Push-turn locking slotted type				
			Push-turn locking lever type*1				
Pilot exhaust type	Internal pilot		Individual exhaust				
Filot exhaust type	External pilot	(Made to Order)					
Lubrication			Not required				
Mounting orientation*2			Unrestricted				
Impact/Vibration resistance	e ^{*2} [m/s ²]		150/30				
Enclosure			JSY1000: IP40 JSY3000/5000: IP67 (Based on IEC60529)				
Coil rated voltage [DC]			24 V				
Allowable voltage fluctuati	on [V]		±10% of the rated voltage				
	Standard	JSY3000/5000	0.4				
Power consumption [W]	14/14/	JSY1000	0.2*3 [Inrush 0.5, Holding 0.2]				
	With power saving circuit	JSY3000/5000 (Made to Order)	0.1*4 [Inrush 0.4, Holding 0.1]				
Surge voltage suppressor			Diode (Varistor for non-polar type)				
Indicator light			LED				

*1 Not available for the JSY1000 series

*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. 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 118 for the fixation of DIN rail mounting type manifold.

*3 JSY1000 series available as power saving type only. Standard type (without power saving circuit) cannot be selected.

*4 For details, refer to page 116.

Valve Specifications JSY1000/3000/5000 Series

Response Time

			Response	time [ms]*1
Series	Model	Type of actuation	With light/surge v	oltage suppressor
			Z type	U type
	JSY1100	2-position single	15	
JSY1000	JSY1200	2-position double	7	
5511000	JSY13/4/500	3-position	16] —
	JSY1A/B/C00	4-position dual 3-port valve	19	
	JSY3100	2-position single	27	18
JSY3000	JSY3200	2-position double	13	12
3513000	JSY33/4/500	3-position	27	24
	JSY3A/B/C00	4-position dual 3-port valve	23	23
	JSY5100	2-position single	35	25
	JSY5200	2-position double	19	17
JSY5000	JSY53/4/500	3-position	41	37
	JSY5A/B/C00	4-position dual 3-port valve	37	37

Valve Weight

JSY1000 Series

Valve model	Т	Weight [g]	
	2-position	Single	24
	2-00511011	Double	27
JSY1⊡00		Closed center	
JSTI_00	3-position	Exhaust center	30
		Pressure center	
	4-position	Dual 3-port valve	27

JSY5000 Series

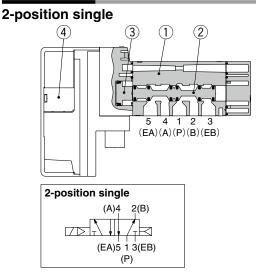
	1100		
Valve model	Т	Weight [g]	
	2-position	Single	91
	2-00510011	Double	100
JSY5⊡00		Closed center	
J31200	3-position	Exhaust center	110
		Pressure center	
	4-position	Dual 3-port valve	96

JSY3000 Series

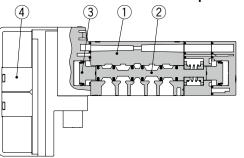
Valve model	Т	ype of actuation	Weight [g]
	2-position	Single	54
	2-00511011	Double	63
JSY3⊟00		Closed center	
J313_00	3-position	Exhaust center	67
		Pressure center	
	4-position	Dual 3-port valve	63

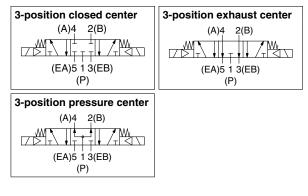
JSY1000/3000/5000 Series **Valve Construction**

Rubber Seal



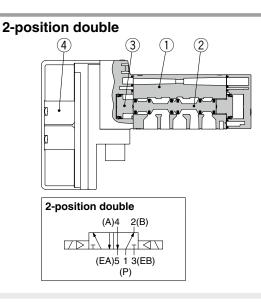
3-position closed center/exhaust center/pressure center



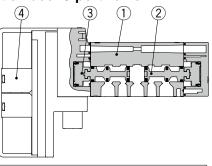


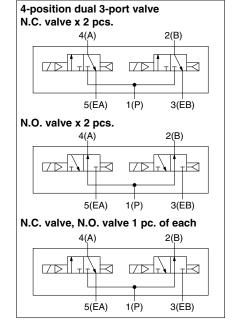
Component Parts

No.	Description	Material
1	Body	Aluminum die-casted
2	Spool valve	Aluminum/HNBR (4-position solenoid valve: Resin/HNBR
3	Piston	Resin
4	Pilot valve assembly	—
13		



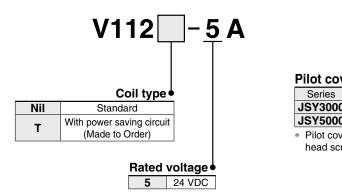
4-position dual 3-port valve



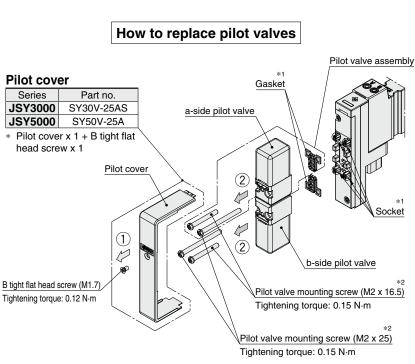


JSY3000/5000 Series Valve Replacement Parts: Pilot Valve

How to Order Pilot Valves (With a gasket and two mounting screws)*3



- The coil specification and voltage (including light/ surge voltage suppressor) cannot be changed by changing the pilot valve assembly.
- When selecting the standard coil type, it is not possible to change to the power saving circuit type.
- 3. Replacement pilot valve for the JSY3000/5000



- 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.
- \bullet Remove the pilot valve in the direction indicated by the arrow 2.
- * Assemble by following the removal procedure in reverse.
- *1 Ensure the gasket is mounted, and take care not to bend the socket.
 *2 Be noted for mounting that there are two types of lengths for the pilot valve mounting screws.
- *3 The pilot valve of the JSY1000 cannot be removed. This is irreplaceable.

Chart

Valve

Connector Connecting Base

Plug-in

D-sub Flat Ribbon

JSY1000/3000/5000 Series Type 10 Plug-in Connector Connecting Base

Manifold Specifications

			D	-sub connect	or		Flat ribbon cable							
	Model		F type	FW type*1	FC type*2	P type	PG type	PH type	PC type*2	PGC type*2	PHC type*2			
Manifo	ld type			Plug-in connector connecting base										
SUP/E)	(H port type			Common SUP/EXH (Common for 3/5 port)										
Valve s	tations			2 to 24	stations		2 to 18 stations	2 to 8 stations	2 to 24 stations	2 to 18 stations	2 to 8 stations			
Annling			D-sub connector conforming to	Dedicated connector	D-sub connector conforming to				ible connecto 3503 (Refer to					
Applicable connector			MIL-C-24308 (Refer to page 37.)	(Refer to page 37.)	MIL-C-24308 (Refer to page 37.)	Socket: 26 pins MIL type	Socket: 20 pins MIL type	Socket: 10 pins MIL type	Socket: 26 pins MIL type	Socket: 20 pins MIL type	Socket: 10 pins MIL type			
Interna	l wiring			Positive common, Negative common										
	1(D) 2(5(5)	JSY1000		ø8 One-touch fitting										
	1(P), 3/5(E) port	JSY3000		ø10 One-touch fitting										
Port	P011	JSY5000		ø12 One-touch fitting										
size	4(A) 0(D)	JSY1000		ø2 One-touch fitting, ø4 One-touch fitting, ø6 One-touch fitting										
	4(A), 2(B) port	JSY3000			,	ø6 One-touch	i fitting, ø8 On	e-touch fitting	g					
		JSY5000			Ø	10 One-touch	fitting, ø12 O	ne-touch fitti	ng					
Enclosure (Based on IEC60529)		JSY1000		_	IP20					IP20				
		JSY3000	IP40	IP67			IP40		IF20					
		JSY5000			_				_					

*1 FW type is not available for JSY1000. Protection class for the JSY1000 is IP20 or IP40.

*2 FC, PC, PGC, PHC types are not available for the JSY5000.

Manifold Weight

											Unit: g		
				(2) Wiring									
Model		① Per station	D-sub connector					Flat ribb	on cable	·			
			F type	FW type*2	FC type*3	P type	PG type	PH type	PC type*3	PGC type*3	PHC type*3		
1611000	for ø4	21.3	308	_	233	306	304	298	233	231	225		
J311000	JSY1000 for ø6		319	_	244	317	315	309	244	242	236		
JSY3000	JSY3000 for ø8		332	330	287	330	328	322	257	255	249		
JSY5000	JSY5000 for ø12 10-		509	507	_	507	505	499	—	_	_		

Formula for manifold weight*1

 $W = 1 \times n + 2$ (n: stations)

JSY3000 series, D-sub connector, F type, 5 stations: (42.7 x 5) + 332 = 545.5 (g)

Manifold Flow Rate Characteristics

	Port	size	Valve flow rate characteristics							
Model	1, 3/5	4, 2	1 ightarrow 4/2 (P ightarrow	A/B)	$4/2 \rightarrow 3/5$ (A/B	→ E)				
	(P, E)	(A, B)	C [dm ³ /(s·bar)]	b	C [dm ³ /(s·bar)]	b				
JJ5SY1-10	C8	C4	0.63	0.46	0.87	0.47				
(Side ported)	0	C6	0.96	0.30	0.91	0.48				
JJ5SY3-10 (Side ported)	C10	C8	2.23	0.30	2.77	0.27				
JJ5SY5-10 (Side ported)	C12	C12	6.40	0.22	6.59	0.22				

* Calculation of effective area S and sonic conductance C: S = 5.0 x C

* Values measured in accordance with ISO 6358:1989, JIS B 8390:2000

Type 10 JSY1000/3000/5000 Series

							Chart			
						- 000000				
Terminal b	lock box	Lead wire		Seri	al wiring		Valve			
T type	TC type	L type	S6⊡ type (EX600)	S⊡ type (EX250)	S⊟ type (EX260)	S3⊟ type (EX120)				
		Plug-ii	n connector connecting	g base	-		Bas			
		Common	SUP/EXH (Common fo	or 3/5 port)			or ing			
2 to 20 stations			2 to 24 stations			2 to 16 stations	lect			
							Connector Connecting Base			
			—				Plug-in			
		Positive	e common, Negative co	ommon			u			
			ø8 One-touch fitting				duš			
			ø10 One-touch fitting				D-sub Flat Ribbon			
			ø12 One-touch fitting							
			, ø4 One-touch fitting,				Terminal Block			
		ø6 One-te	ouch fitting, ø8 One-tou	uch fitting						
ø10 One-touch fitting, ø12 One-touch fitting										
IP40										
	1007		IP67	1007	IP67 / D-sub	IP20	Lead Wire			
	IP67		(I/O unit: (partially IP40)	IP67	communication connector: IP40		EX600			
]	Ш			

								Unit: g					
2 Wiring													
Terminal	block box		Lead wire			Serial	wiring						
T type	TC type	L type (0.6 m) L type (1.5 m)		L type (3 m)	S6⊡ type (EX600)*4	S⊟ type (EX250)*4	S⊡ type (EX260)	S3⊡ type (EX120)					
680	471	404	514	698	829	520	448	367					
689	480	413	523	707	838	529	457	367					
709	500	433	543	727	858	549	477	391					
914	705	638	748	932	1063	754	682	568					

*1 Weight: W is the value of the internal pilot, and maximum manifold size with tube fitting type. Valve is not included. To obtain the weight with valves attached, add the valve weights given on page 12 for the appropriate number of stations.

*2 FW type is not available for the JSY1000.

*3 FC, PC, PGC, PHC types are not available for the JSY5000.

*4 Serial unit weight is included, but I/O unit is not included. Add the weight for calculation when I/O unit is added.

EX250

EX260

EX120

Common Dimensions

Manifold Exploded View

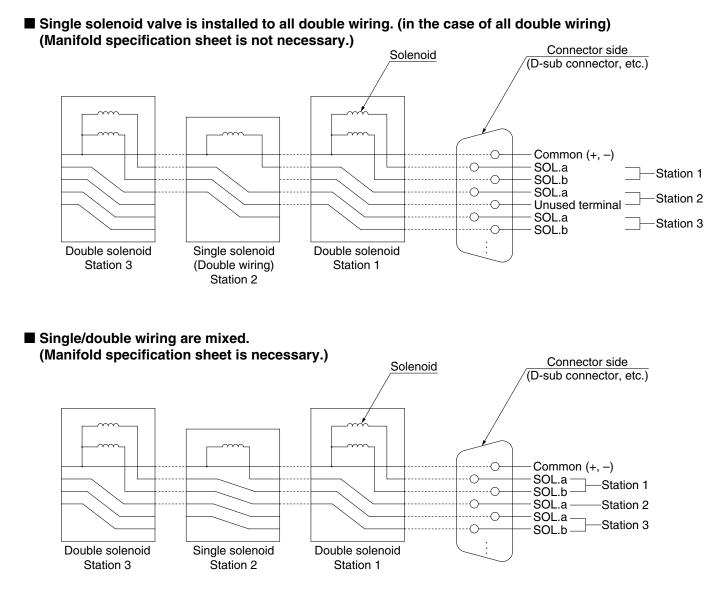
Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

Connector Wiring Layout

For both serial and parallel wiring, additional valves are sequentially assigned pins on the connector. This makes it completely unnecessary to disassemble the connector unit.



* These diagrams are for the purpose of explanation, and differ from the actual connector wiring.

	Chart
	Valve
	Plug-in Connector Connecting Base
	nal D-sub k Flat Ribbon
	Terminal Block
	Lead Wire
,	EX600
,	(120 EX260 EX250
	EX260
	EX120
Г	
	Common Dimensions
	Manifold Exploded View
	Fittings, Replacement Parts, Tools
	Manifold Options
	Made to Order
	Specific Product Precautions

Plug-in Connector Connecting Base

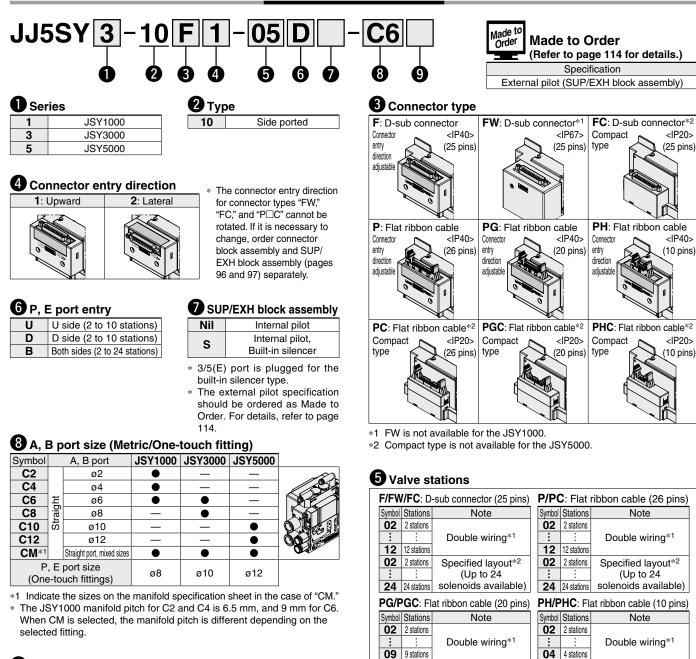
D-sub Connector Flat Ribbon Cable

Type 10 Side Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds



9 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

DIN Rail Option

19

Nil	DIN rail	mounting (With DIN rail)												
0	DIN rail ı	IN rail mounting (Without DIN rail)												
3	For 3 stations													
:	:	Specify a longer rail than the standard length.												
24	For 24 stations													

Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown on the left.)

Refer to page 118 for the fixation of DIN rail mounting type manifold.

SMC

02 2 stations

18 18 stations

Specified layout*2

(Up to 18

solenoids available)

valves can be used on all manifold stations.

This also includes the number of blanking plates.

02 2 stations

08 8 stations

*1 Double wiring: 2-position single, double, 3-position, and 4-position

signal. If this is not desired, order with a specified layout.

valves cannot be used where single wiring has been specified.)

*2 Specified layout: Indicate the wiring specifications on the manifold

Use of a 2-position single solenoid will result in an unused control

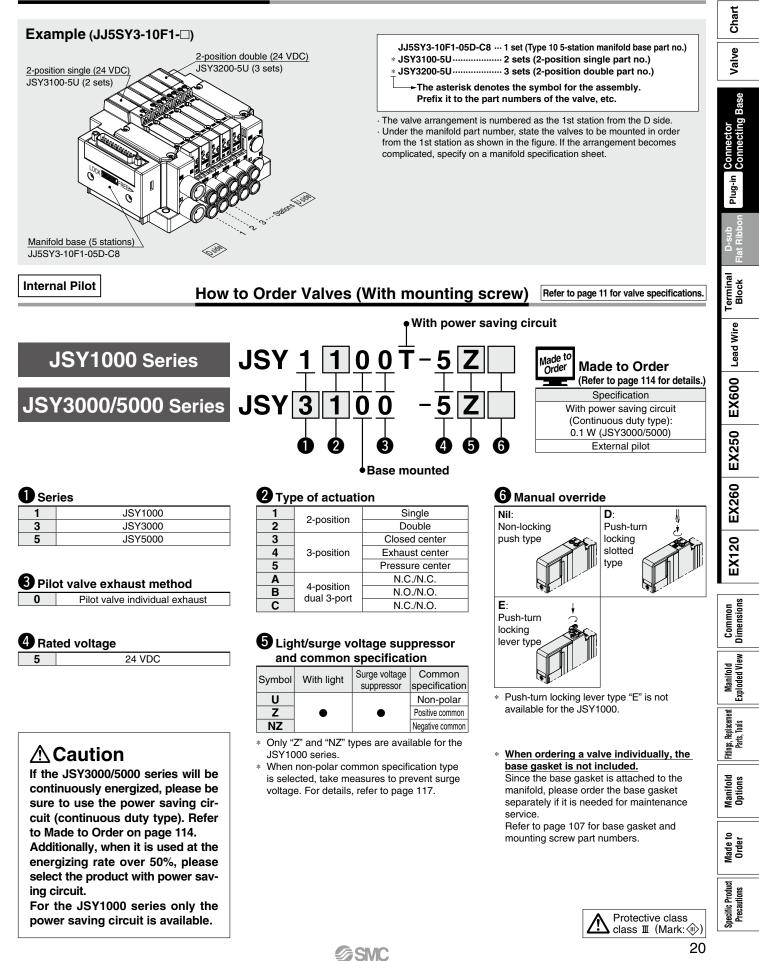
specification sheet. (Note that 2-position double, 3-position, and 4-position

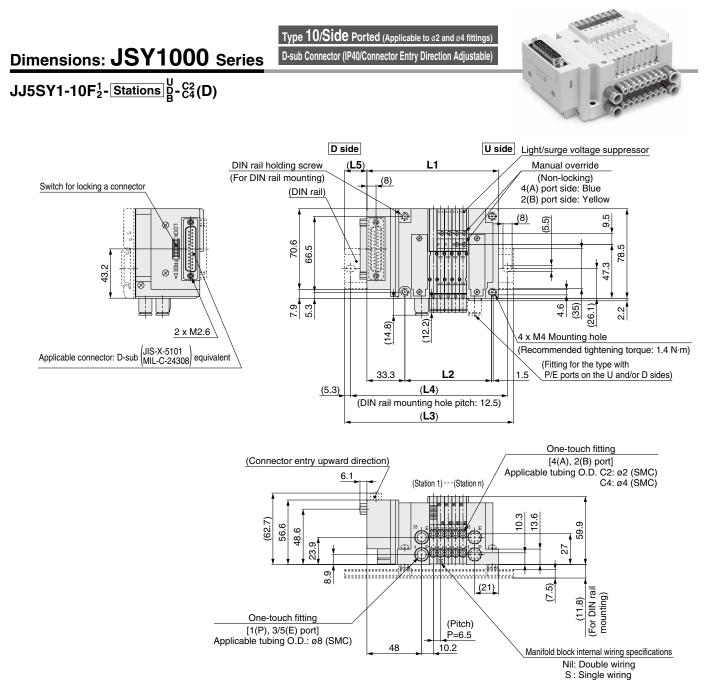
Specified layout*2

(Up to 8

solenoids available)

How to Order Manifold Assembly



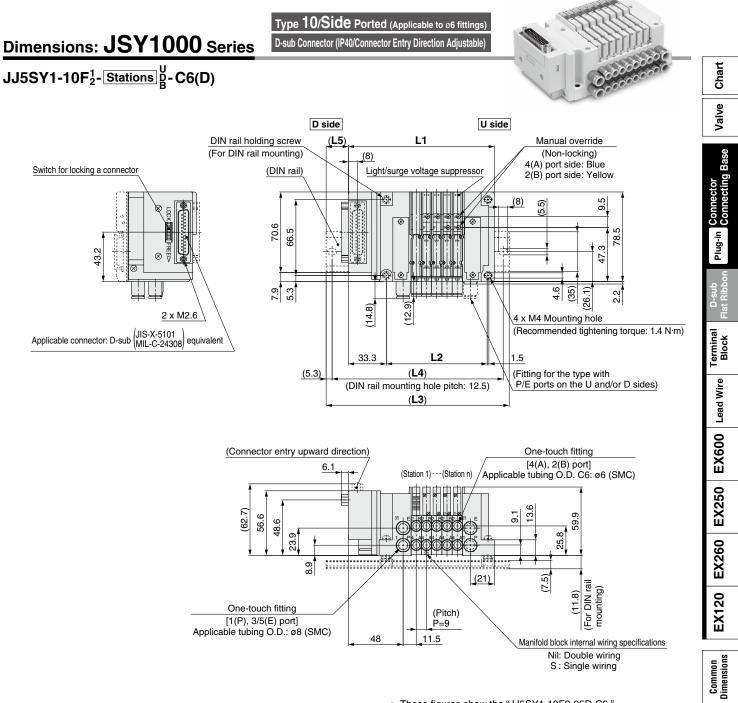


* These figures show the "JJ5SY1-10F2-05D-C4."

 Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	ension	IS												r	: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	96	102.5	109	115.5	122	128.5	135	141.5	148	154.5	161	167.5	174	180.5	187
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223
L4	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5
L5	23	19.5	22.5	19.5	22.5	19	22	19	22	18.5	21.5	18.5	21.5	18	21
<u> </u>	17	18	19	20	21	22	23	24							
L1	193.5	200	206.5	213	219.5	226	232.5	239							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	223	235.5	248	248	260.5	260.5	273	273							
L4	212.5	225	237.5	237.5	250	250	262.5	262.5							
L5	18	21	24	20.5	23.5	20.5	23.5	20							
21							Ø3	SMC							



* These figures show the "JJ5SY1-10F2-05D-C6."

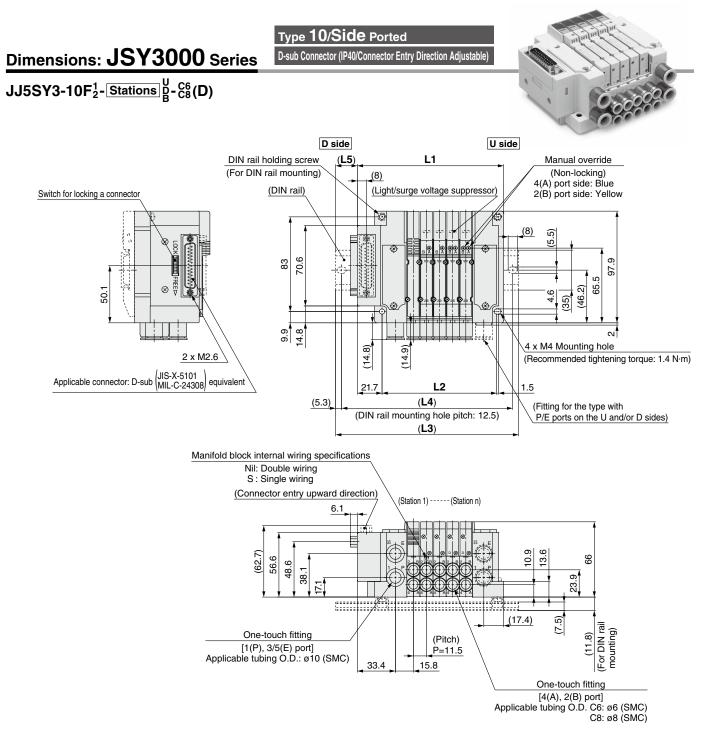
- Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dim	ensior	IS												r	n: Stations	Fittings, Repla Parts, Too
L _L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
L1	101	110	119	128	137	146	155	164	173	182	191	200	209	218	227	
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	Manifold Options
L3	135.5	148	160.5	160.5	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5	Mar Opt
L4	125	137.5	150	150	162.5	175	175	187.5	200	212.5	212.5	225	237.5	237.5	250	
L5	20.5	22	24	19.5	21	23	18.5	20	22	23.5	19	21	22.5	18	20	<u>ع</u> _
∖ n	17	10	19	20	21	22	00	04								Made to Order
L		18	-	20			23	24	_							ž o
L1	236	245	254	263	272	281	290	299	_							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4								ls duct
L3	273	285.5	285.5	298	310.5	310.5	323	335.5	-							ecific Produ Precautions
L4	262.5	275	275	287.5	300	300	312.5	325								Specific Product Precautions
L5	21.5	23.5	19	20.5	22.5	18	19.5	21.5	-							8
															22	

Exploded View

Fittings, Replacement Parts, Tools

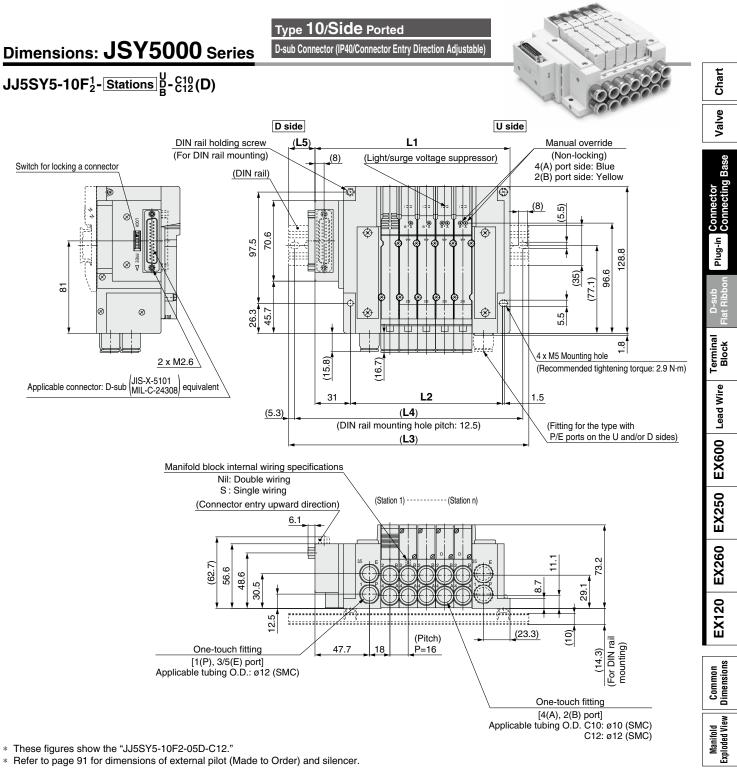
Manifold



* These figures show the "JJ5SY3-10F2-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	L: Dimensions n: Stations														
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	93.8	105.3	116.8	128.3	139.8	151.3	162.8	174.3	185.8	197.3	208.8	220.3	231.8	243.3	254.8
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5
L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275
L5	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	18	18.5
∖ n	47	40	10	00	01	00	00	04							
	17	18	19	20	21	22	23	24							
L1	266.3	277.8	289.3	300.8	312.3	323.8	335.3	346.8							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	298	310.5	323	335.5	348	360.5	373	385.5							
L4	287.5	300	312.5	325	337.5	350	362.5	375							
L5	19	19.5	20	20.5	21	21.5	22	22.5							
23							S	SMC							



* These figures show the "JJ5SY5-10F2-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

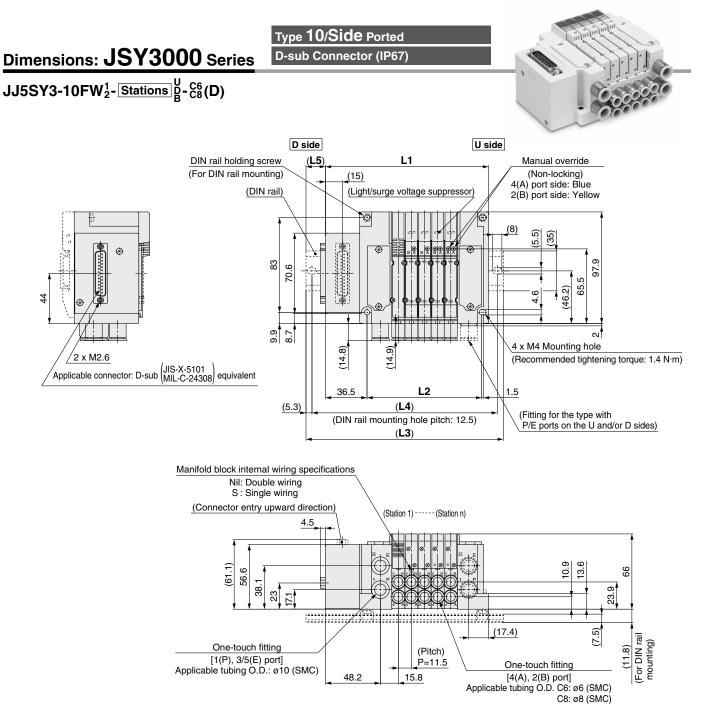
L: Dim	ensior	ıs												r	: Stations	
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
L1	123	139	155	171	187	203	219	235	251	267	283	299	315	331	347	Γ
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	
L3	160.5	173	185.5	210.5	223	235.5	260.5	273	285.5	298	323	335.5	348	360.5	385.5	
L4	150	162.5	175	200	212.5	225	250	262.5	275	287.5	312.5	325	337.5	350	375	
L5	22	20	18.5	23	21	19.5	24	22	20.5	18.5	23	21.5	19.5	18	22.5	
<hr/>																
L n	17	18	19	20	21	22	23	24								
L1	363	379	395	411	427	443	459	475								
L1 L2	363 325.5	379 341.5	395 357.5	411 373.5	427 389.5	443 405.5	459 421.5	475 437.5								
						-		-								
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5								
L2 L3	325.5 398	341.5 410.5	357.5 435.5	373.5 448	389.5 460.5	405.5 473	421.5 498	437.5 510.5								

Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

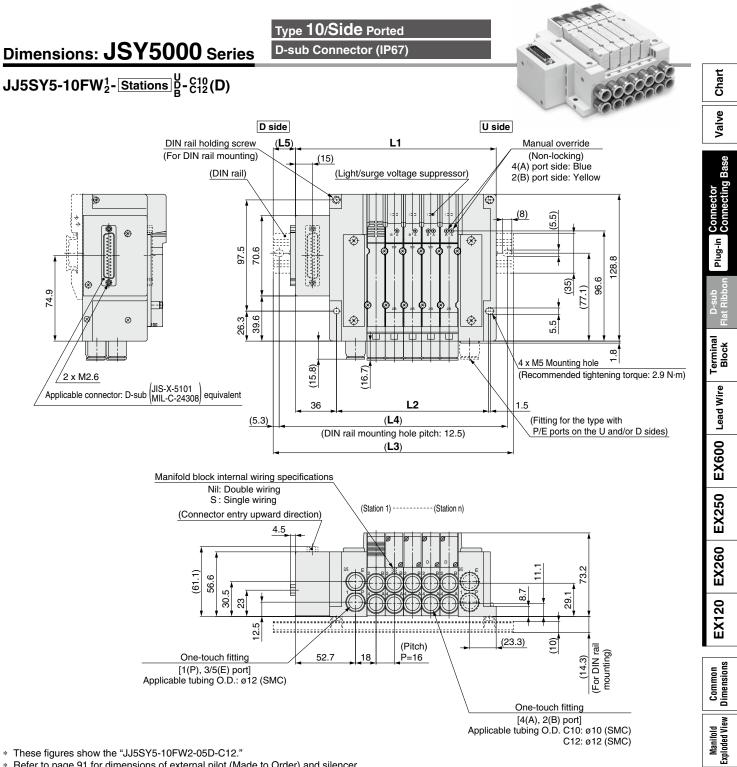
Specific Product Precautions



* These figures show the "JJ5SY3-10FW2-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

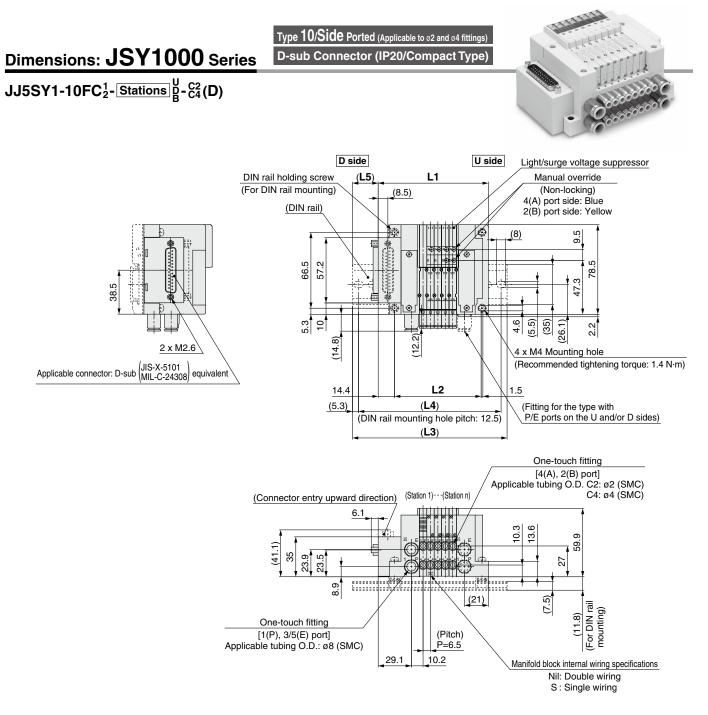
L: Dim	L: Dimensions n: Stations														
L _ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	108.6	120.1	131.6	143.1	154.6	166.1	177.6	189.1	200.6	212.1	223.6	235.1	246.6	258.1	269.6
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	148	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	298
L4	137.5	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	287.5
L5	22	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	16.5
\sim n	17	18	19	20	21	22	23	24							
L /			-	-			-								
L1	281.1	292.6	304.1	315.6	327.1	338.6	350.1	361.6							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	310.5	323	335.5	348	360.5	373	385.5	398							
L4	300	312.5	325	337.5	350	362.5	375	387.5							
L5	17	17.5	18	18.5	19	19.5	20	20.5	-						
25							S	SMC							



* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions

					,	,										Fittings, Replacement Parts, Tools
L: Dim	ensior	าร												r	n: Stations	gs, Repl Parts, Tc
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
L1	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	=
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	Manifold Options
L3	160.5	173	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	348	373	385.5	Mar Opt
L4	150	162.5	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	337.5	362.5	375	
L5	18.5	17	21.5	19.5	18	22.5	20.5	19	17	21.5	20	18	16.5	21	19	요 ~
∖ n	17	18	10	- 00	01	- 00	23	04								Made to Order
L			19	20	21	22		24	_							Ë
L1	368	384	400	416	432	448	464	480								
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5	_							s dect
L3	398	423	435.5	448	460.5	485.5	498	510.5	_							ecific Produ Precautions
L4	387.5	412.5	425	437.5	450	475	487.5	500								Specific Product Precautions
L5	17.5	22	20	18.5	16.5	21	19.5	17.5	-							8
							S	SMC	-						26	

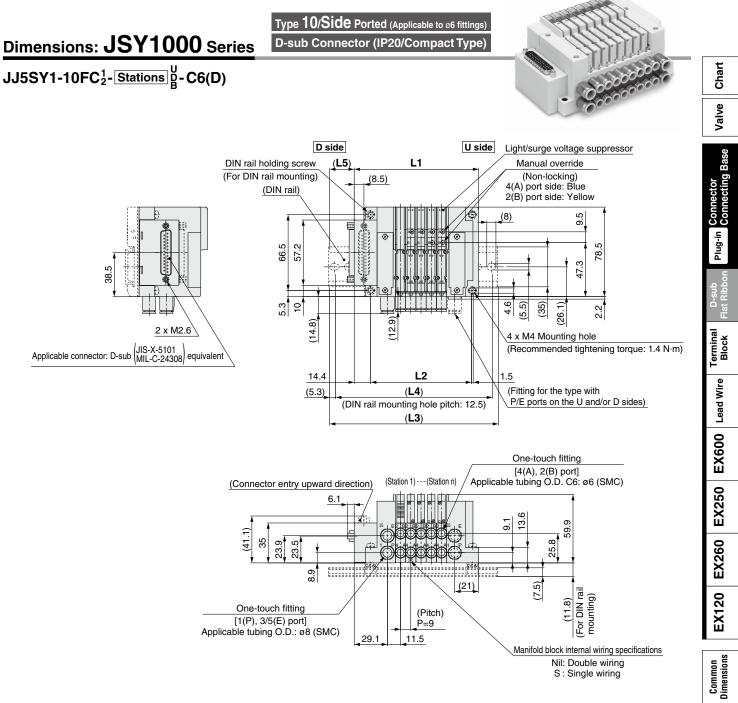


* These figures show the "JJ5SY1-10FC2-05D-C4."

 Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	L: Dimensions n: Stations														
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	77.1	83.6	90.1	96.6	103.1	109.6	116.1	122.6	129.1	135.6	142.1	148.6	155.1	161.6	168.1
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	110.5	123	123	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198
L4	100	112.5	112.5	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5
L5	20	23	19.5	22.5	19.5	22.5	19	22	19	22	18.5	21.5	18.5	21.5	18
<mark>∖ n</mark>	17	18	19	20	21	22	23	24							
L1	174.6	181.1	187.6	194.1	200.6	207.1	213.6	220.1							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	210.5	210.5	223	235.5	235.5	248	248	260.5							
L4	200	200	212.5	225	225	237.5	237.5	250							
L5	21	18	21	24	20.5	23.5	20.5	23.5							
27							S	SMC							



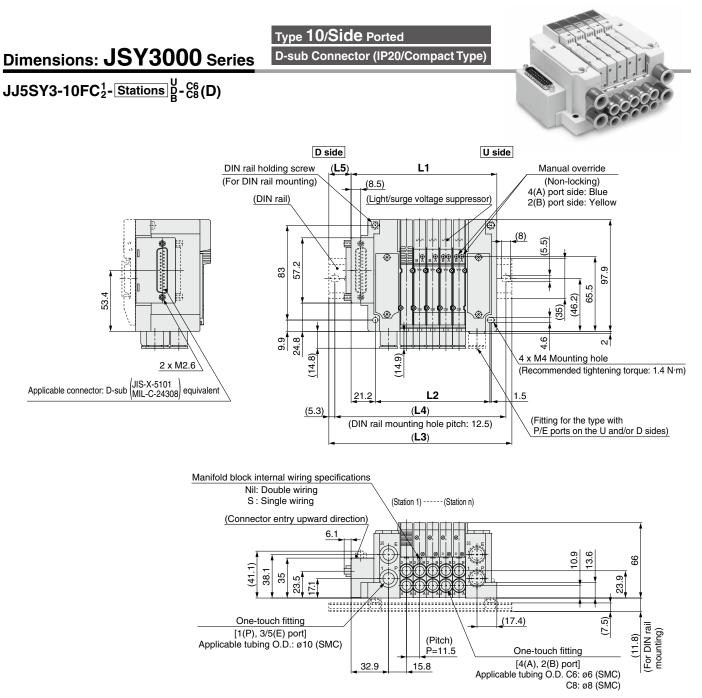
* These figures show the "JJ5SY1-10FC2-05D-C6."

- Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

	unersions.															
L: Dim	ension	IS												r	n: Stations	Fittings, Replacement Parts, Tools
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fiti
L1	82.1	91.1	100.1	109.1	118.1	127.1	136.1	145.1	154.1	163.1	172.1	181.1	190.1	199.1	208.1	
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	ions
L3	123	123	135.5	148	148	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	248	Manifold Options
L4	112.5	112.5	125	137.5	137.5	150	162.5	175	175	187.5	200	200	212.5	225	237.5	
L5	23.5	19	21	22.5	18	20	21.5	23.5	19	20.5	22.5	18	19.5	21.5	23	<u>ع</u> _
																e e
L	17	18	19	20	21	22	23	24								Made to Order
L1	217.1	226.1	235.1	244.1	253.1	262.1	271.1	280.1								
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4								duct IS
L3	248	260.5	273	285.5	285.5	298	310.5	310.5								C Pro
L4	237.5	250	262.5	275	275	287.5	300	300								Specific Product Precautions
L5	18.5	20.5	22	24	19.5	21	23	18.5								ŝ
							6	SMC	-						28	

Exploded View

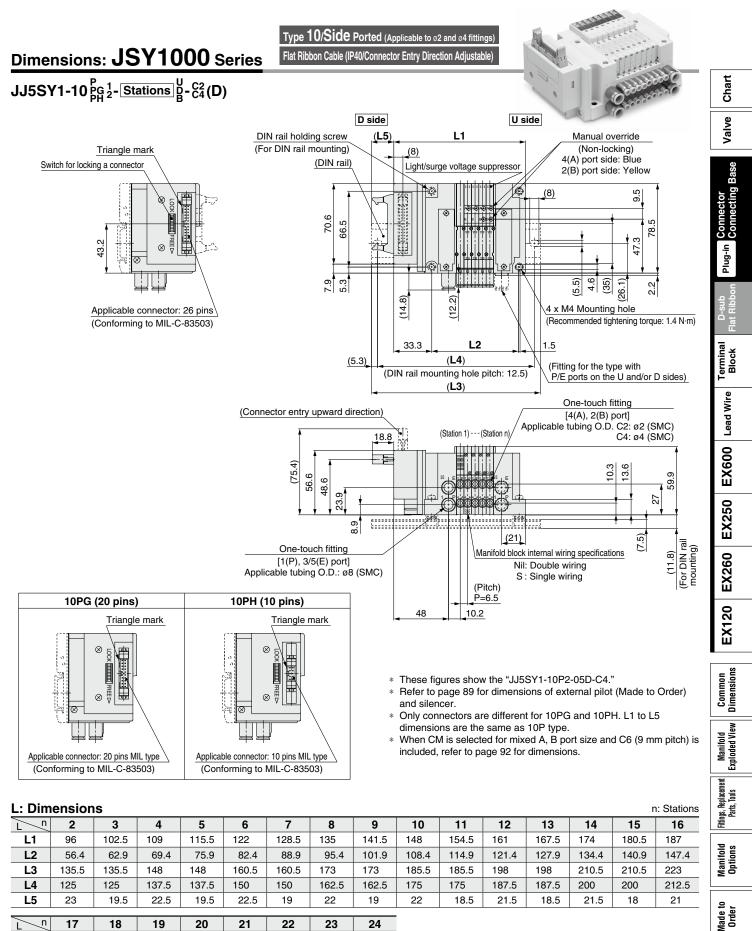
Manifold



* These figures show the "JJ5SY3-10FC2-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations														1: Stations	
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	93.3	104.8	116.3	127.8	139.3	150.8	162.3	173.8	185.3	196.8	208.3	219.8	231.3	242.8	254.3
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	260.5	273	285.5
L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	250	262.5	275
L5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	17.5	18	18.5
L	17	18	19	20	21	22	23	24							
L1	265.8	277.3	288.8	300.3	311.8	323.3	334.8	346.3							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	298	310.5	323	335.5	348	360.5	373	385.5							
L4	287.5	300	312.5	325	337.5	350	362.5	375							
L5	19	19.5	20	20.5	21	21.5	22	22.5							
29															



L1

L2

L3

L4

L5

193.5

153.9

212.5

18

223

200

160.4

235.5

225

21

206.5

166.9

237.5

24

248

213

248

173.4

237.5

20.5

219.5

179.9

260.5

23.5

250

226

186.4

260.5

20.5

250

232.5

192.9

262.5

23.5

273

239

273

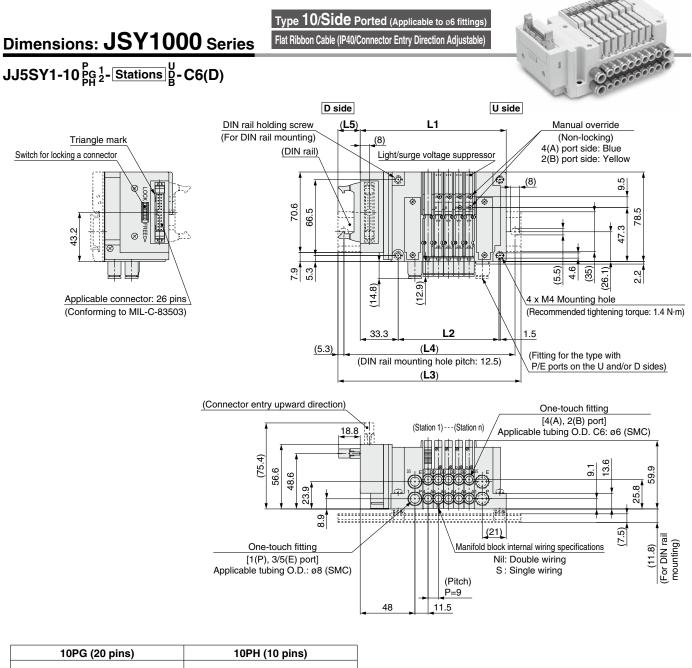
199.4

262.5

20

SMC

Specific Product Precautions



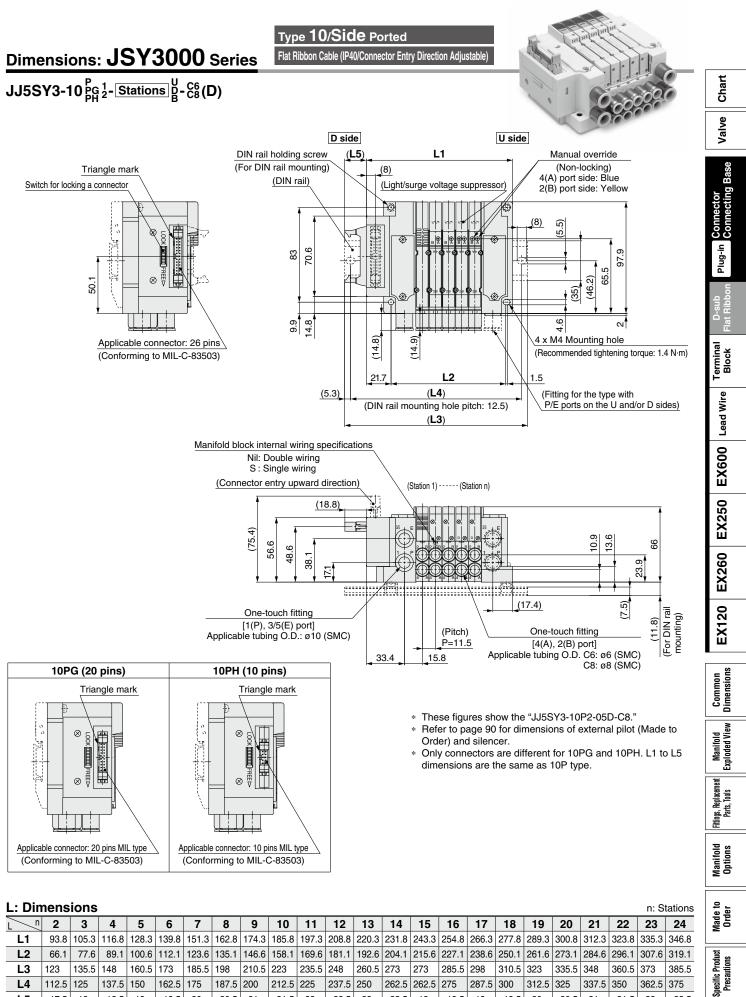
- 10PG (20 pins)

 10PH (10 pins)

 Triangle mark
 Triangle mark

 Image: Colspan="2">Image: Colspan="2" Colspan=
- * These figures show the "JJ5SY1-10P2-05D-C6."
- * Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- * Only connectors are different for 10PG and 10PH. L1 to L5 dimensions are the same as 10P type.
- * When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dimensions n: Stations n 2 4 7 10 11 13 14 16 17 18 19 20 22 23 24 3 5 6 8 9 12 15 21 218 L1 101 110 119 128 137 146 155 164 173 182 191 200 209 227 236 245 254 263 272 281 290 299 L2 61.4 70.4 79.4 88.4 97.4 106.4 115.4 124.4 133.4 142.4 151.4 160.4 169.4 178.4 187.4 196.4 205.4 214.4 223.4 232.4 241.4 250.4 259.4 L3 135.5 148 160.5 160.5 173 185.5 185.5 198 210.5 223 223 235.5 248 248 260.5 273 285.5 285.5 298 310.5 310.5 323 335.5 262.5 L4 125 137.5 150 150 162.5 175 175 187.5 200 212.5 212.5 225 237.5 237.5 250 275 275 287.5 300 300 312.5 325 L5 20.5 22 24 19.5 21 23 18.5 20 22 23.5 19 21 22.5 18 20 21.5 23.5 19 20.5 22.5 18 19.5 21.5



23.5 18

18.5 19

19.5 20

20.5 21

21.5 22

22.5 23

22

21.5

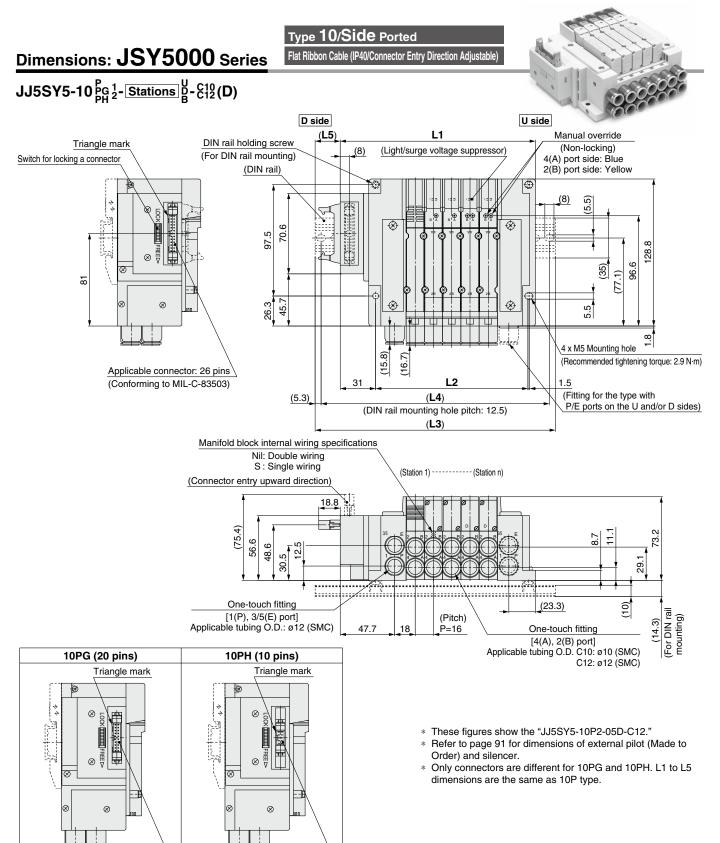
L5

17.5 18

18.5 19

19.5 20

20.5 21



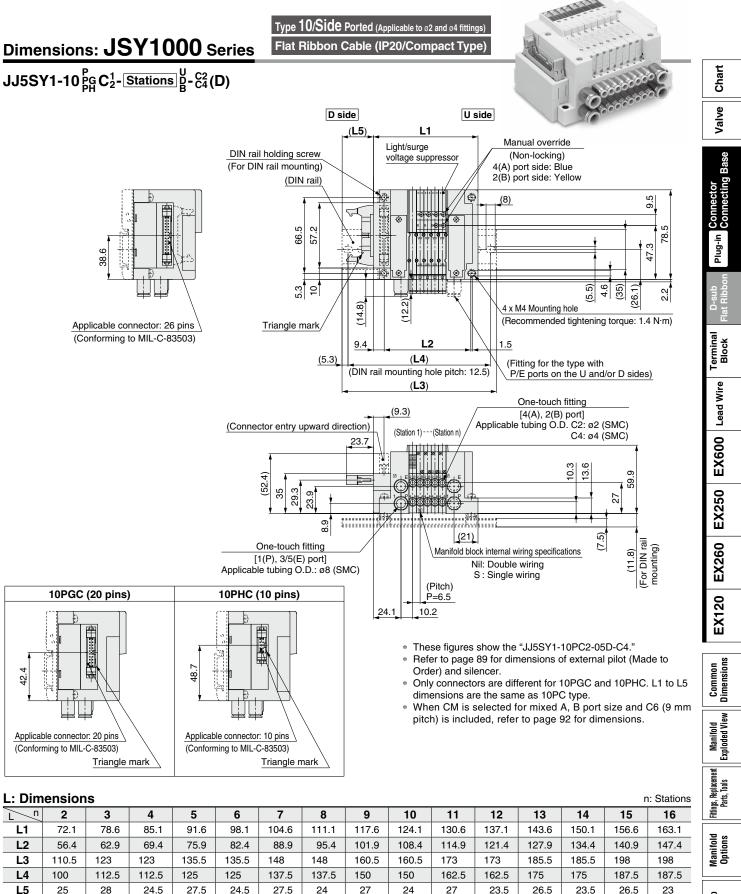
L: Dir	L: Dimensions n: Station															ations							
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	123	139	155	171	187	203	219	235	251	267	283	299	315	331	347	363	379	395	411	427	443	459	475
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5
L3	160.5	173	185.5	210.5	223	235.5	260.5	273	285.5	298	323	335.5	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5
L4	150	162.5	175	200	212.5	225	250	262.5	275	287.5	312.5	325	337.5	350	375	387.5	400	425	437.5	450	462.5	487.5	500
L5	22	20	18.5	23	21	19.5	24	22	20.5	18.5	23	21.5	19.5	18	22.5	20.5	19	23.5	21.5	20	18	22.5	21

Applicable connector: 10 pins MIL type

(Conforming to MIL-C-83503)



Applicable connector: 20 pins MIL type (Conforming to MIL-C-83503)

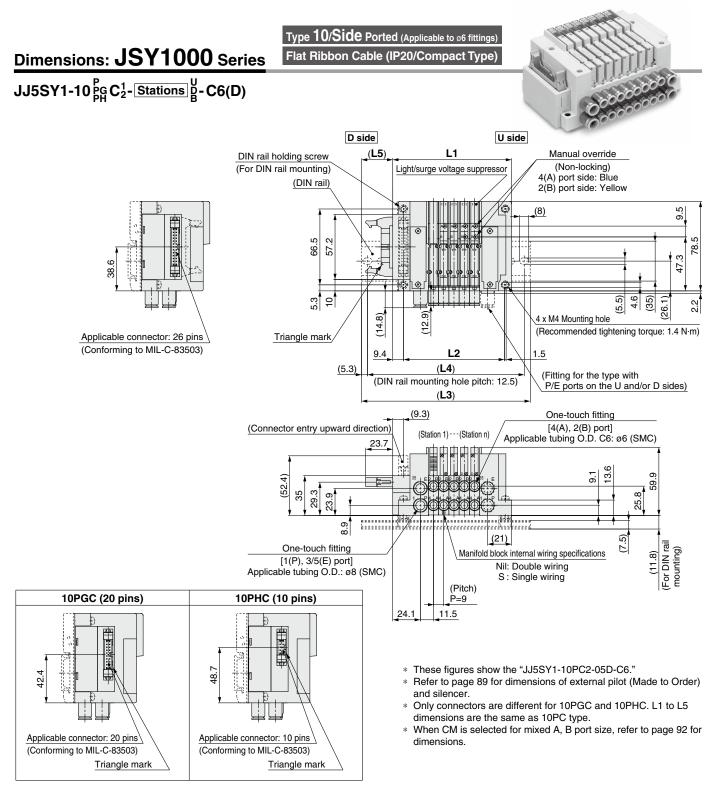


SMC

L4	100	112.5	112.5	125	125	137.5	137.5	150
L5	25	28	24.5	27.5	24.5	27.5	24	27
г/ /_	17	18	19	20	21	22	23	24
L1	169.6	176.1	182.6	189.1	195.6	202.1	208.6	215.1
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4
L3	210.5	210.5	223	235.5	235.5	248	248	260.5
L4	200	200	212.5	225	225	237.5	237.5	250
L5	26	23	26	29	25.5	28.5	25.5	28.5

Made to Order

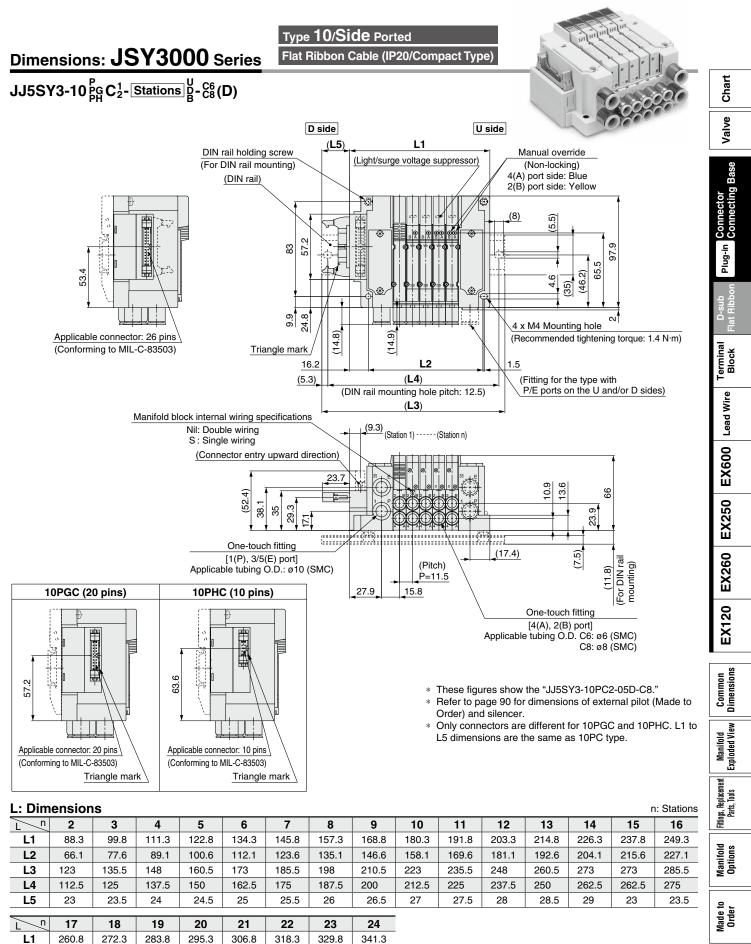
Specific Product Precautions



I · Dimensions

	CIISIOI	13										i. Stations			
L _L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	77.1	86.1	95.1	104.1	113.1	122.1	131.1	140.1	149.1	158.1	167.1	176.1	185.1	194.1	203.1
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	123	123	135.5	148	148	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	248
L4	112.5	112.5	125	137.5	137.5	150	162.5	175	175	187.5	200	200	212.5	225	237.5
L5	28.5	24	26	27.5	23	25	26.5	28.5	24	25.5	27.5	23	24.5	26.5	28
Ln	17	18	19	20	21	22	23	24							
L1	212.1	221.1	230.1	239.1	248.1	257.1	266.1	275.1							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4							
L3	248	260.5	273	285.5	285.5	298	310.5	310.5							
L4	237.5	250	262.5	275	275	287.5	300	300							
L5	23.5	25.5	27	29	24.5	26	28	23.5							
35															

n: Stations



L2

L3

L4

L5

238.6

287.5

24

298

250.1

310.5

24.5

300

261.6

312.5

25

323

273.1

335.5

25.5

325

284.6

337.5

26

348

296.1

360.5

26.5

350

307.6

362.5

27

373

319.1

385.5

27.5

375

SMC

36

Specific Product Precautions

Electrical Wiring Specifications Connector Cable 015 **D-sub connector** AXT100-DS25-030 [IP20/40] 050 С If alignment is not specified, the internal Cable 01 02 0.3 mm² x 25 cores 140 wiring is double wiring 150 160 170 180 190 200 210 220 230 240 250 (connected to SOL. a and O.D. ø1.4 03 04 SOL. b) regardless of Approx. ø10 05 06 07 08 09 number of stations, valve and option types. Seal (Length) Connector terminal no. Molded cover 010 _ 011 012 2 x M2.6 x 0.45 013 4 Connector JBZ-25S-3 С made by J.S.T. Mfg. Co.,Ltd. Terminal no. Polarity (2.4) 55 SOL.a_o 1 (-) (+)Socket side Station 1 _____<u>SOL.b</u>o 14 ·25 14 (-) (+) SOL.a Terminal no. 2 (-) (+)Station 2 SOL.b 15 (-) (+)<u>SOL.a</u> 3 (-) (+)·13 1... ~_<u>SOL.b</u>o 16 Station 3 47.04 (-) (+)SOL.a 4 (-) (+) ∽<u>SOL.b</u>∘ 17 Station 4 (-) (+) SOL.a 5 (-) (+)Station 5 <u>SOL.b</u> 18 (-) (+) <u>SOL.a</u> 6 (-) (+) Station 6 ~___<u>SOL.b</u>____19 (-) (+)SOL.a 7 (-) (+) ~____<u>SOL.b</u>_0 20 Station 7 (-) (+)SOL.a 8 (-) (+)<u>SOL.b</u>o 21 Station 8 (-) (+) SOL.a 9 (-) (+)Station 9 ~<u>SOL.b</u>o 22 (-) (+)<u>SOL.a</u> 10 (-) (+) D-sub connector cable [IP20/40 compliant] SOL.b 23 Station 10 (-)(+)SOL.a 11 Cable (-) (+) Assembly part no Note SOL.b 24 length (L) Station 11 (-) (+) <u>SOL.a</u> 12 1.5 m AXT100-DS25-015 (-) (+)Cable Station 12 AXT100-DS25-030 _____<u>SOL.b</u>o 25 3 m (+) 0.3 mm² x 25 cores (-) AXT100-DS25-050 5 m <u>COM.</u> 13 * When using a standard commercial (-) (+) connector, use a 25-pin type female Positive Negative connector conforming to MIL-C-24308. common common Cannot be used for movable wiring. * Lengths other than the above are also When using a valve with no polarity, either positive available. Please contact SMC for details. **Electrical characteristics Specified Layout** Item Property Conductor resistance 65 or less Mixed wiring of single and Ω/km. 20°C double wiring can be specified Voltage limit 1000 V. 1 minute, AC on the manifold specification \bigcirc sheet. The maximum number Insulation resistance 140 5 or more of stations is determined MΩ/km. 20°C 150 03 04 according to the number of The minimum bending radius solenoids. The total number of of the D-sub connector cable is 20 mm. solenoids should be 24 or less.

D-sub connector cable terminal numbers

Terminal no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Lead wire color	Black	Brown	Red	Orange	Yellow	Pink	Blue	Purple	Gray	White	White	Yellow	Orange	Yellow	Pink	Blue	Purple	Gray	Orange	Red	Brown	Pink	Gray	Black	White
Dot marking	None	None	None	None	None	None	None	White	Black	Black	Red	Red	Red	Black	Black	White	None	None	Black	White	White	Red	Red	White	None

Connector Manufacturers' Example

Fujitsu Limited

Japan Aviation Electronics Industry, Limited

Cable

length (L

1.5 m

3 m

5 m

015

050

86

TT

14.....25

(.....)

1..

D-sub connector cable [IP67 compliant]

Assembly part no.

SY30M-DS25-015

SY30M-DS25-030

SY30M-DS25-050

table, to satisfy enclosure IP67.

* Cannot be used for movable wiring

Be sure to use the connector cable in the

_

(86.5)

m

Cable

Approx. ø8

Seal (Length)

Connector hood

2 x M2 6 x 0 45

Connector

Socket side

JBZ-25S-3 made by

J.S.T. Mfg. Co.,Ltd.

Terminal no.

Note

0.3 mm² x 25 cores

Cable

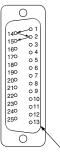
0.3 mm² x 25 cores O.D. ø1.4

SY30M-DS25-030 [IP67]

- J.S.T. Mfg. Co., Ltd.
- HIROSE ELECTRIC CO., LTD.

common or negative common can be used.

(25 pins)

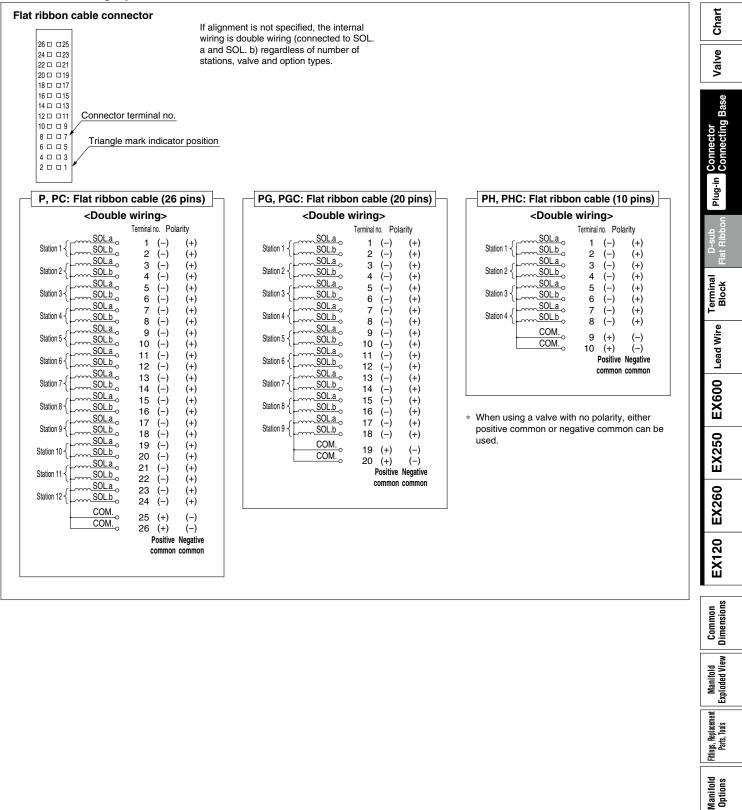


1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.

COM.

SMC

Electrical Wiring Specifications

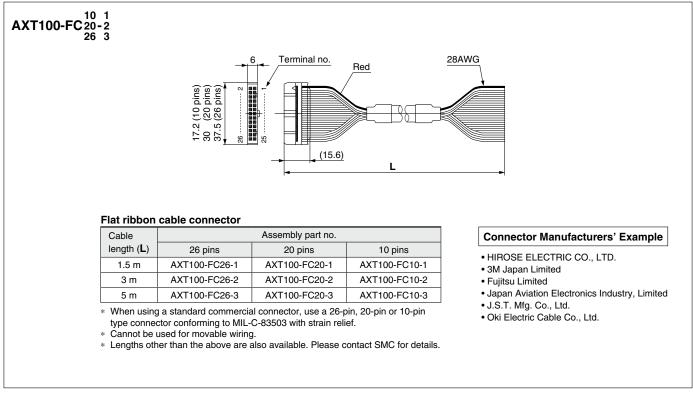


SMC

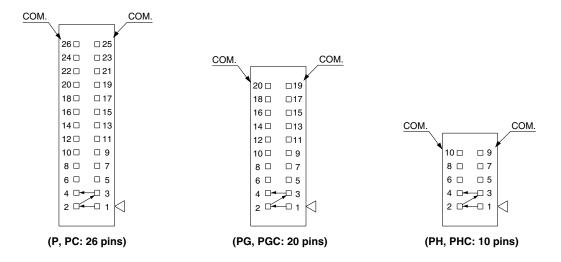
Made to Order

Specific Product Precautions

Flat Ribbon Cable Connector



Specified Layout



Mixed wiring of single and double wiring can be specified on the manifold specification. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 24 or less for P and PC, 18 or less for PG and PGC, and 8 or less for PH and PHC. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.

Chart
Valve
Plug-in Connector Connecting Base
D-sub Flat Ribbon
Terminal Block
Lead Wire
EX600
EX260 EX250
EX260
EX120
Common Dimensions
Manifold Exploded View
Fittings, Replacement Parts, Tools
Manifold Options
Made to Order
Specific Product Precautions



Plug-in Connector Connecting Base

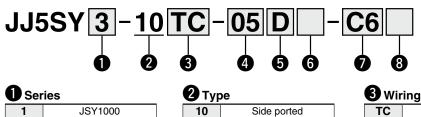
Type 10 Side Ported

JSY1000/3000/5000 Series RoHS

Spring Type Terminal Block Box Terminal Block Box

Internal Pilot

How to Order Manifolds



	100
1	JSY1000
3	JSY3000
5	JSY5000

4 Valve stations

TC:	Spring	type terminal block box	T : Te	ermina	block box
Symbol	Stations	Note	Symbol	Stations	Note
02	2 stations		02	2 stations	
:	÷	Double wiring*1		:	Double wiring*1
16	16 stations		10	10 stations	
02	2 stations	Specified layout*2	02	2 stations	Specified layout*2
		(Up to 32 solenoids			(Up to 20 solenoids
24	24 stations	available)	20	20 stations	available)

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control
- signal. If this is not desired, order with a specified layout. *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position
- valves cannot be used where single wiring has been specified.) *3 This also includes the number of blanking plates.

A, B port size (Metric/One-touch fitting)

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	—	
C4		ø4	•	—	—	
C6	Ę	ø6	•		—	
C8	Straight	ø8	_		—	
C10	ŝ	ø10	_	—		
C12		ø12	_	—		00
CM *1		Straight port, mixed sizes	•			Oktos
		port size uch fittings)	ø8	ø10	ø12	

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."

6 P. E port entry

8

тс

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

Made to

Order

Spring type terminal block box

Terminal block box

Made to Order

(Refer to page 114 for details.) Specification

External pilot (SUP/EXH block assembly)

6 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

- * 3/5(E) port is plugged for the built-in silencer type.
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 114.

8 Mounting and Option

Mounting
Direct mounting
DIN rail mounting

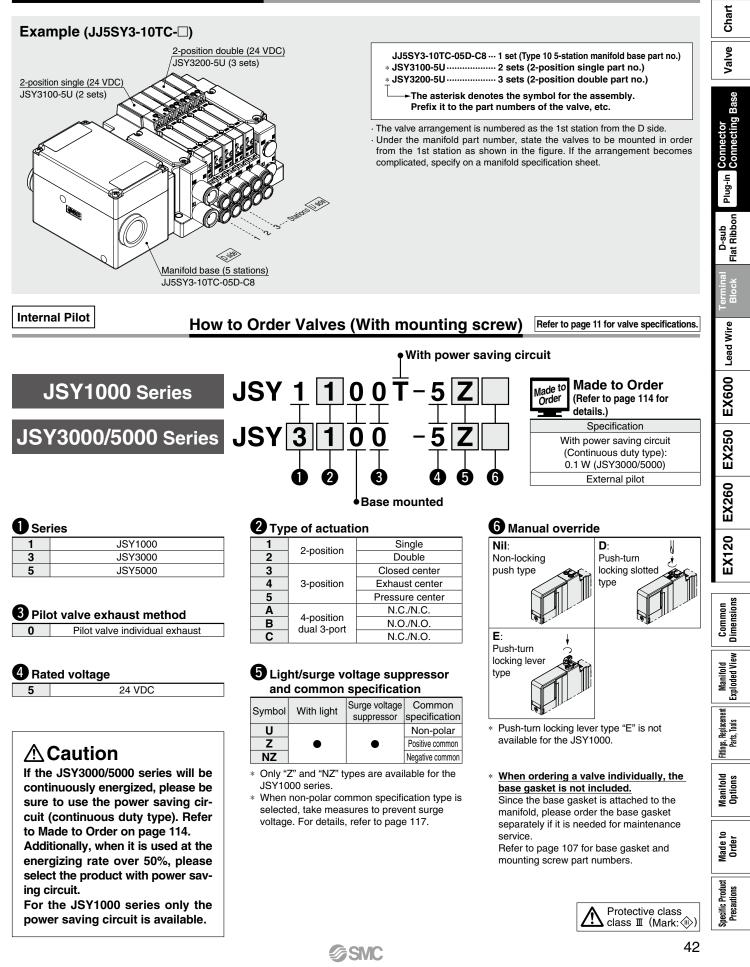
- * Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 118 for the fixation of DIN rail mounting type manifold.

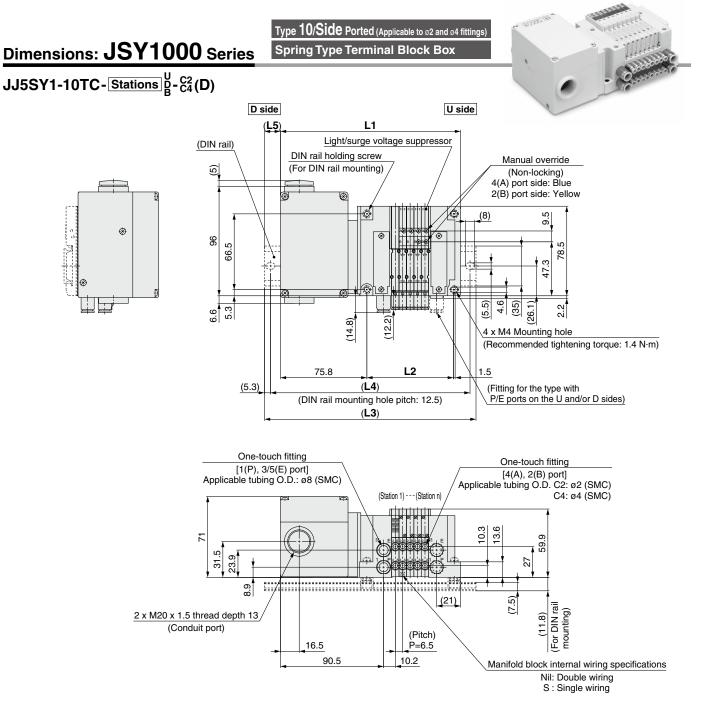
DIN Rail Option

Nil	DIN ra	DIN rail mounting (With DIN rail)										
0	DIN rail	DIN rail mounting (Without DIN rail)										
3	For 3 stations	Creatify a langer will than										
:	÷	Specify a longer rail than the standard length.										
24	For 24 stations	the standard length.										

The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

How to Order Manifold Assembly





* These figures show the "JJ5SY1-10TC-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

n: Stations

16

229.5

147.4

260.5

15.5

250

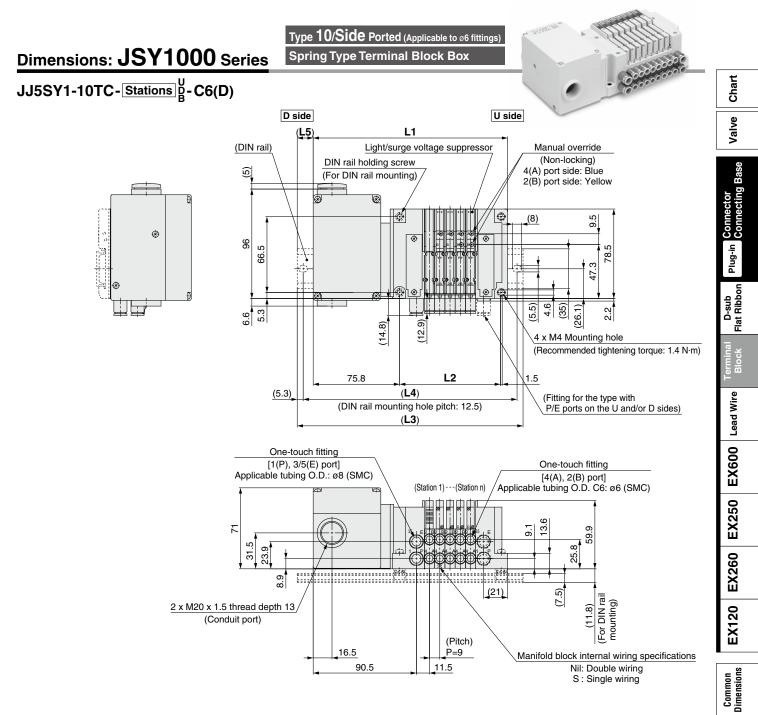
15

12.5

n 3 4 5 6 7 8 9 10 11 12 13 14 2 L1 138.5 145 164.5 177.5 190.5 203.5 151.5 158 171 184 197 210 216.5 223 L2 56.4 62.9 69.4 75.9 82.4 88.9 95.4 101.9 108.4 114.9 121.4 127.9 134.4 140.9 L3 173 173 185.5 185.5 198 198 210.5 210.5 223 223 235.5 235.5 248 248 L4 162.5 162.5 175 175 187.5 187.5 200 200 212.5 212.5 225 225 237.5 237.5 L5 17.5 14 17 14 17 13.5 13.5 16.5 13 13 16.5 16 16 17 18 19 20 21 22 23 24 242.5 L1 236 249 255.5 262 268.5 275 281.5 160.4 166.9 173.4 L2 153.9 179.9 186.4 192.9 199.4 L3 260.5 273 273 285.5 285.5 298 310.5 310.5 L4 250 262.5 262.5 275 275 287.5 300 300 L5 12.5 15.5 12 15 12 15 14.5 18

SMC

L: Dimensions



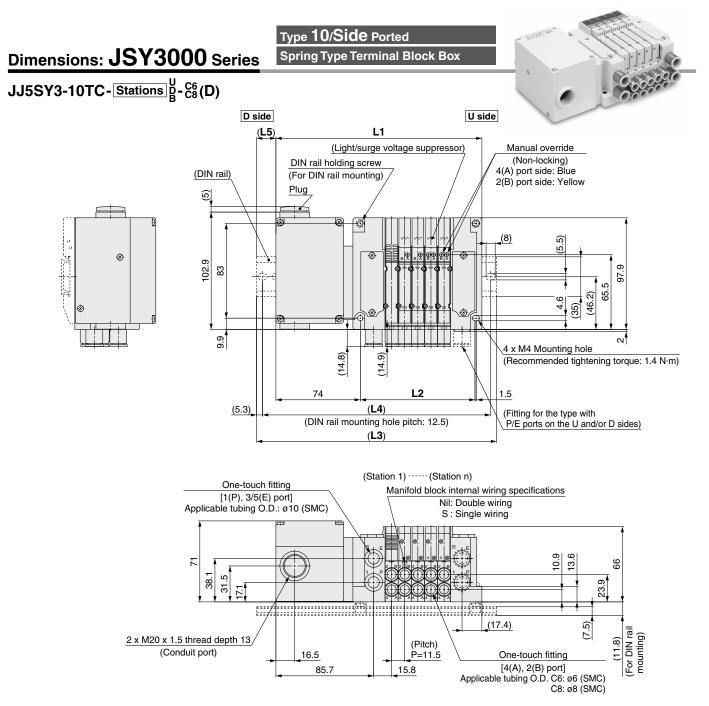
* These figures show the "JJ5SY1-10TC-05D-C6."

Refer to page 89 for dimensions of external pilot (Made to Order) and silencer. *

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

																L
L: Dim	n: Stations															Fittings, Replacement Parts, Tools
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	H
L1	143.5	152.5	161.5	170.5	179.5	188.5	197.5	206.5	215.5	224.5	233.5	242.5	251.5	260.5	269.5	
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	Manifold Options
L3	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5	273	285.5	285.5	298	Opt
L4	162.5	175	175	187.5	200	212.5	212.5	225	237.5	237.5	250	262.5	275	275	287.5	
L5	15	16.5	12	14	15.5	17.5	13	14.5	16.5	12	13.5	15.5	17	12.5	14.5	<u>ع</u> _
																ie ie
L	17	18	19	20	21	22	23	24								Made to Order
L1	278.5	287.5	296.5	305.5	314.5	323.5	332.5	341.5								
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4								2 Inct
L3	310.5	323	323	335.5	348	348	360.5	373	-							Pro
L4	300	312.5	312.5	325	337.5	337.5	350	362.5								Specific Product Precautions
L5	16	18	13.5	15	17	12.5	14	16	-							\$
	©SVC 44													44		

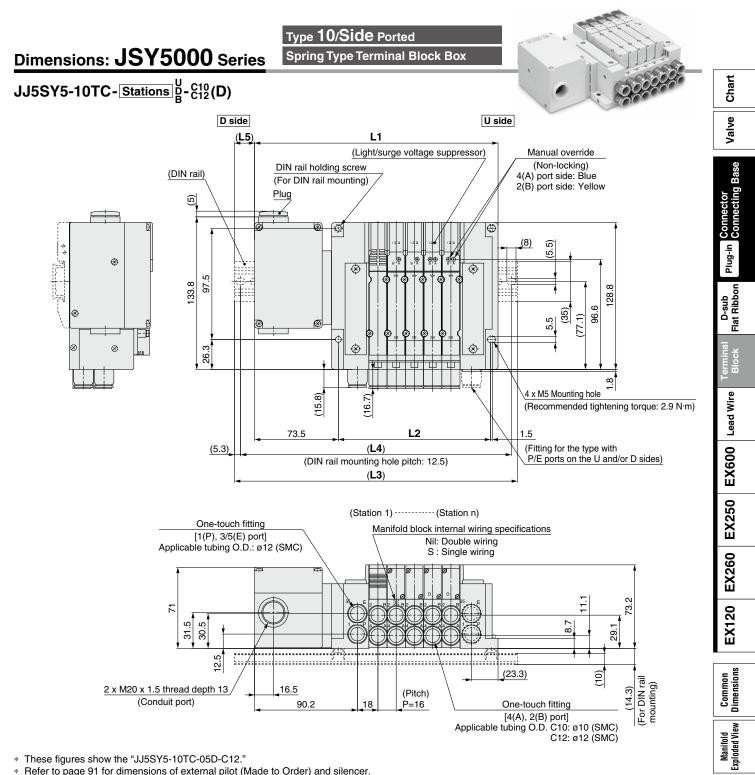
Manifold Exploded View



* These figures show the "JJ5SY3-10TC-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	L: Dimensions														
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	146.1	157.6	169.1	180.6	192.1	203.6	215.1	226.6	238.1	249.6	261.1	272.6	284.1	295.6	307.1
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5	298	310.5	323	335.5
L4	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275	287.5	300	312.5	325
L5	13.5	14	14.5	15	15.5	16	16.5	17	17.5	11.5	12	12.5	13	13.5	14
, _ n	47	10	40		04										
L /	17	18	19	20	21	22	23	24							
L1	318.6	330.1	341.6	353.1	364.6	376.1	387.6	399.1							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	348	360.5	373	385.5	398	410.5	423	423							
L4	337.5	350	362.5	375	387.5	400	412.5	412.5							
L5	14.5	15	15.5	16	16.5	17	17.5	12	-						
45							S	SMC							

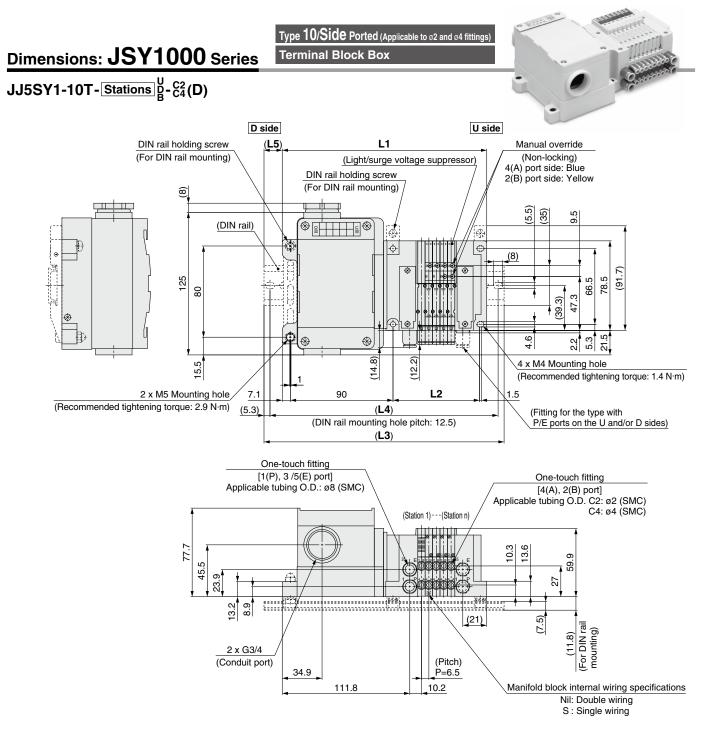


* These figures show the "JJ5SY5-10TC-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ensior	IS												r	n: Stations	Fittings, Repla Parts, To
L _ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
L1	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	325.5	341.5	357.5	373.5	389.5	
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	Manifold Options
L3	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423	Mar Opt
L4	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5	
L5	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	17	ᅌ
									-							Made to Order
L n	17	18	19	20	21	22	23	24	_							0 Ma
L1	405.5	421.5	437.5	453.5	469.5	485.5	501.5	517.5	_							
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5								duct 1S
L3	435.5	448	473	485.5	498	510.5	535.5	548								ecific Produ Precautions
L4	425	437.5	462.5	475	487.5	500	525	537.5								Specific Product Precautions
L5	15	13.5	18	16	14.5	12.5	17	15.5	-							5
							Ø 3	SMC	-						46	

Fittings, Replacement Parts, Tools



* These figures show the "JJ5SY1-10T-05D-C4."

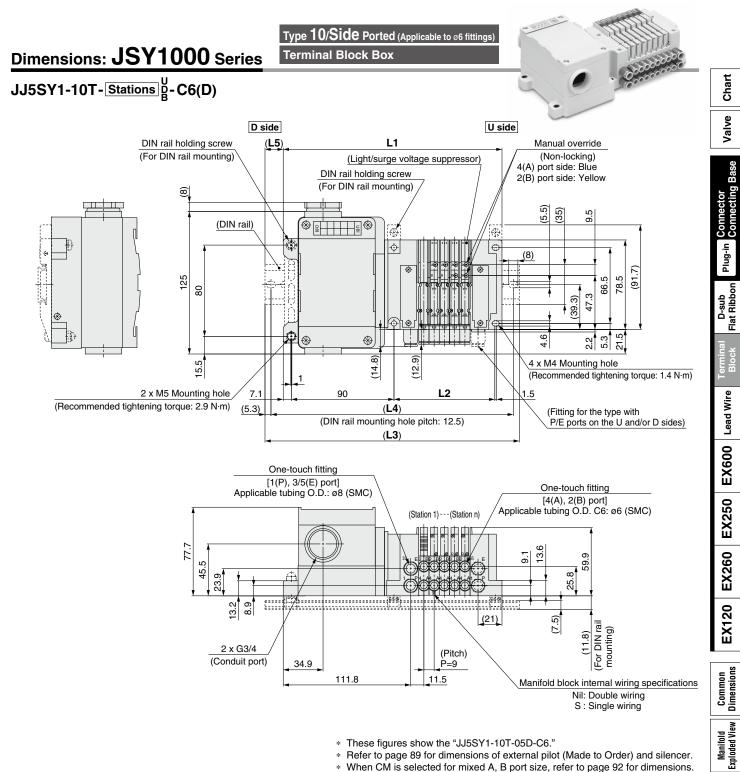
* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer. * When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included,

refer to page 92 for dimensions.

L: Dim	ension	IS												r	: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	159.8	166.3	172.8	179.3	185.8	192.3	198.8	205.3	211.8	218.3	224.8	231.3	237.8	244.3	250.8
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	185.5	198	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5	273	273	285.5
L4	175	187.5	187.5	200	200	212.5	212.5	225	225	237.5	237.5	250	262.5	262.5	275
L5	13	16	13	16	13	16	12	15	12	15	12	15	18	15	18

L n	17	18	19	20
L1	257.3	263.8	270.3	276.8
L2	153.9	160.4	166.9	173.4
L3	285.5	298	298	310.5
L4	275	287.5	287.5	300
L5	14	17	14	17
4-				

SMC



* These figures show the "JJ5SY1-10T-05D-C6."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dim	ension	IS												r	n: Stations	
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
L1	164.8	173.8	182.8	191.8	200.8	209.8	218.8	227.8	236.8	245.8	254.8	263.8	272.8	281.8	290.8	
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	
L3	198	198	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	298	298	310.5	323	
L4	187.5	187.5	200	212.5	225	225	237.5	250	250	262.5	275	287.5	287.5	300	312.5	Ļ
L5	17	12	14	16	18	13	15	17	12	14	16	17	13	15	16	
				•	•		-	~			•	~	•			

SMC

 /з	17	18	19	20
L1	299.8	308.8	317.8	326.8
L2	196.4	205.4	214.4	223.4
L3	323	335.5	348	360.5
L4	312.5	325	337.5	350
L5	12	14	15	17

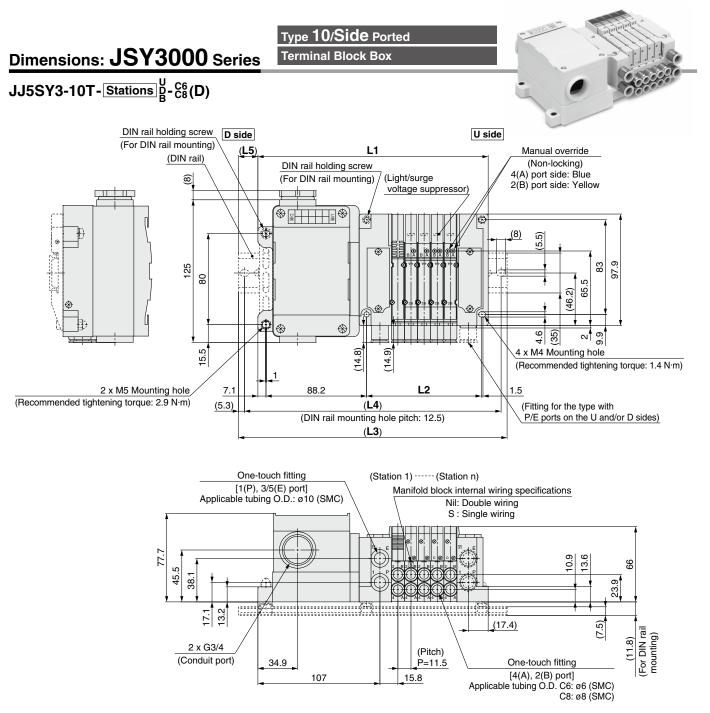
48

Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

Specific Product Precautions

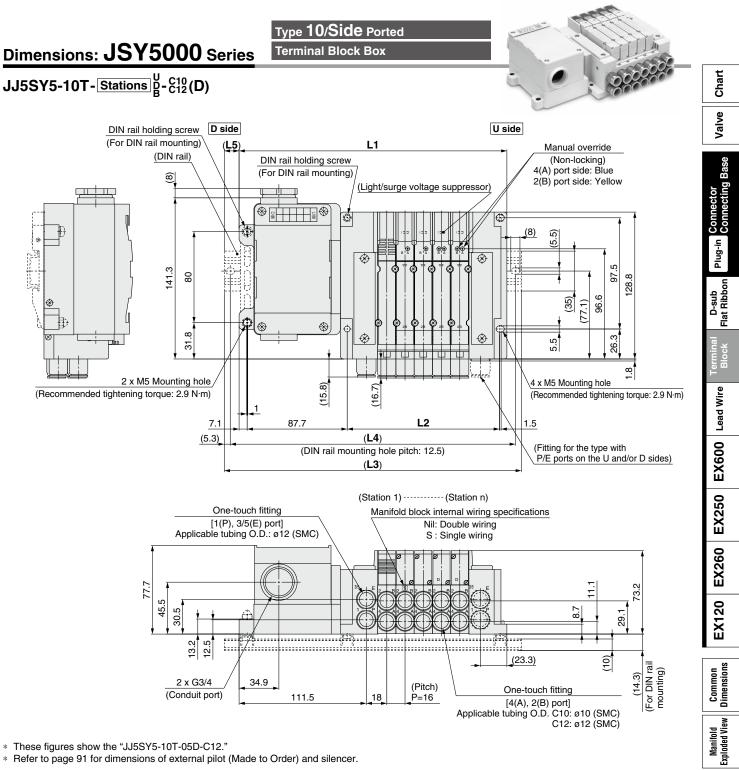


* These figures show the "JJ5SY3-10T-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ension	IS												r	n: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	167.4	178.9	190.4	201.9	213.4	224.9	236.4	247.9	259.4	270.9	282.4	293.9	305.4	316.9	328.4
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	198	210.5	223	235.5	248	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5
L4	187.5	200	212.5	225	237.5	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350
L5	16	16	17	17	18	12	12	13	13	14	14	15	15	16	16

Ln	17	18	19	20
L1	339.9	351.4	362.9	374.4
L2	238.6	250.1	261.6	273.1
L3	373	385.5	398	398
L4	362.5	375	387.5	387.5
L5	17	17	18	12
40		•		



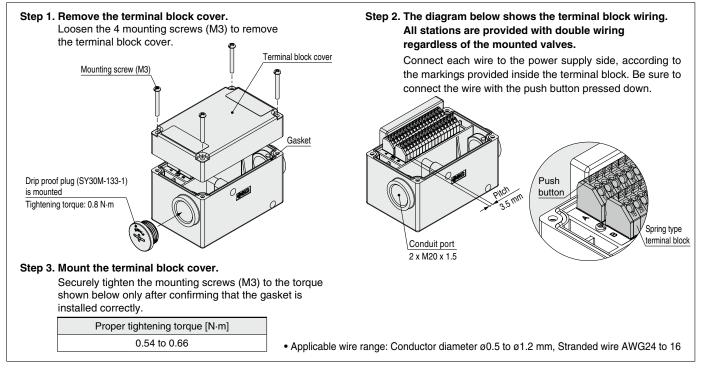
* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ension	IS												r	n: Stations	Fittings, Replacement Parts, Tools
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Hin
L1	186.8	202.8	218.8	234.8	250.8	266.8	282.8	298.8	314.8	330.8	346.8	362.8	378.8	394.8	410.8	3
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	Manifold Options
L3	210.5	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373	398	410.5	423	435.5	Opt
L4	200	225	237.5	250	275	287.5	300	312.5	337.5	350	362.5	387.5	400	412.5	425	
L5	12	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	₽
<u> </u>	47	10	10	00												Made t Order
L n	17	18	19	20	_											l ≌ o

Ln	17	18	19	20
L1	426.8	442.8	458.8	474.8
L2	325.5	341.5	357.5	373.5
L3	460.5	473	485.5	498
L4	450	462.5	475	487.5
L5	17	15	13.5	11.5

Specific Product Precautions

Spring Type Terminal Block "TC" Connection



Electrical Wiring Specifications (IP67 compliant)

D C	∕⊳
لکا للی)]⊴ ())

If alignment is not specified, the internal wiring will be double wiring (connected to SOL. a and SOL. b) regardless of number of stations, valve types, and option types.

* When using a valve with no polarity, either positive common or negative common can be used.

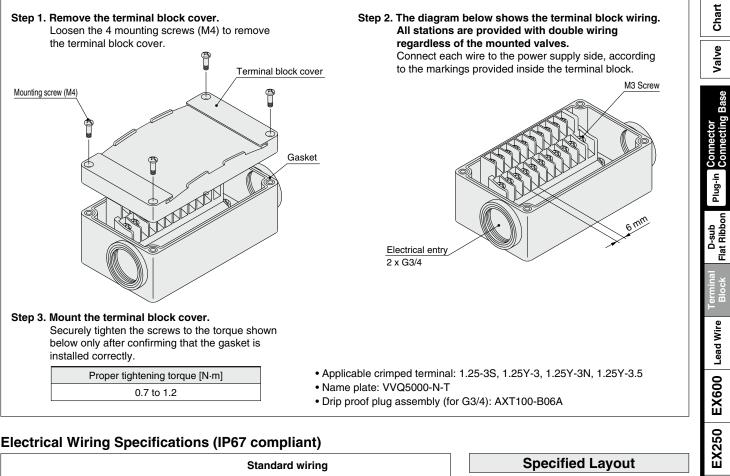
· ·	•	,									
S	Standard wiring										
		minal no	o. Pola	rity							
.	<u>SOL.a</u> o	1A	(-)	(+)							
Station 1	SOL.b	1B	(-)	(+)							
	SOL.a_o	2A	(-)	(+)							
Station 2	SOL.b	2B	(-)	(+)							
Station 3	SOL.a	ЗA	(-)	(+)							
Station 3	SOL.b	ЗB	(-)	(+)							
Station 4	<u>SOL.a</u>	4A	(–)	(+)							
Station 4	<u>SOL.b</u>	4B	(–)	(+)							
Station 5	<u>SOL.a</u>	5A	(–)	(+)							
	<u>SOL.b</u> o <u>SOL.a</u> o	5B	(–)	(+)							
Station 6	<u>SOL.a</u> o	6A	(–)	(+)							
	<u>SOL.a</u>	6B	(–)	(+)							
Station 7	<u>SOL.b</u> _	7A	(-)	(+)							
(SOL.a_	7B	(-)	(+)							
Station 8	SOL.b	8A	(-)	(+)							
	SOL.a_o	8B	(-)	(+) (+)							
Station 9	SOL.b	9A	(-)	(+) (+)							
	SOL.a_	9B 10A	(-)	(+) (+)							
Station 10	SOL.b	10A 10B	(–) (–)	(+)							
	<u>SOL.a</u> o	11A	(-) (-)	(+)							
Station 11	SOL.b	11B	(-) (-)	(+)							
(•	SOL.a_	12A	(-)	(+)							
Station 12	SOL.b	12B	(-)	(+)							
(*	SOL.a_	13A	(-)	(+)							
Station 13	SOL.b_	13B	(-)	(+)							
	SOL.a_	14A	(-)	(+)							
Station 14	SOL.b_o	14B	(-)	(+)							
	SOL.a_o	15A	(-)	(+)							
Station 15	SOL.b_	15B	(-)	(+)							
Station 16	<u>SOL.a</u>	16A	(–)	(+)							
Station 16	SOL.b_	16B	(-)	(+)							
•	o	COM.	(+)	(-)							
L	0	COM.	(+)	(-)							
		P	ositive N	legative							
		C	ommon d	ommon							

Specified Layout

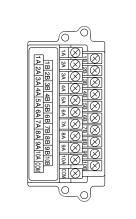
A mixture of single and double wiring can be specified on the manifold specification sheet. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 32 or less. 1 solenoid is required for the 2-position single, and 2 solenoids for the 2-position double, 3-position, and 4-position.

	3A (D)
	× D
	×
	7 (D
	\$¢D \\
	SCD N
	Š(D)
	F(D)
	Ī (D
	S OD
	₽CD)
SECD N	5CD
	Ī D
	<u>S</u> D
C	

Terminal Block "T" Connection



Electrical Wiring Specifications (IP67 compliant)



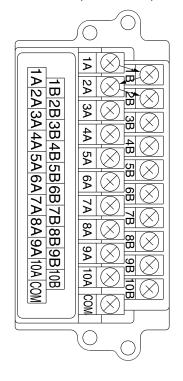
If alignment is not specified, the internal wiring is double wiring (connected to SOL. a and SOL. b) regardless of number of stations, valve and option types.

* When using a valve with no polarity, either positive common or negative common can be used.

			,		
	Standard	wiri	ng		
		minal	no. Pola	arity	
Station 1 $\left\{ \right.$	SOL.a SOL.b	1A 1B	(-) (-)	(+) (+)	
Station 2 $\left\{ \right.$	SOL.a SOL.b	2A	(-)	(+)	
Station 3 {	SOL.a SOL.b	2B 3A	(–) (–)	(+) (+)	
((SOL.a	3B 4A	(-) (-)	(+) (+)	
Station 4 {	SOL.b SOL.a	4B	(-)	(+)	
Station 5 $\Big\{$	SOL.b SOL.a	5A 5B	(-) (-)	(+) (+)	
Station 6 $\Big\{$	SOL.b	6A 6B	(-) (-)	(+) (+)	
Station 7 $\left\{ \right.$	SOL.a SOL.b	7A 7B	(-) (-)	(+) (+)	
Station 8 {	SOL.a SOL.b	8A	(-)	(+)	
Station 9 {	SOL.a	8B 9A	(-) (-)	(+) (+)	
(SOL.b SOL.a	9B 10A	(-) (-)	(+) (+)	
Station 10 {	SOL.b	10B	(-)	(+)	
	o	COM.	(+)	(–)	
			Positive common	Negative common	

Specified Layout

Mixed wiring of single and double wiring can be specified on the manifold specification sheet. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 20 or less. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.





EX260

Plug-in Connector Connecting Base

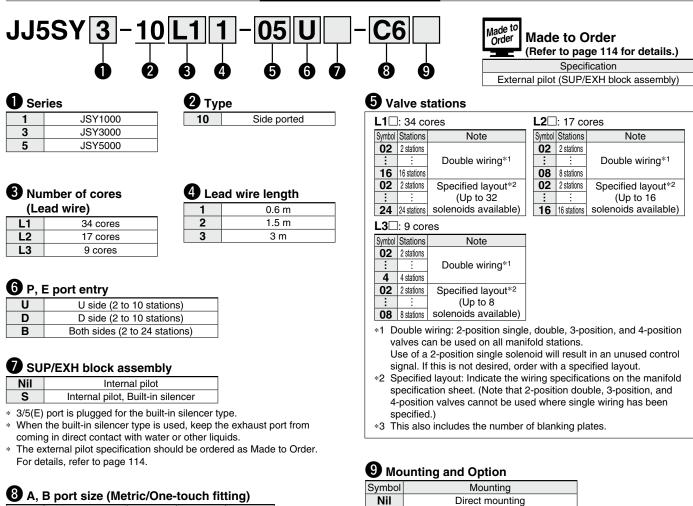
Lead Wire

JSY1000/3000/5000 Series

Internal Pilot

Type 10 Side Ported

How to Order Manifolds



	_				- 0,	
ymbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2		—	—	

	C2		ø2	•	—	—				
	C4		ø4	•	—	—				
	C6	Ę	ø6	•		—				
	C8	Straight	ø8	_		—				
	C10	l t s	ø10	_	_					
ĺ	C12					ø12	_	_		00
	CM*1		Straight port, mixed sizes	•		•	Oktos			
			port size uch fittings)	ø8	ø10	ø12				

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."

The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

shown below.) Refer to page 118 for the fixation of DIN rail mounting type

manifold. DIN Rail Option

 $\mathsf{D}\square$

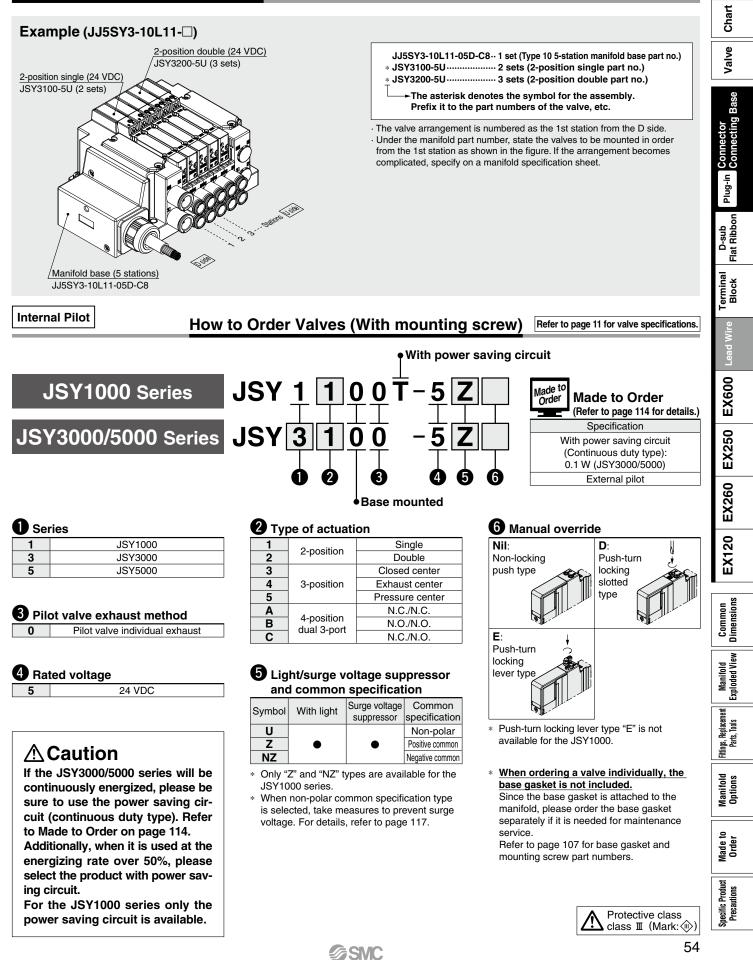
Nil	DIN ra	il mounting (With DIN rail)									
0		DIN rail mounting (Without DIN rail)									
3	For 3 stations	For 3 stations									
:	÷	Specify a longer rail than the standard length.									
24	For 24 stations the standard length.										

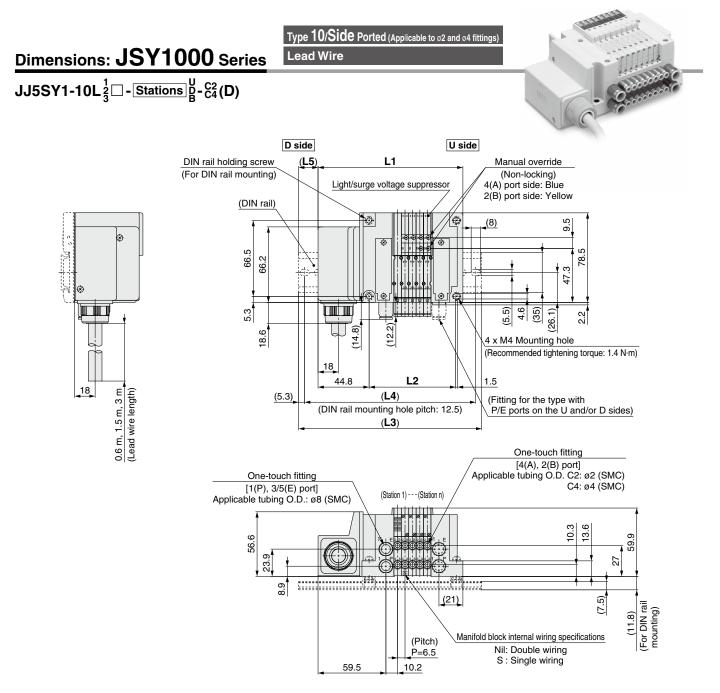
DIN rail mounting

Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option"

Sy

How to Order Manifold Assembly



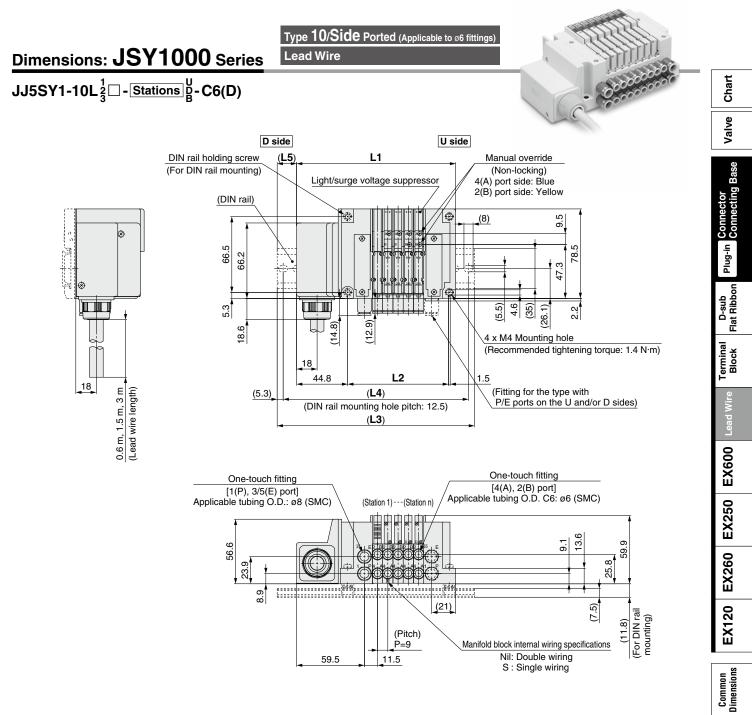


∗ These figures show the "JJ5SY1-10L1□-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	L: Dimensions n: Stations														
L _ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	107.5	114	120.5	127	133.5	140	146.5	153	159.5	166	172.5	179	185.5	192	198.5
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223	223
L4	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5	212.5
L5	14	17	14	17	13.5	16.5	13.5	16.5	13	16	13	16	12.5	15.5	12.5
∖_ n	47	10	10	00	01	00	00	04							
	17	18	19	20	21	22	23	24							
L1	205	211.5	218	224.5	231	237.5	244	250.5							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	235.5	235.5	248	248	260.5	273	273	285.5							
L4	225	225	237.5	237.5	250	262.5	262.5	275							
L5	15.5	12	15	12	15	18	14.5	17.5							
55							\$	SMC							



∗ These figures show the "JJ5SY1-10L1□-05D-C6."

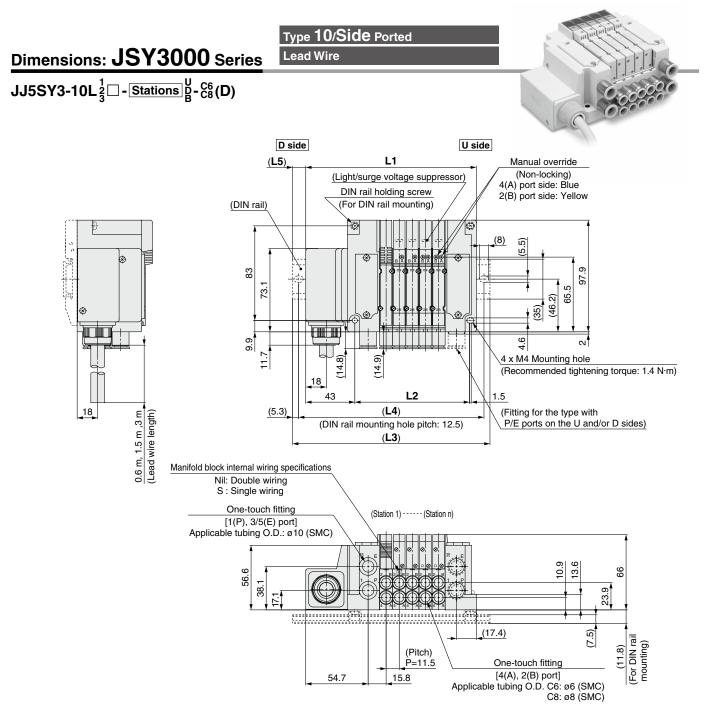
* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dim	ensior	ıs												r	n: Stations	Fittings, Replacement Parts, Tools
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
L1	112.5	121.5	130.5	139.5	148.5	157.5	166.5	175.5	184.5	193.5	202.5	211.5	220.5	229.5	238.5	
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	ions
L3	148	148	160.5	173	173	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	273	Manifold Options
L4	137.5	137.5	150	162.5	162.5	175	187.5	200	200	212.5	225	225	237.5	250	262.5	
L5	18	13.5	15	17	12.5	14	16	17.5	13	15	16.5	12	14	15.5	17.5	a -
																e e
Ln	17	18	19	20	21	22	23	24								Made to Order
L1	247.5	256.5	265.5	274.5	283.5	292.5	301.5	310.5								
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4								duct IS
L3	273	285.5	298	298	310.5	323	335.5	335.5								C Pro
L4	262.5	275	287.5	287.5	300	312.5	325	325								Specific Product Precautions
L5	13	14.5	16.5	12	13.5	15.5	17	12.5								s,
	·	•							-						FC	

SMC

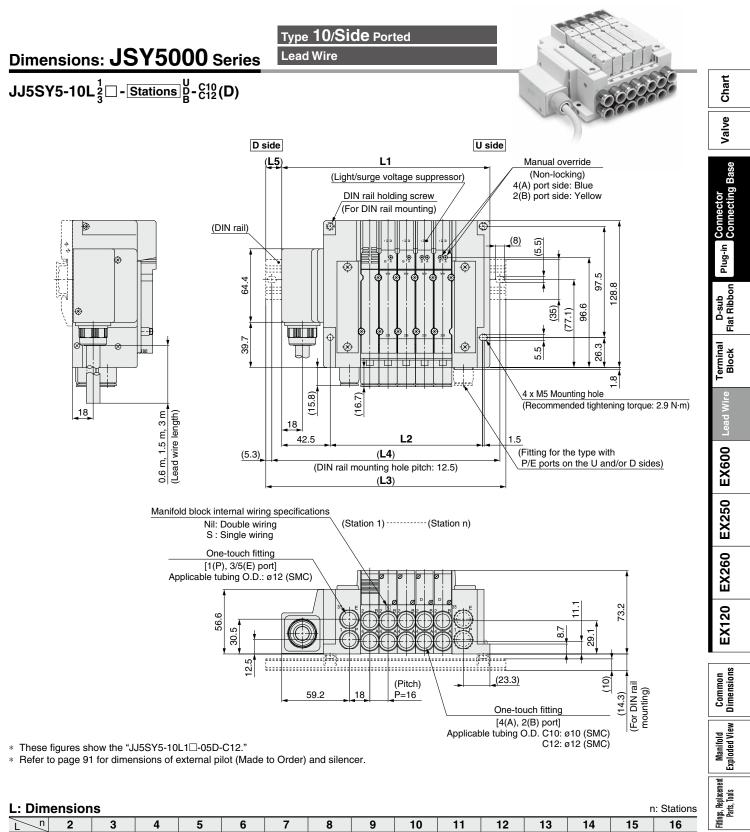
Manifold Exploded View



∗ These figures show the "JJ5SY3-10L1□-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

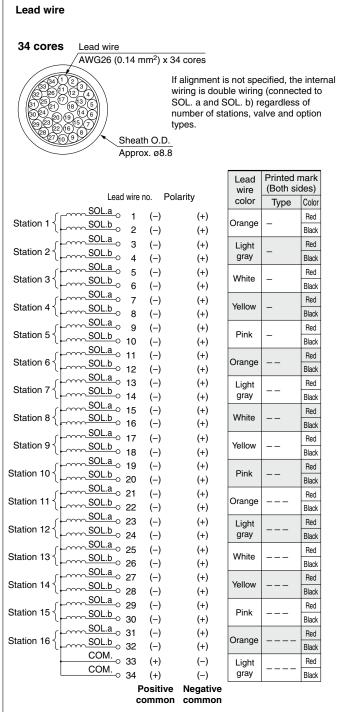
L: Dim	L: Dimensions n: Stations														
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	115.1	126.6	138.1	149.6	161.1	172.6	184.1	195.6	207.1	218.6	230.1	241.6	253.1	264.6	276.1
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	148	160.5	173	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5
L4	137.5	150	162.5	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300
L5	16.5	17	17.5	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17
, _ n	17	10	10	- 00	01	00	00	04							
	17	18	19	20	21	22	23	24							
L1	287.6	299.1	310.6	322.1	333.6	345.1	356.6	368.1							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	323	323	335.5	348	360.5	373	385.5	398							
L4	312.5	312.5	325	337.5	350	362.5	375	387.5							
L5	17.5	12	12.5	13	13.5	14	14.5	15							
57							Ø\$	SMC							



L: Dim	ension	IS												r	n: Stations	Fittings, Repl Parts, Tc
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
L1	134.5	150.5	166.5	182.5	198.5	214.5	230.5	246.5	262.5	278.5	294.5	310.5	326.5	342.5	358.5	
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	Manifold Options
L3	173	185.5	198	210.5	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373	398	Mar Opt
L4	162.5	175	187.5	200	225	237.5	250	275	287.5	300	312.5	337.5	350	362.5	387.5	
L5	19.5	17.5	16	14	18.5	17	15	19.5	18	16	14.5	19	17	15.5	20	ᅌ
<u> </u>																Made to Order
L n	17	18	19	20	21	22	23	24	_							0 Ma
L1	374.5	390.5	406.5	422.5	438.5	454.5	470.5	486.5								
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5								duct 1S
L3	410.5	423	435.5	460.5	473	485.5	510.5	523								aution
L4	400	412.5	425	450	462.5	475	500	512.5								Specific Product Precautions
L5	18	16.5	14.5	19	17.5	15.5	20	18.5	-							5
							6	SMC	-						58	

58

Electrical Wiring Specifications



* For negative common specification, a valve for negative common or a valve without polarity should be used.

Specified Layout

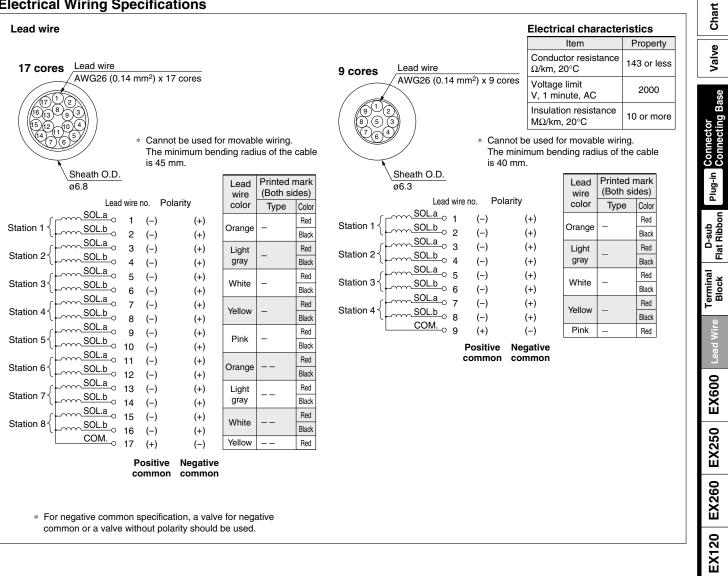
Mixed wiring of single and double wiring can be specified on the manifold specification. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 32 or less. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.

Electrical characteristics

Item	Property
Conductor resistance Ω/km , 20°C	143 or less
Voltage limit V, 1 minute, AC	2000
Insulation resistance MΩ/km, 20°C	10 or more

Cannot be used for movable wiring. The minimum bending radius of the cable is 55 mm.

Electrical Wiring Specifications



SMC

common or a valve without polarity should be used.

Common Dimensions

Exploded View Manifold

, Replacement Fittings, Replacem Parts, Tools

Manifold Options

9 Made ti Order

Specific Product Precautions

Plug-in Connector Connecting Base

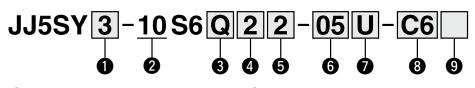
EX600

JSY100/3000/5000 Series

Internal Pilot

Type 10 Side Ported

How to Order Manifolds



Series

-	
1	JSY1000
3	JSY3000
5	JSY5000

2 Туре

10 Side ported

3 SI unit

0	Without SI unit					
Q	DeviceNet™ (Version A)					
Ν	PROFIBUS DP (Version A)					
V	CC-Link					
ZE	EtherNet/IP™ (1 port)					
EA	EtherNet/IP™ (2 ports)					
D	EtherCAT					
F	PROFINET					
WE	EtherNet/IP [™] compatible wireless master ^{*1}					
WF PROFINET compatible wireless master*1						
WS	Wireless slave*1					

 *1 The wireless system is suitable for use only in a country where it is in accordance with the Radio Act and regulations of that country.
 * I/O unit cannot be mounted without SI unit.

 Valve plate which connects manifold and SI unit is included, but it is not mounted to a valve without SI unit. Refer to the EX600 (page 101) for mounting.

P, E port entry, SUP/EXH block assembly

P, E port entry	Internal pilot	Internal pilot, Built-in silencer
U side (2 to 10 stations)	U	C
D side (2 to 10 stations)	D	E
Both sides (2 to 24 stations)	В	F

* 3/5(E) port is plugged for the built-in silencer type.

* When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

* The external pilot specification should be ordered as Made to Order. For details, refer to page 114.

8 A, B port size (Metric/One-touch fitting)

Symbol A, B port JSY1000 JSY3000 JSY5000

		, _ p				
C2		ø2	•	—	—	
C4		ø4	•	_	_	
C6	Ę	ø6	•	•	_	
C8	raight	ø8	—		_	
C10	ŝ	ø10	—	—		
C12		ø12	_	—		00
CM*1		Straight port, mixed sizes	•			- Oktos
		port size uch fittings)	ø8	ø10	ø12	

 *1 Indicate the sizes on the manifold specification sheet in the case of "CM."
 * The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

SI unit output polarity, End plate type

SI unit output polarity	Power supply with M12 connector	Power supply with 7/8 inch connector	Power supply with M12 connector: INOUT pin arrangement 1	Power supply with M12 connector: IN/OUT pin arrangement 2
Without SI unit		N	il	
SI unit positive common	2	3	6	8
SI unit negative common	4	5	7	9

 Ensure a match with the common specification of the valve to be used.

Without SI unit, the symbol is nil.

5 I/O unit stations

-	
Nil	None
1	1 station
:	
9	9 stations

* Without SI unit, the symbol is nil.

- * SI unit is not included in I/O unit stations.
- * When I/O unit is selected, it is shipped
- separately, and assembled by users. Refer to the attached operation manual for mounting.

Made to Order (Refer to page 114 for details.) Specification External pilot (SUP/EXH block assembly) O Valve stations Symbol Stations Note

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring ^{*1}
16	16 stations	
02	2 stations	Creational lowerst*2
:	:	Specified layout*2 (Up to 32 solenoids available)
24	24 stations	(Op to 52 solenoids available)

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- This also includes the number of blanking plates.

9 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- * Enter the number of stations inside \Box when it is larger than the
- number of valve stations. (Refer to "DIN Rail Option" shown below.) * Refer to page 118 for the fixation of DIN rail mounting type manifold.

DIN Rail Option

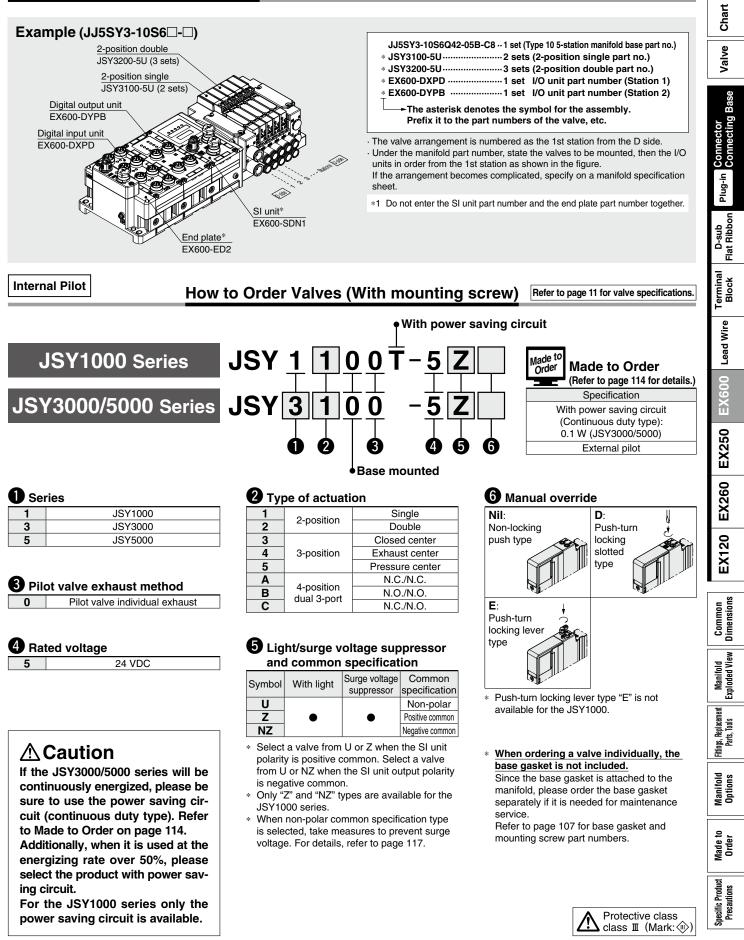
	option	
Nil	DIN rail n	nounting (With DIN rail)
0	DIN rail n	nounting (Without DIN rail)
3	For 3 stations	
:	:	Specify a longer rail than the standard length.
24	For 24 stations	

If the DIN rail must be mounted without an SI unit, select D0. Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)

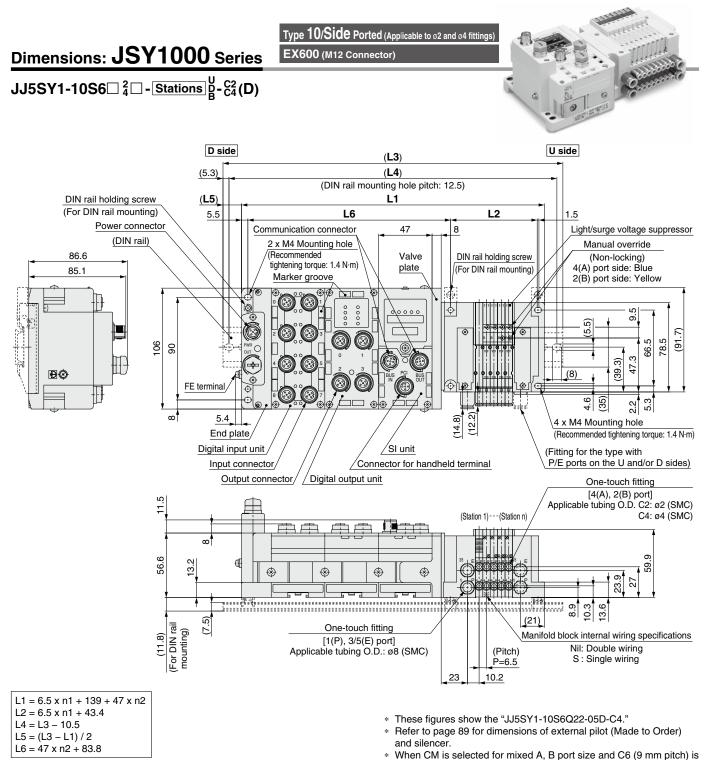
For details about the EX600 Integrated Type (For Input/Output) Serial Transmission System, refer to the **Web Catalog** and the Operation Manual. For details about part numbers of SI units to be mounted, refer to pages 101 and 102. (IP40 specifications may be required according to the I/O unit to be selected.) Please download the Operation Manual via SMC website, https://www.smcworld.com



How to Order Manifold Assembly



多SMC



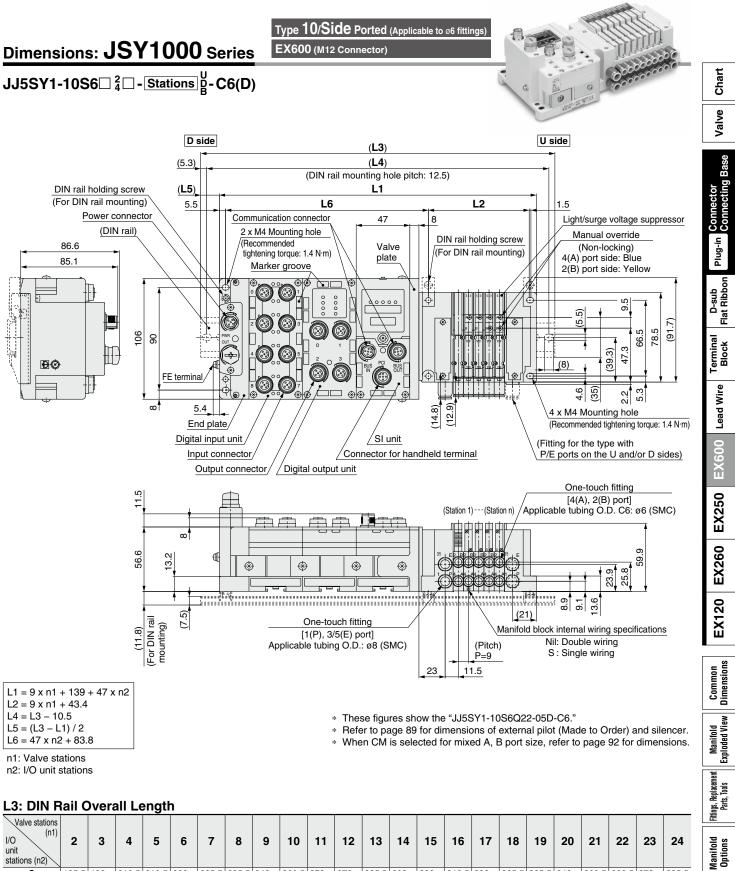
n1: Valve stations n2: I/O unit stations

L3: DIN Rail Overall Length

Valve stations (n1) I/O 2 24 3 4 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 5 6 23 unit stations (n2) 185.5 185.5 198 198 210.5 210.5 223 223 235.5 235.5 248 248 260.5 260.5 273 273 285.5 298 298 310.5 310.5 323 323 0 223 235.5 235.5 248 260.5 260.5 273 273 285.5 285.5 298 298 310.5 310.5 323 323 335.5 335.5 348 348 360.5 360.5 373 385.5 385.5 398 2 273 285.5 285.5 298 298 310.5 310.5 323 323 335.5 335.5 348 348 360.5 360.5 373 398 410.5 410.5 423 3 323 323 335.5 348 348 360.5 360.5 373 373 385.5 385.5 398 398 410.5 410.5 423 423 435.5 435.5 448 448 460.5 460.5 385.5 385.5 398 398 410.5 423 435.5 435.5 448 460.5 473 485.5 485.5 498 498 510.5 373 373 410.5 423 448 473 510.5 4 473 5 410.5 423 435.5 435.5 448 448 460.5 460.5 473 485.5 485.5 498 498 510.5 510.5 523 523 535.5 535.5 548 548 560.5 6 485.5 485.5 498 510.5 510.5 523 560.5 560.5 573 585.5 598 610.5 460.5 473 473 498 523 535.5 535.5 548 573 585.5 598 7 510.5 523 523 535.5 535.5 548 548 560.5 560.5 573 573 585.5 585.5 598 598 610.5 610.5 623 623 635.5 635.5 648 648 585.5 585.5 598 598 685.5 685.5 698 8 560.5 560.5 573 573 610.5 610.5 623 623 635.5 648 648 660.5 660.5 673 673 698 9 610.5 610.5 623 623 635.5 635.5 648 648 660.5 660.5 673 673 685.5 685.5 698 698 710.5 710.5 723 723 735.5 735.5 748

included, refer to page 92 for dimensions.





| Valve stations | | | | | | | | | | |

 |
 | | | | |
 | | | |
 | | | _ |
|------------------------------|---|--|---|--|---|---|---|---|---|--
--

--
--|---|--|--|---|--
---|---|--
---|---|--|---|
| I/O
unit
stations (n2) | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12

 | 13
 | 14 | 15 | 16 | 17 | 18
 | 19 | 20 | 21 | 22
 | 23 | 24 | Manifold
Options |
| 0 | 185.5 | 198 | 210.5 | 210.5 | 223 | 235.5 | 235.5 | 248 | 260.5 | 273 | 273

 | 285.5
 | 298 | 298 | 310.5 | 323 | 335.5
 | 335.5 | 348 | 360.5 | 360.5
 | 373 | 385.5 | |
| 1 | 235.5 | 248 | 248 | 260.5 | 273 | 273 | 285.5 | 298 | 310.5 | 310.5 | 323

 | 335.5
 | 335.5 | 348 | 360.5 | 373 | 373
 | 385.5 | 398 | 410.5 | 410.5
 | 423 | 435.5 | |
| 2 | 285.5 | 285.5 | 298 | 310.5 | 310.5 | 323 | 335.5 | 348 | 348 | 360.5 | 373

 | 385.5
 | 385.5 | 398 | 410.5 | 410.5 | 423
 | 435.5 | 448 | 448 | 460.5
 | 473 | 473 | er o |
| 3 | 323 | 335.5 | 348 | 360.5 | 360.5 | 373 | 385.5 | 385.5 | 398 | 410.5 | 423

 | 423
 | 435.5 | 448 | 448 | 460.5 | 473
 | 485.5 | 485.5 | 498 | 510.5
 | 510.5 | 523 | Made 1
Orden |
| 4 | 373 | 385.5 | 398 | 398 | 410.5 | 423 | 423 | 435.5 | 448 | 460.5 | 460.5

 | 473
 | 485.5 | 485.5 | 498 | 510.5 | 523
 | 523 | 535.5 | 548 | 560.5
 | 560.5 | 573 | 2 |
| 5 | 423 | 435.5 | 435.5 | 448 | 460.5 | 460.5 | 473 | 485.5 | 498 | 498 | 510.5

 | 523
 | 535.5 | 535.5 | 548 | 560.5 | 560.5
 | 573 | 585.5 | 598 | 598
 | 610.5 | 623 | 5 |
| 6 | 473 | 473 | 485.5 | 498 | 510.5 | 510.5 | 523 | 535.5 | 535.5 | 548 | 560.5

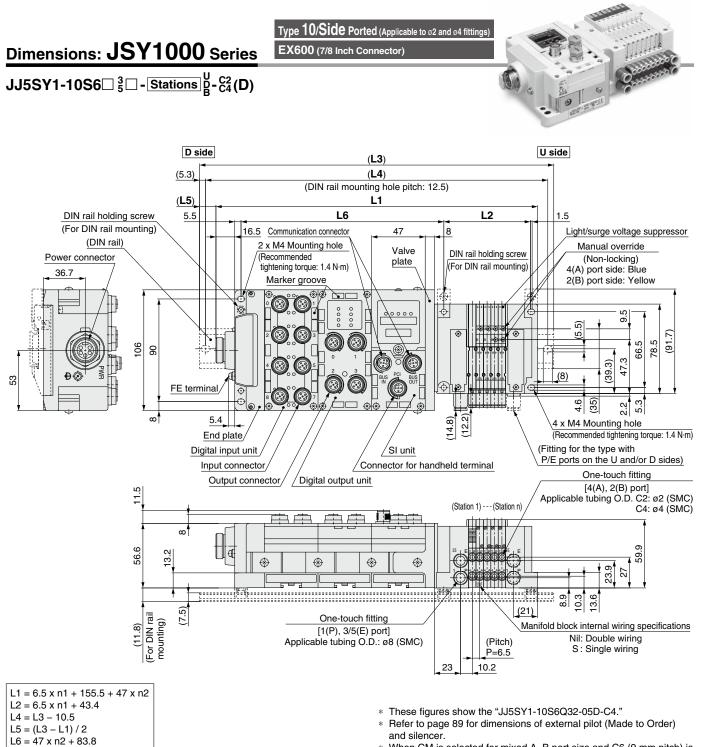
 | 573
 | 573 | 585.5 | 598 | 598 | 610.5
 | 623 | 635.5 | 635.5 | 648
 | 660.5 | 660.5 | unpo, su |
| 7 | 510.5 | 523 | 535.5 | 548 | 548 | 560.5 | 573 | 573 | 585.5 | 598 | 610.5

 | 610.5
 | 623 | 635.5 | 635.5 | 648 | 660.5
 | 673 | 673 | 685.5 | 698
 | 710.5 | 710.5 | ic Pr |
| 8 | 560.5 | 573 | 585.5 | 585.5 | 598 | 610.5 | 610.5 | 623 | 635.5 | 648 | 648

 | 660.5
 | 673 | 685.5 | 685.5 | 698 | 710.5
 | 710.5 | 723 | 735.5 | 748
 | 748 | 760.5 | Specific Product
Precautions |
| 9 | 610.5 | 623 | 623 | 635.5 | 648 | 660.5 | 660.5 | 673 | 685.5 | 685.5 | 698

 | 710.5
 | 723 | 723 | 735.5 | 748 | 748
 | 760.5 | 773 | 785.5 | 785.5
 | 798 | 810.5 | Ś |
| | (n1)
V/O
1
2
3
4
5
6
7
8 | VO (n1) 2 unit 185.5 1 235.5 1 235.5 2 285.5 3 323 4 373 5 423 6 473 7 510.5 8 560.5 | VO (n1) 2 3 0 185.5 198 1 235.5 248 2 285.5 285.5 3 323 335.5 4 373 385.5 5 423 435.5 | VO (n1) 2 3 4 unit 1 235.5 198 210.5 1 235.5 248 248 2 285.5 285.5 298 3 323 335.5 348 4 373 385.5 398 5 423 435.5 435.5 6 473 473 485.5 7 510.5 523 535.5 8 560.5 573 585.5 | VO (n1) 2 3 4 5 0 185.5 198 210.5 210.5 1 235.5 248 248 260.5 2 285.5 285.5 298 310.5 3 323 335.5 348 360.5 4 373 385.5 398 398 5 423 435.5 435.5 448 6 473 473 485.5 498 7 510.5 523 535.5 548 8 560.5 573 585.5 585.5 | VO
unit
stations (n2) 2 3 4 5 6 0 185.5 198 210.5 210.5 223 1 235.5 248 248 260.5 273 2 285.5 285.5 298 310.5 310.5 3 323 335.5 348 360.5 360.5 4 373 385.5 398 398 410.5 5 423 435.5 435.5 448 460.5 6 473 473 485.5 498 510.5 7 510.5 523 535.5 548 548 8 560.5 573 585.5 598 598 | VO
unit
stations (n2) 2 3 4 5 6 7 0 185.5 198 210.5 210.5 223 235.5 1 235.5 248 248 260.5 273 273 2 285.5 285.5 298 310.5 310.5 323 3 323 335.5 348 360.5 360.5 373 4 373 385.5 398 398 410.5 423 5 423 435.5 435.5 448 460.5 460.5 6 473 473 485.5 498 510.5 510.5 7 510.5 523 535.5 548 560.5 598 610.5 | VO
unit
stations (n2) 2 3 4 5 6 7 8 0 185.5 198 210.5 210.5 223 235.5 235.5 1 235.5 248 248 260.5 273 273 285.5 2 285.5 285.5 298 310.5 310.5 323 335.5 3 323 335.5 348 360.5 360.5 373 385.5 4 373 385.5 398 398 410.5 423 423 5 423 435.5 435.5 448 460.5 460.5 473 6 473 473 485.5 498 510.5 510.5 523 7 510.5 523 535.5 548 548 560.5 573 8 560.5 573 585.5 598 610.5 610.5 | VO
unit
stations (n2) 2 3 4 5 6 7 8 9 0 185.5 198 210.5 210.5 223 235.5 235.5 248 1 235.5 248 248 260.5 273 273 285.5 298 2 285.5 285.5 298 310.5 310.5 323 335.5 348 3 323 335.5 348 360.5 360.5 373 385.5 385.5 4 373 385.5 398 398 410.5 423 423 435.5 5 423 435.5 435.5 448 460.5 460.5 473 485.5 6 473 473 485.5 498 510.5 510.5 523 535.5 7 510.5 523 535.5 548 548 560.5 573 573 8 560.5 573 585.5 598 | VO
unit
stations (n2) 2 3 4 5 6 7 8 9 10 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 348 3 323 335.5 348 360.5 360.5 373 385.5 398 4 373 385.5 398 398 410.5 423 435.5 448 5 423 435.5 435.5 448 460.5 400.5 473 485.5 498 6 473 473 485.5 498 510.5 523 535.5 535.5 7 510.5 523 535.5 548 560.5 573 585.5 598 610.5 | VO
unit
stations (n2) 2 3 4 5 6 7 8 9 10 11 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 1 235.5 248 248 260.5 273 273 285.5 298 310.5 310.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 4 373 385.5 398 398 410.5 423 435.5 448 460.5 5 423 435.5 435.5 448 460.5 405.5 535.5 548 6 473 473 485.5 498 501.5 523 535.5 548 7 510.5 523 535.5 548 560.5 <th>VO
unit
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 1 235.5 248 248 260.5 273 273 285.5 298 310.5 323 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 4 373 385.5 398 398 410.5 423 435.5 448 460.5 460.5 5 423 435.5 435.5 448 460.5 460.5 473 485.5 498 510.5 6 473 473 485.5 498 510.5 510.5 535.5 548<th>VO
unit
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 310.5 323 335.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 348 360.5 373 385.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 423 4 373 385.5 398 398 410.5 423 435.5 448 460.5 460.5 473 485.5 498 510.5 523 5 423 435.5 435.5 448 460.5 460.5 473 485.5 548 560.5 573 5 423 435.5 435.5</th><th>VO (n1) 2 3 4 5 6 7 8 9
 10 11 12 13 14 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 1 235.5 248 248 260.5 273 273 285.5 298 2 285.5 285.5 298 310.5 310.5 323 335.5 345.5 355.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 423 435.5 4 373 385.5 398 398 410.5 423 435.5 448 460.5 460.5 473 485.5 548 540.5 573 535.5 548 548.5 598 510.5 523 535.5 548 560.5 573 573 573 573 573 573 573 573 573 573 573 573 573</th><th>VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 1 235.5 248 240.5 273 273 285.5 298 298 208 235.5 248 260.5 273 273 285.5 298 298 298 298 208 208 208.5 298 208.5 298 305.5 335.5 348 228 285.5 298 310.5 310.5 323 335.5 348 348 360.5 373 385.5 398 398 410.5 423 423 435.5 448 460.5 460.5 460.5 473 485.5 485.5 485.5 55 423 435.5 435.5 448 460.5 460.5 460.5 460.5 473 485.5 55.5 55.5 55.5 548 560.5<</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 1 235.5 248 240.5 273 273 285.5 298 310.5 315.5 348 360.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 3 323 335.5 348 360.5 373 385.5 388 410.5 423 423 435.5 448 448 4 373 385.5 398 410.5 423 423 435.5 448 448 4 373 385.5 448 460.5 460.5 473 485.5 498 510.5 523 535.5 548 548.5 598 510.5 535.5 548 560.5</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 1 235.5 248 240.5 273 273 285.5 298 298 310.5 323 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 3 323 335.5 348 360.5 373 385.5 398 410.5 410.5 410.5 3 323 335.5 348 360.5 373 385.5 398 410.5 448 460.5 4 373 385.5 398 410.5 423 423</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 1 235.5 248 260.5 273 273 285.5 298 310.5 31.5 323 335.5 348 360.5 373 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 388 410.5 423 436.5 398 410.5 410.5 423 3 323 335.5 348 360.5 373 385.5 388 410.5 423 435.5 448 448 460.</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 335.5 335.5 348 360.5 37.3 385.5 355.5 248 260.5 273 273 285.5 298 298 310.5 32.3 335.5 335.5 348 360.5 37.3 385.5 355.5 356 348 360.5 37.3 385.5 385.5 398 410.5 410.5 410.5 42.4 435.5 435.5 448 460.5 47.3 485.5 485.5 498 510.5 52.3 52.5 53.5 54.8 50.5 57.3 53.5 54.8 50.5 57.3 53.5 54.8 50.5 57.3 53.5 53.5 53.5 54.5 59.8 510.5</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 348 1 235.5 248 240.5 273 273 285.5 298 310.5 37.3 385.5 398 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 37.3 385.5 398 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 37.3 385.5 398 3 323 335.5 348 360.5 37.3 385.5 398 410.5 423 435.5 448 460.5 460.5 47.3 485.5 485.5 485.5 488 56.5 <td< th=""><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 335.5 348 360.5 1 235.5 248 240.5 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 388 410.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 448 448 460.5 473 485.5 485.5 498 448 440.5 460.5 <t< th=""><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 348 360.5 360.5 373 373 385.5 384 360.5 360.5 373 373 385.5 398 410.5 410.5 410.5 423 435.5 448 460.5 460.5 473 485.5 <</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373
1 235.5 248 240.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 398 410.5 410.5 423 435.5 448 460.5 473 435.5 448 460.5 473 435.5 448 460.5 473 485.5 485.5 485.5 485.5 486.5 505.5 508 510.5 523 535.5 548 506.5 573 535.5 548 506.5 573 535.5 548 506.5 535.5 548 506.5 535.5 548 506.5 535.5</th><th>VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 360.5 373 385.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 373 373 385.5 348 360.5 360.5 373 385.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 435.5 488 460.5 473 473 485.5 488 460.5 473 473<</th></t<></th></td<></th></th> | VO
unit
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 1 235.5 248 248 260.5 273 273 285.5 298 310.5 323 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 4 373 385.5 398 398 410.5 423 435.5 448 460.5 460.5 5 423 435.5 435.5 448 460.5 460.5 473 485.5 498 510.5 6 473 473 485.5 498 510.5 510.5 535.5 548 <th>VO
unit
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 310.5 323 335.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 348 360.5 373 385.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 423 4 373 385.5 398 398 410.5 423 435.5 448 460.5 460.5 473 485.5 498 510.5 523 5 423 435.5 435.5 448 460.5 460.5 473 485.5 548 560.5 573 5 423 435.5 435.5</th> <th>VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 1 235.5 248 248 260.5 273 273 285.5 298 2 285.5 285.5 298 310.5 310.5 323 335.5 345.5 355.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 423 435.5 4 373 385.5 398 398 410.5 423 435.5 448 460.5 460.5 473 485.5 548 540.5 573 535.5 548 548.5 598 510.5 523 535.5 548 560.5 573 573 573 573 573 573 573 573 573 573 573 573 573</th> <th>VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 1 235.5 248 240.5 273 273 285.5 298 298 208 235.5 248 260.5 273 273 285.5 298 298 298 298 208 208 208.5 298 208.5 298 305.5 335.5 348 228 285.5 298 310.5 310.5 323 335.5 348 348 360.5 373 385.5 398 398 410.5 423 423 435.5 448 460.5 460.5 460.5 473 485.5 485.5 485.5 55 423 435.5 435.5 448 460.5 460.5 460.5 460.5 473 485.5 55.5 55.5 55.5 548 560.5<</th> <th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 1 235.5 248 240.5 273 273 285.5 298 310.5 315.5 348 360.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 3 323 335.5 348 360.5 373 385.5 388 410.5 423 423 435.5 448 448 4 373 385.5 398 410.5 423 423 435.5 448 448 4 373 385.5 448 460.5 460.5 473 485.5 498 510.5 523 535.5 548 548.5 598 510.5 535.5 548 560.5</th> <th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 1 235.5 248 240.5 273 273 285.5 298 298 310.5 323 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 3 323 335.5 348 360.5 373 385.5 398 410.5 410.5 410.5 3 323 335.5 348 360.5 373 385.5 398 410.5 448 460.5 4 373 385.5 398 410.5 423 423</th> <th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 1 235.5 248 260.5 273 273 285.5 298 310.5 31.5 323 335.5 348 360.5 373 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 388 410.5 423 436.5 398 410.5 410.5 423 3 323 335.5 348 360.5 373 385.5 388 410.5 423 435.5 448 448 460.</th> <th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 335.5 335.5 348 360.5 37.3 385.5 355.5 248 260.5 273 273 285.5 298 298 310.5 32.3 335.5 335.5 348 360.5 37.3 385.5 355.5 356 348 360.5 37.3 385.5 385.5 398 410.5 410.5 410.5 42.4 435.5 435.5 448
460.5 47.3 485.5 485.5 498 510.5 52.3 52.5 53.5 54.8 50.5 57.3 53.5 54.8 50.5 57.3 53.5 54.8 50.5 57.3 53.5 53.5 53.5 54.5 59.8 510.5</th> <th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 348 1 235.5 248 240.5 273 273 285.5 298 310.5 37.3 385.5 398 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 37.3 385.5 398 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 37.3 385.5 398 3 323 335.5 348 360.5 37.3 385.5 398 410.5 423 435.5 448 460.5 460.5 47.3 485.5 485.5 485.5 488 56.5 <td< th=""><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 335.5 348 360.5 1 235.5 248 240.5 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 388 410.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 448 448 460.5 473 485.5 485.5 498 448 440.5 460.5 <t< th=""><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 348 360.5 360.5 373 373 385.5 384 360.5 360.5 373 373 385.5 398 410.5 410.5 410.5 423 435.5 448 460.5 460.5 473 485.5 <</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 1 235.5 248 240.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 398 410.5 410.5 423 435.5 448 460.5 473 435.5 448 460.5 473 435.5 448 460.5 473 485.5 485.5 485.5 485.5 486.5 505.5 508 510.5 523 535.5 548 506.5 573 535.5 548 506.5 573 535.5 548 506.5 535.5 548 506.5 535.5 548 506.5 535.5</th><th>VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 360.5 373 385.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 373 373 385.5 348 360.5 360.5 373 385.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 435.5 488 460.5 473 473 485.5 488 460.5 473 473<</th></t<></th></td<></th> | VO
unit
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 310.5 323 335.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 348 360.5 373 385.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 423 4 373 385.5 398 398 410.5 423 435.5 448 460.5 460.5 473 485.5 498 510.5 523 5 423 435.5 435.5 448 460.5 460.5 473 485.5 548 560.5 573 5 423 435.5 435.5 | VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 1 235.5 248 248 260.5 273 273 285.5 298 2 285.5 285.5 298 310.5 310.5 323 335.5 345.5 355.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 423 435.5 4 373 385.5 398 398 410.5 423 435.5 448 460.5 460.5 473 485.5 548 540.5 573 535.5 548 548.5 598 510.5 523 535.5 548 560.5 573 573 573 573 573 573 573 573 573 573 573 573 573 | VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 1 235.5 248 240.5 273 273 285.5 298 298 208 235.5 248 260.5 273 273 285.5 298 298 298 298 208 208 208.5 298 208.5 298 305.5 335.5 348 228 285.5 298 310.5 310.5 323 335.5 348 348 360.5 373 385.5 398 398 410.5 423 423 435.5 448 460.5 460.5 460.5 473 485.5 485.5 485.5 55 423 435.5 435.5 448 460.5 460.5 460.5 460.5 473 485.5 55.5 55.5 55.5 548 560.5< | VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 1 235.5 248 240.5 273 273 285.5 298 310.5 315.5 348 360.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 3 323 335.5 348 360.5 373 385.5 388 410.5 423 423 435.5 448 448 4 373 385.5 398 410.5 423 423 435.5 448 448 4 373 385.5 448 460.5 460.5 473 485.5 498 510.5 523 535.5 548 548.5 598 510.5 535.5 548 560.5 | VO (n1)
stations (n2) 2 3 4 5 6 7
8 9 10 11 12 13 14 15 16 17 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 1 235.5 248 240.5 273 273 285.5 298 298 310.5 323 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 3 323 335.5 348 360.5 373 385.5 398 410.5 410.5 410.5 3 323 335.5 348 360.5 373 385.5 398 410.5 448 460.5 4 373 385.5 398 410.5 423 423 | VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 1 235.5 248 260.5 273 273 285.5 298 310.5 31.5 323 335.5 348 360.5 373 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 373 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 388 410.5 423 436.5 398 410.5 410.5 423 3 323 335.5 348 360.5 373 385.5 388 410.5 423 435.5 448 448 460. | VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 335.5 335.5 348 360.5 37.3 385.5 355.5 248 260.5 273 273 285.5 298 298 310.5 32.3 335.5 335.5 348 360.5 37.3 385.5 355.5 356 348 360.5 37.3 385.5 385.5 398 410.5 410.5 410.5 42.4 435.5 435.5 448 460.5 47.3 485.5 485.5 498 510.5 52.3 52.5 53.5 54.8 50.5 57.3 53.5 54.8 50.5 57.3 53.5 54.8 50.5 57.3 53.5 53.5 53.5 54.5 59.8 510.5 | VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 348 1 235.5 248 240.5 273 273 285.5 298 310.5 37.3 385.5 398 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 37.3 385.5 398 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 37.3 385.5 398 3 323 335.5 348 360.5 37.3 385.5 398 410.5 423 435.5 448 460.5 460.5 47.3 485.5 485.5 485.5 488 56.5 <td< th=""><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 335.5 348 360.5 1 235.5 248 240.5 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 388 410.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 448 448 460.5 473 485.5 485.5 498 448 440.5 460.5 <t< th=""><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 348 360.5 360.5 373 373 385.5 384 360.5 360.5 373 373 385.5 398 410.5 410.5 410.5 423 435.5 448 460.5 460.5 473 485.5 <</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 1 235.5 248 240.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 398 410.5 410.5 423 435.5 448 460.5 473 435.5 448 460.5 473 435.5 448 460.5 473 485.5 485.5 485.5 485.5 486.5 505.5 508 510.5 523 535.5 548 506.5 573 535.5 548 506.5 573 535.5 548 506.5 535.5 548 506.5 535.5 548 506.5 535.5</th><th>VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 360.5 373 385.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 373 373 385.5 348 360.5 360.5 373 385.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 435.5 488 460.5 473 473 485.5 488 460.5 473 473<</th></t<></th></td<> | VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 335.5 348 360.5 1 235.5 248 240.5 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 388 410.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 448 448 460.5 473 485.5 485.5 498 448 440.5 460.5 <t< th=""><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 348
 360.5 360.5 373 373 385.5 384 360.5 360.5 373 373 385.5 398 410.5 410.5 410.5 423 435.5 448 460.5 460.5 473 485.5 <</th><th>VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 1 235.5 248 240.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 398 410.5 410.5 423 435.5 448 460.5 473 435.5 448 460.5 473 435.5 448 460.5 473 485.5 485.5 485.5 485.5 486.5 505.5 508 510.5 523 535.5 548 506.5 573 535.5 548 506.5 573 535.5 548 506.5 535.5 548 506.5 535.5 548 506.5 535.5</th><th>VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 360.5 373 385.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 373 373 385.5 348 360.5 360.5 373 385.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 435.5 488 460.5 473 473 485.5 488 460.5 473 473<</th></t<> | VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 0 185.5 198 210.5 210.5 223 235.5 235.5 248 260.5 273 273 285.5 298 298 310.5 323 335.5 348 360.5 360.5 373 373 385.5 384 360.5 360.5 373 373 385.5 398 410.5 410.5 410.5 423 435.5 448 460.5 460.5 473 485.5 < | VO (n1)
stations (n2) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 1 235.5 248 240.5 273 273 285.5 298 310.5 323 335.5 348 360.5 373 385.5 398 410.5 410.5 423 435.5 448 460.5 473 435.5 448 460.5 473 435.5 448 460.5 473 485.5 485.5 485.5 485.5 486.5 505.5 508 510.5 523 535.5 548 506.5 573 535.5 548 506.5 573 535.5 548 506.5 535.5 548 506.5 535.5 548 506.5 535.5 | VO (n1) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 0 185.5 198 210.5 210.5 223 235.5 248 260.5 273 273 285.5 298 310.5 323 335.5 348 360.5 360.5 373 385.5 1 235.5 248 248 260.5 273 273 285.5 298 310.5 373 373 385.5 348 360.5 360.5 373 385.5 2 285.5 285.5 298 310.5 310.5 323 335.5 348 360.5 373 385.5 398 410.5 423 435.5 3 323 335.5 348 360.5 360.5 373 385.5 398 410.5 423 435.5 488 460.5 473 473 485.5 488 460.5 473 473< |





* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

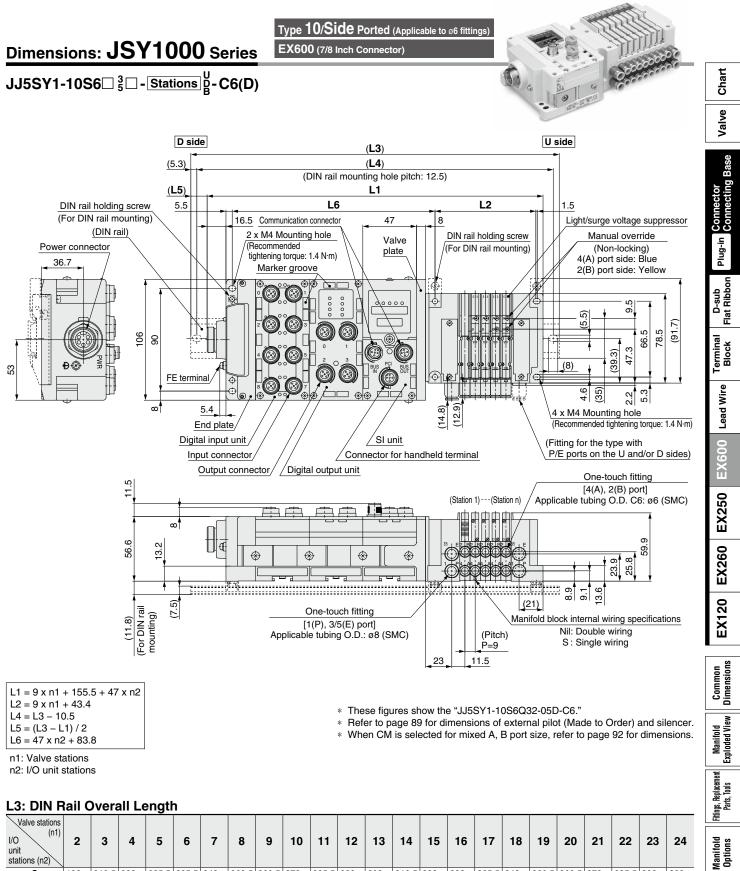
n1: Valve stations n2: I/O unit stations

L3: DIN Rail Overall Length

Valve stations (n1) unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	335.5
1	248	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	385.5
2	298	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	423	435.5
3	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	423	423	435.5	435.5	448	448	460.5	460.5	473	473	485.5
4	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448	460.5	460.5	473	473	485.5	485.5	498	498	510.5	510.5	523	523
5	435.5	435.5	448	448	460.5	460.5	473	473	485.5	485.5	498	510.5	510.5	523	523	535.5	535.5	548	548	560.5	560.5	573	573
6	485.5	485.5	498	498	510.5	510.5	523	523	535.5	535.5	548	548	560.5	560.5	573	573	585.5	585.5	598	598	610.5	610.5	623
7	523	535.5	535.5	548	548	560.5	560.5	573	573	585.5	598	598	610.5	610.5	623	623	635.5	635.5	648	648	660.5	660.5	673
8	573	585.5	585.5	598	598	610.5	610.5	623	623	635.5	635.5	648	648	660.5	660.5	673	673	685.5	685.5	698	698	710.5	723
9	623	623	635.5	635.5	648	648	660.5	660.5	673	685.5	685.5	698	698	710.5	710.5	723	723	735.5	735.5	748	748	760.5	760.5





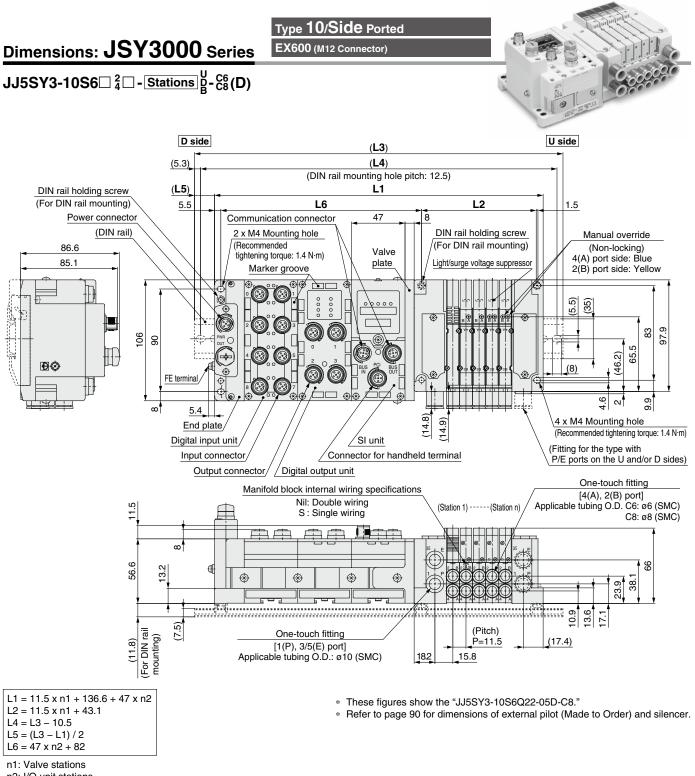


Valve stati I/O unit stations (n2)	⁽ⁿ¹⁾ 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
0	198	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	298	298	310.5	323	323	335.5	348	360.5	360.5	373	385.5	398	398	L
1	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	373	373	385.5	398	398	410.5	423	435.5	435.5	448	Γ
2	298	310.5	310.5	323	335.5	348	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	473	473	485.5	498	
3	348	348	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5	448	448	460.5	473	473	485.5	498	510.5	510.5	523	535.5	548	
4	385.	5 398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5	498	510.5	523	523	535.5	548	548	560.5	573	585.5	585.5	
5	435.	5 448	460.5	460.5	473	485.5	498	498	510.5	523	523	535.5	548	560.5	560.5	573	585.5	585.5	598	610.5	623	623	635.5	
6	485.	5 498	498	510.5	523	535.5	535.5	548	560.5	560.5	573	585.5	598	598	610.5	623	623	635.5	648	660.5	660.5	673	685.5	
7	535.	5 535.5	548	560.5	573	573	585.5	598	598	610.5	623	635.5	635.5	648	660.5	673	673	685.5	698	698	710.5	723	735.5	
8	573	585.5	598	610.5	610.5	623	635.5	648	648	660.5	673	673	685.5	698	710.5	710.5	723	735.5	735.5	748	760.5	773	773	
9	623	635.5	648	648	660.5	673	685.5	685.5	698	710.5	710.5	723	735.5	748	748	760.5	773	773	785.5	798	810.5	810.5	823	L



Made to Order

Specific Product Precautions

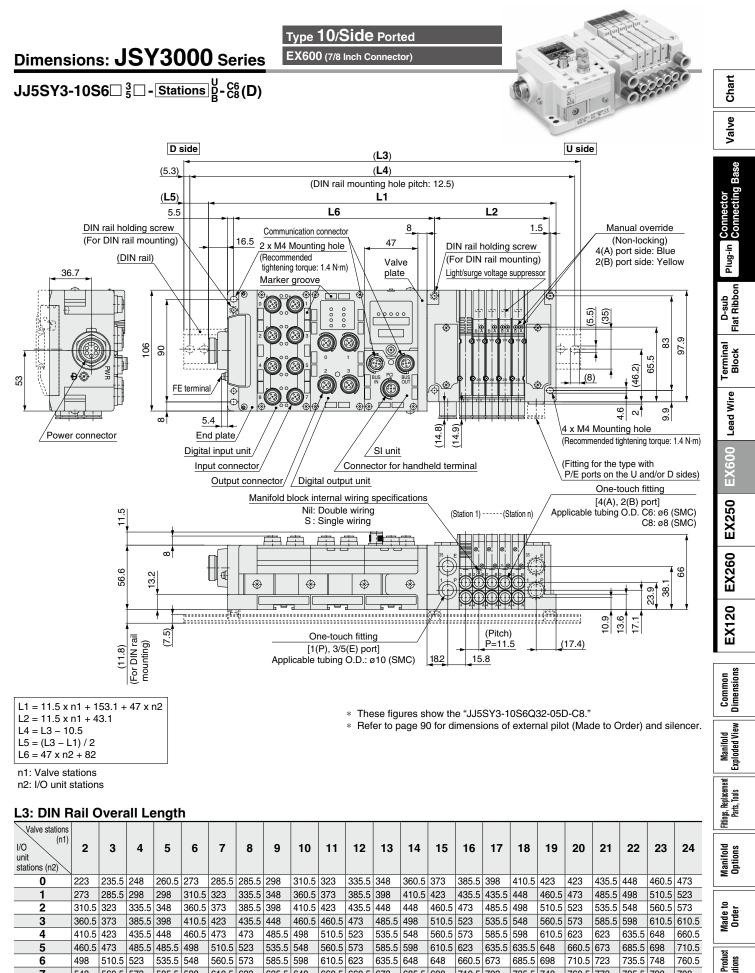


n2: I/O unit stations

L3: DIN Rail Overall Length

Valve stations (n1) unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448
1	235.5	248	260.5	273	285.5	298	310.5	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	460.5	473	485.5
2	285.5	298	310.5	323	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	473	485.5	498	510.5	523	535.5
3	335.5	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	485.5	498	510.5	523	535.5	548	560.5	573	585.5
4	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5
5	423	435.5	448	460.5	473	485.5	498	510.5	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	648	660.5	673
6	473	485.5	498	510.5	523	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	660.5	660.5	673	685.5	698	710.5	723
7	523	535.5	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	660.5	673	673	685.5	698	710.5	723	735.5	748	760.5	773
8	560.5	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	823
9	610.5	623	635.5	648	660.5	673	685.5	698	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	823	835.5	848	848	860.5

SMC





660.5 660.5 673

710.5 723

760.5 773

635.5 648

660.5 673

710.5 723

760.5 773

810.5 823

648

685.5 698

735.5 748

785.5 798

710.5 723

810.5 810.5 823

860.5 873

760.5 773

835.5 848

685.5 698

785.5 798

735.5 748

823

610.5 623

698

585.5 598

685.5

735.5 748

635.5 648

673

710.5 723

6

7

8

9

510.5

560.5 573

610.5 623

660.5 673

523

498

548

598

648

535.5

585.5 598

635.5 648

548

685.5 685.5 698

560.5 573

610.5 623

660.5 673

Precautions

Specific F

760.5

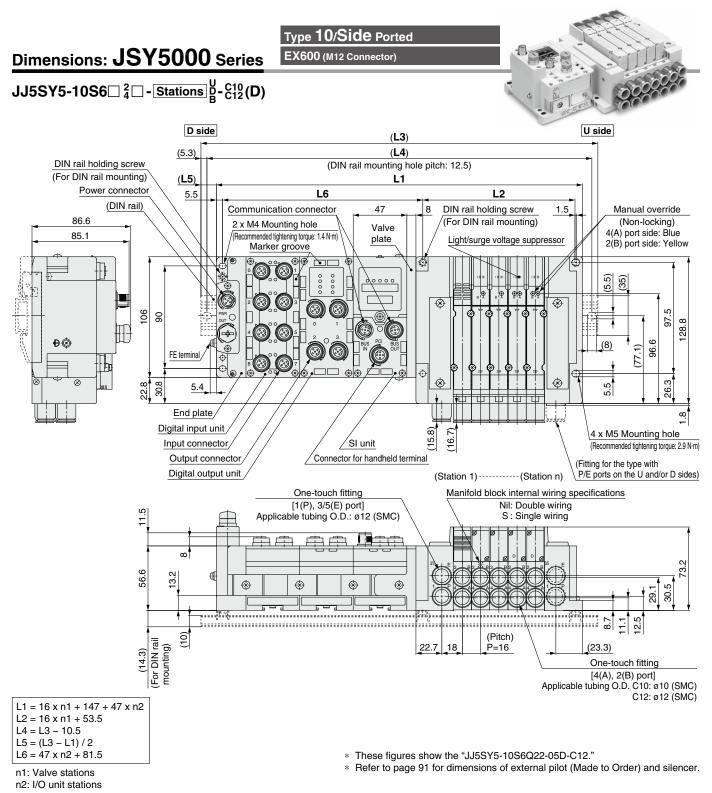
798

735.5 748

785.5 798

835.5 848

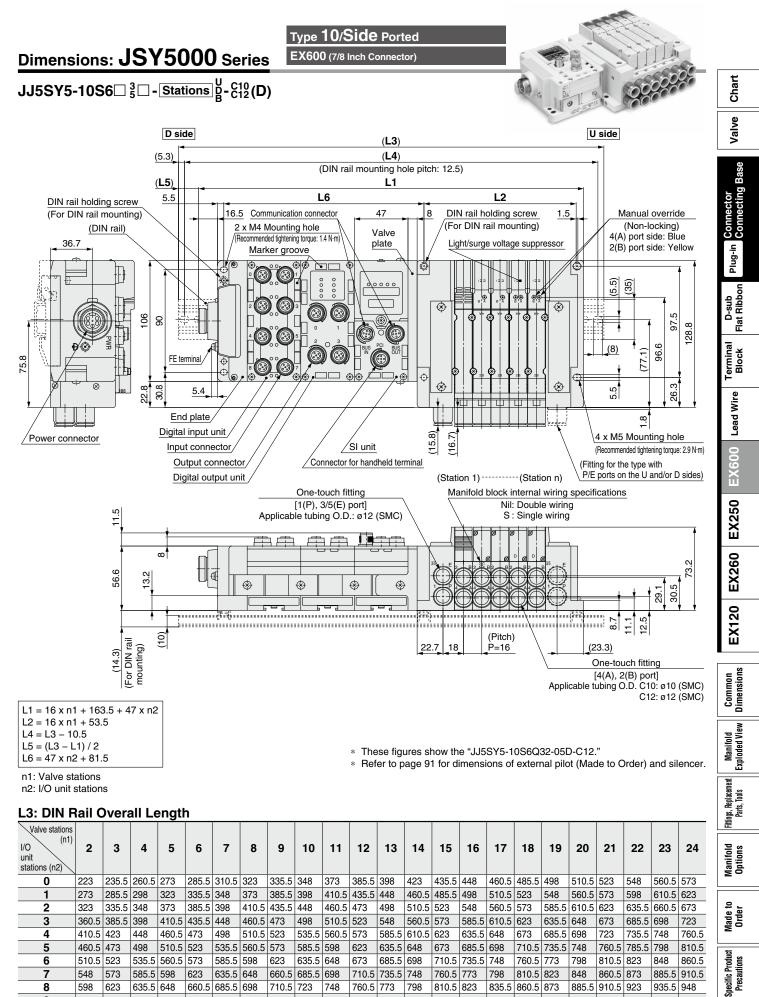
885.5 898



L3: DIN Rail Overall Length

Valve stations (n1) unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5
1	260.5	273	285.5	298	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5	573	585.5	610.5
2	298	323	335.5	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	585.5	610.5	623	635.5	660.5
3	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	535.5	560.5	573	585.5	610.5	623	635.5	648	673	685.5	698
4	398	410.5	423	448	460.5	473	498	510.5	523	535.5	560.5	573	585.5	610.5	623	635.5	648	673	685.5	698	710.5	735.5	748
5	448	460.5	473	485.5	510.5	523	535.5	560.5	573	585.5	598	623	635.5	648	673	685.5	698	710.5	735.5	748	760.5	785.5	798
6	485.5	510.5	523	535.5	560.5	573	585.5	598	623	635.5	648	660.5	685.5	698	710.5	735.5	748	760.5	773	798	810.5	823	848
7	535.5	548	573	585.5	598	623	635.5	648	660.5	685.5	698	710.5	735.5	748	760.5	773	798	810.5	823	835.5	860.5	873	885.5
8	585.5	598	610.5	635.5	648	660.5	685.5	698	710.5	723	748	760.5	773	798	810.5	823	835.5	860.5	873	885.5	910.5	923	935.5
9	635.5	648	660.5	685.5	698	710.5	723	748	760.5	773	785.5	810.5	823	835.5	860.5	873	885.5	898	923	935.5	948	973	985.5







810.5 823

835.5 860.5 873

885.5 898

923

935.5 948

973

985.5

798

9

648

660.5

685.5 698

710.5 723

748

760.5 773

Plug-in Connector Connecting Base

EX250

JSY1000/3000/5000 Series RoHS

Internal Pilot

Type 10 Side Ported

How to Order Manifolds

Side ported

None 1 station

8 stations

PNP sensor

input

Α

В

С

@SMC

Nil

NPN sensor

input

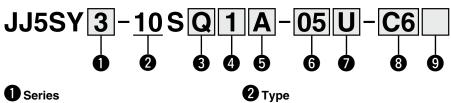
D

Е

F

The maximum number of stations is limited

for the AS-Interface applicable SI unit.



10

Nil

1

8

Input block stations

Input block type

Without input block

M12, 2 inputs

M12, 4 inputs

M8, 4 inputs

Without SI unit, the symbol is nil.

* Without SI unit, the symbol is nil.

Series

1	JSY1000
3	JSY3000
5	JSY5000

SI unit

• ••••										
0	Without SI unit									
Q	DeviceNet [™] (Negative common)									
Ν	PROFIBUS DP (Negative common)									
V	CC-Link (Positive common)									
TA		2 isolated	8 in/8 out, 31 slave modes							
TB	AS-Interface	common type	4 in/4 out, 31 slave modes							
TC	(Negative common)	1 common	8 in/8 out, 31 slave modes							
TD	type 4 in/4 out, 31 slave modes									
Y	CANopen (Negative common)									
ZE	EtherNet/IP™ (Negative common)									

Ensure a match with the common specification of the valve to be used.

- Input block cannot be mounted without SI unit.
- The supply current from the SI unit of AS-Interface applicable 1 power supply system specification to the input block and valve is limited.

P, E port entry, SUP/EXH block assembly

Internal pilot	Internal pilot, Built-in silencer
U	C
D	E
В	F
	Internal pilot U D B

* 3/5(E) port is plugged for the built-in silencer type.

When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids. The external pilot specification should be ordered as Made to Order. For details, refer to page 114.

8 A, B port size (Metric/One-touch fitting)						
Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	—	12 x
C4		ø4		—	—	
C6	Ę	ø6	•		—	
C8	Straight	ø8	—		_	
C10	5	ø10	—	—		
C12		ø12	—	—	•	00
CM *1		Straight port, mixed sizes				- Oktos
P, E port size (One-touch fittings)		ø8	ø10	ø12		

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."

* The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

For details about the EX250 Integrated Type (For Input/Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 103. Please download the Operation Manual via SMC website, https://www.smcworld.com

Made to Order (Refer to page 114 for details.)
(Refer to page 114 for details.)
Specification
External pilot (SUP/EXH block assembly)
6 Valve stations

....do t0

Symbol	Stations	Note	
02	2 stations		
÷	÷	Double wiring*1	
16	16 stations		
02	2 stations	Creasified laws w*?	
:		Specified layout*2 (Up to 32 solenoids available)	
24	24 stations		

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.) When determining the number of valve stations, note that the maximum number of solenoids for the AS-Interface applicable SI unit specification is as follows.

· 8 in/8 out specification: Max. 8 solenoids · 4 in/4 out specification: Max. 4 solenoids

- This also includes the number of blanking plates.
- For the product without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

Mounting and Option

Symbol	Mounting		
Nil	Direct mounting		
D	DIN rail mounting		

- ∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- * Refer to page 118 for the fixation of DIN rail mounting type manifold.
- DIN rail mounting (DD) is not available for the product without the SI unit (S0).

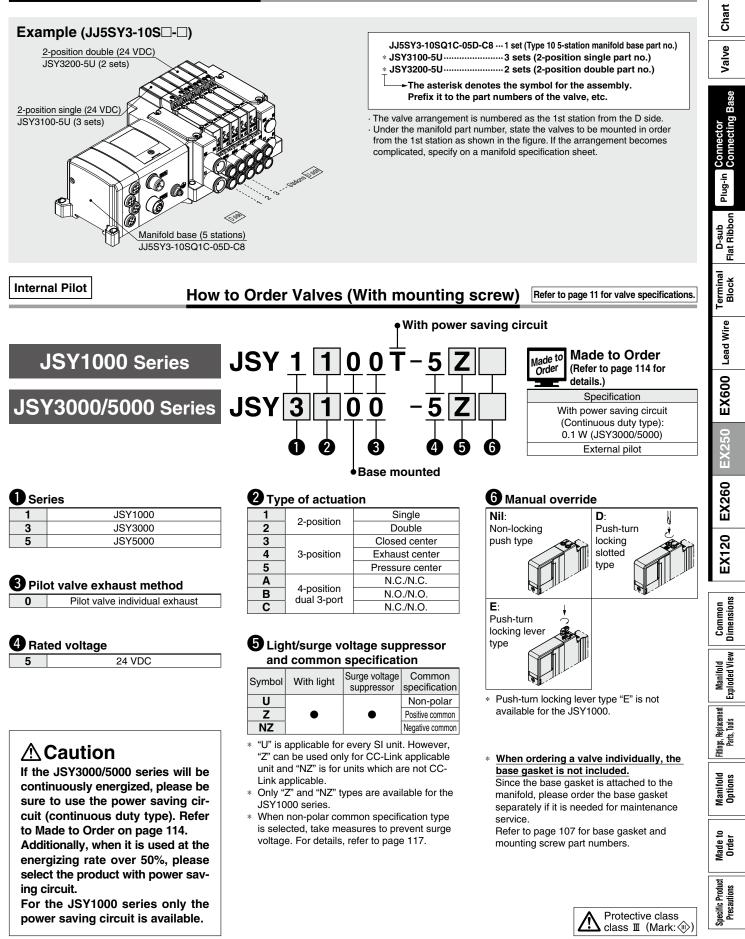
DIN Rail Option

Nil	DIN rail mounting (With DIN rail)		
0	DIN rail mounting (Without DIN rail)		
3	For 3 stations	0 11 1	
:	÷	Specify a longer rail than the standard length.	
24	For 24 stations	the standard length.	

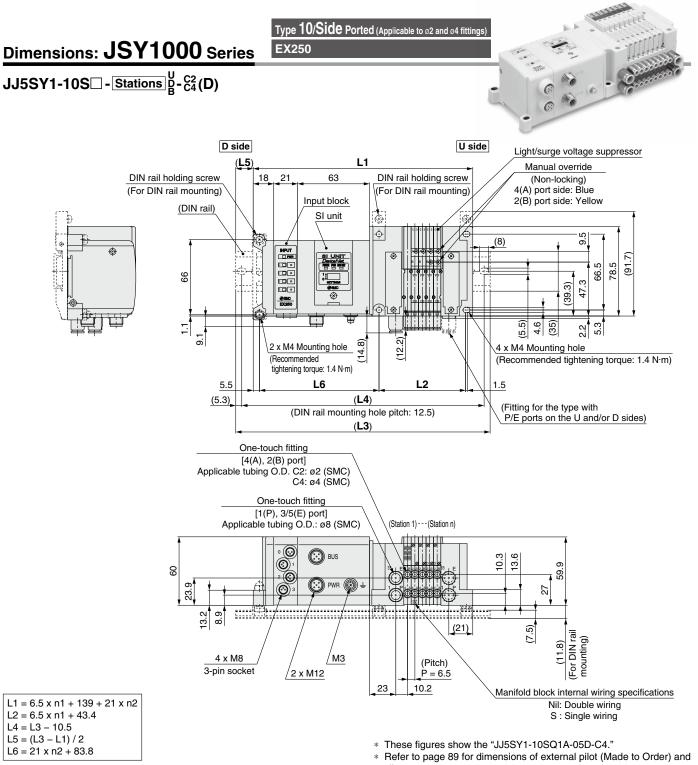
* Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)

71

How to Order Manifold Assembly



SMC



n1: Number of valve stations of the JSY1000 n2: Input block stations

silencer.

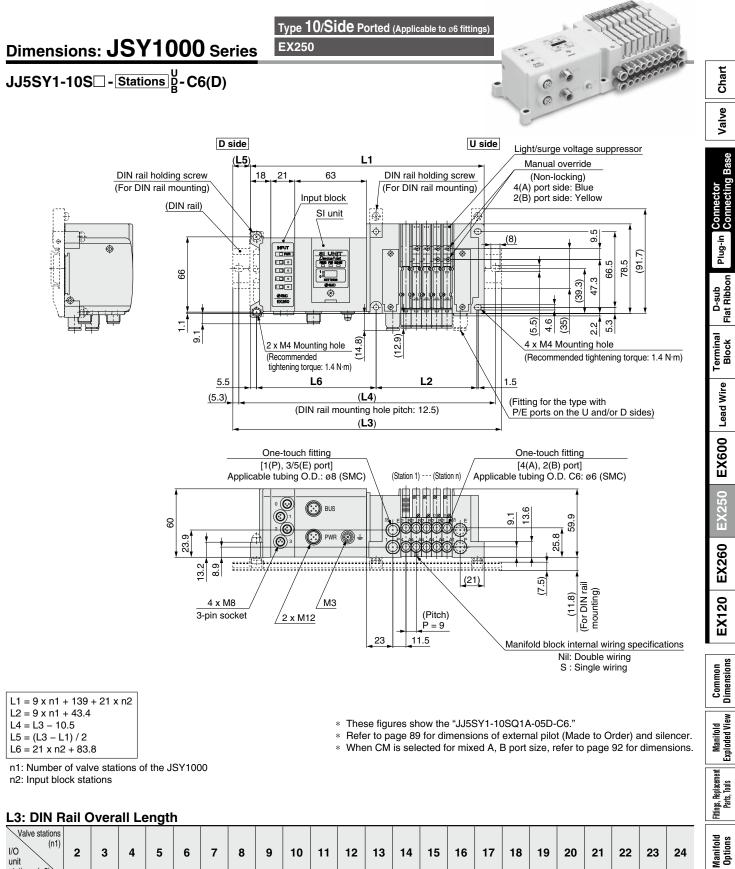
When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L3: DIN Rail Overall Length

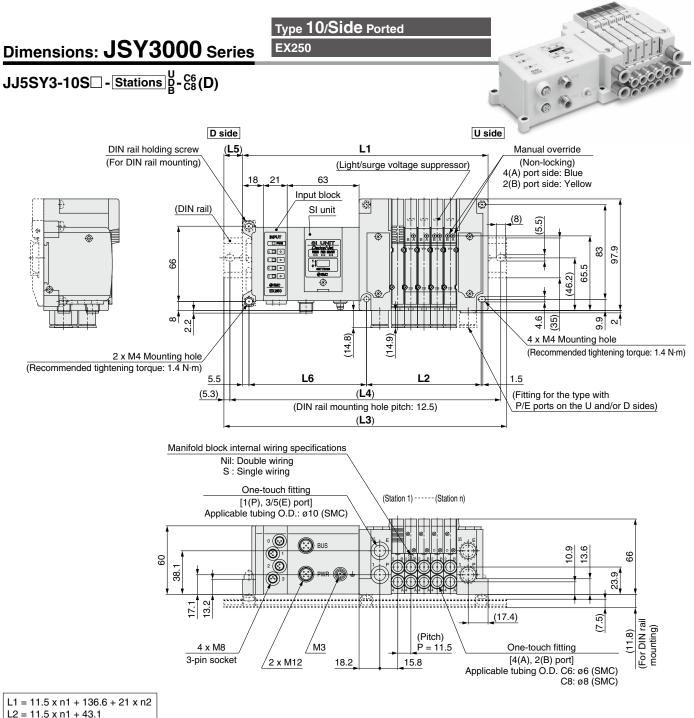
Valve stations (n1) I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	185.5	198	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5	260.5	273	273	285.5	298	298	310.5	310.5	323	323
1	198	210.5	210.5	223	223	235.5	235.5	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	335.5	348
2	223	235.5	235.5	248	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5
3	248	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	348	348	360.5	360.5	373	373	385.5	385.5
4	260.5	273	273	285.5	285.5	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5
5	285.5	298	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	435.5
6	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448
7	323	335.5	335.5	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448	460.5	460.5	473
8	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448	460.5	460.5	473	485.5	485.5	498

SMC





Valve stations (n1) U/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Manifold Options
0	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5	
1	210.5	210.5	223	235.5	248	248	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	348	348	360.5	373	373	385.5	398	410.5	er 5
2	223	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	323	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	423	423	Made Ordei
3	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5	398	398	410.5	423	435.5	435.5	448	2
4	273	285.5	285.5	298	310.5	310.5	323	335.5	348	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	473	
5	285.5	298	310.5	323	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5	Specific Product Precautions
6	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5	398	398	410.5	423	435.5	435.5	448	460.5	460.5	473	485.5	498	498	510.5	ic Pr
7	335.5	348	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	473	473	485.5	498	510.5	510.5	523	535.5	Precit
8	360.5	360.5	373	385.5	385.5	398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5	498	510.5	510.5	523	535.5	548	548	s
														· · · · · ·										



 $L2 = 11.5 \times n1 + 43.1$ L4 = L3 - 10.5 L5 = (L3 - L1) / 2 $L6 = 21 \times n2 + 82$

* These figures show the "JJ5SY3-10SQ1A-05D-C8."

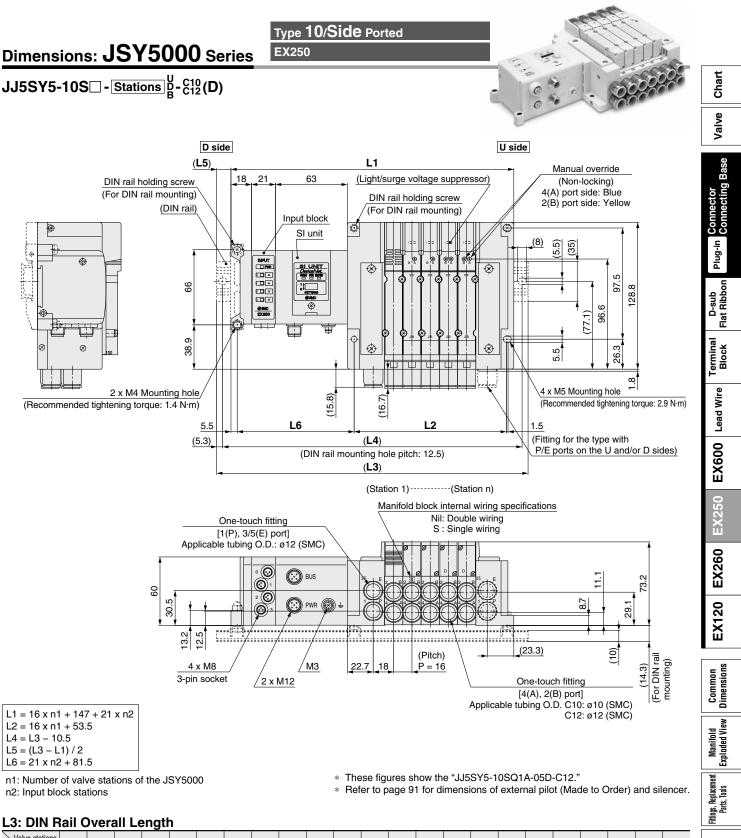
* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

n1: Number of valve stations of the JSY3000 n2: Input block stations

L3: DIN Rail Overall Length

Valve stations (n1) U/O unit stations (n2)		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448
1	210.5	223	235.5	248	260.5	273	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	423	435.5	448	460.5
2	235.5	248	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	398	410.5	423	435.5	448	460.5	473	485.5
3	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5	373	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5
4	273	285.5	298	310.5	323	335.5	348	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	485.5	498	510.5	523
5	298	310.5	323	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	460.5	473	485.5	498	510.5	523	535.5	548
6	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5	573
7	335.5	348	360.5	373	385.5	398	410.5	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5	560.5	573	585.5
8	360.5	373	385.5	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	535.5	548	560.5	573	585.5	598	610.5

SMC



L.	Valve stations (n1) I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Manifold Options
	0	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5	
	1	235.5	248	260.5	273	298	310.5	323	335.5	360.5	373	385.5	410.5	423	435.5	448	473	485.5	498	523	535.5	548	560.5	585.5	er o
	2	248	260.5	285.5	298	310.5	335.5	348	360.5	373	398	410.5	423	448	460.5	473	485.5	510.5	523	535.5	560.5	573	585.5	598	Made 1 Orden
	3	273	285.5	298	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5	573	585.5	610.5	623	2
	4	298	310.5	323	335.5	360.5	373	385.5	410.5	423	435.5	448	473	485.5	498	510.5	535.5	548	560.5	585.5	598	610.5	623	648	
	5	310.5	335.5	348	360.5	373	398	410.5	423	435.5	460.5	473	485.5	510.5	523	535.5	548	573	585.5	598	623	635.5	648	660.5	Specific Product Precautions
	6	335.5	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	585.5	610.5	623	635.5	660.5	673	685.5	ic Pr
	7	360.5	373	385.5	398	423	435.5	448	473	485.5	498	510.5	535.5	548	560.5	585.5	598	610.5	623	648	660.5	673	685.5	710.5	Prei
	8	373	398	410.5	423	435.5	460.5	473	485.5	510.5	523	535.5	548	573	585.5	598	610.5	635.5	648	660.5	685.5	698	710.5	723	s

Plug-in Connector Connecting Base

EX260

JSY1000/3000/5000 Series RoHS

Internal Pilot

Type 10 Side Ported

How to Order Manifolds

Side ported

U side (2 to 10 stations)

D side (2 to 10 stations)

Both sides (2 to 24 stations)

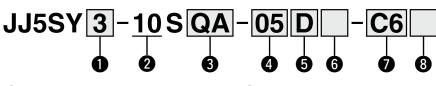
Internal pilot

Internal pilot, Built-in silencer 3/5(E) port is plugged for the built-in silencer

When the built-in silencer type is used, keep the exhaust port from coming in direct contact

The external pilot specification should be

ordered as Made to Order. For details, refer



Type 10

> U D

В

Nil

S

type

to page 114.

D, E port entry

6 SUP/EXH block assembly

with water or other liquids.

A Series

U Ser	les
1	JSY1000
3	JSY3000
5	JSY5000

SI unit (Output polarity, Protocol, Number of outputs, Communication connector)

•••				
	tput polarity)		Number	Communication
	Negative common	Protocol		connector
(NPN)	(PNP)		outputs	
0	*1	Without	SI unit	t
QA	QAN	DeviceNet™	32	M12
QB	QBN	Devicenter	16	
NA	NAN		32	M12
NB	NBN	PROFIBUS	16	
NC	NCN	DP	32	*3 D-sub
ND	NDN		16	D-Sub
VA	VAN	CC-Link	32	M12
VB	VBN	00-Link	16	
DA	DAN	EtherCAT	32	M12
DB	DBN	EllierCAT	16	
FA	FAN	PROFINET	32	M12
FB	FBN		16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	
*2	GAN	Ethernet	32	M12
*2	GBN	POWERLINK	16	
*2	KAN	IO-Link	32*4	M12

- *1 Without SI unit, the output polarity is decided by the SI unit used. Ensure a match with the common
- specification of the valves to be used. *2 Positive common (NPN) type is not available.
- *3 IP40 for the D-sub applicable
- communication connector specification.
 *4 Only the 32 outputs type is available.
 * DIN rail cannot be mounted without SI unit.

A, B port size (Metric/One-touch fitting)

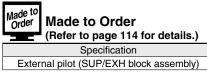
Symbol A. B port JSY1000 JSY3000 JSY5000

0,		, , D p o		00.0000	00.0000	
C2		ø2		—	—	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
C4		ø4	•	—	—	
C6	aight	ø6			—	
C8	aj,	ø8	—		—	
C10	Str	ø10	—	—		
C12		ø12	—	—		00
CM *1		Straight port, mixed sizes				- Oktos
		port size uch fittings)	ø8	ø10	ø12	

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."

The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

For details about the EX260 Integrated Type (For Input/Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 104. Please download the Operation Manual via SMC website, https://www.smcworld.com



4 Valve stations

In the	In the case of the 32-output SI unit													
Symbol	Stations	Note												
02	2 stations													
:	÷	Double wiring ^{*1}												
16	16 stations													
02	2 stations	Creatified laws w*2												
:	:	Specified layout*2 (Up to 32 solenoids available)												
24	24 stations	(Op to 32 soleriolds available)												

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
08	8 stations	
02	2 stations	Creatified laws w*2
:	:	Specified layout*2 (Up to 16 solenoids available)
16	16 stations	(op to to soleriolus available)

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- This also includes the number of blanking plates.
- For the product without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

8 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- * Enter the number of stations inside
 when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- * Refer to page 118 for the fixation of DIN rail mounting type manifold.
- DIN rail mounting (DD) is not available for the product without the SI unit (S0).

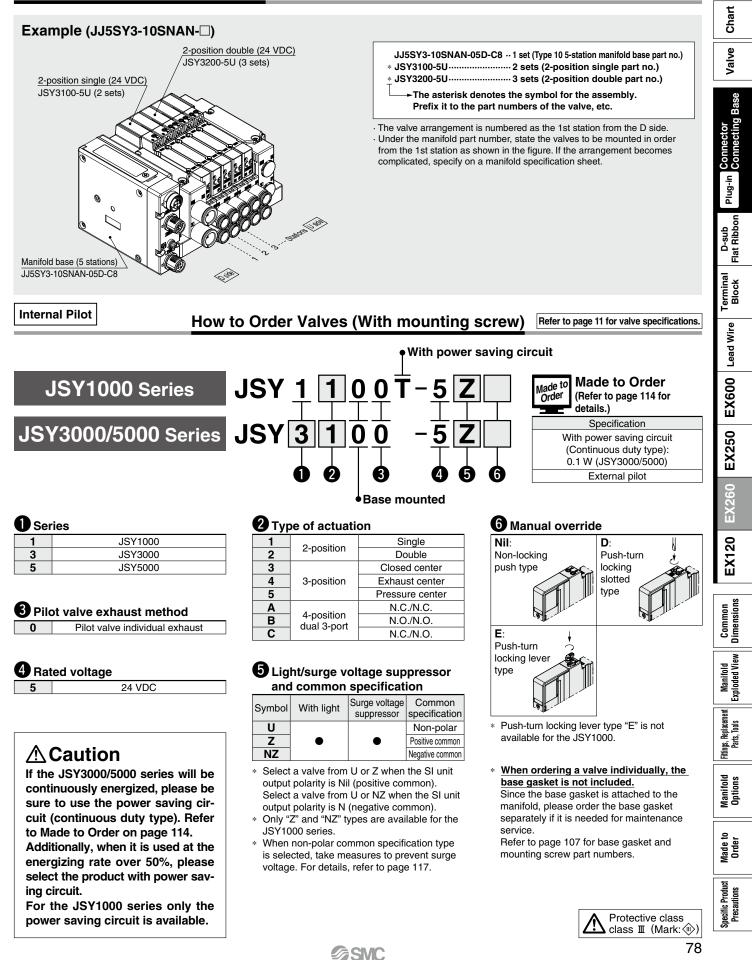
DIN Rail Option

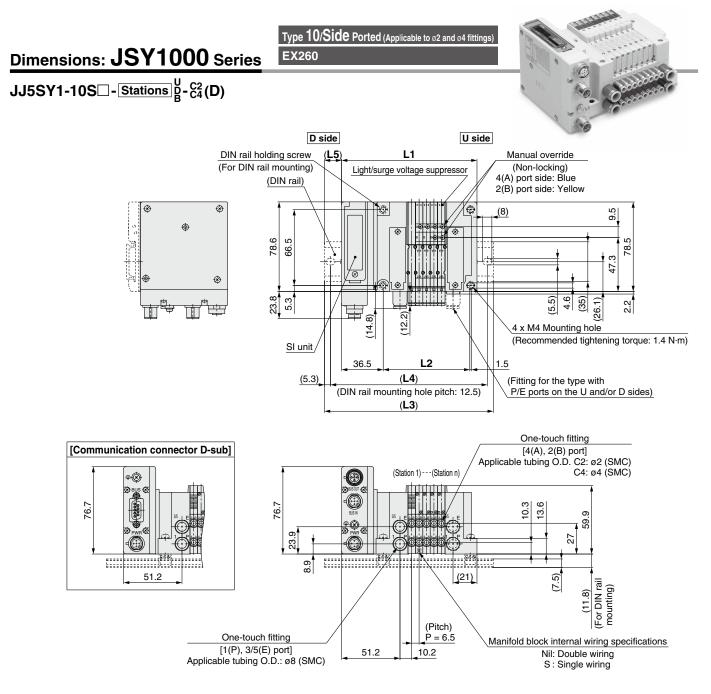
Nil	DIN ra	DIN rail mounting (With DIN rail)												
0	DIN rail	mounting (Without DIN rail)												
3	For 3 stations	S Specify a langer rail than												
:	:	Specify a longer rail than the standard length.												
24	For 24 stations	ions ine standard length.												

* Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)



How to Order Manifold Assembly



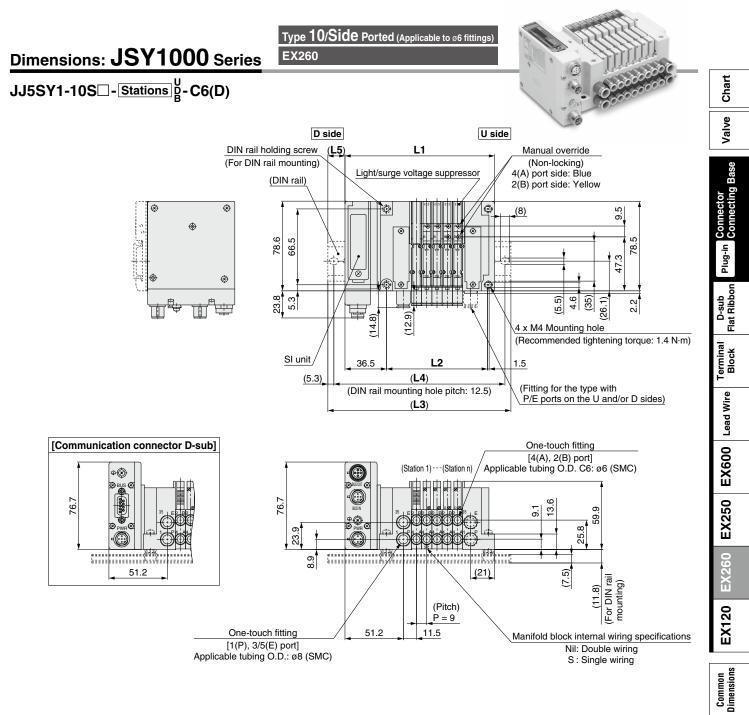


* These figures show the "JJ5SY1-10SQA-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	L: Dimensions n: Stations														
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	99.2	105.7	112.2	118.7	125.2	131.7	138.2	144.7	151.2	157.7	164.2	170.7	177.2	183.7	190.2
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	123	135.5	135.5	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223
L4	112.5	125	125	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5
L5	12	15	12	15	18	15	18	14	17	14	17	14	17	14	17
L_n	17	18	19	20	21	22	23	24							
L1	196.7	203.2	209.7	216.2	222.7	229.2	235.7	242.2							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	223	235.5	235.5	248	248	260.5	260.5	273							
L4	212.5	225	225	237.5	237.5	250	250	262.5							
L5	13	16	13	16	13	16	13	16							
79							S	SMC							



* These figures show the "JJ5SY1-10SQA-05D-C6."

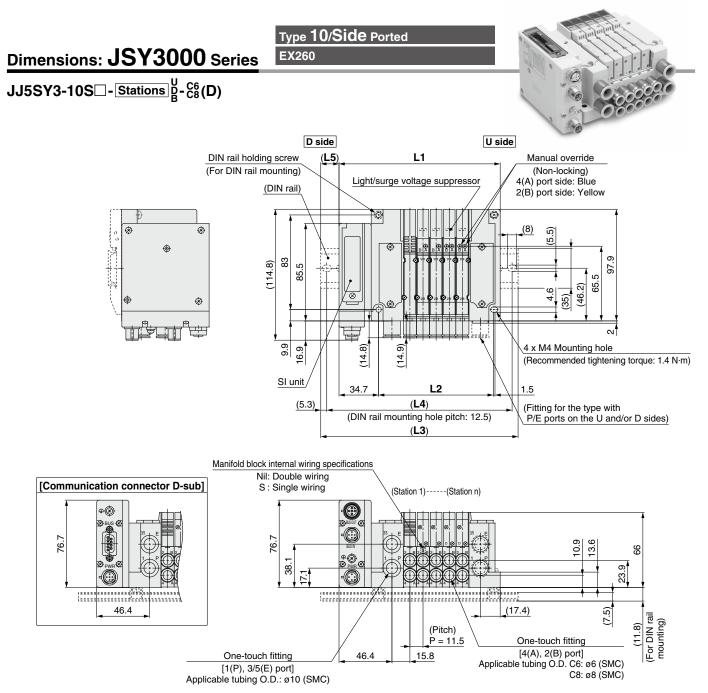
* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dim	ension	IS												r	n: Stations	Fittings, Repla Parts, Toc
L _ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
L1	104.2	113.2	122.2	131.2	140.2	149.2	158.2	167.2	176.2	185.2	194.2	203.2	212.2	221.2	230.2	
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	Manifold Options
L3	135.5	148	148	160.5	173	173	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	Mar Opt
L4	125	137.5	137.5	150	162.5	162.5	175	187.5	200	200	212.5	225	225	237.5	250	
L5	16	18	13	15	17	12	14	16	17	13	15	16	12	14	15	e .
∖ n	17	18	19	20	21	22	23	24								Made to Order
L		-	-	-			-		_							Ĕ O
L1	239.2	248.2	257.2	266.2	275.2	248.2	293.2	302.2	_							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4								duct 1S
L3	273	273	285.5	298	310.5	310.5	323	335.5								c Pro aution
L4	262.5	262.5	275	287.5	300	300	312.5	325								Specific Product Precautions
L5	17	13	14	16	18	13	15	17	-							5
© SMC 8												80				

Manifold Exploded View

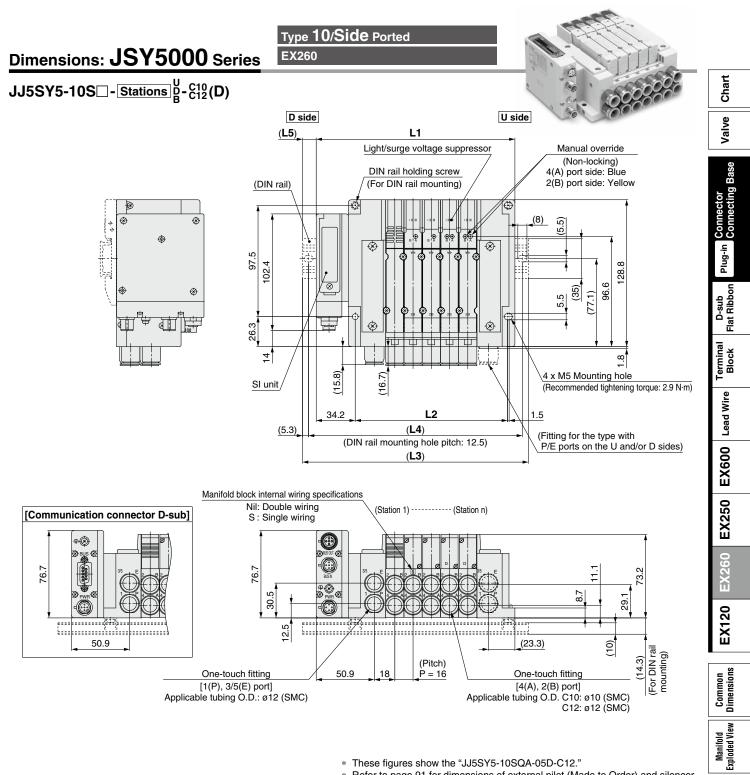
Fittings, Replacement Parts, Tools



* These figures show the "JJ5SY3-10SQA-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	: Dimensions n: Stations														
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	106.8	118.3	129.8	141.3	152.8	164.3	175.8	187.3	198.8	210.3	221.8	233.3	244.8	256.3	267.8
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	135.5	148	160.5	173	185.5	198	210.5	210.5	223	235.5	248	260.5	273	285.5	298
L4	125	137.5	150	162.5	175	187.5	200	200	212.5	225	237.5	250	262.5	275	287.5
L5	15	15	16	16	17	17	18	12	12	13	13	14	14	15	15
∖ n															
L	17	18	19	20	21	22	23	24							
L1	279.3	290.8	302.3	313.8	325.3	336.8	348.3	359.8							
L2	238.6	250.1	261.1	273.1	284.6	296.1	307.6	319.1							
L3	310.5	323	335.5	348	360.5	360.5	373	385.5							
L4	300	312.5	325	337.5	350	350	362.5	375							
L5	16	16	17	17	18	12	13	13							
81							S	SMC							



* These figures show the "JJ5SY5-10SQA-05D-C12." Refer to page 91 for dimensions of external pilot (Made to Order) and silencer. *

							*	Refer to p	bage 91 fc	or dimensio	ons of exte	ernal pilot	(Made to	Order) and	d silencer.	Fittings, Replacement Parts, Tools
L: Dim	ension	IS												r	n: Stations	gs, Repla Parts, To
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
L1	126.2	142.2	158.2	174.2	190.2	206.2	222.2	238.2	254.2	270.2	286.2	302.2	318.2	334.2	350.2	3
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	ions
L3	160.5	173	185.5	198	223	235.5	248	273	285.5	298	310.5	335.5	348	360.5	385.5	Manifold Options
L4	150	162.5	175	187.5	212.5	225	237.5	262.5	275	287.5	300	325	337.5	350	375	
L5	17	16	14	12	17	15	13	18	16	14	12	17	15	13	18	<u>ع</u> _
																Made to Order
L n	17	18	19	20	21	22	23	24	_							o ⊒a
L1	366.2	382.2	398.2	414.2	430.2	446.2	462.2	478.2								
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5								duct IS
L3	398	410.5	423	448	460.5	473	485.5	510.5								Specific Product Precautions
L4	387.5	400	412.5	437.5	450	462.5	475	500								Precifi
L5	16	14	13	17	15	14	12	16	-							S
© SMC 82											82					

Plug-in Connector Connecting Base

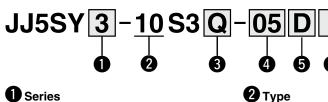
EX120

JSY1000/3000/5000 Series RoHS

Internal Pilot

Type 10 Side Ported

How to Order Manifolds



1	JSY1000
3	JSY3000
5	JSY5000

3 SI unit

0	Without SI unit										
Q	DeviceNet [™] (Posi	tive common NPN)									
R1	OMRON CompoBus/S 16 outputs										
R2	(Positive common NPN) 8 outputs										
V	CC-Link (Positiv	e common NPN)									
ZB *1	CompoNet™	Positive common NPN									
ZBN*1	Componet	Negative common PNP									

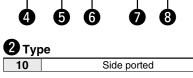
- *1 The communication connector (for the opposite side) is not provided. Please order it separately.
- * Ensure a match with the common specification of the valve to be used.

ø12

Straight port, mixed sizes

P, E port size

(One-touch fittings)



5 P. E port entry

<u> </u>	1 2
U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 16 stations)

6 SUP/EXH block

- Nil Internal pilot
- S Internal pilot, Built-in silencer
- 3/5(E) port is plugged for the built-in silencer type.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 114.

Symbol

Nil

Made to Order Order (Refer to page 114 for details.)												
Specification												
E	External pilot (SUP/EXH block assembly)											
<u> </u>	Valve stations Symbol Stations Note											
-7	Stations	Note										
	• • •											
02	2 stations											
02	2 stations :	Double wiring ^{*1}										
02 : 08	2 stations : 8 stations	Double wiring*1										
:	:											
: 08	E stations	Double wiring ^{*1} Specified layout ^{*2} (Up to 16 solenoids available)										

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- This also includes the number of blanking plates.
- Since R2 type SI unit has 8 outputs, note that up to 8 solenoids can be accommodated.

is larger than

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	_	—	
C4		ø4		—	—	
C6	Ę	ø6			—	
C8	raig	ø8	—		—	
C10	1.	ø10	_	_		Ô.

6

ø8

*1 Indicate the sizes on the manifold specification sheet in the case of

The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the

•

ø10

ø12

A, B port size (Metric/One-touch fitting)

	DL	DIN rail mounting
*	Enter	the number of stations inside \Box when it
	the nu	mber of valve stations. (Refer to "DIN F

Rail Option" shown below.) Refer to page 118 for the fixation of DIN rail mounting type

Mounting

Direct mounting

manifold. IN Dail Onti

8 Mounting and Option

DIN Rail Option												
Nil	DIN ra	DIN rail mounting (With DIN rail)										
0	DIN rail mounting (Without DIN rail)											
3	For 3 stations											
:	:	Specify a longer rail than the standard length.										
16	For 16 stations	the standard length.										

* If the DIN rail must be mounted without an SI unit, select D0. Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)

For details about the EX120 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 105. Please download the Operation Manual via SMC website, https://www.smcworld.com

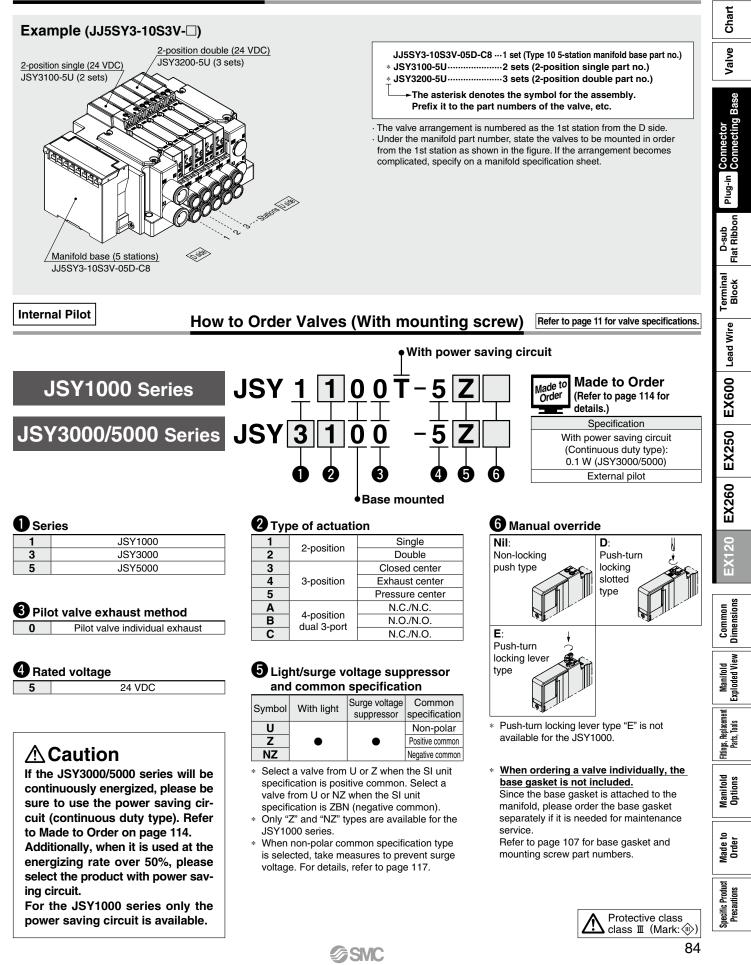
C12

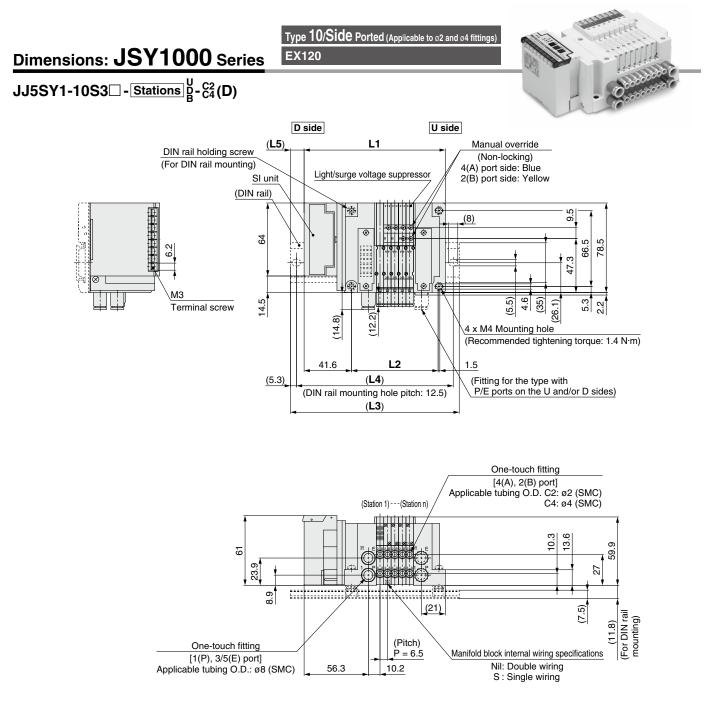
CM*1

"CM."

selected fitting.

How to Order Manifold Assembly





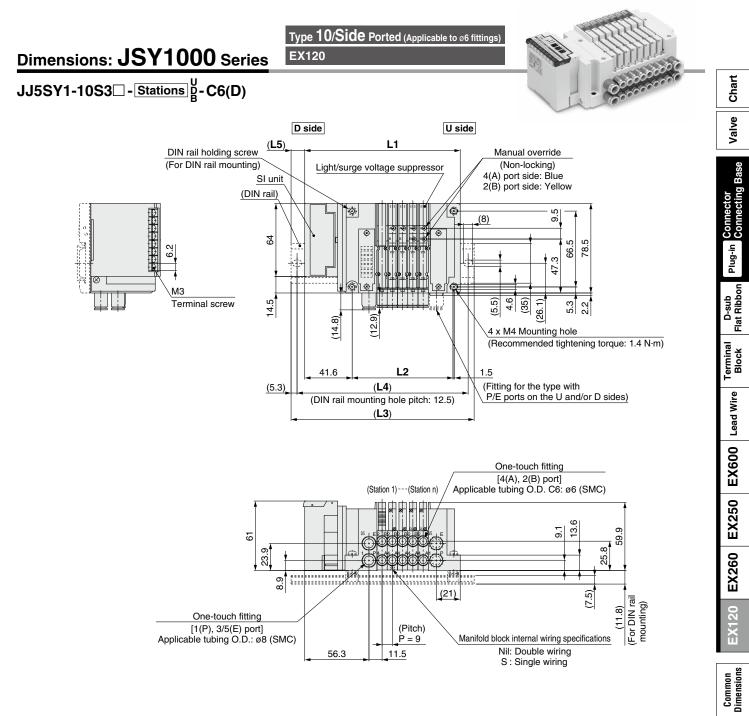
* These figures show the "JJ5SY1-10S3V-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	L: Dimensions n: Station														
r ∕	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	104.3	110.8	117.3	123.8	130.3	136.8	143.3	149.8	156.3	162.8	169.3	175.8	182.3	188.8	195.3
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	135.5	148	148	160.5	160.5	173	173	185.5	198	198	210.5	210.5	223	223
L4	125	125	137.5	137.5	150	150	162.5	162.5	175	187.5	187.5	200	200	212.5	212.5
L5	16	12	15	12	15	12	15	12	15	18	14	17	14	17	14

SMC



* These figures show the "JJ5SY1-10S3V-05D-C6."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

 $\ast~$ When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

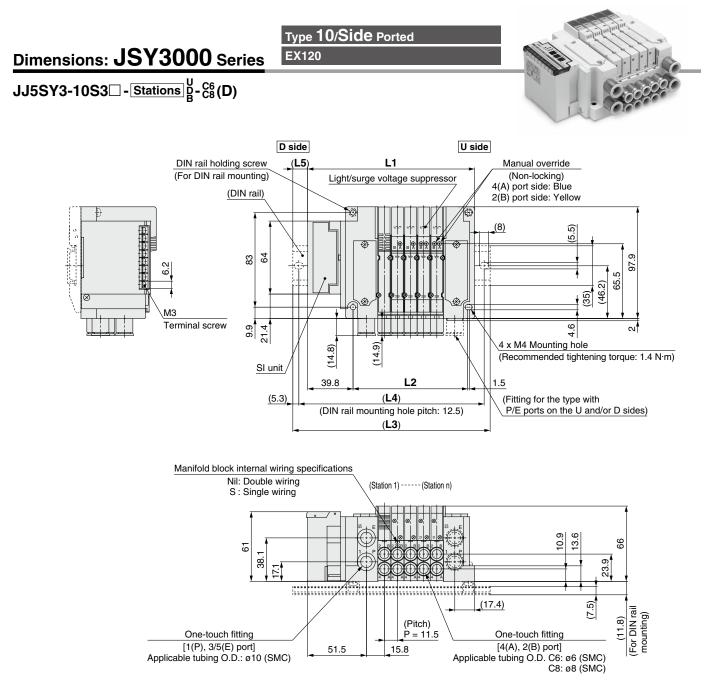
L: Dim	: Dimensions															ide to rder
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Mad
L1	109.3	118.3	127.3	136.3	145.3	154.3	163.3	172.3	181.3	190.3	199.3	208.3	217.3	226.3	235.3	
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	Product utions
L3	135.5	148	160.5	160.5	173	185.5	198	198	210.5	223	223	235.5	248	260.5	260.5	C Pro
L4	125	137.5	150	150	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250	250	Specific Precau
L5	13	15	17	12	14	16	17	13	15	16	12	14	15	17	13	\$

SMC

Manifold Exploded View

Fittings, Replacement Parts, Tools

Manifold Options

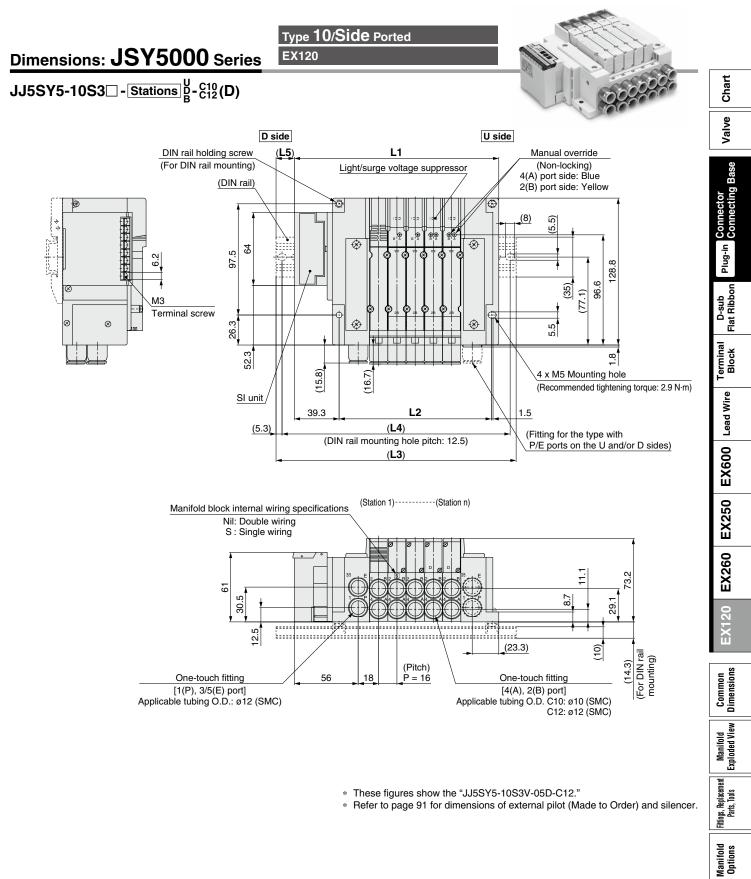


* These figures show the "JJ5SY3-10S3V-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ension	S												r	: Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	111.9	123.4	134.9	146.4	157.9	169.4	180.9	192.4	203.9	215.4	226.9	238.4	249.9	261.4	272.9
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5	298
L4	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275	287.5
L5	12	12	13	13	14	14	15	15	16	16	17	17	12	12	13

SMC



L: Dim	ension	IS												r	: Stations	e to
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Made
L1	131.3	147.3	163.3	179.3	195.3	211.3	227.3	243.3	259.3	275.3	291.3	307.3	323.3	339.3	355.3	
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	Product utions
L3	160.5	173	198	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	c Produ autions
L4	150	162.5	187.5	200	212.5	225	250	262.5	275	300	312.5	325	337.5	362.5	375	Specific Precau
L5	15	13	17	16	14	12	17	15	13	18	16	14	12	17	15	\$

JSY1000/3000/5000 Series Common Dimensions

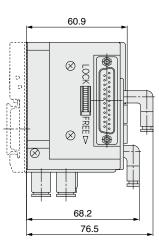
Dimensions: **JSY1000** Series

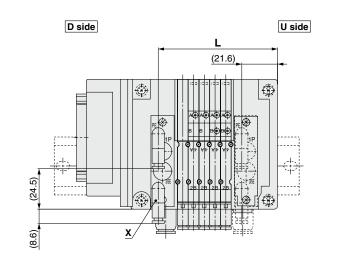
Type 10/Side Ported

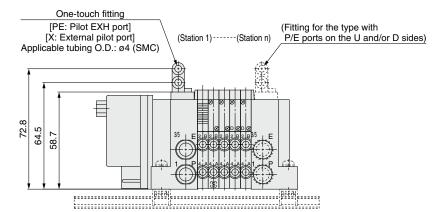
External Pilot, Built-in Silencer

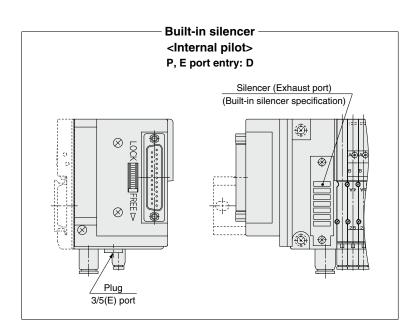
 $JJ5SY1-10 \Box - \underbrace{Stations}_{B}^{U}(S, R) - \underbrace{_{C4}^{C2}}_{C6}(D)$

External pilot (Made to Order) P, E port entry: D



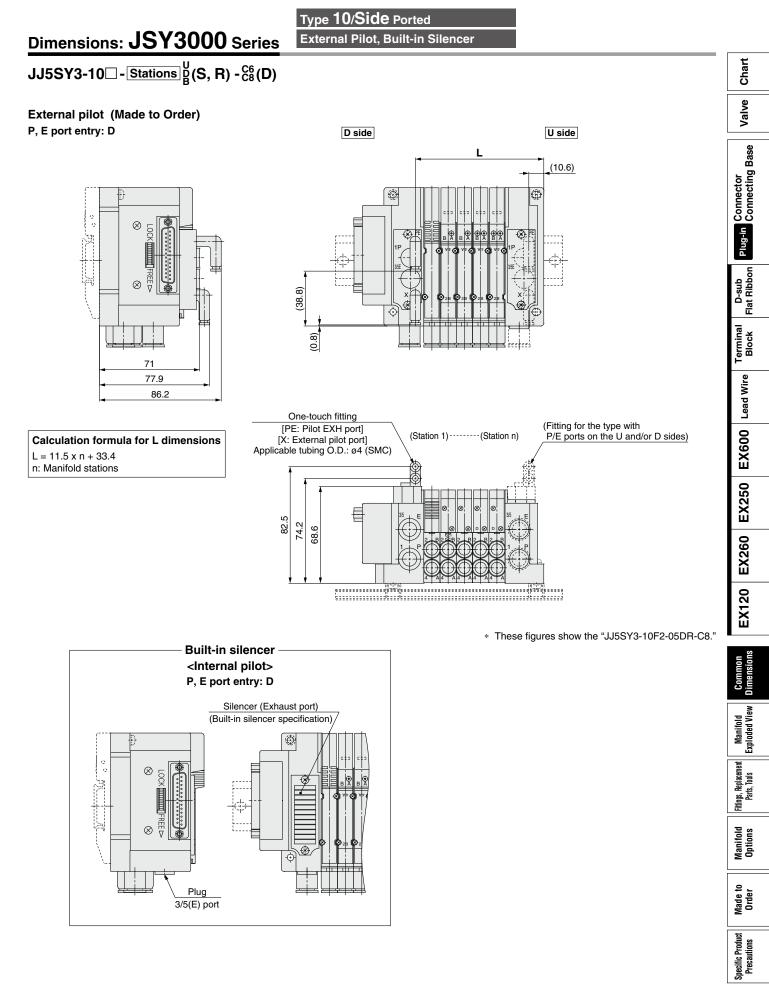






- Calculation formula for L dimensions L = $6.5 \times n1 + 9 \times n2 + 39.6$
- n1: Number of 6.5 mm pitch manifold block stations (Applicable fitting: ø2, ø4)
- n2: Number of 9 mm pitch manifold block stations (Applicable fitting: ø6)
- * These figures show the "JJ5SY1-10F2-05DR-C4."

Common Dimensions JSY1000/3000/5000 Series



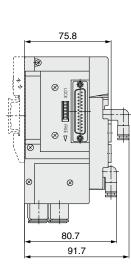
Dimensions: **JSY5000** Series

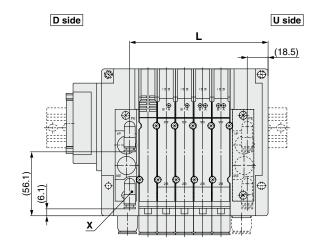
Type **10/Side** Ported External Pilot, Built-in Silencer

JJ5SY5-10 - Stations $\stackrel{V}{\stackrel{}{_{\scriptscriptstyle B}}}(S, R)$ - $\stackrel{C10}{\stackrel{}{_{\scriptscriptstyle C12}}}(D)$

External pilot (Made to Order)

P, E port entry: D



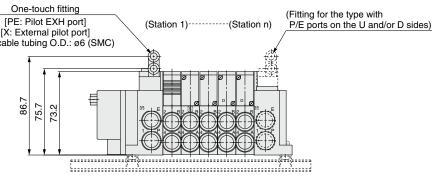


 Calculation formula for L dimensions

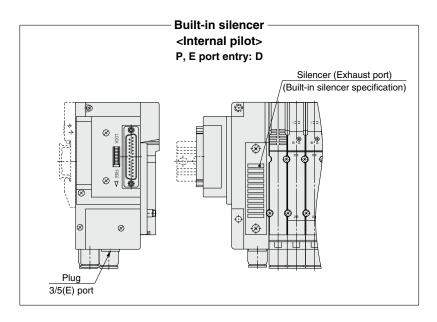
 L = 16 x n + 41.5

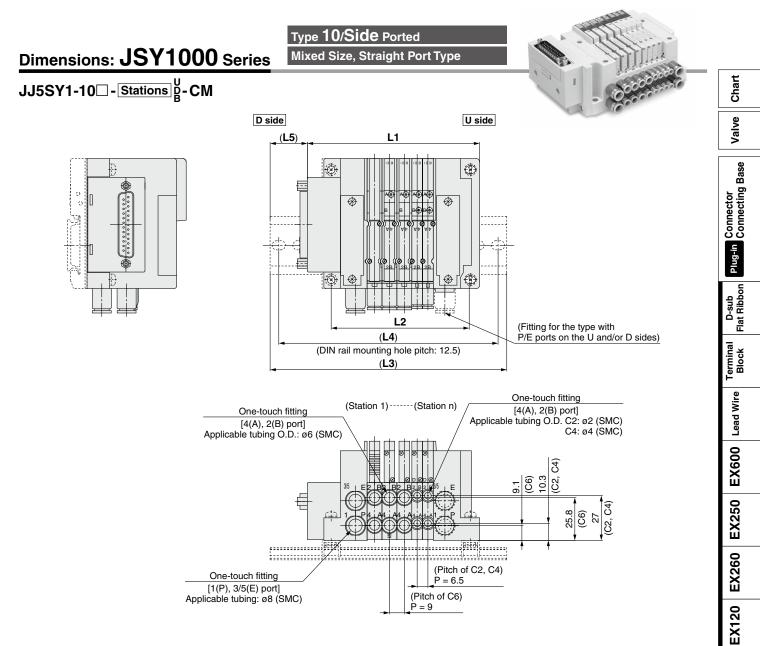
 n: Manifold stations

 Image: A state of the st



* These figures show the "JJ5SY5-10F2-05DR-C12."





- Refer to page 89 for dimensions of external pilot and built-in silencer.
- Refer to pages 63 to 66, 73, and 74 for dimensions when L6, b, and d are used for the calculation formula.
- Refer to pages below for dimensions that are not specified in each wiring specification. *

D-sub connector (IP40/Connector entry direction adjustable) : pp. 21, 22 D-sub connector (IP20/Compact type) : pp. 27, 28 Flat ribbon cable (IP40/Connector entry direction adjustable) : pp. 30, 31 Flat ribbon cable (IP20/Compact type) : pp. 34, 35 Spring type terminal block box : pp. 43, 44 Terminal block box : pp. 47, 48 Lead wire : pp. 55, 56 EX600 : pp. 63 to 66 EX250 : pp. 73, 74 EX260 : pp. 79, 80 EX120 : pp. 85, 86

Calculation formula for dimensions

L1 = 6.5 x n1 + 9 x n2 + a + b x n3
L2 = 6.5 x n1 + 9 x n2 + 43.4
$M = \{(L1 + c) / 12.5\} + 1$ Decimal fractions are truncated.
L3 = 12.5 x M + 23
L4 = L3 – 10.5
L5 = (L3 - L1 + c) / 2
$L6 = b \times n3 + d$

n1: Number of 6.5 mm pitch manifold block stations (Applicable fittings: ø2, ø4) n2: Number of 9 mm pitch manifold block stations (Applicable fittings: ø6) n3: Number of I/O units or input block stations

6						Fittings, Replacement Parts, Tools
	Coefficient	а	b	С	d	Tittings Pa
	D-sub connector (IP20/Compact type)	64.1	—	6.1	—	
	D-sub connector/Flat ribbon cable (IP40/Connector entry direction adjustable)	83	—	6.1	—	plot Disc
	Flat ribbon cable (IP20/Compact type)	59.1	—	11.2	—	Manifold Options
	Spring type terminal block box	125.5	—	—	—	ΣU
	Terminal block box	146.8	—	—	—	
	Lead wire	94.5	—	—	—	le to der
	Serial transmission: EX600 (M12 connector)	139	47	—	83.8	Made 1 Orden
	Serial transmission: EX600 (7/8 inch connector)	155.5	47	—	83.8	
	Serial transmission: EX250	139	21	_	83.8	duct
	Serial transmission: EX260	86.2	—	_	—	c Pro autio
)	Serial transmission: EX120	91.3	—		—	Specific Product Precautions
			(1000			s

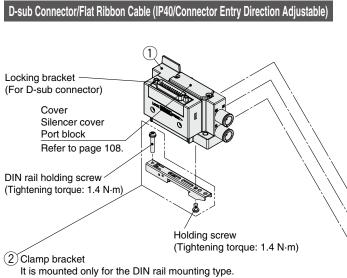
FW [D-sub connector (IP67)] is not available for the JSY1000.

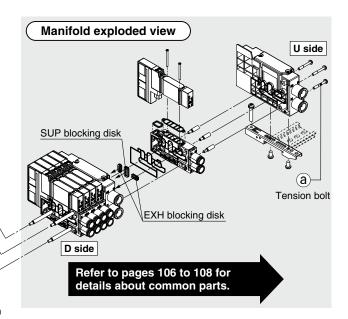
92

Exploded View Manifold

JSY1000/3000/5000 Series Type 10 **Connector Connecting Base Manifold Exploded View** Chart Manifold exploded view Valve p. 106 U side Plug-in Connector Connecting Base SUP blocking disk D-sub Flat Ribbon EXH blocking disk Terminal Block EX120 EX260 EX250 EX600 Lead Wire D side * The figures show the JSY3000 series. Wirina **D-sub Connector (IP67) D-sub Connector/Flat Ribbon Cable D-sub Connector/Flat Ribbon Cable** (IP40/Connector Entry Direction (For JSY3000/5000) (IP20/Compact Type) Adjustable) p. 96 p. 97 p. 95 Common Dimensions Terminal Block Box Lead Wire EX600 p. <u>100</u> p. 98 p. 101 p. 99 Fittings, Replacement Parts, Tools Spring type (Compact type) Manifold Options EX260 EX120 EX250 p. 103 p. 104 p. 105 Made to Order Specific Product Precautions

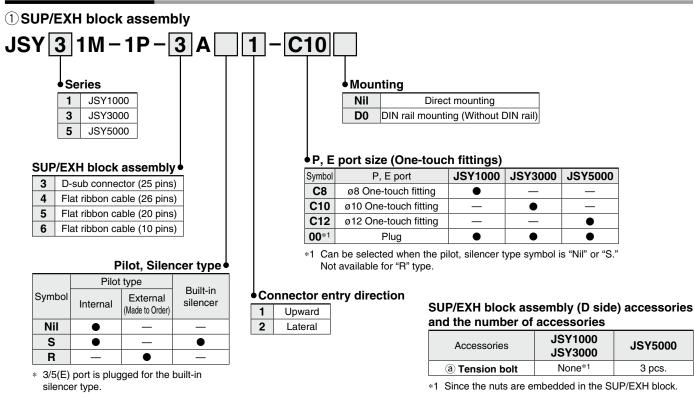
Wiring





The holding screw of the clamp bracket is tightened at one point (for the JSY3000). * The clamp bracket fixing method for the JSY1000 is different depending on wiring. Refer to page 119.

Manifold Parts Nos.



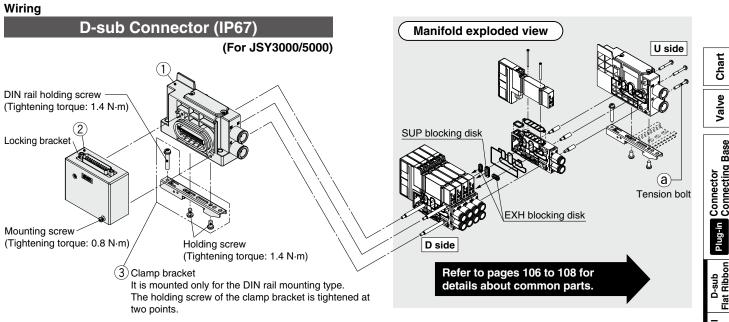
2 Clamp bracket

Series	Part no.	
JSY1000	JSY11M-15P-1A	
JSY3000	SY30M-15-1A	
JSY5000	SY50M-15-1A	

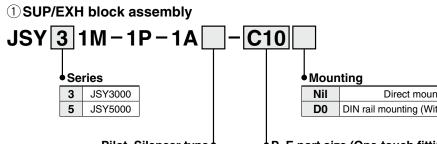
* Part number is for one piece.

95

туре 10 Connector Connecting Base Manifold Exploded View JSY3000/5000 Series



Manifold Parts Nos.



Pilot, Silencer type

	Pilot	type	Duilt in
Symbol	Intornal	External (Made to Order)	Built-in silencer
Nil	•	—	—
S	•	—	
R	_		—

3/5(E) port is plugged for the built-in silencer type.

Direct mounting DIN rail mounting (Without DIN rail)

P, E port size (One-touch fittings)

SMC

Symbol	P, E port	JSY3000	JSY5000		
C10	ø10 One-touch fitting	•	—		
C12	ø12 One-touch fitting	—	•		
00 *1	Plug	•	۲		

*1 Can be selected when the pilot, silencer type symbol is "Nil" or "S." Not available for "R" type.

SUP/EXH block assembly (D side) accessories

Accessories	JSY3000	JSY5000			
a Tension bolt	None*1	3 pcs.			

*1 Since the nuts are embedded in the SUP/EXH block.

2 D-sub connector block < for IP67>

Part no.	Connector entry direction
SY30M-14-9A1	Upward
SY30M-14-9A2	Lateral

3 Clamp bracket

<u> </u>	
Series	Part no.
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

* Part number is for one piece.

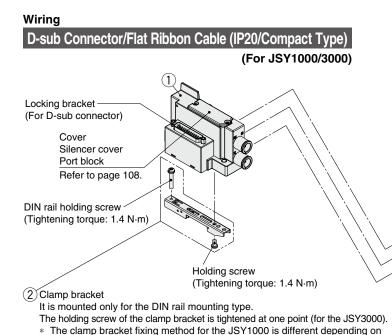
Fittings, Replacement Parts, Tools

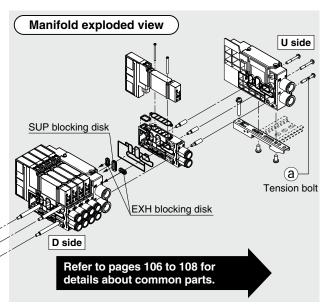
Manifold Options

9 Made t. Order

Specific Product Precautions

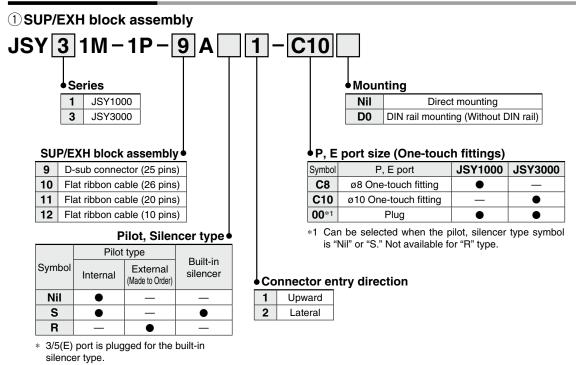
JSY1000/3000 Series





wiring. Refer to page 119.

Manifold Parts Nos.

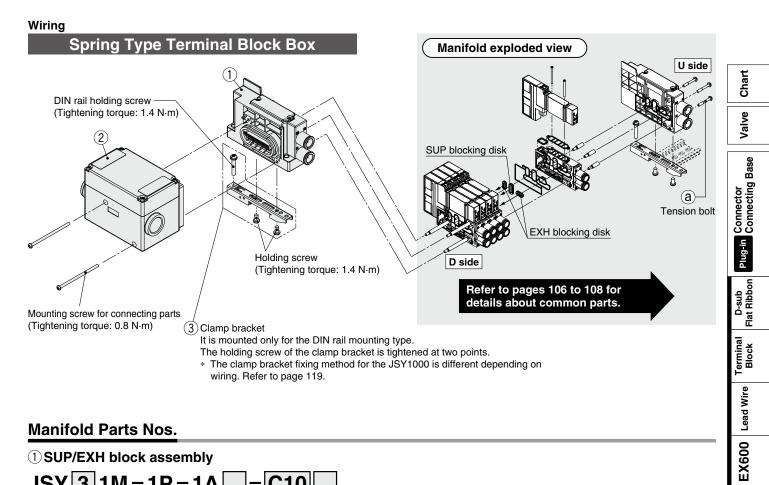


2 Clamp bracket

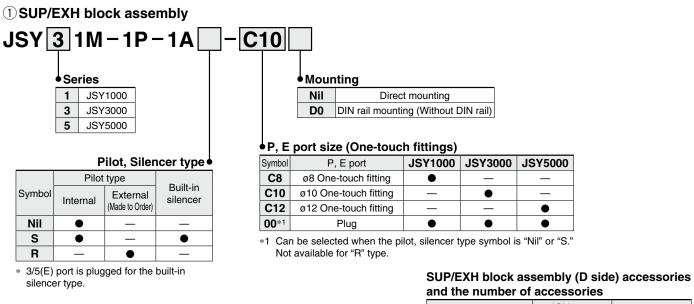
Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A

* Part number is for one piece.

туре 10 Connector Connecting Base Manifold Exploded View JSY1000/3000/5000 Series



Manifold Parts Nos.



2 Terminal block assembly

SY30M-130-1A

Accessories	JSY1000 JSY3000	JSY5000
(a) Tension bolt	None*1	3 pcs.

*1 Since the nuts are embedded in the SUP/EXH block.

3 Clamp bracket

Part no.
JSY11M-15P-1A
SY30M-15-1A
SY50M-15-1A

* Part number is for one piece.

EX250

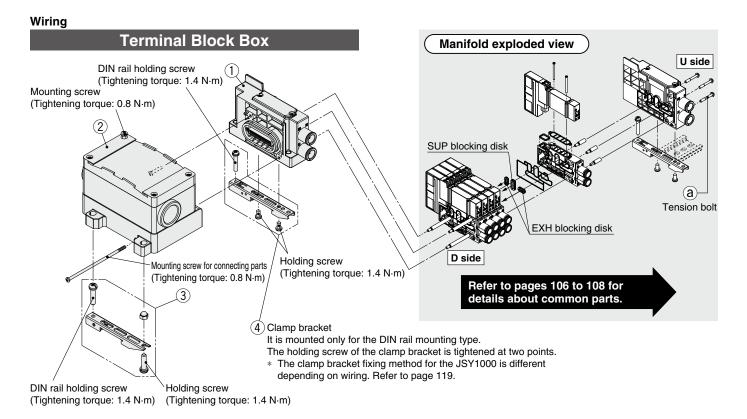
EX260

EX120

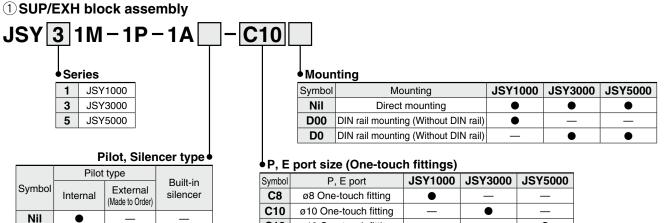
Common Dimensions

Fittings, Replacement Parts, Tools

Manifold Options



Manifold Parts Nos.



3/5(E) port is plugged for the built-in silencer type.

•

S R

Symbol	P, E port	JSY1000	JSY3000	JSY5000
C8	ø8 One-touch fitting	•	—	—
C10	ø10 One-touch fitting	—	•	—
C12	ø12 One-touch fitting	—	—	•
00 *1	Plug		•	

*1 Can be selected when the pilot, silencer type symbol is "Nil" or "S."

Not available for "R" type.

SUP/EXH block assembly (D side) accessories and the number of accessories

Accessories	JSY1000 JSY3000	JSY5000
(a) Tension bolt	None*1	3 pcs.

*1 Since the nuts are embedded in the SUP/EXH block.

(4) Clamp bracket

Series	Part no.
JSY1000	JSY11M-15P-2A
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

3 Clamp bracket for terminal block box

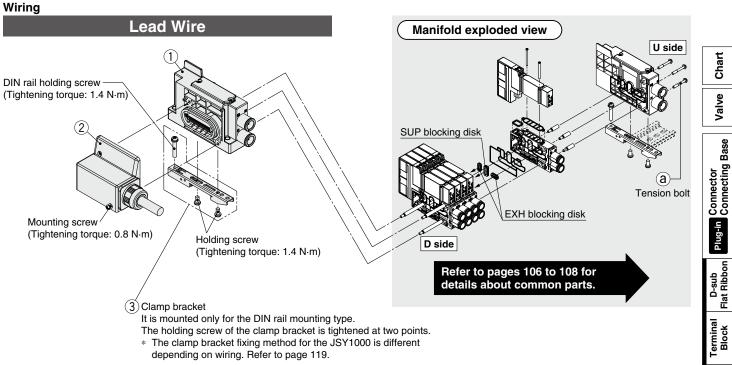
2 Terminal block box housing assembly

SY30M-15-4A

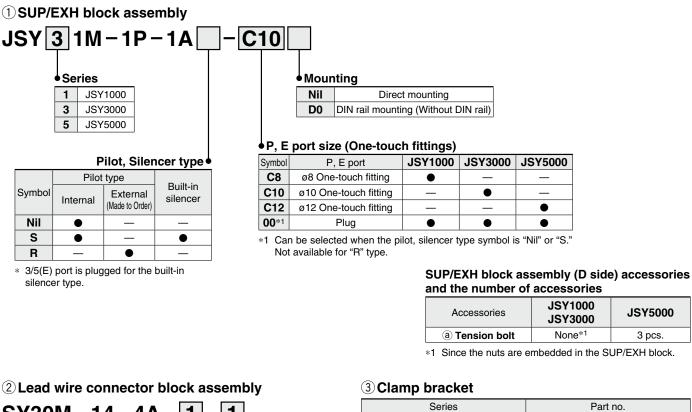
VVQC1000-T0-1

* Part number is for one piece.

Connector Connecting Base Manifold Exploded View JSY1000/3000/5000 Series



Manifold Parts Nos.



SMC

3

9

	▲ Lea	gth [m]	
Symbol		Length	
	1	0.6	
	2	1.5	
	3	3	

* Part number is for one piece.

JSY1000

JSY3000

JSY5000

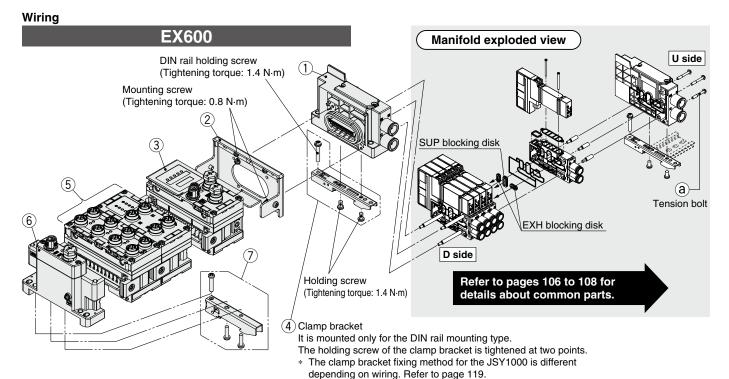
100

Aade ti Order

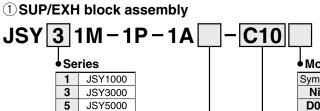
JSY11M-15P-1A

SY30M-15-1A

SY50M-15-1A



Manifold Parts Nos.



Pilot, Silencer type

	Pilot	type	Built-in
Symbol	Internal	External (Made to Order)	silencer
Nil	•	_	—
S	•	_	•
R	_		—

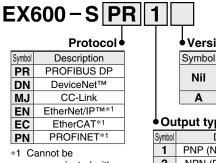
* 3/5(E) port is plugged for the built-in silencer type.

2 Valve plate

EX600-ZMV2

With mounting screws (2 pcs. of M4 x 6 and 2 pcs. of M3 x 8)

③EX600 SI unit



communicated with the EX600-HT1-

	♦N	οι	In	ting
--	----	----	----	------

Symbol	Symbol Mounting		JSY3000	JSY5000
Nil	Direct mounting	•	•	•
D00	D00 DIN rail mounting (Without DIN rail)		—	—
D0	DIN rail mounting (Without DIN rail)		•	•

P. E port size (One-touch fittings)

,		J-7		
Symbol	P, E port	JSY1000	JSY3000	JSY5000
C8	ø8 One-touch fitting	•	_	—
C10	ø10 One-touch fitting	—	•	—
C12	ø12 One-touch fitting	—	_	
00 *1	Plug	•	•	

*1 Can be selected when the pilot, silencer type symbol is "Nil" or "S." Not available for "R" type.

Part no.

JSY11M-15P-2A

SY30M-15-1A

SMC

SUP/EXH block assembly (D side)

accessories and the number of accessories			
Accessories	JSY1000/3000	JSY5000	
a Tension bolt	None*1	3 pcs.	

*1 Since the nuts are embedded in the SUP/EXH block

JSY5000 SY50M-15-1A Part number is for one piece.

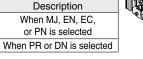
④Clamp bracket

Series

JSY1000

JSY3000

Version



•Output type

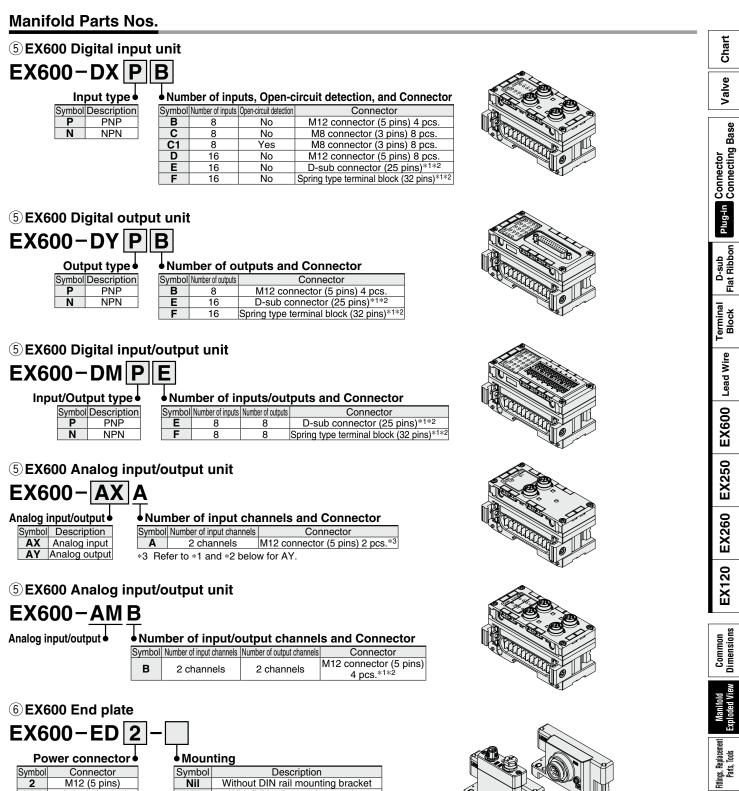
Symbol	Description	Condition					
1	PNP (Negative common)	Can be selected by all protocols					
2	NPN (Positive common)	Can be selected by all protocols					
3	PNP (Negative common)	Can be selected					
-	EtherNet/IP™ (2 ports)	in the case of EN					
4	NPN (Positive common)	Can be selected					
4	EtherNet/IP™ (2 ports)	in the case of EN					

(Wireless compatible)

EX600-WEN 1						
	Protocol					
Symbol SI unit type Description						
EN Wireless master unit EtherNet/IP™*1						
PN	Wireless master unit	PROFINET*1				
SV	Wireless slave unit	*1				
*1 Cannot be communicated with the EX600-HT1 * The wireless system is suitable for use only in a country where it is in accordance with the Radio						

Act and regulations of that country.

	Output type •
Symbol	Description
	PNP (Negative common)
2	NPN (Positive common)



Symbol	Connector
2	M12 (5 pins)
3	7/8 inch (5 pins)
4	M12 (4 pins/5 pins)
5	M12 (4 pins/5 pins)

* The pin layout for "4" and "5" pin connector is different.

Clamp bracket for EX600 EX600-ZMA3



Nil

3

Enclosed parts Round head screw with washer (M4 x 20) 1 pc. P-tight screw (4 x 14) 2 pcs.

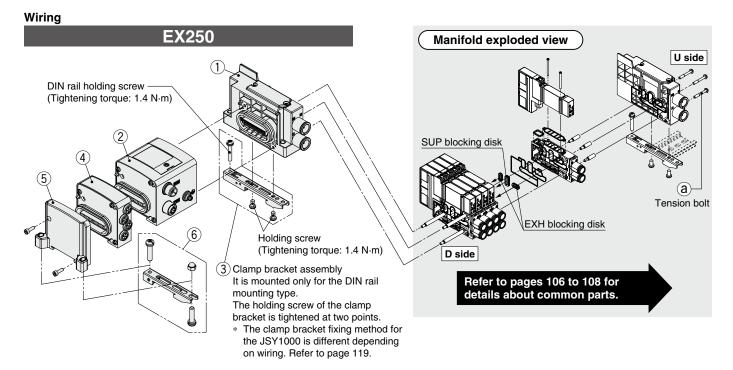
*1 Cannot be communicated with the EX600-HT1- (Old version of the handheld terminal) *2 Cannot be connected with the EX600-SPR1, EX600-SPR2, EX600-SDN1, or EX600-SDN2

With DIN rail mounting bracket

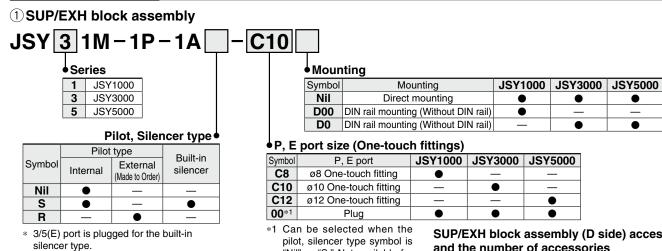
Manifold Options

Made tı Order

Specific Product Precautions



Manifold Parts Nos.



Part no.

JSY11M-15P-2A

SY30M-15-1A

SY50M-15-1A

pilot, silencer type symbol is "Nil" or "S." Not available for "R" type.

SUP/EXH block assembly (D side) accessories and the number of accessories

•

•

•

-

Accessories	JSY1000 JSY3000	JSY5000
(a) Tension bolt	None*1	3 pcs.

*1 Since the nuts are embedded in the SUP/EXH block

4 Input block

EX250-IE 1

Block type

Blocktype				
1	M12 connector, 2 inputs			
2	M12 connector, 4 inputs			
3	M8 connector, 4 inputs			

(5) EX250 End plate assembly

EX250-EA1

With mounting screws (2 pcs. of M3 x 10)

6 Clamp bracket assembly for EX250

SY30M-15-3A

* Part number is for one assembly.

* Part number is for one piece.

③Clamp bracket

2 EX250 SI unit

EX250-S DN1

Communication protocol

DN1 DeviceNet[™] (Negative common) PR1 PROFIBUS DP (Negative common) MJ2 CC-Link (Positive common)

CA1A CANopen (Negative common)

Series

JSY1000

JSY3000

JSY5000

EN1 EtherNet/IP[™] (Negative common)

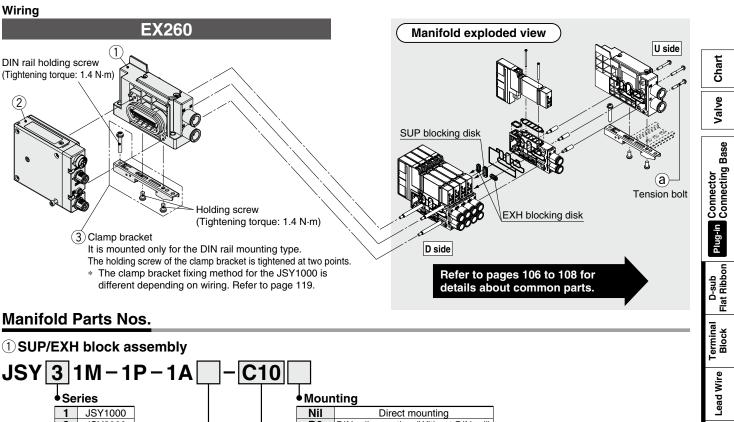
AS3 AS-Interface (8 in/8 out, 31 slave modes, 2 isolated common type) (Negative common) AS5 AS-Interface (4 in/4 out, 31 slave modes, 2 isolated common type) (Negative common) AS-Interface (8 in/8 out, 31 slave modes, 1 common type) (Negative common)

AS9 AS-Interface (4 in/4 out, 31 slave modes, 1 common type) (Negative common)

AS7



Connector Connecting Base Manifold Exploded View JSY1000/3000/5000 Series



 1
 JSY1000

 3
 JSY3000

 5
 JSY5000

Pilot, Silencer type

	Pilot	Built-in	
Symbol	Internal	External (Made to Order)	silencer
Nil		—	—
S		—	
R	Ι	•	—

 3/5(E) port is plugged for the built-in silencer type.

② EX260 SI unit

EX260-SPR1

Communication protocol

-00	minumea											
Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol	Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol	
DN1	Source/PNP (Negative common) QAN EC1			32	Source/PNP (Negative common)		DAN					
DN2	DeviceNet™	32	Sink/NPN (Positive common)	M12	QA	EC2	EtherCAT	-	Sink/NPN (Positive common)	M12	DA	
DN3	3 Deviceivel'	16	Source/PNP (Negative common)		QBN	EC3		16	Source/PNP (Negative common)		DBN	
DN4		10	Sink/NPN (Positive common)		QB			10	Sink/NPN (Positive common)		DB	
PR1		32	Source/PNP (Negative common)		NAN	PN1		32	Source/PNP (Negative common)		FAN	
PR2		32	Sink/NPN (Positive common)	M12	NA	PN2	PROFINET	32	Sink/NPN (Positive common)	M12	FA	
PR3	Source/PNP (Negative common) NBN Instruction Sink/NPN (Positive common) NB		PN3		16	Source/PNP (Negative common)	IVITZ	FBN				
PR4		Sink/NPN (Positive common)	NB	PN4		10	Sink/NPN (Positive common)		FB			
PR5	-15	32	Source/PNP (Negative common)		NCN	EN1		32	Source/PNP (Negative common)		EAN	
PR6		52	Sink/NPN (Positive common)	D-sub*1	NC	NC EN2	12 EtherNet/IP™	EN2	-	Sink/NPN (Positive common)	M12	EA
PR7		16	Source/PNP (Negative common)	D-Sub	NDN	EN3		16	Source/PNP (Negative common)	10112	EBN	
PR8		10	Sink/NPN (Positive common)		ND	EN4		10	Sink/NPN (Positive common)		EB	
MJ1	MJ1 MJ2 CC-Link		20	Source/PNP (Negative common)		VAN	PL1	Ethernet	32	Source/PNP (Negative common)	M12	GAN
MJ2		32	Sink/NPN (Positive common)	M12	VA	PL3	POWERLINK	16	Source/FINF (Negative continion)	10112	GBN	
MJ2 MJ3		16	Source/PNP (Negative common)	10112	VBN	IL1	IO-Link	32	Source/PNP (Negative common)	M12	KAN	
MJ4		10	Sink/NPN (Positive common)		VB							

*1 Enclosure is IP40 when the communication connector is D-sub.

3 Clamp bracket

Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

* Part number is for one piece.

D0 DIN rail mounting (Without DIN rail)

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000	JSY5000
C8	ø8 One-touch fitting	•	—	—
C10	ø10 One-touch fitting	—	•	—
C12	ø12 One-touch fitting	—	—	•
00 *1	Plug			

*1 Can be selected when the pilot, silencer type symbol is "Nil" or "S." Not available for "R" type.

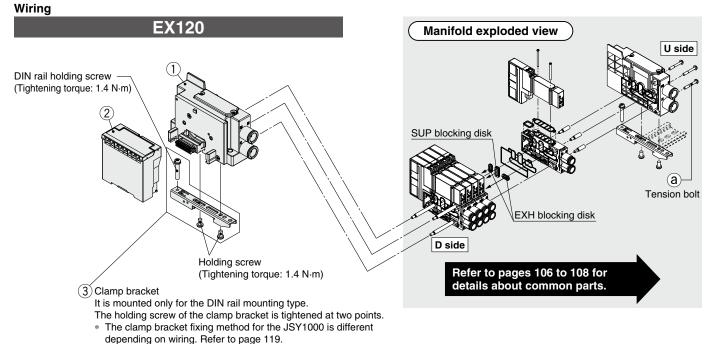
SUP/EXH block assembly (D side) accessories and the number of accessories

Accessories	JSY1000/3000	JSY5000
a Tension bolt	None*1	3 pcs.

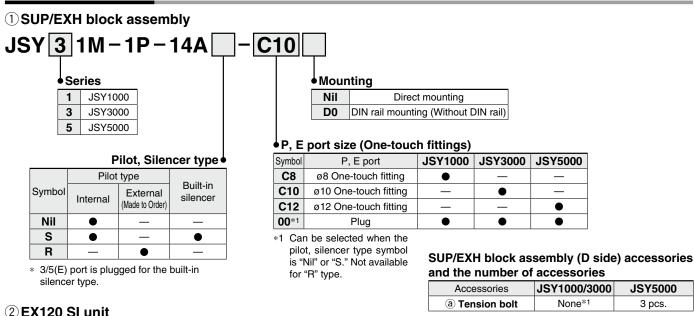
*1 Since the nuts are embedded in the SUP/EXH block

Manifold fittings, Represented withing Common Options Pars, Tools EX260 EX260 Lead Wire

pecific Produc Precautions



Manifold Parts Nos.



*1 Since the nuts are embedded in the SUP/EXH block

JSY5000

3 pcs.

	L
EX120-S	DN1

Communication protocol

DN1	DeviceNet [™] (Positive common)			
CS1	OMRON Corp.: CompoBus/S (16 outputs) (Positive common)			
CS2	OMRON Corp.: CompoBus/S (8 outputs) (Positive common)			
MJ1	MJ1 CC-Link (Positive common)			
CM1	CM1 CompoNet [™] NPN (Positive common)			
CM3	CompoNet [™] PNP (Negative common)			

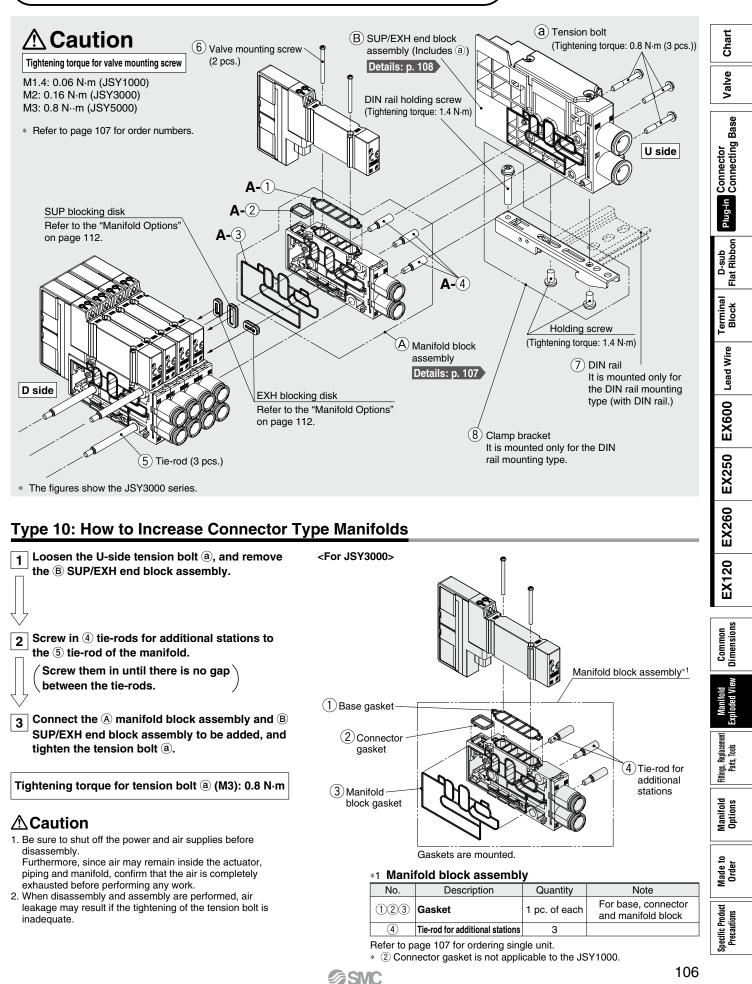
③Clamp bracket

Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

* Part number is for one piece.



Manifold Exploded View [Common Parts]



For JJ5SY1-10, JJ5SY3-10, JJ5SY5-10

No.	Description		JSY1000		JSY3000	JSY5000	Note
			6.5 mm pitch	9 mm pitch	3313000	0313000	Note
A- ①	, ck	Base gasket (for connector connecting base)	r JSY11M-9P-1A — JSY11M-9P-2		JSY31M-9P-1A	JSY51M-9P-1A	Part numbers shown on the left are for 10 valves. (10 pcs.)
A- 2	bloc bly	Connector gasket			SX3000-146-2		Supplied individually
A- 3	nifold Issem	Manifold block gasket			JSY31M-9P-2	JSY51M-9P-2	Supplied individually
A- ④	Manif as	Tie-rod for	JSY11M-49P-1-1-A	JSY11M-49P-2-1-A	JSY31M-49P-1-1-A	SV2000-55-2A-A	3 pcs. supplied
		additional stations*1	(6.5 mm pitch)	(9 mm pitch)	(11.5 mm pitch)	(16 mm pitch)	
(5)	Tie-rod		JSY11M-49P-1-□-A	JSY11M-49P-2-□-A	JSY31M-49P-1-□-A	SV2000-55-1-□-A	□: Manifold stations (2 to 24
3			(6.5 mm pitch)	(9 mm pitch)	(11.5 mm pitch)	(16 mm pitch)	stations) 3 pcs. supplied
(6)	Valv	e mounting screw		/-23-1A	JSY31V-23-1A	JSY51V-23-1A	Part numbers shown on the
9	varie meaning screw		(M1.4 x 21.5)		(M2 x 25)	(M3 x 29)	left are for 10 valves. (20 pcs.)
7	DIN	DIN rail VZ1000-11-1-			VZ1000-11-4-□	Refer to page 110.	
8		p bracket ^{*2} onnector connecting base)	JSY11M-15P-1A (Ref JSY11M-15P-2A (Ref	fer to the table below.)*2 fer to the table below.)	SY30M-15-1A	SY50M-15-1A	Supplied individually

*1 The manifold of the JSY1000/3000 (JJ5SY1-10/JJ5SY3-10) can be assembled by connecting the tie-rods for number of manifold stations. The manifold of the JSY5000 (JJ5SY5-10) cannot be assembled by connecting the tie-rods for additional stations for the number of manifold. Tie-rod (SV2000-55-1-□-A) is necessary.

*2 Part number of the clamp bracket for the JSY1000 is different depending on the manifold wiring. Refer to the table below. Refer to page 119 for assembly.

Table. JSY1000 series clamp bracket

	Wiring (JSY1000 series)	JSY11M-15P-1A	JSY11M-15P-2A
F	D-sub connector	•	—
P	Flat ribbon cable	•	—
тс	Spring type terminal block box		—
Т	Terminal block box	—	•
L	Lead wire		—
S6	EX600	—	•
S□	EX250	—	
S	EX260	•	—
S 3	EX120		—

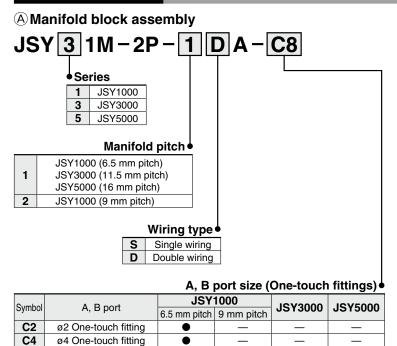
Manifold Parts Nos.

ø6 One-touch fitting

ø8 One-touch fitting

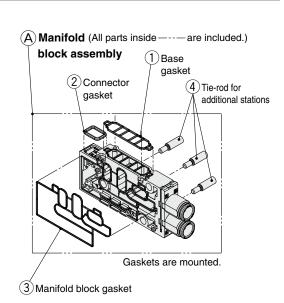
ø10 One-touch fitting

ø12 One-touch fitting



.

•



Manifold block assembly accessories and the number of accessories

Accessories	Quantity
1 Base gasket	1 pc.
2 Connector gasket*1	1 pc.
③ Manifold block gasket	1 pc.
(4) Tie-rod for additional stations	3 pcs.

*1 Not applicable to the JSY1000 series.



_

•

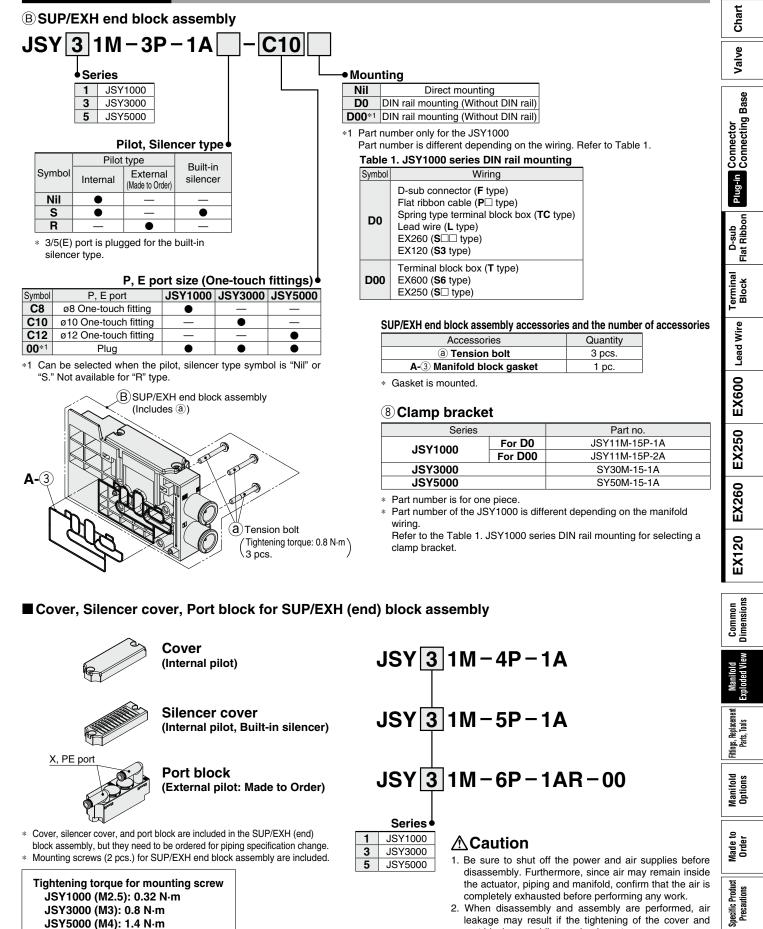
C6

C8

C10

C12

Manifold Parts Nos.



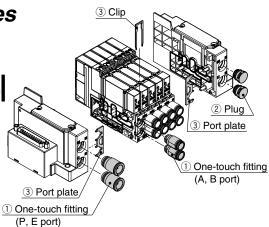
108

port block assemblies are inadequate.

SMC

JSY1000/3000/5000 series One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool

Refer to "How to Replace One-touch Fittings" on page 118 for the replacement method.



1 One-touch Fittings

-		3					
	Series	JSY	1000	JSY3000	JSY5000	Note	
Port size		6.5 mm pitch	9 mm pitch	JS13000	JS15000	Note	
	ø2 KQSY10-C2		—	—	_		
	ø4	KQSY10-C4-X1336	—	—	—		
A B port	ø6	—	KQSY11-C6-X1336	KQSY30-C6	—		
A, B port	ø8	-	_	KQSY30-C8-X1336	—		
	ø10	-	_	_	KQSY50-C10	Part number is for one piece.	
	ø12	-	_	_	KQSY50-C12-X1336		
	ø8	KQSY30-	C8-X1336	—	—		
P, E port	ø10	-	_	KQSY31-C10-X1336	—		
	ø12	-	_	—	KQSY50-C12-X1336		

* Refer to page 118 for assembling when a fitting is replaced.

2 Plug

Series Piping port	JSY1000	JSY3000	JSY5000	Note
P, E port	JSY11M-62P-1A	JSY31M-62P-1A	JSY51M-62P-1A	Part number is for one piece.

* A, B port plug does not exist. Use the KQ2P series.

3 Clip, Port Plate

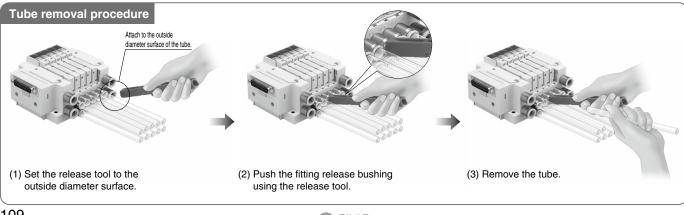
Series	JSY	1000				
Piping port	For A, B port C2/C4 fittings C6 fittings		JSY3000	JSY5000	Note	
A, B port (Clip)	SJ1000-CL-1 JSY11M-19P-1A		JSY31M-19P-1A	JSY51M-19P-1A	Part number is for 10 pieces.	
P, E port (Port plate)	JSY11M	<i>I</i> -10P-1	JSY31M-10P-1	JSY51M-10P-1	Part number is for one piece.	

* Refer to page 118 for assembling when a fitting is replaced.

Tube Releasing Tool (This tool is used for removing the tube from port A and B.)

Series	For JS	Y1000	For JSY3000	For JSY5000
Series	6.5 mm pitch	9 mm pitch	F01 35 13000	FOI 3512000
Part no.	TG-0204	TG-0608	TG-0608	TG-1012
Applicable tubing O.D.	ø2/ø4	ø6	ø6/ø8	ø10/ø12







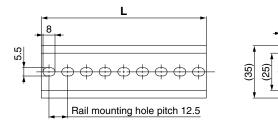
JSY1000/3000/5000 Series Manifold Options

■ DIN rail dimensions/weight for the JSY1000/3000 Pugen connector connecting base VZ1000-11-1-□

* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box 🗆.

(7.5)

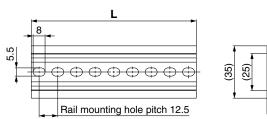
(10)



No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5	323
Weight [g]	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9	40.1	42.4	44.6	46.9	49.1	51.4	53.6	55.9	58.1
No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
L dimension	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5
Weight [g]	60.4	62.5	64.9	67.1	69.4	71.6	73.9	76.1	78.4	80.6	82.9	85.1	87.4	89.6	91.9	94.1	96.4	98.6	100.9
No.	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
L dimension	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798
Weight [g]	103.1	105.4	107.6	109.9	112.1	114.4	116.6	118.9	121.1	123.4	125.6	127.9	130.1	132.4	134.6	136.9	139.1	141.4	143.6
No.	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71				
140.																			
	810.5	823	835.5	848	860.5	873	885.5	898	910.5	923	935.5	948	960.5	973	985.5				

■DIN rail dimensions/weight for the JSY5000 Plug-in connector connecting base VZ1000-11-4-□

* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box ...



No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5	323
Weight [g]	24.8	28	31.1	34.3	37.4	40.6	43.8	46.9	50.1	53.3	56.4	59.6	62.7	65.9	69.1	72.2	75.4	78.6	81.7
No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
L dimension	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5
Weight [g]	84.9	88	91.2	94.4	97.5	100.7	103.9	107	110.2	113.3	116.5	119.7	122.8	126	129.2	132.3	135.5	138.6	141.8
No.	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
L dimension	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798
Weight [g]	145	148.1	151.3	164 6	157.6	100.0	100.0	1071	170.0	170 4	170.0	170.0	182.9	186.1	100.0	100 4	105.0	198.7	201.9
weigin [g]	145	140.1	151.5	154.5	157.6	160.8	163.9	167.1	170.3	173.4	176.6	179.8	102.9	100.1	189.2	192.4	195.6	190.7	201.9
No.	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	192.4	195.6	190.7	201.9
		-								-						192.4	195.0	196.7	201.9

SMC

Chart

Valve

Plug-in Connector Connecting Base

D-sub Flat Ribbon

Terminal Block

EX600 Lead Wire

EX250

EX260

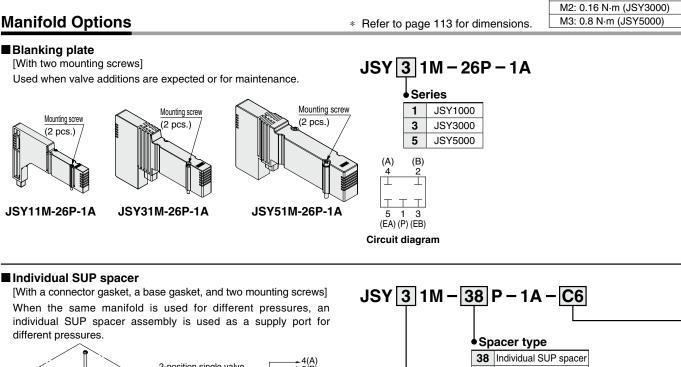
EX120

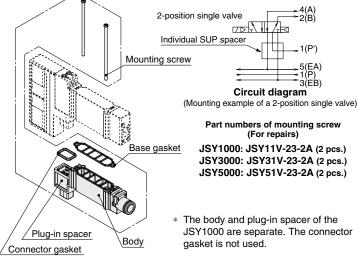
Common Dimensions

Manifold Exploded View

Aade to Order

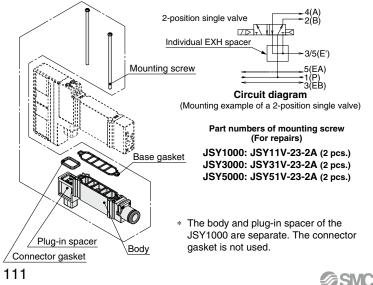
JSY1000/3000/5000 Series

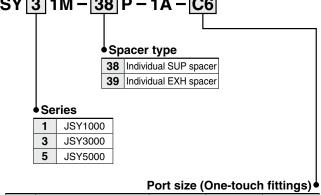




Individual EXH spacer

[With a connector gasket, a base gasket, and two mounting screws] When valve exhaust affects other stations due to the circuit configuration, this spacer assembly is used for individual valve exhaust.





Caution Tightening torque for mounting screw

M1.4: 0.06 N·m (JSY1000)

	Symbol	P, E port	JSY1000	JSY3000	JSY5000
	C4	ø4 One-touch fitting	•	—	—
ſ	C6	ø6 One-touch fitting	—	•	—
ſ	C8	ø8 One-touch fitting	—	_	•
ſ	C10	ø10 One-touch fitting	_	_	•
	C12	ø12 One-touch fitting	—	_	•

Manifold Options JSY1000/3000/5000 Series

Series

JSY1000

JSY3000

JSY5000

3/5 3/5

SUP blocking disk

JSY11M-40P-1A

JSY31M-40P-1A

JSY51M-40P-1A

EXH blocking disk

JSY11M-40P-1A

JSY31M-40P-2A

JSY51M-40P-1A

If the blocking disk is ordered using the

at the same time as the manifold, the

manifold specification sheet and ordered

Manifold Options

SUP/EXH blocking disk

[SUP blocking disk]

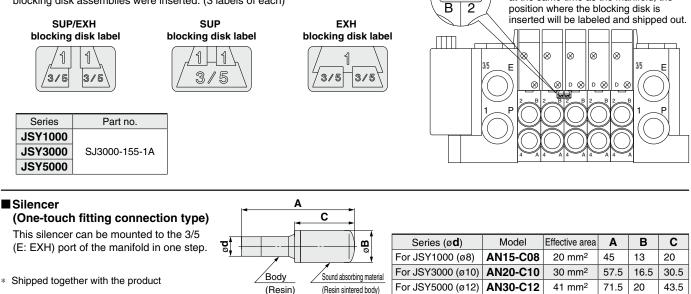
By inserting the SUP blocking disk in the pressure supply passage of the manifold valve, can provide two different high and low pressure in one manifold.

[EXH blocking disk]

By inserting the EXH blocking disk in the exhaust passage of the manifold valve, can separate the exhaust from the valve so it does not affect the other valves. It can also be used for the manifold for the positive pressure and vacuum mixed manifold. (2 pieces are required to block EA/EB both sides of the EXH.)

Label for blocking disk

Label to indicate and confirm on the manifold where the SUP/EXH blocking disk assemblies were inserted. (3 labels of each)



SMC

Chart Valve Plug-in Connector Connecting Base D-sub Flat Ribbon Terminal Block Lead Wire EX600 EX250 EX260 EX120 Common Dimensions **Exploded View** Manifold Fittings, Replacement Parts, Tools Aade ti Order

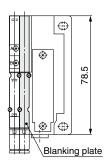
Specific Product Precautions

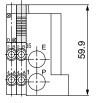
JSY1000/3000/5000 Series

Dimensions: Manifold Options

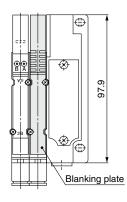
Blanking plate

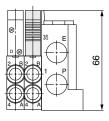
JSY1000 series



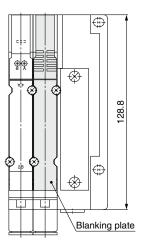


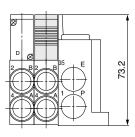
JSY3000 series





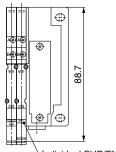
JSY5000 series



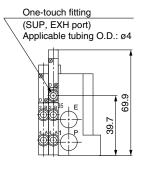


■ Individual SUP/EXH spacer

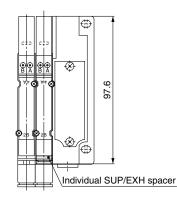
JSY1000 series



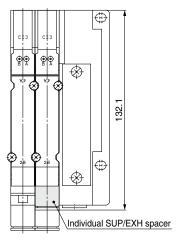
Individual SUP/EXH spacer

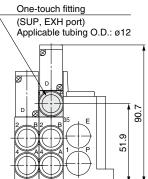


JSY3000 series



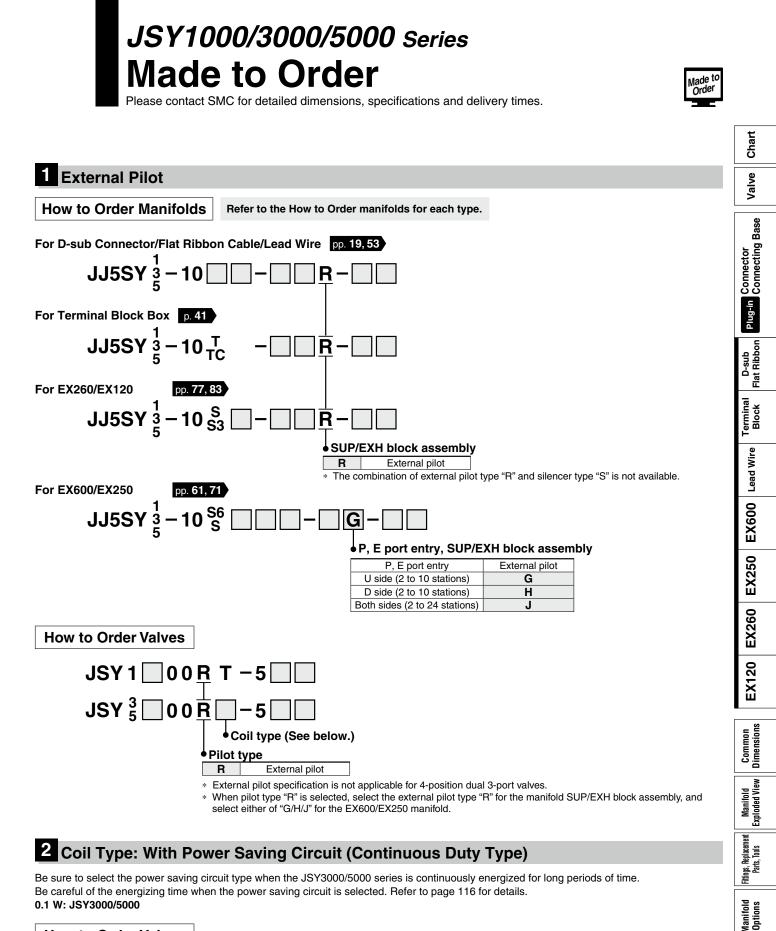
One-touch fitting (SUP, EXH port) Applicable tubing O.D.: ø6 **JSY5000** series

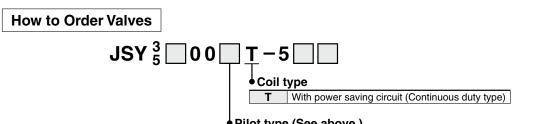




113







Pilot type (See above.)

SMC



Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

Environment

MWarning

- 1. Do not use valves in atmospheres of corrosive gases, chemicals, sea water, water, water vapor, or where there is direct contact with any of these.
- 2. Products compliant with IP67 enclosures (based on IEC60529) are protected against dust and water, however, these products cannot be used in water. If using in an environment that is exposed to water and dust splashes, take measures such as using a protective cover.
- 3. When using built-in silencer type manifold with an IP67 enclosure, keep the exhaust port of the silencer from coming in direct contact with water or other liquids.

Valve Mounting

ACaution

Mount it so that there is no slippage or deformation in gaskets, and tighten with the tightening torque as shown on the right.

)	Series	Thread size	Tightening torque
ו	JSY1000	M1.4	0.06 N·m
ו	JSY3000	M2	0.16 N·m
5	JSY5000	M3	0.8 N·m

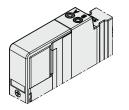
Manual Override

MWarning

Regardless of an electric signal for the valve, the manual override is used for switching the main valve. Connected actuator is started by manual operation. Use the manual override after confirming that there is no danger.

Non-locking push type

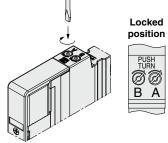
Push down on the manual override button until it stops.



■ Push-turn locking slotted type [D type]

Push down on the manual override with a small flat head screwdriver until it stops, and then turn it 90° clockwise. The manual override is then locked. To release it, turn it counter-clockwise.

If it is not turned, it can be operated the same way as the non-locking push type.

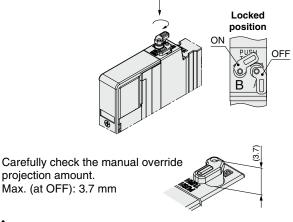


Manual Override

∕ Marning

■ Push-turn locking lever type [E type] (Only for the JSY3000/5000)

Push down on the manual override by finger until it stops, and then turn it 60° clockwise. The manual override is then locked. To release it, turn it counterclockwise. If it is not turned, it can be operated the same way as the non-locking push type.



▲Caution

Do not apply excessive torque when turning the manual override. $\left[0.1 \; N{\cdot}m\right]$

When locking the manual override, be sure to push it down before turning. Turning without first pushing it down can cause damage to the manual override and other trouble such as air leakage, etc.

Used as a 3-Port Valve

Caution

■ In case of using a 5-port valve as a 3-port valve

The JSY1000/3000/5000 series can be used as normally closed (N.C.) or normally open (N.O.) 3-port port valves by closing one of the cylinder ports 4(A) or 2(B) with a plug. However, they should be used with the exhaust ports kept open. Use them when a double solenoid type 3-port valve is required.

Plu	g position	B port	A port
Туре	of actuation	N.C.	N.O.
solenoids	Single	(A)4 2(B) [□□□1] (EA)5 1 3(EB) (P)	(A)4 2(B)
Number of solenoids	Double	(A)4 2(B)	(A)4 2(B)

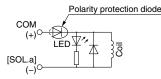


Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

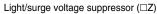
Light/Surge Voltage Suppressor

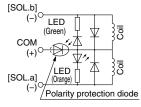
Polar type Positive common Single solenoid

Light/surge voltage suppressor ($\Box Z$)



Positive common Double solenoid, 3-position, 4-position

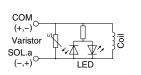


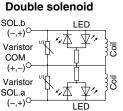


■ Non-polar type

With light/surge voltage suppressor (□U)

Single solenoid





Negative common

CON

[SOL.a]

(+)

Negative common

[SOL.b]

COM

[SOL.a

Single solenoid

LED

(Orange) x

Double solenoid,

I FD

I FD

Polarity protection diode

(Green)

3-position, 4-position

Light/surge voltage suppressor (DNZ)

Light/surge voltage suppressor (DNZ)

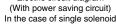
Polarity protection diode

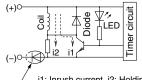
* Non-polar type is not available for the JSY1000.

With power saving circuit

Power consumption is decreased by approx. 1/3 by reducing the wattage required to hold the valve in an energized state. (Effective energizing time is over 67 ms at 24 VDC.)

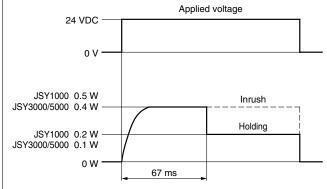






i1: Inrush current, i2: Holding current Polarity protection diode The circuit shown to the left reduces the power consumption for holding in order to save energy. Refer to the electrical power waveform as shown below.

<Electrical power waveform with power saving circuit>



 Since the voltage will drop by approx. 0.5 V due to the transistor, pay attention to the allowable voltage fluctuation. (For details, refer to the solenoid specifications of each type of valve.)

Residual voltage of the surge voltage suppressor

* If a varistor or diode surge voltage suppressor is used, there is some residual voltage to the protection element and rated voltage. Therefore, refer to the below table and pay attention to the surge voltage protection on the controller side. Also, since the response time does change, refer to the valve specifications on page 12.

Residual Voltage

V	
Surge voltage suppressor	24 VDC
Z	Approx. 1 V
U	Approx. 47 V

Continuous Duty

▲Caution

If a valve is energized continuously for long periods of time, the rise in temperature due to heat-up of the coil assembly may cause a decline in solenoid valve performance, reduce service life, or have adverse effects on peripheral equipment. If the valve is energized continuously for long periods of time, be sure to use a valve with power saving circuit. In particular, if three or more adjacent stations on the manifold are energized simultaneously for extended periods of time or if the valves on A side and B side are energized simultaneously for long periods of time, take special care as the temperature rise will be greater.

Energization of a 2-Position Double Solenoid Valve

≜Caution

SMC

To avoid operation failure, do not energize the A side and B side of 2-position double solenoid valve at the same time.





Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

Countermeasure for Surge Voltage Intrusion

▲ Caution

Sneak-in of surge voltage

With non-polar type valves, at times of sudden interruption of the loading power supply, such as emergency shutdown, surge voltage intrusion may be generated from loading equipment with a large capacity (power consumption), and the valve in a de-energized state may switch over (see Figure 1). When installing a breaker circuit for the loading power supply, consider using a valve with polarity (with polarity protection diode), or install a surge absorption diode between the loading equipment COM line and the output equipment COM line (see Figure 2).

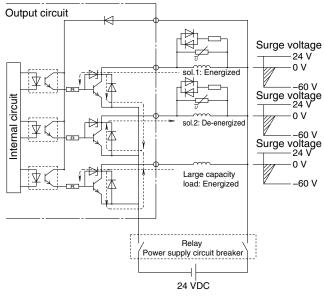


Figure 1. Surge intrusion circuit example (NPN outlet example) (24 VDC)

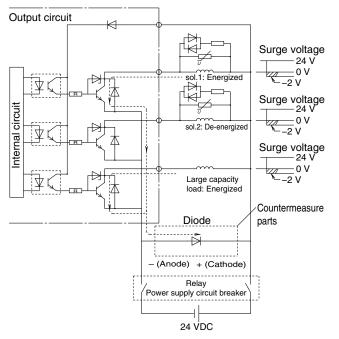


Figure 2. Surge intrusion circuit example (NPN outlet example) (24 VDC)

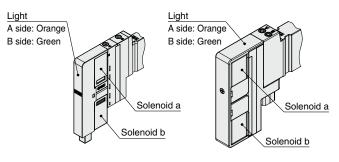
Light Indication

▲Caution

When equipped with indicator light and surge voltage suppressor, the light window turns orange when solenoid a is energized, and it turns green when solenoid b is energized.

<JSY1000 series>

<JSY3000/5000 series>



Changing Connector Entry Direction

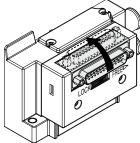
▲ Caution

SMC

Connector direction for electrical entry of D-sub connector and flat ribbon cable <IP40> can be changed. If the directional change is required, slide the lever on the side of the connector block to the FREE position, and then change the direction as shown in the figure. Also, before connecting the connector, be sure to return the lever to the LOCK position. (If the lever is difficult to slide, move the connector a little bit to make it easier to slide the lever.)

If an excessive force is applied on the connector in the LOCK position, the connector block may be damaged. Also, using in such a way that the connector floats in the FREE position, it may cause the lead wire etc., to break.

* Direction cannot be changed for D-sub connector <IP67> or compact type.





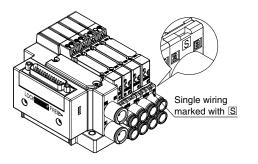
Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

How to Order Manifolds

▲Caution

The letter "S" is indicated on manifold blocks for the JSY series as shown below. This indication refers to the type of substrate (single wiring) inside the manifold blocks. When there is no symbol, double wiring is used.

When the manifold specification sheet does not include a wiring specification, all stations will be double wiring specification. In this case, single and double solenoid valves can be mounted in any position, but when a single valve is used, there will be an unused control signal. To avoid this, indicate positions of manifold blocks for single wiring specification and double wiring specification on a manifold specification sheet. (Note that double, 3-or 4-position valves cannot be used for manifolds blocks with single wiring specification S).



Substrate inside Manifolds

▲Caution

The substrate inside of manifolds cannot be taken apart. Attempting to do so may damage parts.

Fixation of DIN Rail Mounting Type Manifolds

▲Caution

- 1. When the manifold is fixed with bolts on a mounting surface etc., it can be operated just by fixing on both ends of the DIN rail if the bottom surface of the DIN rail is entirely in contact with the mounting surface when mounted horizontally. However, if it is used with other mounting or with side or reverse mounting, fix the DIN rail with bolts at regular intervals. As a guide, insert bolts in 2 locations for 2-5 stations, 3 locations for 6-10 stations, 4 locations for 11-15 stations, 5 locations for 16-20 stations and 6 locations for 21-24 stations.
- 2. When using the manifold with DIN rail in an environment where any vibration or impact is applied to it, the DIN rail itself may be broken. In particular, if the installation surface vibrates when mounting the manifold on the wall or if a load is directly applied to the manifold, the DIN rail may be broken, causing the manifold to drop. When any vibration, impact, or load is applied to the manifold, be sure to use the direct mounting manifold.

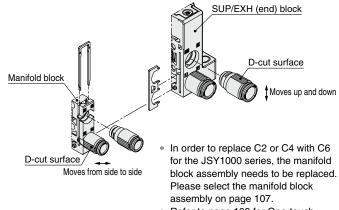
How to Replace One-touch Fittings

▲Caution

By replacing One-touch fittings of manifold base, it is possible to change the connection diameter of the 4(A), 2(B), 1(P), 3/5(E) ports. When replacing the One-touch fittings, remove the clip or the plate before pulling the One-touch fittings off. Mount the One-touch fittings by following the removal procedure in reverse.

Use caution as it may cause air leakage if the clip and the plate are not inserted securely enough when they are switched. Refer to page 109 for part numbers of One-touch fittings.

Connector connecting base



* Refer to page 109 for One-touch fitting, clip, and port plate part numbers.

<Assembly method>

· SUP/EXH (end) block

Fitting direction is specified when the fittings below are used. Assemble the fitting so that the D-cut surfaces of the fitting face <u>up and down</u>.

Fitting part no.: KQSY30-C8-X1336 (JSY1000) KQSY50-C12-X1336 (JSY5000)

Manifold block

Assemble the fitting so that the D-cut surfaces of the fitting face <u>sideways</u>.

Fitting part no.: KQSY10-C4-X1336 (JSY1000) KQSY11-C6-X1336 (JSY1000) KQSY30-C8-X1336 (JSY3000) KQSY50-C12-X1336 (JSY5000)



Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

Other Tube Brands

≜Caution

1. When using other than SMC brand tube, confirm that the following specifications are satisfied with respect to the tube outside diameter tolerance.

1) Nylon tubewith2) Soft nylon tubewith3) Polyurethane tubewith

within ± 0.1 mm within ± 0.1 mm within ± 0.15 mm within -0.2 mm

Do not use tube which do not meet these outside diameter tolerances. It may not be possible to connect them, or they may cause other trouble, such as air leakage or the tube pulling out after connection.

One-touch Fittings

ACaution

Tube attachment/detachment for One-touch fittings 1) Tube attachment

1. Take a tube having no flaws on its periphery and cut it off at a right angle. When cutting the tube, use tube cutters TK-1, 2 or 3. Do not use pliers, nippers or scissors, etc. If cutting is done with tools other than tube cutters, the tube may be cut diagonally or become flattened, etc.,

making a secure installation impossible, and causing problems such as the tube pulling out after installation or air leakage. Allow some extra length in the tube.

- 2. Grasp the tube and push it in slowly, inserting it securely all the way into the fitting.
- 3. After inserting the tube, pull on it lightly to confirm that it will not come out. If it is not installed securely all the way into the fitting, this can cause problems such as air leakage or the tube pulling out.

2) Tube detachment

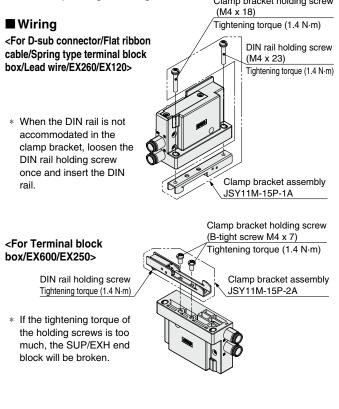
Use the release tool when the removal of tube is difficult due to the tube size. Refer to page 109 for releasing tools.

- 1. Push in the release button sufficiently, pushing its collar equally around the circumference.
- 2. Pull out the tube while holding down the release button so that it does not come out. If the release button is not pressed down sufficiently, there will be increased bite on the tube and it will become more difficult to pull it out.
- 3. When the removed tube is to be used again, cut off the portion which has been chewed before reusing it. If the chewed portion of the tube is used as is, this can cause trouble such as air leakage or difficulty in removing the tube.

Fixing Method of JSY1000 Series Clamp Bracket

▲Caution

The clamp bracket fixing method for the JSY1000 series is different depending on wiring.



≜Caution

Even though the inlet pressure is within the operating pressure range, when the piping diameter is restricted due to size reduction of supply port (P), the flow will be insufficient. In this case, the valve does not switch completely and the cylinder may malfunction.

Installation

Trademark

DeviceNet[™] is a trademark of ODVA.

- EtherNet/IP™ is a trademark of ODVA.
- CompoNet[™] is a trademark of ODVA.
- EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.



Model Index (Alphanumeric Order)

JJ5SY1-10F	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Connector Entry Direction Adjustable <ip40></ip40>	p. 19
JJ5SY1-10FC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Compact Type <ip20></ip20>	p. 19
JJ5SY1-10L1	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 34 cores	p. 53
JJ5SY1-10L2	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 17 cores	p. 53
JJ5SY1-10L3	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 9 cores	p. 53
JJ5SY1-10P	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (26 pins) <ip40></ip40>	p. 19
JJ5SY1-10PC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (26 pins) <ip20></ip20>	p. 19
JJ5SY1-10PG	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (20 pins) <ip40></ip40>	p. 19
JJ5SY1-10PGC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (20 pins) <ip20></ip20>	p. 19
JJ5SY1-10PH	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (10 pins) <ip40></ip40>	p. 19
JJ5SY1-10PHC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (10 pins) <ip20></ip20>	p. 19
JJ5SY1-10S	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX250 Series	p. 71
JJ5SY1-10S	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX260 Series	p. 77
JJ5SY1-10S3	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX120 Series	p. 83
JJ5SY1-10S6	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX600 Series	p. 61
JJ5SY1-10T	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Terminal Block Box	p. 41
JJ5SY1-10TC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Spring Type Terminal Block Box Plug-in Connector Connecting Base: D-sub Connector, Connector	p. 41
JJ5SY3-10F	JSY3000	Type 10/Side Ported	Entry Direction Adjustable <ip40></ip40>	p. 19
JJ5SY3-10FC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Compact Type <ip20></ip20>	p. 19
JJ5SY3-10FW	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector <ip67></ip67>	p. 19
JJ5SY3-10L1	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 34 cores	p. 53
JJ5SY3-10L2	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 17 cores	p. 53
JJ5SY3-10L3	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 9 cores	p. 53
JJ5SY3-10P	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (26 pins) <ip40></ip40>	p. 19
JJ5SY3-10PC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (26 pins) <ip20> Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector</ip20>	p. 19
JJ5SY3-10PG	JSY3000	Type 10/Side Ported	Entry Direction Adjustable (20 pins) <ip40> Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact</ip40>	p. 19
JJ5SY3-10PGC	JSY3000	Type 10/Side Ported	Type (20 pins) <ip20> Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector</ip20>	p. 19
JJ5SY3-10PH	JSY3000	Type 10/Side Ported	Entry Direction Adjustable (10 pins) <ip40> Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact</ip40>	p. 19
JJ5SY3-10PHC	JSY3000	Type 10/Side Ported	Type (10 pins) <ip20></ip20>	p. 19
JJ5SY3-10S	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX250 Series	p. 71
JJ5SY3-10S	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX260 Series	p. 77
JJ5SY3-10S3	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX120 Series	p. 83
JJ5SY3-10S6	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX600 Series	p. 61
JJ5SY3-10T	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Terminal Block Box	p. 41
JJ5SY3-10TC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Spring Type Terminal Block Box Plug-in Connector Connecting Base: D-sub Connector, Connector	p. 41
JJ5SY5-10F	JSY5000	Type 10/Side Ported	Entry Direction Adjustable <ip40></ip40>	p. 19
JJ5SY5-10FW	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector <ip67></ip67>	p. 19
JJ5SY5-10L1	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 34 cores	p. 53
JJ5SY5-10L2	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 17 cores	p. 53
JJ5SY5-10L3	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 9 cores Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector	p. 53
JJ5SY5-10P	JSY5000	Type 10/Side Ported	Entry Direction Adjustable (26 pins) <ip40> Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector</ip40>	p. 19
JJ5SY5-10PG	JSY5000	Type 10/Side Ported	Entry Direction Adjustable (20 pins) <ip40> Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector</ip40>	p. 19
JJ5SY5-10PH	JSY5000	Type 10/Side Ported	Entry Direction Adjustable (10 pins) <ip40></ip40>	p. 19
JJ5SY5-10S	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX250 Series	p. 71
	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX260 Series	p. 77
JJ5SY5-10S3	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX120 Series	p. 83
JJ5SY5-10S6	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX600 Series	p. 61
JJ5SY5-10T	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Terminal Block Box	p. 41
JJ5SY5-10TC	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Spring Type Terminal Block Box	p. 41 120
			C C M C	120

▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "**Caution**," "**Warning**" or "**Danger**." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)^{*1}, and other safety regulations.

- Caution: indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
- Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

AWarning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
- An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

- *1) ISO 4414: Pneumatic fluid power General rules relating to systems.
 - ISO 4413: Hydraulic fluid power General rules relating to systems. IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
 - ISO 10218-1: Manipulating industrial robots Safety. etc.

 The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand

and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - *2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.