Vacuum System Peripherals:

Vacuum regulator, Electronic vacuum regulator, Directional control valve, Pressure gauge for vacuum, Fittings & Tubing, Flow control equipment, Vacuum line equipment

Related Products:

Air filter, Regulator, Filter regulator, Mist separator

INDEX Vacuum System Peripherals:

Vacuum Regulator

Electronic Vacuum Regulator Electronic vacuum regulator: ITV20913-14-3

Directional Control Valve

Vacuum Pressure Switch

Pressure Gauge for Vacuum

Pressure gauge for vacuum: GZ46 13-14-12

Related Products:

Air Line Equipment/Modular Type

 1. Air filter: Series AF
 13-14-13

 2. Regulator: Series AR
 13-14-13

 3. Filter regulator: Series AW
 13-14-13

 4. Mist separator: Series AM/AFM
 13-14-13

Fittings & Tubing

1. Compact One-touch mini: Series KJ	13-	14-	-14
2. One-touch fitting: Series KQ			
3. One-touch fitting manifold: Series KM			
4 Miniatura fitting: Sariaa M2/M6/P	10		

4. Miniature fitting: Series M3/M6/R 13-14-14 5.Tubing 13-14-15

Flow Control Equipment

Manifold Specification Sheet

1. For ejector system: Series ZX	13-14-18
2. For vacuum pump servies: Series ZX	13-14-19

- 4. Ejector valve unit: Series ZYY/ZYX 13-14-22

ZX
ZR
ZM
ZH
ZU
ZL
ZY
ZQ
ZF
ZP
ZCU
AMJ
Misc.

Vacuum System Peripherals: Vacuum Regulator: IRV1000/2000/3000

Allows adjustment of vacuum line pressure

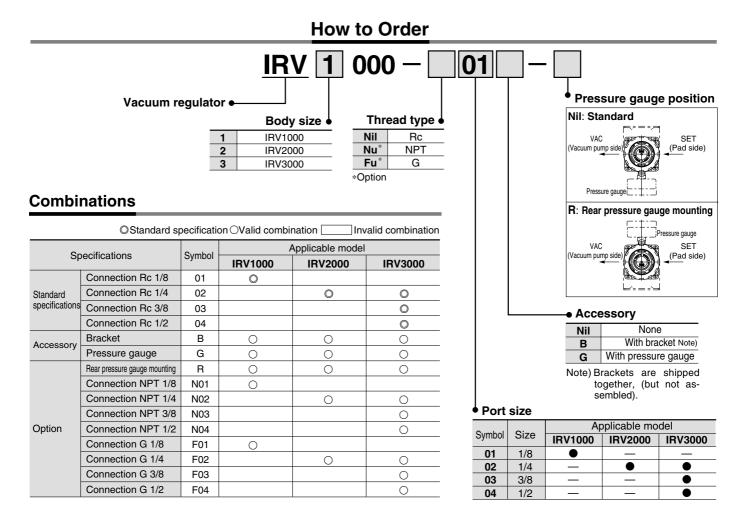


Specifications

Model	IRV1000	IRV2000	IRV3000				
Fluid		Air					
Set pressure range ⁽¹⁾		–100 to –1.3 kPa					
Atmospheric intake consumption ⁽²⁾	0.6 <i>l</i> /min (A	1.1 ℓ/min (ANR) or less					
Knob resolution		0.13 kPa or less					
Ambient and fluid temperature		5 to 60°C					
Port size	Rc 1/8	Rc 1/4	Rc 1/4, 3/8, 1/2				
Pressure gauge port size	Rc 1/8 (2 locations)						
Weight (kg)[without accessory]	(kg)[without accessory] 0.12 0.27 0.7		0.7				

Note 1) Note that the pressure range fluctuates depending on the vacuum pump pressure.

Note 2) Air is always supplied from the atmosphere.



Vacuum System Peripherals: Electronic Vacuum Regulator: *ITV209*

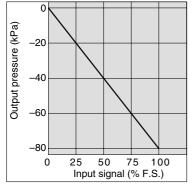




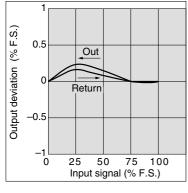
Straight type cable connector

Right angle type cable connector

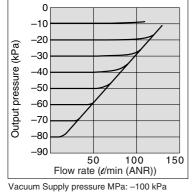
Linearity



Hysteresis



Flow Characteristics



Specifications

Model		ITV2090	ITV2091		
	Voltage	24 VDC ±10%	12 to 15 VDC		
Power supply	Current consumption	Power supply voltage 24 VDC type: 0.12 A or less Power supply voltage 12 to 15 VDC type: 0.18 A or less			
Min. supply vacu	um pressure (1)	Set pressure	e –13.3 kPa	ZX	
Max. supply vacu	um pressure	-101	kPa		
Set pressure rang	je	-1.3 to -	-80 kPa		
	Current type (2)	4 to 20 mA,	0 to 20 mA	_ ZN	
Input signal	Voltage type	0 to 5 VDC,	0 to 10 VDC		
	Preset input	4 pc	pints	ZH	
	Current type	250 Ω α	or less	- <u>-</u>	
Input impedance	Voltage type	Approx.	6.5 kΩ	ZU	
impedance	Preset input	Approx.	2.7 kΩ		
Output signal ⁽³⁾	Analog output ⁽⁴⁾	1 to 5 VDC (Load impedance: 1 kΩ or more) 4 to 20 mA (Sink type) (Load impedance: 250 Ω or less)		ZL	
(Monitor output)	Switch output	witch output NPN open collector output: Max. 30 V, 30 mA PNP open collector output: Max. 30 mA			
Linearity		Within ±1%	(Full span)		
Hysteresis		Within 0.5%	(Full span)	- [
Repeatability		Within ±0.5%	6 (Full span)	ZF	
Sensitivity		Within 0.2%	(Full span)	-	
Temperature cha	racteristics	Within ±0.12%	(Full span)/°C		
Output pressure	Accuracy	±3% (Fu	III span)		
display	Units	kPa Minimum display: 1 ⁽⁵⁾		ZC	
mbient and fluid temperature		0 to 50°C (With no condensation)			
Enclosure		Equivaler	nt to IP65		
Weight		350	D g		

Note 2) 4 to 20 mA is not possible with the 2-wire type. Power supply voltage (24 VDC or 12 to 15 VDC) is required.

Note 3) Either analog output or switch output must be selected.

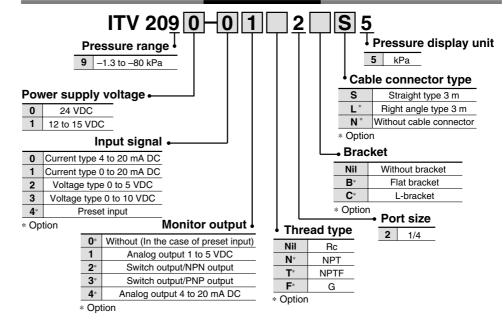
Furthermore, when switch output is selected, either NPN output or PNP output must also be selected.

Please note that the preset input type is not equipped with an output signal function. Note 4) At the atmospheric pressure, 1 VDC or 4 mA is output. 5 VDC or 20 mA is output at the rated

pressure.

Note 5) Please contact SMC regarding indication with other units of pressure.

How to Order





Vacuum System Peripherals: **Directional Control Valve**

A guide for selecting the solenoid valve model to accommodate the system An array of solenoid valves (2/3 port valve) for controlling the ejector/external vacuum supply system

How to read the chart The solenoid valves are available in the following constructions: the	em		E	jector	Syste	m			Vacu	um Pu	ımp Sy	stem		▲ Cauti	Caution on Mo on	odel Selectior	1	
standard product (for general use), the external pilot specification, and the vacuum specification. Select the optimal model in accordance with your circuit configuration and the effective area. For detailed specifications of these products, refer to the respective catalog that is available separately.	Circuit con	struction		1(P) 3(R) _X	e valve		upply val (P) (R)	ve }		n switchin	ng valve	Divider valv			release valve 1) Leakage 2) Leakage 3) Applicatio 4) Refer to E	ap at R port of 2 port e and vacuum switch I cm ³ /min or less IO ⁻⁵ atmcc/sec or les ns are different from lest Pneumatics Vol. n from sonic conduc	ng valve. (Except V s vacuum holding val 1/2/3/4/5 for flow ch	EX 3 series) ve. naracteristics.
Solenoid valve	Valve cons	struction	Standard	External pilot spec. (R)	Vacuum spec. (V)	Standard	External pilot spec. (R)	Vacuum spec. (V)	Standard	External pilot spec. (R)	Vacuum spec. (V)	Standard	External pilot spec. (R)	anaa (1/)	Flow characteristics C(dm³/(s⋅bar))	Effective area (mm²)	Port size	Best Pneumatics volume no.
Compact 3 port solenoid valve Series SY100, SYJ Compact size: 10 mm (SY100, SYJ300)		SY100		_	_		_	-		_	_		_	_		0.14	M3 x 0.5 M5 x 0.8	Vol. 4
15 mm (SYJ500) 18 mm (SYJ700) Low power consumption: 0.5 W	C.	SYJ300/500/700			_	_		_	_			_		_	0.41 to 2.8	_	1/8, 1/4	Vol. 4
3 port solenoid valve Series VZ Compact size:	d .	VZ100		_	_		_			_	_		-	_	0.11 to 3.0	_	M5 x 0.8	Vol. 4
Compact size: 15 mm (VZ100/200/300) 18 mm (VZ400/500)		VZ300/500					•		-		—	—	•	—			M5 x 0.8	
	W.S.M.	VQZ200/300							 			_		_	1.7 to 4.5	_	1/8, 1/4	Vol. 4
3 port solenoid valve Series VX31/32/33	I O			-	_		-	-	•(1)	_	(2)	•(1)	—	(2)	0.29 to 1.6	_	1/8 to 3/8	Vol. 17
3 port solenoid valve <i>Series VK</i>	Contraction of the second			-			_	_	_	_		_	_		0.47 to 0.85		M5 x 0.8 1⁄8	Vol. 4
Compact 2 port solenoid valve <i>Series VX2</i>				_	(1)		_	_	•(1)	_	•(2)	_	_	_	0.58 to 11	_	1⁄8 to 3⁄8	Vol. 4
3 port solenoid valve Series VT VT325/307/317				_			_	_	_	_		_	_		0.63 to 5.5	_	1⁄8 to 3⁄8	Vol. 4
3 port solenoid valve Series VP VP300/500/700			>		_			_	-		_	_		_	2.9 to 15	_	1/8 to 1/2	Vol. 4
3 port solenoid valve Series VS				_	_		_	_		_	_		_	_	3.8 to 20	_	1⁄8 to 3⁄4	Vol. 4
3 position valve Series VEX3				_			_	_	_		_		_	_	2.4 to 24		1/8 to 1/2	- Vol. 5
(Closed center)	40															160 to 670	^{3/} 4 to 2	
Large flow 3 port solenoid valve <i>Series VP31</i>			—		_	_		_	_	_		_	_		19 to 28		³ / ₈ to ³ / ₄	- Vol. 4
2 port solonoid value																280 to 650		
3 port solenoid valve <i>Series VG342</i>	ilie	\rangle	—		_	_		-	_		-	-		-	26 to 38		1/2 to 3/4	- Vol. 4

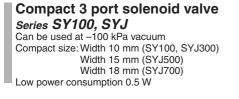
Note 1) For up to -101.2 kPa of vacuum, it can be used as the standard product (1 cm³/min max. leakage). S

Above that, it will be the V specification (10⁻⁵ at cm³/sec max. leakage).



ZX ZR ZM ZH ZU ZL ΖY ZQ ZF ZP ZCU AMJ Misc.

Vacuum System Peripherals: Directional Control Valve/Solenoid Valve





3 port solenoid valve series VZ100/300/500 Compact size: Width 15 mm (VZ100, 300) Width 18 mm (VZ400, 500) Low power consumption 1 W(0.5W)





Body ported

Base mounted

3 port solenoid valve Series VQZ200/300



Base mounted

3 port solenoid valve Series VK Compact size: Width 18 mm Possible to use with vacuum

Possible to use with vacuum



Body ported

Base mounted

Model

Piping specifications	Solenoid valve	Port size	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm ²) (Cv)
	SYJ312/322	M3 x 0.5	_	0.9
Body ported	SYJ512/522	M5 x 6.8	0.53	_
	SYJ712/722	1⁄8	2.8	_
	SY114/124(A)	M3 x 0.5	_	0.14
Base mounted	SYJ314/324	M5 x 0.8	0.41	1.8
(With sub-plate)	SYJ514/524	1⁄8	1.2	_
	SYJ714/724	1/8, 1/4	2.9	_

Model/Rubber Seal

Piping specifications	Solenoid valve	Port size	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm ²) (Cv)
	VZ110/120	M5 x 0.8	0.11	_
Body ported	VZ312/322	M5 x 0.8	0.53	_
	VZ512/522	1⁄8	2.8	_
Base mounted	VZ314/324	1⁄8	1.2	—
(With sub-plate)	VZ514/524	1/8, 1/4	3.0	_

Model/Metal Seal, Rubber Seal

Piping specifications	Solenoid valve		Port size	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm ²) (Cv)
		VQZ215		1.7	
	VQZ	VQZ235	1/8, 1/4	2.3	
	200	VQZ225	78, 74	1.7	
Base mounted		VQZ245		2.5	
(With sub-plate)	VQZ315			3.0	
	VQZ	VQZ VQZ335	1/ 0/	4.5	
	300	VQZ325	1/4, 3/8	2.9	
		VQZ345		4.4	

Model

Piping specifications	Solenoid valve	Port size	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm²) (Cv)
Body ported	VK332	M5 x 0.8	0.47	-
body ported	For vacuum: VK332V *	M5 x 0.8	0.47	—
Base mounted	VK334	1⁄8	0.85	_
(With sub-plate)	For vacuum: VK334V *	1⁄8	0.85	_

* Vacuum specification: Operating pressure range -101.2 kPa to 0.1 MPa

 \ast Low wattage style (2 W DC) and long period energized style available.





Directional Control Valve/Vacuum System Peripherals

Compact 2 port solenoid valve Series VX2 options V & M For vacuum, non leakage



Orifice dia. (mm ø)	Valve specifications	Model	Port size Rc	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm ²) (Cv)	
2	N.C.	VX2110 [№]	1/8,1/4	0.58	_	
-	N.O.	VX2112 [№]	/0,/4	0.50		
	N.C.	VX2120 [№]	1/8,1/4	1.3	_	
	N.O.	VX2122 [№]	/0,/4	1.0		
3	N.C.	VX2220 ^M				
0	N.O.	VX2222 ^M	1/4,3/8	1.3		
	N.C.	VX2320 ^M	74,98	1.5	_	Г
	N.O.	VX2322 ^M				
	N.C.	VX2130 [₩]	1/8,1/4	2.6	_	L
	N.O.	VX2132 ^M	78,74	2.0		
4.5	N.C.	VX2230 V				
4.5	N.O.	VX2232 V	1/4 3/6	0.0		Γ
	N.C.	VX2330 V	1⁄4,3⁄8	2.6	—	
	N.O.	VX2332 V	1			Ē
	N.C.	VX2240 V				
6	N.O.	VX2242 V	1/. 3/.	4.0		L
0	N.C.	VX2340 V	1⁄4 , 3⁄8	4.3	_	
	N.O.	VX2342 ^M	1			
	N.C.	VX2250 ∛	1/ 2/			ſ
8	N.C.	VX2350 V	1⁄4,3⁄8	6.4	—	
	NO		1/4	8.8	_	ſ
10	N.C.	VX2260 V	3/8,1/2	11	_	
10	NO	10/0000 M	1/4	8.8	_	L
	N.C.	VX2360 🖁	3/8,1/2	11	_	

Compact 3 port solenoid valve Series VX3 options V & M For vacuum, non leakage



Model (N.C./N.O./C.O.)

Madal

Orifice dia. (mm ø)	Model	Port size Rc	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm²) (Cv)
1.5	VX311 ⁰ 40 -01		0.29	
2.2	VX312 ⁰ / ₄ V -01	1⁄8	0.60	_
3	VX313 ⁰ / ₄ ^V -01		0.82	
1.5	VX311 ⁰ / ₄ ^W -02		0.29	_
	VX312 ⁰ / ₄ -02		0.60	_
2.2	VX3224 V -02		0.04	_
	VX3324 ^M _V -02		0.64	_
	VX313 ⁰ / ₄ ^V -02	1⁄4	0.82	—
3	VX3234 V -02		1.1	—
	VX3334 V -02		1.1	_
4	VX3244 V -02		1.6	_
	VX3344 ^M _V -02		1.0	
2.2	VX3224 V -03		0.64	—
	VX3324 ^M _V -03		0.04	—
3	VX3234 ^M _V -03	3/8	1.1	_
	VX3334 ^M _V -03			—
4	VX3244 ^M _V -03		1.6	—
	VX3344 V -03			—

For Vacuum Pad

Model	Port size	Orifice dia. (mm ø)		Effective area (mm ²) (Cv)	
Model	Rc	Pressurised side	Vacuum side	$R \rightarrow A$	$A \to P$
VXV313 🗌	1/8,1/4	1.5	3	0.29	0.82
VXV324 🗆	1/. 3/.	2.2	4	0.64	1.66
VXV334 🗌	1/4 , 3/8	2.2	4	0.64	1.66



ZF

ZΡ

ZCU

AMJ

Misc.



3 port solenoid valve

Series VS

3 port solenoid valve

Series VG342

VG342

Series VEX3

Series VS

VT317

Model/Rubber Seal

Piping specifications	Solenoid valve	Port size	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm ²) (Cv)
	VT301(V)	1/8,1/4	0.66	_
	VT315(V)	1/4	1.6	—
Body ported	VT325(V)	1/4,3/8	5.5	_
	VT307(V) *	1/8,1/4	0.71	—
	VT317(V) **	1/4	2.4	_
	VP342	1/8, 1/4	3.3	—
Body ported	VP542	1/4,3/8	6.6	_
	VP742	3/8, 1/2	1.2	_
	VP344	1/8,1/4	3.1	_
Base mounted	VP544	1/4,3/8	8.1	_
	VP744	3/8,1/2	15	—
	VP3145	3/8, 1/2, 3/4	19 to 28	_
Body ported	VP3165	3/4, 1, 1 1/4	_	230 to 310
	VP3185	11/4, 1 1/2, 2	_	570 to 650

Low wattage (2 W DC) type and long period energized type available.
 ** Long period energized type available.

V: Vacuum specification: Operating pressure range -101.2 kPa to 0.1 MPa

Model/Metal Seal

Piping specifications	Solenoid valve	Port size	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm ²) (Cv)
Body ported	VS3115	1/8, 1/4	3.8	—
	VS3110	1/4, 3/8	4.0	—
	VS3135	1/4, 3/8, 1/2	9.0	_
	VS3145	1/2, 3/4	20	—

Model/Rubber Seal

Piping specifications	Solenoid valve	Port size	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm ²) (Cv)
	VG342	1/2 to 3/4	26 to 38	—
Deskersede	VG342	1	—	210
Body ported	For Vacuum: VG342R *	1/2 to 3/4	26 to 38	—
	For vacuum: VG342R	1 —		210

* Operating pressure range: -101.2 kPa to 0.9 MPa

Model

Piping specifications		Model	Port size P, A port R port	Flow characteristics C (dm ³ /(s·bar))	Effective area (mm ²) (Cv)
			1⁄8 to 1⁄2	2.4 to 9.8	_
	Air operated	VEX3700	1/2	24	_
		VLX3/00	3⁄4 to 2	_	160 to 670
Body	Body External pilot	VEX3 ¹ ₃ 21	1/8 to 1/2	2.4 to 9.8	—
ported	solenoid valve	VEX3 ⁵ ₉ 01	1/2	24	_
		VEA3/01	3⁄4to 2	—	160 to 670
	Internal pilot	VEX3 ¹ ₃ 22	1/8 to 1/2	2.4 to 9.8	—
	solenoid valve	VEV2702	1/2	24	_
		VEX3 ⁷ ₉ 02	3⁄4 to 2	—	160 to 670
	Air operated	VEX3 ₄ 20			
Base External pilot mounted solenoid valve		VEX3 ₄ ² 21	1/8 to 1/2	3.3 to 13	_
	Internal pilot solenoid valve	VEX3 ₄ ² 22			

3 position valve





Vacuum System Peripherals: Vacuum Pressure Switch



2-color Display High Precision Digital Pressure Switch: Series ZSE30

Model		ZSE30	
Rated pressure range		-100 to 100 kPa	
Set pressure range		-101 to 101 kPa	
Proof pressu	ire	500 kPa	ZX
Setting/Displ	ay resolution	0.2 kPa	
Fluid		Air/Inert gas/Non-flammable gas	ZR
Power suppl	y voltage	12 to 24 VDC ±10%, Ripple (p-p) 10% or less (With power supply polarity protection)	
Current consumption		45 mA or less (70 mA or less for current output)	ZM
Switch output		NPN or PNP open collector output: 1output	
	Max. load current	80 mA	ZH
	Max. applied voltage	30 V (With NPN output)	
	Residual voltage	1 V or less (With load current of 80 mA)	ZU
	Response time	2.5 ms or less (Response time selections with anti-chattering	
	nesponse time	function: 20 ms, 160 ms, 640 ms, 1280 ms)	ZL
	Short circuit protection	With short circuit protection	
		For details, refer to Best Pneumatics Vol. 16.	ZY

High Precision Digital Pressure Switch: Series ZSE40

Model		ZSE40	
Rated pressure range		0.0 to –101.3 kPa	_ [
Operating pressure range/Set pressure range		10.0 to -101.3 kPa	- [
Proof pressure		500 kPa	_ [
	(kPa)	0.1	- L
	(MPa)	_	- [
	(kgf/cm ²)	0.001	- L
Set pressure resolution	(bar)	0.001	- [
	(psi)	0.01	_ [
	(mmHg)	1	_
	(InHg)	0.1	
Applicable fluid		Air/Inert gas/Non-flammable gas	_
Power supply voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less	_
Current consumption		55 mA or less	_
Switch output		NPN or PNP 2 outputs Max. load current: 80 mA Max. applied voltage: 30 VDC (With NPN output) Residual voltage: 1 V or less (With 80 mA load current)	_

For details, refer to Best Pneumatics Vol. 16.

High Precision Digital Pressure Switch: Series ZSE50F

	5	
Model		ZSE50F (Compound pressure)
Rated pressure range		–100 to 100 kPa
Operating pressure range and regulating pressure range		–100 to 100 kPa
Proof pressure		500 kPa
	(kPa)	0.1
	(MPa)	—
O UL (D: I Note)	(kgf/cm ²)	0.001
Setting/Display Note) resolution	(bar)	0.001
resolution	(psi)	0.02
	(mmHg)	1
	(inHg)	0.1
Fluid		Fluid that will not corrode stainless steel 630 and 304
Power supply voltage		12 to 24 VDC, Ripple (p-p) 10% or less
Current consumption		55 mA or less (With no load)
		For details, refer to Best Pneumatics Vol. 16.

Note) In case of types with unit conversion function. (Types without unit conversion function are fixed to the SI units (KPa or MPa).)





Vacuum System Peripherals: Vacuum Pressure Switch



High Precision Digital Pressure Switch: Series ZSE60F

Model		ZSE50F (Compound pressure)
Rated pressure range		-100 to 100 kPa
Operating pressure range and regulating pressure range		–100 to 100 kPa
Proof pressure		500 kPa
	(kPa)	0.1
	(MPa)	_
O W: (D: I Note)	(kgf/cm ²)	0.001
Setting/Display Note) resolution	(bar)	0.001
	(psi)	0.02
	(mmHg)	1
	(inHg)	0.1
Fluid		Fluid that will not corrode stainless steel 630 and 304
Power supply voltage		12 to 24 VDC, Ripple (p-p) 10% or less
Current consumption		55 mA or less (With no load)

For details, refer to Best Pneumatics Vol. 16.

Note) In case of types with unit conversion function. (Types without unit conversion function are fixed to the SI units (KPa or MPa).)

LCD Readout Digital Pressure Switch: Series ZSE3

Model		ZSE3	
Pressure setting range		0 to –101 kPa	
Maximum operating pressure		200 kPa	
Min. display unit	(mmHg)	5	
	(kgf/cm ²)	—	
Fluid		Air/Non-corrosive gas	
Operating voltage		12 to 24 VDC (Ripple ±10% or less)	
Current consumption		25 mA or less	

For details, refer to Best Pneumatics Vol. 16.

Compact Pressure Switch: Series ZSE1

ZSE1
0 to -101 kPa
500 kPa
±3% F.S.
12 to 24 VDC (Ripple ±10% or less)
17 mA or less at 24 VDC, 2 output: 25 mA or less at 24 VDC
01: R^{1}_{8} , M5 x 0.8 T1: NPTF $^{1}_{8}$, M5 x 0.8 00: ZM ejector mounted style
0 to 60°C (No condensation)

For details, refer to Best Pneumatics Vol. 16.

Compact Pressure Switch: Series ZSE2

Model	ZSE2
Pressure setting range	0 to –101 kPa
Maximum operating pressure	200 kPa
Operating voltage	12 to 24 VDC (Ripple ±10% or less)
Operation indicator light	Lights up when ON (Red)
Current consumption	17 mA or less (When 24 VDC is ON)
Operating temperature range	0 to 60°C (No condensation)
	01: R1/8, M5 x 0.8 T1: NPTF1/8, M5 x 0.8
Port size	0X: With suction filter (For mounting on ZM unit)
	0R: Base mounted style (For mounting on ZR unit)

For details, refer to Best Pneumatics Vol. 16.









Vacuum System Peripherals: Vacuum Pressure Switch









Air Checker Electronic Pressure Switch: Series PS1100

Model	PS1100-R06L	
Switch output	Present prss. ≤ Setting prss.: ON	
Max. operating pressure	1 MPa	[
Set pressure range	-0.1 to 0.4 MPa	ZX
Fluid	Air, Non corrosive gas	
Operation indicator light	ON: When red LED turns on	ZR
Temperature characteristics	±3% F.S. or less	
Repeatability	±1% F.S. or less	ZM
Hysteresis	4% F.S.	
Load voltage	12 to 24 VDC (Ripple ±10% or less)	ZH
Load current	5 to 40 mA	
Leakage	1 mA or less	ZU
Internal voltage drop	5 V or less	
Operating temperature range	0 to 60°C (No condensation)	

For details, refer to Best Pneumatics Vol. 16.

Adsorption Confirmation Switch: Series ZSP1

Model	ZSP1-S	ZSP1-B			
Fluid	Air				
Operating pressure range	–20 to –	101 kPa			
Applicable adsorption nozzle dia.	ø0.3 to ø0.7	ø0.5 to ø1.2	_ [
Hysteresis	0.5 kPa				
Internal orifice	ø0.5	ø0.8	_ [
Load voltage	12 to 24 VDC (Ripple ±10% or less)				
Output	NPN Open collector 30 V, 80 mA				

For details, refer to Best Pneumatics Vol. 16.

Multi-channel Controller: Series PSE200

Model	PSE200	PSE201		
Output specifications	NPN open collector PNP open collector			
Power supply voltage	12 to 24 VDC ±10%, Ripple (p-p) 10% or less (With power supply polariry protection)			
Current consumption	55 mA or less (Current consumption for sensor is not included.)			
Power supply voltage for sensor	[Power supply voltage] –1.5 V			
	40 mA maximum (100 mA maximum for the total power			
Power supply current for sensor ⁽¹⁾	supply current when 4 sensors are input.)			

For details, refer to Best Pneumatics Vol. 16.

Pressure Sensor: Series PSE530

Model	PSE531-M5		
Rated pressure range	0 to -101 kPa		
Proof pressure	500 kPa		
Applicable fluid	Air, Non corrosive gas		
Power supply voltage	12 to 24 VDC (Ripple ±10% or less)		
Current consumption	15 mA or less		
Output specifications	Analog output (1 to 5 V, Output impedance: Approx. 1 kΩ)		

For details, refer to Best Pneumatics Vol. 16.

Misc.



Vacuum System Peripherals: **Pressure Gauge for Vacuum:** Series GZ46



GZ46-2

APrecautions

Be sure to read before handling. I. Refer to pages 13-15-3 to 13-15-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to page 13-1-5 for Precautions on every series.

Selection

🗥 Caution

- 1. Do not expose the gauge to shocks or vibrations
- 2. Please contact SMC if the gauge is exposed to pressure pulsations or high frequency operation.

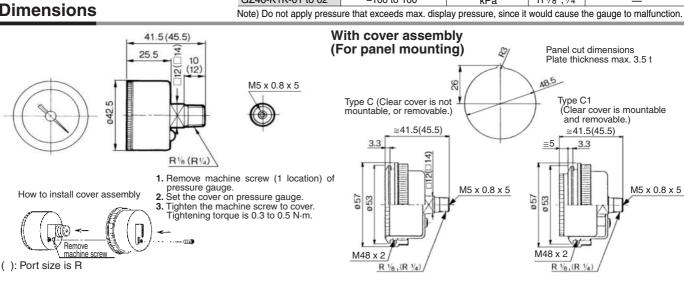
Mounting

🗥 Caution

- 1. During transport and installation, make sure the gauge is not exposed to shock, such as dropping, to maintain precision.
- 2. To ensure the proper posture of the gauge, the zero point of the graduation on the gauge must face downward and perpendicular to the ground.
- 3. Do not install the gauge in an area that is exposed to high temperatures or humidity.
- 4. When attaching the pressure gauge, make sure to place a wrench directly on the squared off portion. If a force is applied to some other area to screw in the gauge, it could cause the gauge to leak or to become damaged.

Dimensions

13-14-12



∕∂SMC

Specification	ons			
	Model	GZ46	GZ46E	
Туре		Back	screw	
Connecting ()	R 1/8 R 1/4 (Option: 1	M = with M5 x thread)	
Fluid (2)		A	Air	
Indication ac	curacy	±3%		
Parts washin	g	— Wetted parts degrease w		
	Case (Surface treatment)	Rolled steel (Black	melamine coating)	
	Clear cover	Polycarbonate	Polycarbonate (Hard coated)	
Material	(Surface treatment)	Part no: G46-00-00-3	Part no: G46-00-00-2	
	Body	Brass	Brass (Electroless nickel plated)	
	Bourdon tube	Brass		
With attachment	С	Part no: 1305104-1A		
cover assembly	C1	Part no: 1305104-3A		

Note 1) When attaching the pressure gauge, make sure not to fasten excessively, since it could cause the gauge to leak or to become damaged.

Use port tape as sealant. Recommended fastening torque = R 1/8: 7 to 9 N·m, R 1/4: 12 to 14 N·m.

Note 2) Please consult with SMC if other fluids are used, a corrosive problem may result. Mobile parts (gear, etc) inside the pressure gauge is made of brass.

How to Order E – K 1 GZ 46 K - 101 С Pressure gauge Pressure unit Option for vacuum Specifications for vacuum Model Symbol Specifications Symbol Unit Symbol Specifications Symbol O.D. Nil kPa Nil M5 (Female thread) Μ 46 ø42.5 Connecting External parts oil-free Е Copper-free Symbol Size Pressure unit 01 R 1/8 for positive pressure • Display pressure range 02 R 1/4 Symbol Unit Attachment (Covering assembly) Symbol Unit: kPa Nil Specifications Symbol Nil -100 to 0 Κ (kPa) Without covering assembly -100 to 100 Nil 1 -100 to 200 Clear cover has no protrusion 2 С (Clear cover is irremovable.) Note) X3 (wetted parts) is not stainless steel specifications.

Model (Stock item)

Model	Pressure range Note) (kPa)	Unit	Connecting	Note
GZ46-K-01 to 02	-100 to 0	kPa	R ¹ /8, ¹ /4	_
GZ46-K-01 to 02-C, C1	-100 to 0	kPa	R ¹ /8, ¹ /4	With covering assembly
GZ46-K-01 to 02M	-100 to 0	kPa	R 1/8, 1/4 M5 (Female thread)	_
GZ46E-K-01 to 02M	-100 to 0	kPa	R $1/_8$, $1/_4$ M5 (Female thread)	—
GZ46-K2K-01 to 02	-100 to 200	kPa	R ¹ / ₈ ,1/ ₄	_
Note) Do not apply pressure that exceede may, diaplay pressure, since it would eque the gauge to malfunction				

C1

Clear cover has no protrusion

(Clear cover is irremovable.)

Note) Do not apply pressure that exceeds max. display pressure, since it would cause the gauge to malfunction. Model (Made to order)

	/			
Model	Pressure range ^{Note)} (kPa)	Unit	Connecting	Note
GZ46-K1K-01 to 02	-100 to 100	kPa	R ¹ /8 , ¹ /4	—
Note) Do not apply processing that exceeds may, display processing, since it would eave the gauge to malfunction				

Related Products: Air Line Equipment Air Filter, Regulator, Filter Regulator, Mist Separator

Modular, Air filter Series AF



Model	Port size Rc	Flow rate * (ℓ/min (ANR))	Bowl capacity (cm ³)	Filtration degree (μm)
AF10	M5 x 0.8	150	2.5	
AF20	1/8, 1/4	1100	8	
AF30	1/4, 3/8	2600	25	
AF40	1/4, 3/8, 1/2	4500	45	5
AF40-06	3⁄4	5500	45	
AF50	3⁄4, 1	7000	45	
AF60	1	9000	45	

Inlet pressure — 0.7 MPa, Pressure drop — 0.05 MPa



Series AR



Model	Port size Rc	Flow rate * (ℓ/min (ANR))	Set pressure (MPa)	Pressure gauge connection port Rc	Construction
AR10	M5 x 0.8	100	0.05 to 0.7	1/16	
AR20	1/8, 1/4	600		1⁄8	
AR25	1/4,3/8	1200		1⁄8	
AR30	1/4,3/8	2900		1/8	Relieving
AR40	1/4,3/8,1/2	5000	0.05 to 0.85	1⁄4	type
AR40-06	3⁄4	6000		1/4	
AR50	³ ⁄4, 1	8000		1⁄4	
AR60	1	10000		1/4	

* Inlet pressure — 0.7 MPa, Set pressure — 0.5 MPa, Pressure drop — 0.1 MPa





Filtration Port size Flow rate Set pressure range Bowl capacity Model Construction Rc (ℓ/min (ANR)) (MPa) (cm³) (µm) AW10 M5 x 0.8 100 0.05 to 0.7 2.5 AW20 1/8,1/4 500 0.05 to 0.85 8 Relieving AW30 2000 0.05 to 0.85 5 1/4,3/8 25 type AW40 1/4, 3/8, 1/2 3000 0.05 to 0.85 45 3⁄4 AW40-06 45 3500 0.05 to 0.85

* Inlet pressure - 0.7 MPa, Set pressure - 0.5 MPa, Pressure drop - 0.1 MPa

Model	Port size Rc	Flow capacity * (ℓ/min (ANR))	Filtration (μm)	Oil mist concentration at outlet side
AM150	1/8, 1/4, 3/8	300		
AM250	1/4, 3/8, 1/2	750		
AM350	3/8, 1/2, 3/4	1500		Max. *
AM450	1/2, 3/4, 1	2200	0.3	1.0 mg/m ³ (ANR)
AM550	3⁄4,1	3500		(≅ 0.8 ppm)
AM650	1, 1/2	6000		
AM850	1 1⁄2, 2	12000		

Can produce with auto drain type, drain piping type.

At compressor discharge concentration 30 mg/m³ (ANR)

Model	Port size Rc	Rated flow rate * (ℓ/min (ANR))	Filtration (μm)	Oil mist concentration at outlet side
AFM20	1/8 , 1/4	200		Max. **
AFM30	1/4 , 3/8	450		1.0 mg/m ³ (ANR)
AFM40	1/4, 3/8, 1/2	1100	0.3	(≅ 0.8 ppm)
AFM40-06	3⁄4	1100		

* At inlet pressure 0.7 MPa (Rated flow depends on inlet pressure.)

** At compressor discharge concentration 30 mg/m³ (ANR)

12

Mist separator Series AM

Separates and removes the oil mist that is contained in compressed air, which is not easily

performed by an ordinary air filter. Solid particles measuring more than 0.3 μm, such as carbon, can be removed.



Modular. **Mist separator** Series AFM



Related Products: Fittings & Tubing/Flow Control Equipment

General Fittings

Applicable

tubing material

*Refer to Best Pneumatics Vol. 15 for further details.

One-touch mini fitting PAT.PEND

Series KJ

- Unique shape of release bushing allows easy tubing release.
- Standard with thread sealantPossible to be used in application where
- copper-free material is required.Possible to be used in vacuum from
- -100 KPa Applicable tubing O.D.: ø3.2, ø4, ø6
- Connection thread: M3, M5, R 1/8

One-touch fittings PAT.PEND Series KQ2

It can be used for nylon, soft nylon, or polyurethane. It dramatically reduces piping labor and saves space. Standard with thread sealant.





One-touch fittings/Manifold Series KM

Applicable tubing: Nylon, Soft nylon, Polyurethane Tubing O.D.: ø4, ø6, ø8, ø10, ø12







Miniature fittings

re ff ff ff a		
	2)	
1911-9-1	One-touch mini fittings	
O OF OF		

Series	Applicable tubing material	Tubing O.D.	Connection	Operating vacuum pressure
KQ2	Nylon, Soft nylon, Polyurethane	ø3.2, ø4 ø6, ø8, ø10, ø12, ø16	M5, M6, R 1/8 to 1/2	From –100 kPa

Tubing O.D.

ø3.18, ø4, ø6

Connection

МЗ.

M5,

R 1/8

Model

Series

KJ

Model Port A Port B No. of port A Port B KM11 One-touch fitting One-touch fitting One-touch fitting $6, 10$ 010 010 KM12 One-touch fitting Rc $6, 10$ Rc $1/4$ 0	Ø8
KM11 One-touch fitting One-touch fitting 6, 10 Ø10 Ø12 Ø12	•
Ø12	•
	•
KM10 One tauch filling De 0.10 Rc 1/4 ● ●	
RM12 One-todel maining The 0, 10 Rc 3/8	
ø6 •	
KM13 One-touch fitting One-touch fitting 3 Ø8 ● ●	
ø10 •	
ø6, R 1⁄8 ●	
ø6, R 1⁄4 ●	
ø6, R 3⁄8 ●	
One-touch fitting $0.8, R \frac{1}{8} \bullet$	
KM14 One-touch fitting R male thread 3 Ø8, R ¹ ⁄ ₄ ● ●	
ø8, R 3⁄8 ● ●	
ø10, R 1⁄4	
ø10, R 3⁄8	
ø10, R ¼ ●	
ø6 •	
KM15 One-touch fitting One-touch fitting rod 3 Ø8 ● ●	
ø10 🔮	
KM16 One-touch fitting One-touch fitting 3 Ø4	

Series	Applicable tubing material	Tubing O.D.	Connection			
М	Nylon, Soft nylon, Polyurethane	ø3.18, ø4, ø6	M3, M5 R ¹ ⁄8			

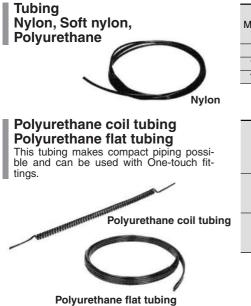
Nylon, Soft nylon, Polyurethane Operating

vacuum pressure

From -100 kPa



Tubing



			Metric size													
Model	Material	O.D. (mm)	3.	18	4	1	(6	8	3	1	0	1	2	1	6
		I.D. (mm)	2	2.18	2.5	3	4	4.5	5	6	6.5	7.5	8	9	12	13
т	Nylo	on	—			•			—		—		-		—	
TS	Soft n	ylon	—					—	_		—		_			—
TU	Polyure	thane	•	_		_		—	•	_		—	•	_	—	_
		,	•	_	•	_	•	_	•	_	•	_	•	_	_	

			Tubing size												
Description	Model	O.D. (mm)	m) 4			6			8						
Description	woder	I.D. (mm)	2.5			4			5						
		No.of tubes	1	2	3	1	2	3	1	2	3				
Dohuurothono	TCU0425B		•			_		_	_		_				
Polyurethane coil tubing	TCU0604B		—	_	_		•		_	_	_				
contubility	TCU0805B		—	—	_	_	_	—		_	_				
Deluurethene	TFU042		—		•	_	_	_	_	-	_				
Polyurethane flat tubing	TFU060	4B	—	_	_	—			—	—	_				
nat tubing	TFU080)5B	—	—	—	_	_	—	_	•	•				

Flow Control Equipment

Speed controller Series AS

Possible to control vacuum release air

With one-touch fitting

The tubing can be removed and installed through One-touch operation. The body can be screwed in directly to the equipment that you are using. As a result, the piping labor can be dra-matically reduced.



Elbow type

Check valve Series AK Large valve capacity Low cracking pressure/0.02 MPa



Мо	del	Port size	Controlled flow (ℓ/min	Applicable tubing C (mm)				g O.I	D.
Elbow type	Universal type	Rc	(ANR))	3.2	4	6	8	10	12
AS1201F-M5-0-X214	AS1301F-M5-	M5 x 0.8	100	•	•		—	—	—
AS2201F-01-0S-X214	AS2301F-01-0S-X214	1⁄8	230	•					_
AS2201F-02-0S-X214	AS2301F-02-	1/4	460	-	•				—
AS3201F-03-0S-X214	AS3301F-03-0 S-X214	3⁄8	910	_	—		•		
AS4201F-04-0S-X214	AS4301F-04-	1/2	1690			—	_		•

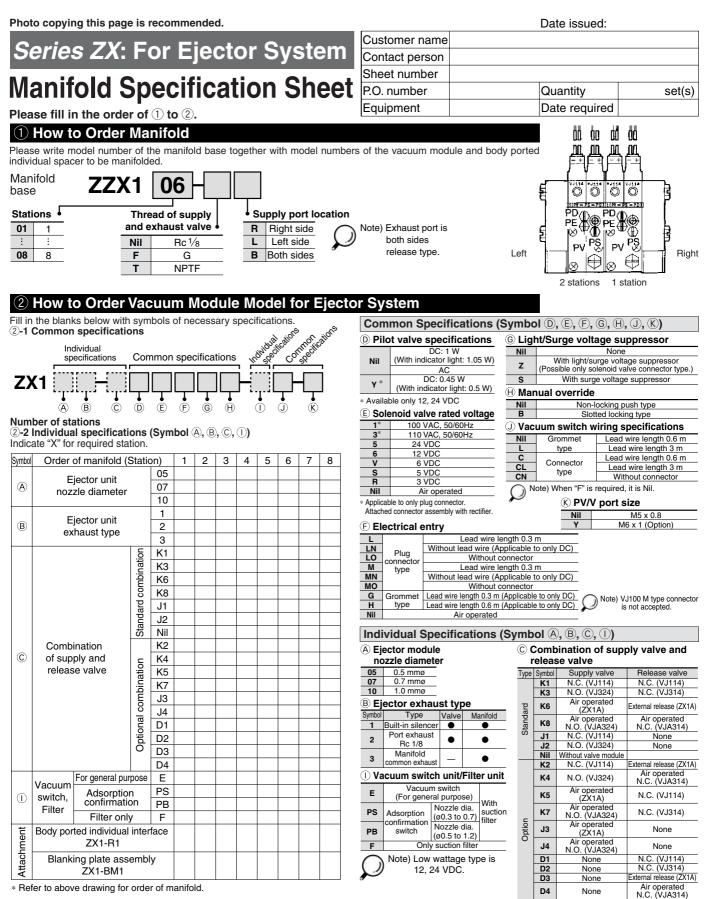
AS4201F-04-LI_S-X214 | AS4301F-04-LI_S-X214 | 1/2 * External dimensions are the same as those of Speed Controllers shown in the Best Pneumatics Vol. 15.

* At 0.5 MPa, temperature 20°C

Model	Port size Rc	Effective area (mm ²)
AK2000	1/8, 1/4	27.5 (Rc 1⁄4)
AK4000	1/4, 3/8, 1/2	95 (Rc1⁄2)
AK6000	3⁄4, 1	230 (Rc 1)

Manifold Specification Sheet For Vacuum Equipment





Air operated valve is controlled by external 3 port

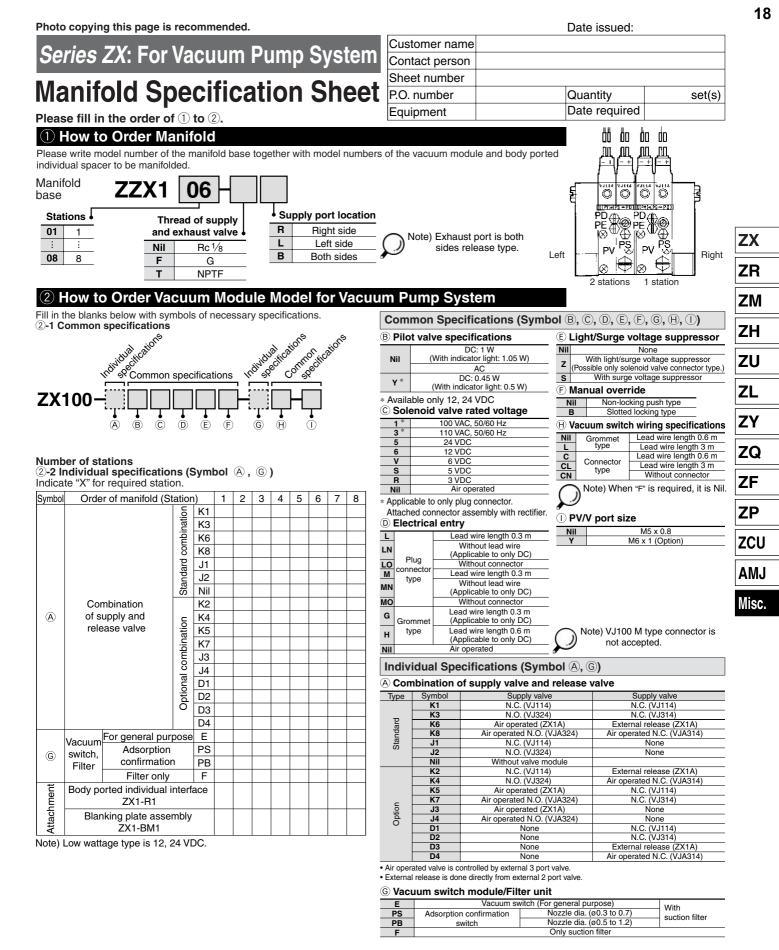
valve. External release is done directly from external 2

port valve.

The following columns shall be filled in by SMC.

Ente	r the ordering number in the table.		lowing columns shall be fill		
	Part no.	Qty.	Part no.	Qty.	Order no.
					Person in charge (Code no.)
					Section code

SMC



The following columns shall be filled in by SMC.

Enter the ordering number in the table

Part no.	Qty.	Part no.	Qty.	Order no.
				Person in charge (Code no.)
				Section code

Photo copying this page is recommended.

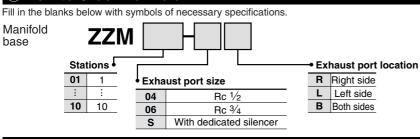
Series ZM **Manifold Specification Sheet**

Customer name Contact person Sheet number P.O. number Quantity Equipment Date required

Date issued:

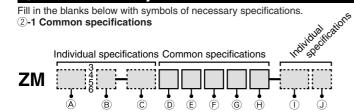
Please fill in the order of (1) to (2).





2 How to Order Ejector

Fill in the blanks below with symbols of necessary specifications. 2-1 Common specifications



Number of stations

base

C-2 Individual specifications (Symbol (A), (B), (C), (U), (J) Indicate "X" for required station.

Symbol	Order of	manifo	old (Station)	1	2	3	4	5	6	7	8	9	10
			05										
A	Nozz		07										
A	diame	ter	10										
			13										
(B)	Supp	ly	Н										
U	pressi	ire	М										
	Supply port		Common										
	Supply	ροπ	Individual										
			J										
			К										
			A										
\odot	Valv	е	В										
			P5										
			Q5										
			None										
			E14										
			E15										
			E16										
	Swite		E17										
U	mod	el	E18										
			E19										
			M15										
			M21										
			Nil										
			L										
	Switch	ZSE1	С										
J	lead wire		CL										
	length		CN										
		ZSM1	Nil										
			L										

Cor	nmo	n Specifi	ications),(E, F, G, H)						
D Pi	lot va	lve speci	fications		G	Lig	ht/Surge voltage suppressor				
Nil		1 W (With in	AC	,	N	lil S	Without light/surge voltage suppressor With surge voltage suppressor				
Y '	* DC:	0.45 W (With	i indicator lig	ht: 0.5 W)	2	Z	With light/surge voltage suppressor				
* Available only 12, 24 VDC						* When (G) or (H) is required, symbol is					
E Solenoid valve rated voltage						nil.					
5 24 VDC						or A	AC, there is no "S" specifications				
6		12 VE	DC 0		si	nce	e it is integral with converter.				
V		6 VE	C		(H)	Mar	nual override				
S		5 V D			N		Non-locking push type				
R		3 V E			E		Slotted locking type				
1			C 50/60 Hz				clotted looking type				
3		110 VA	C 50/60 Hz								
(F) El	ectric	al entry									
G	Gro	mmet (Lead	wire length	300 mm)							
н	Gro	mmet (Lead	wire length	600 mm)							
L	1.4		With lea	d wire							
LN		ype plug	Without lea	ad wire							
LO		Intector	Without co	nnector							
For A	C, only	y "L" or "LO	" is availat	ole.							
Indi	ividu	al Specif	fications	s (Symb	ol (Α), Ι	B, C, (), ()				
(A) No	ozzle	nominal o	diameter		©	Val	ve specifications				
05		0.5	5 mm		J		Supply valve (N.C.)				
07		0.7	'mm		к		Supply valve + Vacuum release valve				
10		1.0) mm		Α		Supply valve (N.O.) only				
13		1.3	3 mm		В	Su	upply valve (N.O.) + Vacuum release valve				
(B) St	anda	rd supply	pressure	a	Ρ		Air operated valve, Supply valve only				
			-		Q		Air operated valve,				
H			5.1 kgf/cm ²				Supply valve + Release valve				
М	0.35	5 MPa {3/6 kg	gt/cm ² } (Exc	ept 0.5)	Nil		Without valve				
() Sı	witch	part no.									
١	lii				Witho	ut s	switch				
F							setting				

		Thatout official										
E14	1 maint actting		3 rotations setting									
E15	1 point setting	With analog	200 setting	1								
E16	O painta aatting	output	3 rotations setting	Electronic								
E17	2 points setting		200 setting	(12 to 24 VDC)								
E18	1 maint action	With analog	3 rotations setting	1 .								
E19	1 point setting	output	200 setting									
M15	1 point setting	With analog output	18 rotations setting	Diaphragm solid state switch (10 to 26 VDC)								
M21	1 point setting	With analog output	18 rotations setting	Diaphragm reed switch (100 VAC)								
	Note) Low wattage type is,12, 24 VDC.											

Switch lead wire length

<u> </u>				
Nil	Grommet	Lead wire length 0.6 m		
L	type	Lead wire length 3 m		
С	Connector type	Lead wire length 0.6 m	Electronic: ZSE1	
CL		Lead wire length 3 m		
CN		Without connector		
Nil	Grommet	Lead wire length 0.6 m	Diaphragm: ZSM1	
L	type	Lead wire length 3 m	Diaphiagin. 23Mi	

The following columns shall be filled in by SMC.

Ente	r the ordering number in the table.	Ine	following columns shall be in	led in by Sivic	
	Part no.	Qty.	Part no.	Qty.	Order no.
					Person in charge (Code no.)
					Section code

set(s)



ZX
ZR
ZM
ZH
ZU
ZL
ZY
ZQ
ZF
ZP
ZCU
AMJ
Misc.

(3000: Individual Wiring Type **Manifold Specification Sheet**

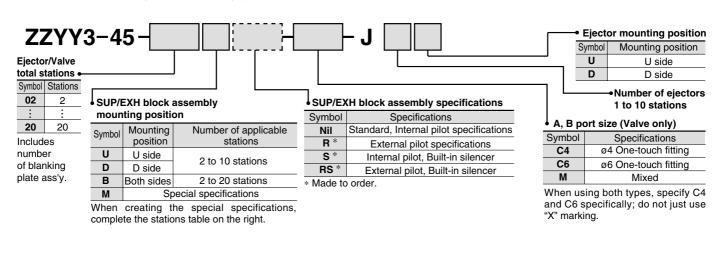
Customer name Contact person Sheet number P.O. number Quantity Equipment Date required

Date issued:

Please fill in the order of (1) to (4).

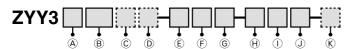
1 How to Order Manifold

Fill in the blanks below with symbols of necessary specifications.



2 Ejector Valve Model

Fill in the blanks below with symbols of necessary specifications.



(A) F	Rat	ed	v	oli	tag	je
			:4:		4: 2	

DC specifications			
5	24 VDC		
6	12 VDC		
V		6 VDC	
S		5 VDC	
R		3 VDC	
AC specifications (50/60 HZ)			
1	10	0 VAC	
2	200 VAC		
3	110 VAC (115 V)		
4	220 VAC (230 V)		
B Electrical entry			
G	Grommet (Lead wire length 300 mm)		
Н	Grommet (L	ead wire length 600 mm)	
L	L type	With lead wire	
LN	plug	Without lead wire	
LO	connector	Without connector	
М	M type	With lead wire	
MN	plug	Without lead wire	
МО	connector	Without connector	

© Light/Surge voltage suppressor				
Nil	Without light/surge voltage suppressor			
S	With surge voltage suppressor			
z	Without light/surge voltage suppressor			
R	With surge voltage suppressor (Non-polar type)			
U	Without light/surge voltage suppressor (Non-polar type)			
Note) • "U", "R" are available only for 24 VDC. • In the case of AC voltage, since connector assembly with rectifier prevents the generation of surge voltage, Type "S" is not available.				
Nil	Non-locking push type			
D	Push-locking slotted type			
Е	Push-locking manual type			

E Nozzle diameter				
07	ø0.7 mm			
10	ø1.0 mm			
E Max. vacuum pressure				
S –84 kPa				
L	–53 kPa			
G Silencer				
Nil	None			
1	With silencer			
🖯 Vacuum switch				
Nil	None			
Е	With vacuum switch			

(

① Output specifications (Vacuum switch)

U Ou					
14	N	PN open col	lector, single output		
		0	put, 3 turn-set		
	N	PN open col	lector, single output		
15	N	o analog out	put, 200 degree set		
16	N	PN open col	lector, double output		
10	N	o analog out	put, 3 turn-set		
17	N	PN open col	lector, double output		
17	N	No analog output, 200 degree set			
18	NPN open collector, single output				
18	With analog output, 3 turn-set				
19	NPN open collector, single output				
19	With analog output, 200 degree set				
55	PNP open collector, single output				
55	N	o analog out	put, 200 degree set		
J Wiring specifications (Vacuum switch)					
Nil		Grommet	Lead wire length 0.6 m		
1		type	Lead wire length 3 m		

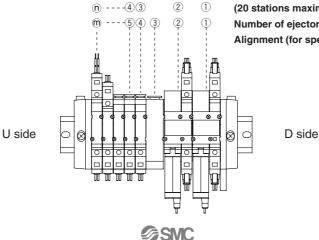
-	• •	· · ·	
Nil	Grommet type	Lead wire length 0.6 m	
L		Lead wire length 3 m	
С	Connector	Lead wire length 0.6 m	
CL		Lead wire length 3 m	
CN	(JPO	Connector type	
K Manifold block			

<u></u>		
Nil	With manifold block	
MN	None	



Number of ejector/valve stations

Alignment (for special specifications)



set(s)

Fill in the blanks below with symbols of necessary specifications.

Ġ

SY3 * 40 * Type of actuation

1	2 positon single solenoid		
2	2 positon double solenoid		
3	3 position closed center		
4	3 position exhaust center		
5	3 position pressure center		
Indicate it with the following			
stations table.			

Pilot type

	71		
Nil	External pilot		
R	Internal pilot		
When using a valve for external pilot, check "X" for external pilot specifications.			

T A B	i ii i © 0 0								
	ted voltage pecifications								
5	24 VDC								
6	12 VDC								
V	6 VDC								
S	5 VDC								
R	3 VDC								
AC s	pecifications (50/60 HZ)								
1	100 VAC								
2	200 VAC								
3	110 VAC (115 V)								
4	220 VAC (230 V)								
® El	B Electrical entry								
G	Grommet (Lead wire length 300 mm)								
н	Grommet (Lead wire length 600 mm)								
	With load wire								

77

L	L type plug	With lead wire
LN		Without lead wire
LO	connector	Without connector
М	M type	With lead wire
MN		Without lead wire
мо		Without connector

© Light/Surge voltage suppressor

_	<u> </u>	. <u>.</u>		. 9-		~ <u>9</u> -	• • r						
	Ni	il		Without light/surge voltage suppressor									
	s			With surge voltage suppressor									
	z		With light/surge voltage suppressor										
	R		With surge voltage suppressor (Non-polar type)										
	U			Wi (No	th lig on-p	ght/s olar	surg typ	e vo e)	Itag	e su	ppre	esso	or
,	 Note) • "U", "R" are available only for 24 VDC. In the case of AC voltage, since connector assembly with rectifier prevents the generation of surge voltage, Type "S" is not available. (D) Manual override 												
ì	~			-						_			
1	Ni	-				<u> </u>	pus			_			
1	D						slott			_			
	E		Pu	ısh-l	ocki	ing r	nan	ual t	ype				
3	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
_													

④ Stations

Indic	Indicate "X" for the position of ejector/valve, etc.																						
Number of valve stations or alignment 20 19 18 17 16 15 14 13 12 11 10 9 8			7	6	5	4	3	2	1	Quantity													
	2	S	With	With switch																			
	r 0 <u>1</u>	nre 10		Without switch																			
	Vacuum pressure	Without	With switch																				
	m	Va pre	silencer	Without switch																			
	di	L	With	With switch																			
Suc	zle	ur Pin		Without switch																			
atio	Nozzle diameter 07	Vacuum pressure	Without	With switch																			
lific	~	Va pre	silencer	Without switch																			
Ejector Specifications	0	S	With	With switch																			
S	Nozzle diameter 10	Vacuum pressure	silencer																				
cto	ete	Vacuum pressure	Without	With switch																			
ē	ame	pre Pre	silencer	Without switch																			
	dia	٦	With	With switch																			
	zle	Vacuum pressure L		Without switch																			
	Voz	Vacuum pressure	Without	With switch																			
	Pre Va	silencer	Without switch																				
		Non	plug asse	mbly																			
	2 n	osition	Sing	gle solenoid																			
	z p	USILION	Dou	ble solenoid																			
			Clos	sed center																			
S	3 p	osition	Exh	aust center																			
ü			Pres	ssure center																			
cati		Blanki	ng plate a	issembly																			
cifi	Complete	e when orde	ring SUP/E	XH block assembly																			
be		al specifications.																					
é	Blanking plate assembly Complete when ordering SUP/EXH block assembly special specifications. SUP block disk EXH block disk																						
/alv																							
-	ment u	dividual S	UP space	er assembly																			
	Individual SUP spacer assembly Individual EXH spacer assembly Individual EXH spacer assembly																						

Note • Non plug assembly: ZYY3000-NPA

- Blanking plate assembly: SX3000-75-1A
- SUP block disk: SX3000-77-1A
- 2 pcs 1 location • EXH block disk: SX3000-77-1A
- Individual SUP spacer assembly: SY3000-38-2A Individual EXH spacer assembly: SY3000-39-2A

• SUP/EXH block assembly (for R): SX3000-51-3A

- SUP/EXH block assembly (for S): SX3000-51-4A
- SUP/EXH block assembly (Standard): SX3000-51-1A SUP/EXH block assembly (for RS): SX3000-51-5A

Enter the ordering number in

	т	ho fo	ollowing columns shall be filled in	by SMC	
the table.	- 1	ne ic	biowing columns shall be filled in	by Sivic	
	Qty.		Part no.	Qty.	Order no.

Part no.	Qty.	Part no.	Qty.	Order no.
				Person in charge (Code no.)
				Section code
				Note) Mounting SUP/EXH block assembly
				When the location is non-standard, indicate both SUP/EXH block assembly part no.
				quantity and manifold part number.

ΖX

ZR

ΖM

ΖH

ZU

ZL

ΖY

ZQ

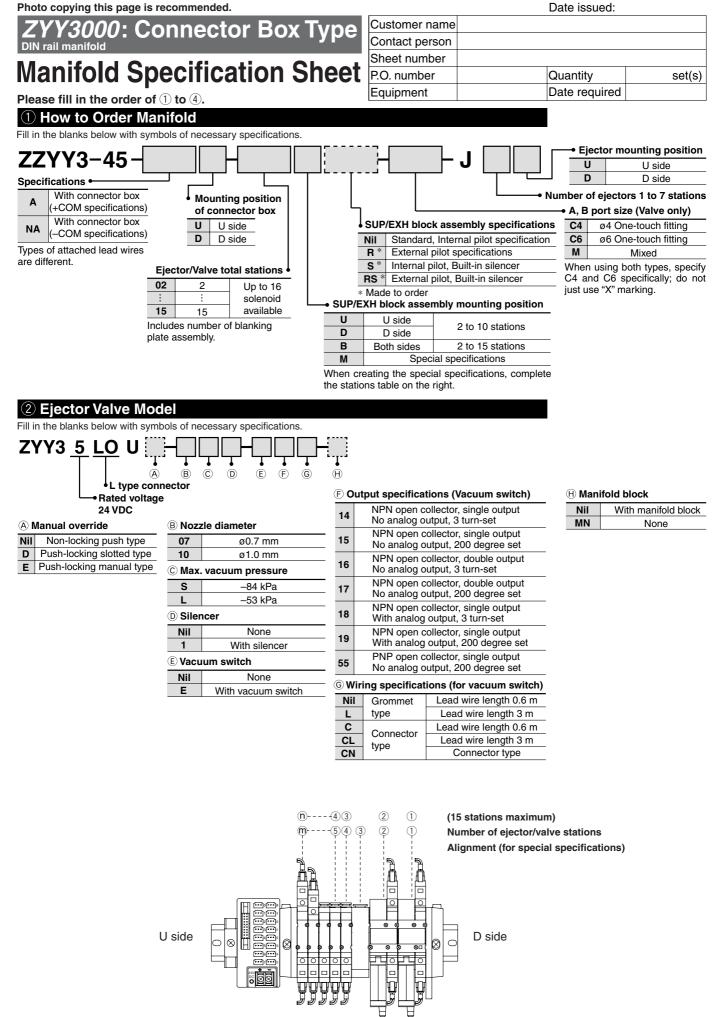
ZF

ZΡ

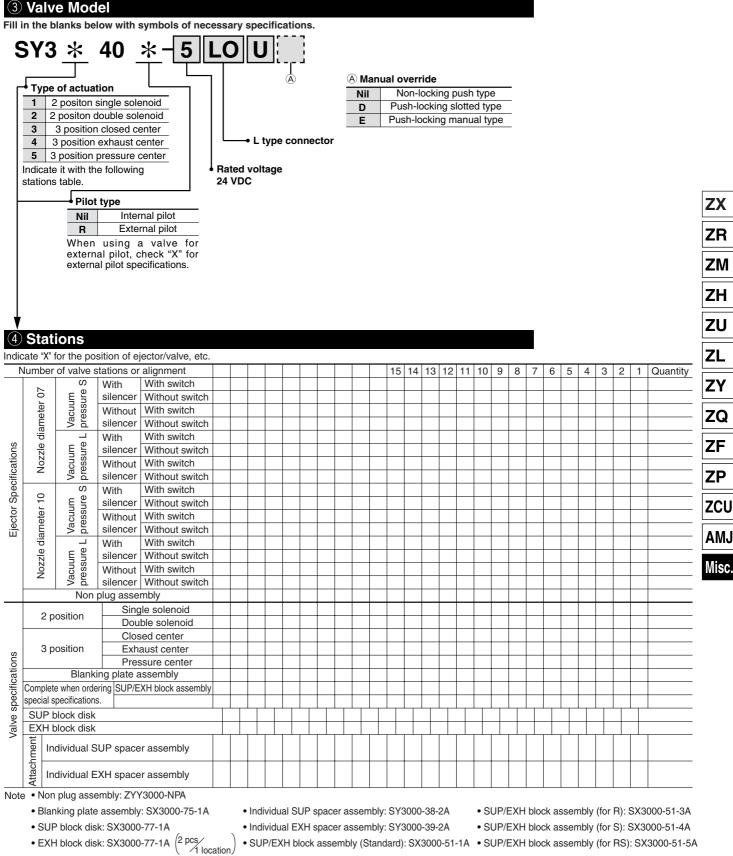
ZCU

AMJ

Misc.



SMC

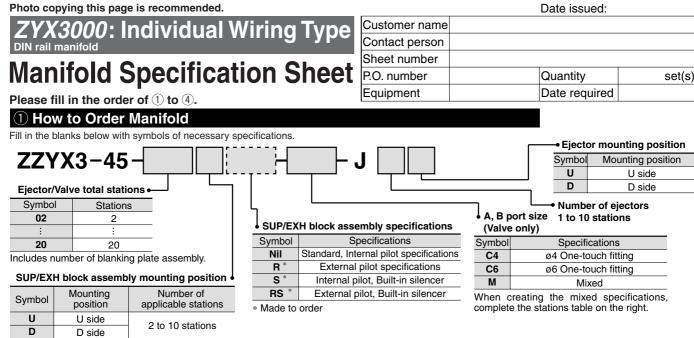


Enter the ordering number in the table

The following columns shall be filled in by SMC.

Part no.	Qty.	Part no.	Qty.	Order no.			
				Person in charge (Code no.)			
				Section code			
				Note) Mounting SUP/EXH block assembly			
				When the location is non-standard, indicate both SUP/EXH block assembly part no.			
				quantity and manifold part number.			





М Special specifications When creating the special specifications, complete

> Č Ď

the stations table on the right.

2 Ejector Valve Model

Both sides

Fill in the blanks below with symbols of necessary specifications. ZYX3 ∎ (H)

Ê)

Ē

Ğ

2 to 20 stations

A Rated voltage

Ã) (B)

в

DC specifications								
5	24 VDC							
6	12 VDC							
V	6 VDC							
S	5 VDC							
R	3 VDC							

B Electrical entry

Grommet (Lead wire length 300 mm)							
Grommet (Lead wire length 600 mm)							
l type	With lead wire						
plug	Without lead wire						
connector	Without connector						
M type	With lead wire						
plug	Without lead wire						
connector	Without connector						

© Light/Surge voltage suppressor

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
z	Without light/surge voltage suppressor

ത	Manual	override
U	Manuai	override

Ū,

Ō

Nil	Non-locking push type

Œ

D Push-locking slotted type

(E) Nozzle diameter

07	ø0.7 mm			
10	ø1.0 mm			
🕞 Max. vacuum pressure				
S	–84 kPa			
L	–53 kPa			

G Silencer

(n) - - - - - - - (4)(3)

-543

 \bigcirc

Nil	None			
1	With silencer			

(H) Vacuum switch

Nil None Е With vacuum switch

2

2

⊗ [

ØD

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R

 Output specifications (Vacuum switch) 				
NPN open collector, single output No analog output, 3 turn-set				
NPN open collector, single output No analog output, 200 degree set				
16 NPN open collector, double output No analog output, 3 turn-set				
NPN open collector, double output No analog output, 200 degree set				
18NPN open collector, single output With analog output, 3 turn-set				
19 NPN open collector, single output With analog output, 200 degree set				
PNP open collector, single output No analog output, 200 degree set				
U Wiring specifications (Vacuum switch)				

Nil	Grommet	Lead wire length 0.6 m
L	type	Lead wire length 3 m
С	Connector type	Lead wire length 0.6 m
CL		Lead wire length 3 m
CN		Connector type
-		

K Plug-in/Non plug-in

Nil	Plug-in type				
F	Non plug-in type				
① Manifold block					
Nil	With manifold block				
MN	None				

(20 stations maximum)

Number of ejector/valve stations

D side

Alignment (for special specifications)





Fill in the blanks below with symbols of necessary specifications.

SX3]
_ ↓ Туре	e of actuation	(A) Rate	d voltage
1	2 positon single solenoid	5	24 VDC
2	2 positon double solenoid	6	12 VDC
3	3 position closed center	V	6 VDC
4	3 position exhaust center	S	5 VDC
5	3 position pressure center	R	3 VDC

Indicate it with the following stations table.

SUP block disk: SX3000-77-1A

Enter the ordering number in the table.

• EXH block disk: SX3000-77-1A (2 pcs/ 1 location

5 VDC 3 VDC R

B Electrical entry					
G	Grommet (Lead wire length 300 mm)				
н	Grommet (Lead wire length 600 mm)				
L	L type	With lead wire			
LN	plug connector	Without lead wire			
LO		Without connector			
М	M type plug connector	With lead wire			
MN		Without lead wire			
МО	connector	Without connector			

SX3*40 is for internal pilot.

SX3*40R is for external pilot.

© Light/Surge voltage suppressor

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
z	Without light/surge voltage suppressor

D Manual override

Nil	Non-locking push type
D	Push-locking slotted type

④ Stations

Indicate ejector/valve, etc for "X". (When port sizes for A, B ports are mixed, indicate C4 or C6 in cell (a.) Number of valve stations or alignment 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 Quantity S With switch With 07 pressure silencer Without switch Vacuum diameter With switch Without silencer Without switch With With switch Ejector Specifications Nozzle pressure silencer Without switch Vacuum Without With switch silencer Without switch S With With switch Nozzle diameter 10 pressure Vacuum silencer Without switch Without With switch silencer Without switch With With switch pressure /acuum Without switch silencer Without With switch silencer Without switch Non plug assembly Single solenoid 2 position Double solenoid Closed center **a** 3 position Exhaust center Valve specifications Pressure center Blanking plate assembly Complete when ordering SUP/EXH block assembly special specifications. SUP block disk EXH block disk Attachment Individual SUP spacer assembly Individual EXH spacer assembly Note • Non plug assembly: ZYY3000-NPA • Blanking plate assembly: SX3000-75-1A Individual SUP spacer assembly: SY3000-38-2A SUP/EXH block assembly (for R): SX3000-51-3A

The following columns shall be filled in by SMC.

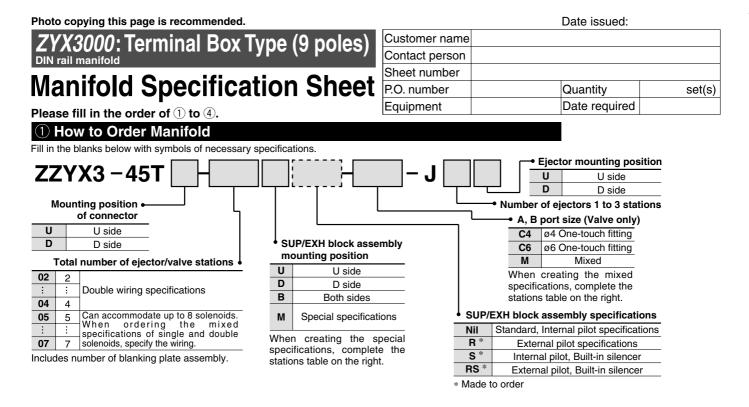
Individual EXH spacer assembly: SY3000-39-2A

Part no.	Qty.	Part no.	Qty.	Order no.		
				Person in charge (Code no.)		
				Section code		
				Note) Mounting SUP/EXH block assembly When the location is non-standard, indicate both SUP/EXH block assembly part no., quantity and manifold part number.		



SUP/EXH block assembly (for S): SX3000-51-4A

SUP/EXH block assembly (Standard): SX3000-51-1A • SUP/EXH block assembly (for RS): SX3000-51-5A



2 Ejector Valve Model

2 Ejector Valve Model						
Fill in the blanks below with symbols of necessary specifications.						
A Rated voltage	Output specificaitons	s (Vacuum switch) J Manifold block				
5 24 VDC	14 NPN open collecto					
6 12 VDC	No analog output,					
Must be the same voltage as that of the manifold.	No analog output,	200 degree set				
B Common specifications	16 NPN open collecto No analog output,					
NilPositive commonNNegative common	17 NPN open collector No analog output,	or, double output				
Must be the same common specification as that of the manifold.		ut, 3 turn-set				
© Manual override	19 NPN open collecto					
Nil Non-locking push type	With analog outpu					
D Push-locking slotted type	55 No analog output,					
D Nozzle diameter	① Wiring specifications	s (Vacuum switch)				
07 ø0.7 mm	Nil Grommet	Lead wire length 0.6 m				
10 ø1.0 mm	L type	Lead wire length 3 m				
(E) Max. vacuum pressure	C Connector	Lead wire length 0.6 m				
S –84 kPa	CL type	Lead wire length 3 m				
L –53 kPa	CN	Connector type				
(F) Silencer	n4	3 2 1 (7 stations maximum)				
Nil None		④ ③ ② ① Number of ejector/valve stations				
1 With silencer		Alignment (for special specifications)				
G Vacuum switch						
Nil None						
E With vacuum switch						
U		D side				
		e) Connector block is not included in the stations and the alignme				

Note) Connector block is not included in the stations and the alignment.



SX3 * 40^R

Type of actuation

Fill in the blanks below	with symbols of	necessary specification
--------------------------	-----------------	-------------------------

A

SX3*40 is for internal pilot. SX3*40R is for external pilot.

LOZ

- 1 2 positon single solenoid 2 2 positon double solenoid 3 3 position closed center
- 4 3 position exhaust center 5 3 position pressure center
- Indicate it with the following
- stations table.

A Rated voltage								
5	24 VDC							
6	12 VDC							
Must be the mar	the same voltage as that of hifold.							

B Common specifications

Nil Positive common Ν Negative common Must be the same common specifications as that of the manifold.

© Manual override

Nil Non-locking push type D Push-locking slotted type

ZX
ZR
ZM
ZH
ZU
ZL
ZY
ZQ
ZF
ZP
ZCU
AMJ
Misc.

Indic	cate e	jecto	or/valve	, etc for '	'X". (When	port siz	es fo	or A	, B p	orts	s are	e mix	œd,	indi	cate	eC4	or (C6 ir	ı cel	l @.)
Number of valve stations or alignment													7	6	5	4	3	2	1	Quantity
	~		S	With	With swi	itch														
	r 0		ur en	silence																
	ete		Vacuum pressure	Withou																
	aŭ			silence																
(0	Ö			With	With swi															
Suo	zle		un sure	silence																
Ejector Specifications	Nozzle diameter 07		Vacuum pressure	Withou	-															
cific			-	silence																
be	0		S	With	With swi															
Š	r 1		Vacuum pressure	silence																
cto	ete		ess	Withou	-															
Еje	Nozzle diameter 10			silence																
	<u>di</u>			With	With swi															
			Vacuum pressure	silence																
	202		ese	Withou																
	💛 స్ ilencer Without switch																			
	Plug-in assembly																			
		2 r	osition		Single solenoid															
		- r	0011011	Do																
	(a)			Clo																
S	a	3 p	osition	Ex	haust cente	aust center														
ion					Pressure center															
cat					assembly															
Valve specifications					EXH block a	ssembly														
spe		•	cifications	3.																
ě			ock disk																	
/alv	<u> </u>	H blo	ock disk																	
>	ment	Individual SUP spacer assembly																		
	Attachment	Indiv	ndividual EXH spacer assembly																	
					Single wir	ing														
	VVIr	ing	specifica	ations	Double wi															
					Enter only	-	spe	cifvi	na th	ne w	irina	J.		·						
							-1901													

Note • Non plug assembly: ZYY3000-NPA

- Blanking plate assembly: SX3000-75-1A
- SUP block disk: SX3000-77-1A

Enter the ordering number in the table.

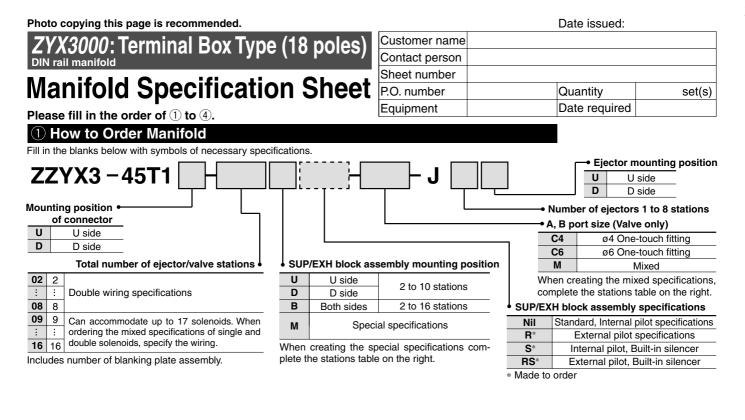
- Individual SUP spacer assembly: SY3000-38-3A
- Individual EXH spacer assembly: SY3000-39-3A
- SUP/EXH block assembly (for R): SX3000-51-6A
- SUP/EXH block assembly (for S): SX3000-51-7A

- EXH block disk: SX3000-77-1A (2 pcs/ 1 location)
 - SUP/EXH block assembly (Standard): SX3000-51-2A SUP/EXH block assembly (for RS): SX3000-51-8A

- The following columns shall be filled in by SMC.

Part no.	Qty.	Part no.	Qty.	Order no.
				Person in charge (Code no.)
				Section code
				Note) Mounting SUP/EXH block assembly
				When the location is non-standard, indicate both SUP/EXH block assembly part no.
				quantity and manifold part number.





Fill in the blanks below with symbols of necessary specifications. ZYX3 LOZ (C) (D) (E) (F) (G) (H) A Rated voltage H Output specificaitons (vacuum switch) **J** Manifold block 24 VDC With manifold block 5 NPN open collector, single output Nil 14 No analog output, 3 turn-set 12 VDC MN 6 None NPN open collector, single output Must be the same voltage as that of 15 No analog output, 200 degree set the manifold NPN open collector, double output B Common specifications 16 No analog output, 3 turn-set Nil Positive common NPN open collector, double output 17 Ν Negative common No analog output, 200 degree set Must be the same common NPN open collector, single output 18 specifications as that of the manifold. With analog output, 3 turn-set © Manual override NPN open collector, single output 19 With analog output, 200 degree set Nil Non-locking push type PNP open collector, single output No analog output, 200 degree set Push-locking slotted type n 55 D Nozzle diameter ① Wiring specifications (Vacuum switch) 07 ø0.7 mm Nil Lead wire length 0.6 m Grommet 10 ø1.0 mm type Lead wire length 3 m L E Max. vacuum pressure С Lead wire length 0.6 m Connector S –84 kPa CL Lead wire length 3 m type Connector type –53 kPa CN L (F) Silencer (n) - - - - - - (4)(3)(2) (1) Nil (16 stations maximum) None With silencer 1 2 1 Number of ejector/valve stations **G** Vacuum switch Alignment (for special specifications) Nil None E With vacuum switch ⊗ <u>addadada</u> U side D side C Ø Ø ⊗⊏ Ð θ θ e 0 \boxtimes

13-14-30

2 Ejector Valve Model



Note) Connector block is not included in the stations and the alignment.

Connector block

Fill in the blanks below with symbols of necessary specifications.

SX3*40 is for internal pilot. SX3*40R is for external pilot.

SX3 * 40^R LOZ Á B Type of actuation A Rated voltage B Common specifications 1 2 positon single solenoid 5 24 VDC Nil Positive common 2 2 positon double solenoid 6 12 VDC Ν Negative common 3 position closed center 3 Must be the same voltage as that of Must be the same common 3 position exhaust center 4 the manifold. specifications as that of the 3 position pressure center manifold. 5 Indicate it with the following stations table.

© Manual override

-

Nil	Non-locking push type
D	Push-locking slotted type

		ations																												
Indio	cate	ejector/valve	e, etc for "X	". (When port siz	es fo	or A	, В р	ports	s are	e mi	xed,	indi	cate	e C4	or C	C6 ii	n ce	ll @	.)											
1	Jumb	per of valve	stations or	alignment										16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
		S	With	With switch																										
	L0	a men	silencer	Without switch																										
		Vacuum pressure S	Without	With switch																										
	Nozzla diamatar	Va pre	silencer	Without switch																										
	Ť	ة L	With	With switch																										
Ejector Specifications		Vacuum pressure L	silencer	Without switch																										
atio		Vacuum	Without	With switch																										
ific		- Va	silencer	Without switch																										
bec		S S	With	With switch																										
Š	1 5	ure ure	silencer	Without switch																										
cto	diamatar 10	Vacuum pressure S	Without	With switch																										
, Tii		Va	silencer	Without switch																										
		L die	With	With switch																										
		Vacuum	silencer	Without switch																										
		Vacuum	Without	With switch																										
	2	- Va	silencer	Without switch																										
		Plug	j-in assem	bly																										
		2 position	Sing	gle solenoid																										
		2 position	Dou	ble solenoid																										
			Clos	sed center																										
6	a	3 position	Exh	aust center																										
Ő			Pre	ssure center																										
cat		Blank	king plate a	assembly																										
cifi				XH block assembly																										
be	spec	ial specificatior	IS.																											
Valve specifications	SUP block disk																													
/alv	EX	H block disk	(
>	E Individual SUP spacer assembly																													
	Attachment	Individual EXH spacer assembly																												
			ationa i	Single wiring																										
		ring specific	auons	Double wiring																										
				Enter only when	sner	cifvi	na tl	ne w	virina	'n																				

Enter only when specifying the wiring.

Note • Non plug assembly: ZYY3000-NPA

- Blanking plate assembly: SX3000-75-A
- SUP block disk: SX3000-77-1A
- EXH block disk: SX3000-77-1A (2 pcs 1 location)
- Individual SUP spacer assembly: SY3000-38-3A

SUP/EXH block assembly (for R): SX3000-51-6A

- Individual EXH spacer assembly: SY3000-39-3A

The following columns shall be filled in by SMC.

• SUP/EXH block assembly (for S): SX3000-51-7A

• SUP/EXH block assembly (Standard): SX3000-51-2A • SUP/EXH block assembly (for RS): SX3000-51-8A

Enter the ordering number in the table.

Part no.	Qty.	Part no.	Qty.	Order no.
				Person in charge (Code no.)
				Section code
				Note) Mounting SUP/EXH block assembly
				When the location is non-standard, indicate both SUP/EXH block assembly part no.,
				quantity and manifold part number.

ZX

ZR

ZM

ZH

ZU

ZL

ΖY

ZQ

ZF

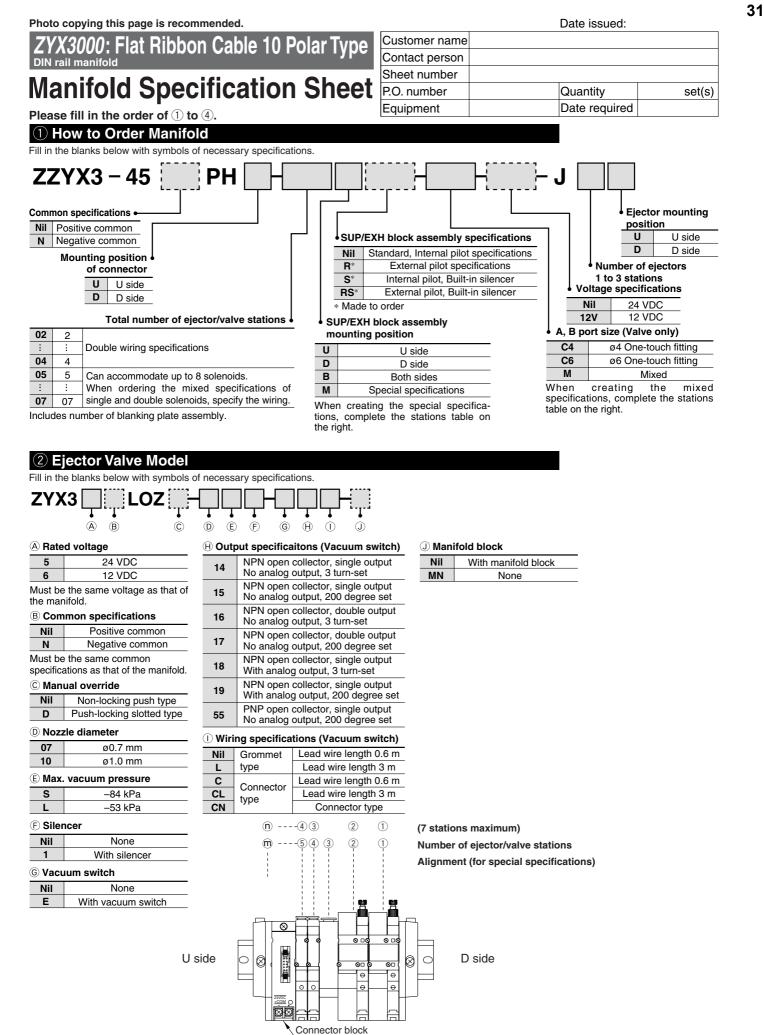
ZΡ

ZCU

AMJ

Misc.





Note) Connector block is not included in the stations and the alignment.



SX3 * 40

1

2

3

4

Fill in the blanks below with symbols of necessary specifications

3 position exhaust center

5 3 position pressure center Indicate it with the following stations table.

SX3*40 is for internal pilot. SX3*40R is for external pilot.

(Å) B Type of actuation A Rated voltage 2 position single solenoid 5 24 VDC 2 position double solenoid 12 VDC 6 3 position closed center Must be the same voltage as that of

LOZ

the manifold.

B Common specifications

	-									
Nil Positive common										
N Negative common										
Must be the same common										
specifications as that of the manifold.										

© Manual override

Nil	Non-locking push type
D	Push-locking slotted type

4 Stations

Ν	lumb	er of	valve s	tations or	alignment						7	6	5	4	3	2	1	Quantity
			S	With	With switch													
	010		Vacuum pressure	silencer	Without switch													
	eter		Vacuum oressure	Without	With switch													
	ame	:	pre	silencer	Without switch													
	Nozzle diameter 07		١	With	With switch													
Suo			Vacuum pressure	silencer														
atic			ICUI	Without	With switch													
E	~	;	pre pre	silencer	Without switch													
be	0		S	With	With switch													
۲ ک	r 10		Vacuum pressure	silencer	Without switch													
Ejector Specifications	Nozzle diameter		ess	Without														
щ	am	:		silencer														
	<u>di</u>		ے ا	With	With switch													
			Vacuum oressure	silencer	Without switch													
	202		ese	Without	With switch													
		:	_	silencer	Without switch													
			Plug-	in assem	,													
		2 pc	osition		gle solenoid													
		- P			ble solenoid													
	(a)				sed center													
ŝ	G	3 po	osition	Exh	aust center													
			<u> </u>		ssure center													
cal				ng plate a														
SCIT					XH block assembly													
spa	•		ifications	6.		L				Ļ								
valve specifications			k disk			_		_	_	_		_	_			_		
Val		l ploc	k disk				$-\bot$			\perp								
	imeni	Indiv	idual S	UP space	er assembly													
	Attachment	Indiv	idual E	XH space	er assembly													
	10/0-	ing c	oecifica	tions	Single wiring													
	vvir	ing s			Double wiring													

32

Note • Non plug assembly: ZYY3000-NPA

- Blanking plate assembly: SX3000-75-2A
- SUP block disk: SX3000-77-1A
- Individual SUP spacer assembly: SY3000-38-3A
- EXH block disk: SX3000-77-1A (2 pcs/ 1 location)
- Individual EXH spacer assembly: SY3000-39-3A

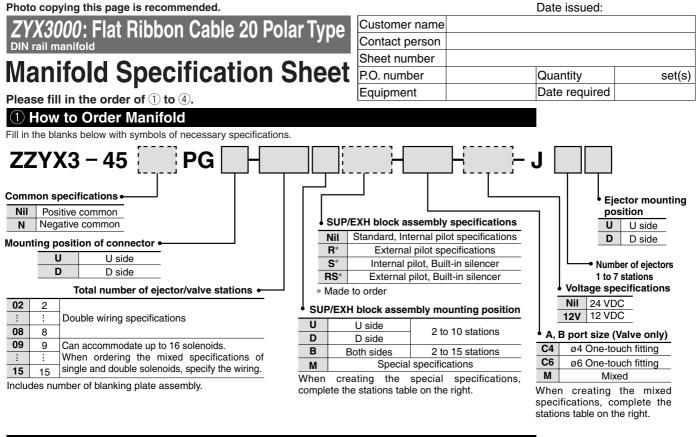
- SUP/EXH block assembly (for R): SX3000-51-6A
- SUP/EXH block assembly (for S): SX3000-51-7A
- SUP/EXH block assembly (Standard): SX3000-51-2A SUP/EXH block assembly (for RS): SX3000-51-8A

- т Enter the ordering number in the table.

he	following	columns	shall	be	filled	in	by SMC.	
----	-----------	---------	-------	----	--------	----	---------	--

Part no.	Qty.	Part no.	Qty.	Order no.
				Person in charge (Code no.)
				Section code
				Note) Mounting SUP/EXH block assembly
				When the location is non-standard, indicate both SUP/EXH block assembly part no.,
				quantity and manifold part number.





33

2 Ejector Valve Model

Fill in the blanks below with symbols	of necess	ary specifica	ations.				
A Rated voltage	(H) Out	put specific	aitons (Vac	uum sw	vitch)	() Man	ifold block
5 24 VDC	14		collector, si		put	Nil	With manifold block
6 12 VDC			output, 3 tu			MN	None
Must be the same voltage as that of the manifold.	15	No analog	collector, si output, 200	degree	set		
Common specifications	16		collector, do output, 3 tu		itput		
Nil Positive common	47	Ű	collector, do		Itput		
N Negative common	17		output, 200	<u> </u>			
Must be the same common specifications as that of the manifold.	18		collector, si og output, 3 t				
© Manual override	19		collector, si				
Nil Non-locking push type			g output, 20	<u> </u>			
D Push-locking slotted type	55		collector, si output, 200				
	() Wir	ing specific	ations (Vac	uum sw	vitch)		
D Nozzle diameter	Nil	Grommet	Lead wire	length 0).6 m		
07 Ø0.7 mm	L	type	Lead wire				
10 ø1.0 mm	С	Connector	Lead wire	<u> </u>			
E Max. vacuum pressure	CL	type	Lead wire				
S –84 kPa	CN		Conne	ctor type	9		
L –53 kPa		(n) -	(4)(3)	(2)	(1)	(15 sta	tions maximum)
(E) Silencer		<u>m</u> -		2	1	•	er of ejector/valve stations
Nil None				ł			nent (for special specifications)
1 With silencer		i				7g	
© Vacuum switch							
Nil None				盟	盟		
E With vacuum switch	ے						
U side				> © □ © > © □ © > 0 □ 0	8 - 8 8 - 8 9 - 8		D side

ØØ

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<u>Connector block</u> Note) Connector block is not included in the stations and the alignment.



1 2 3 4 5	2 2 p 3	of actuat		()) Rate	d vo	Itade)		(B)	Com	mon	speci	ficat	ions			<u>с</u>) м	anu	al ov	errid	е				
2 3 4	2 p 3							DC		_	Nil		-		ommo	n	. 1	Nil			cking		h tvr	e		
3 4	3										N				ommo						king					
	3		closed ce		- lust be				tage			the s	ame					_			0			<u> </u>		
5		position	exhaust c	enter a	s that					spe	ecifica	ations	s as th	at of	the m	anifol	d.									
	3	position	pressure o	center																						
Indic	cate	it with th	e following	g stations tal	ole.																					
																				1						
St	atio	ons																								
ate	eject	tor/valve	, etc for "X	". (When por	t sizes	for A	., B p	orts	are m	nixed	, indic	ate (C4 or (C6 in	cell (D.)										
umt	ber o	of valve s	tations or	allowneat			<u> </u>						4.5	4.4		- i	_		_	_	_	_	1			_
			lutions of	alignment			1				1 1		15	14	13 12	2 11	10	9	8	7 (3 5	4	3	2	1	Qu
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tor		S	With silencer	With switch					_				15	14	13 1	2 11	10	9	8	7 (6 5	4	3	2		Qı
meter		S	With	With switch Without sw	tch								15	14	13 12	2 11	10	9	8	7 (6 5	4	3	2	1	Qu
diameter		Vacuum L pressure S	With silencer Without silencer	With switch Without sw With switch Without sw	tch tch									14	13 1	2 11	10	9	8	7 (6 5	4	3	2	1	Qu
rla diamatar		Vacuum L pressure S	With silencer Without silencer With	With switch Without sw With switch Without sw With switch	tch tch									14	13 1	2 11	10	9	8		<u>6</u> 5	4	3	2	1	
ozzla diamatar		Vacuum L pressure S	With silencer Without silencer With silencer	With switch Without sw With switch Without sw With switch Without sw	tch tch tch											2 11	10	9	8		6 5 	4	3	2	1	Qu
Nozzla diameter		Vacuum L pressure S	With silencer Without silencer With silencer Without	With switch Without sw With switch Without sw With switch Without sw With switch	tch tch tch											2 11	10	9	8		6 5 	4	3	2	1	
Nozzla diamatar		Vacuum Vacuum pressure L pressure S	With silencer Without silencer With silencer Without silencer	With switch Without sw With switch Without sw With switch Without sw With switch Without sw	tch tch tch											2 11	10	9	8		6 5 	4	3	2	1	
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		Vacuum Vacuum S pressure L pressure S	With silencer Without silencer With silencer Without silencer	With switch Without sw With switch Without sw With switch Without sw With switch Without sw With switch Without sw	tch												10	9	8			4	3	2	1	
		Vacuum Vacuum S pressure L pressure S	With silencer Without silencer With silencer With silencer With silencer	With switch Without sw With switch Without sw With switch Without sw With switch Without sw With switch Without sw With switch	tch tch tch tch tch tch													9	8			4	3			
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Nozzla diamatar 10 Nozzla diamatar		L pressure S pressure L pressure S	With silencer Without silencer Without silencer With silencer Without silencer With silencer With	With switch Without sw With switch Without sw	tch tch tch tch tch tch tch tch													9								
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Nozzla diamatar 10		od Vacuum Va	With silencer Without silencer Without silencer With silencer Without silencer Without silencer Without silencer in assemi Sing Dou Clos	With switch Without sw With switch Without sw Dy le solenoid be solenoid ed center	tch tch tch tch tch tch tch tch													9								
		Vacuum Vacuum Vacuum B pressure L pressure S	With silencer Without silencer Without silencer With silencer Without silencer Without silencer in assemi Sing Dou Clos	With switch Without sw With switch Without sw Dy le solenoid ble solenoid ed center aust center	tch tch tch tch tch tch tch tch													9								
Nozzla diamatar 10		vacuum Vacuum Vacuum Vacuum Vacuum Vacuum voities vie S pressure L pressure S pressure S vacuum	With silencer Without silencer With silencer Without silencer Without silencer Without silencer Without silencer Without silencer Mithout silencer Dou Closs Exha Pres	With switch Without sw With switch Without sw Dly le solenoid ble solenoid ble solenoid sole center aust center	tch tch tch tch tch tch tch tch											2 11 		9								
B Nozzla diamater 10		boilties of the service of the servi	With silencer Without silencer in assemin Sing Dou Closs Exha Press King plate	With switch Without sw With switch Without sw Dy le solenoid ble solenoid ed center aust center	tch											2 11 		9								

ΖX

ΕX	H block																						İ		
nment	Individu	ial SUP spa	cer assembly																						•
Attachi	Individu	ial EXH spa	cer assembly																						
۱۸/:	ring onor	ificationa	Single wiring																						Î
001	nng spec	cifications	Double wiring																						
	L		- Enter only when	spec	ifyir	ng t	he	wiri	ng.																Î
e •	Non plug	assembly: Z	YY3000-NPA																						
Blanking plate assembly: SX3000-75-2A Individual										JP s	pac	er a	ssei	mbly	: S`	Y30	00-3	38-3	3A	• (SUF	P/E>	(H I	block	<

Note • Non plug assemb

• SUP/EXH block assembly (for R): SX3000-51-6A

- SUP block disk: SX3000-77-1A

- Individual EXH spacer assembly: SY3000-39-3A
- SUP/EXH block assembly (Standard): SX3000-51-2A SUP/EXH block assembly (for RS): SX3000-51-8A

• SUP/EXH block assembly (for S): SX3000-51-7A

• SUP block disk: SX3000-77-1A (2 pcs/ 1 location)

The following columns shall be filled in by SMC.

Enter the o	rdering number in the table		showing columns shall be in		
	Part no.	Qty	Part no.	Qty	Order no.
					Person in charge (Code no.)
					Section code
					Note) Mounting SUP/EXH block assembly When the location is non-standard, indicate
					both SUP/EXH block assembly part no., quantity and manifold part number.



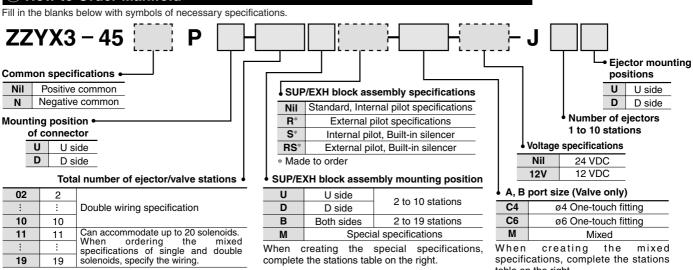


ZYX3000: Flat Ribbon Cable 26 Polar Type DIN rail manifold

Manifold Specification Sheet

Please fill in the order of (1) to (4).

1 How to Order Manifold



Customer name Contact person

Sheet number

P.O. number

Equipment

Includes number of blanking plate assembly.

(2) E	jector Valve Model					
Fill in th	e blanks below with symbols o	of necessary s	specifications.			
ZYX	(3 , LOZ ,					
(A) Rate	ed voltage	(H) Output	specificaiton	s (Vacuum s	witch)	
5	24 VDC	14		collector, sing		-
6	12 VDC	14	<u> </u>	output, 3 turn		_
Must be the mar	e the same voltage as that of hifold.	15	No analog o	collector, sing output, 200 de	egree set	_
	mon specifications	16	NPN open o No analog o	collector, dou output, 3 turn	ble output -set	
Nil	Positive common	17		collector, dou		_
N	Negative common	17		output, 200 de	0	_
	e the same common ations as that of the manifold.	18	NPN open o With analog	collector, sing 9 output, 3 tur	ile output rn-set	
© Man	ual override	19		collector, sing output, 200		
Nil	Non-locking push type			collector, sing	0	-
D	Push-locking slotted type	55		onector, sing output, 200 de		
	zle diameter	① Wiring s	pecifications	•	0	-
07	ø0.7 mm	Nil	Grommet	-	ength 0.6 m	_
10	ø1.0 mm	L	type		length 3 m	-
E Max.	. vacuum pressure	С	Connector	Lead wire le	ength 0.6 m	1
S	–84 kPa	CL	type	Lead wire	length 3 m	_
L	–53 kPa	CN	type	Connec	ctor type	_
(F) Siler	ncer		(n)(4)	(3) (2)	(1)	(10
Nil	None					(19
1	With silencer		m	(4) (3) (2)	Ψ	Nu
© Vacu	um switch					Ali
Nil	None					
Е	With vacuum switch		i			
	U side					0

Connector block

Note) Connector block is not included in the stations and the alignment.

J Manifold block

Nil	With manifold block
MN	None

table on the right.

9 stations maximum) umber of ejector/valve stations lignment (for special specifications)

D side



Date issued:

Quantity

Date required

set(s)

5

SX3 * 40^R



3 position pressure center Indicate it with the following stations table.

SX3*40 is for internal pilot. SX3*40R is for external pilot.

(Å) Ġ Type of actuation A Rated voltage 1 2 position single solenoid 24 VDC 5 2 position double solenoid 2 6 12 VDC 3 3 position closed center Must be the same voltage as that of 3 position exhaust center the manifold. _4

.OZ

B Common specifications

Nil	Positive common										
Ν	Negative common										
Must be	the same common										
specifications as that of the manifold											

© Manual override

Nil	Non-locking push type
D	Push-locking slotted type

4	St	ations																												
			e. etc for '	"X". (When port siz	es fo	or A	.Br	ports	s are	mix	æd.	indi	cate	e C4	or (C6 ir	n cel	(a))											
				or alignment			/ I										13			10	9	8	7	6	5	4	3	2	1	Quantity
-		S	With	With switch																										
	0		silence	r Without switch																										
	Nozzle diameter 07	Vacuum pressure	Withou	t With switch																										
		Va pre	silence	r Without switch																										
	.ë		With	With switch																										
Ejector Specifications	1	Vacuum pressure L	silence																											
atio	5	Inc	Withou	t With switch																										
jį	~	2 d	silence	r Without switch																										
bec		S S	With	With switch																										
S	r 1(une l	silence																											
cto	Nozzle diameter 10	Vacuum pressure	Withou																											
Шe	8	Va pre	silence																											
		Vacuum pressure L	With	With switch																										
	912	Vacuum	silence																											
		sse sse	Withou																											
		≥ rq		r Without switch																										
		Plug	-in asser																											
		2 position		ngle solenoid																										
		2 00011011	Do	ouble solenoid																										
	(a)			osed center																									L	
_	l [@]	3 position		haust center																										
tio				essure center																									L	
Valve specification				assembly																									<u> </u>	
ecif				EXH block assembly																									L	
sb		al specificatior			L			L						L	L			_			_	_			_		_	Ļ	Ļ	
Ke		P block disk																											_	
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	Attachment	Individual S	SUP space	cer assembly																										
	Attac	Individual E	EXH spac	cer assembly																										
	Wi	ring specific	ations	Single wiring																									<u> </u>	
				Double wiring																									Ĺ	
		L		Enter only when	spe	cifyiı	ng tl	ne w	viring] .																				

Note • Non plug assembly: ZYY3000-NPA

- Blanking plate assembly: SX3000-75-2A
- SUP block disk: SX3000-77-1A • EXH block disk: SX3000-77-1A
 - 2 pcs 1 location
- Individual EXH spacer assembly: SY3000-39-3A

• SUP/EXH block assembly (for R): SX3000-51-6A

• SUP/EXH block assembly (for S): SX3000-51-7A

• SUP/EXH block assembly (Standard): SX3000-51-2A • SUP/EXH block assembly (for RS): SX3000-51-8A

Enter the ordering numb

	т	bo fo	ollowing columns shall be filled in	by SMC	
umber in the table.		ne ic	nowing columns shall be filled in	by Sivic	
Part no.	Qty.		Part no.	Qty.	Order no.
					Person in charge (Code no.)

Section code Note) Mounting SUP/EXH block assembly When the location is non-standard, indicate both SUP/EXH block assembly part no., quantity and manifold part number.

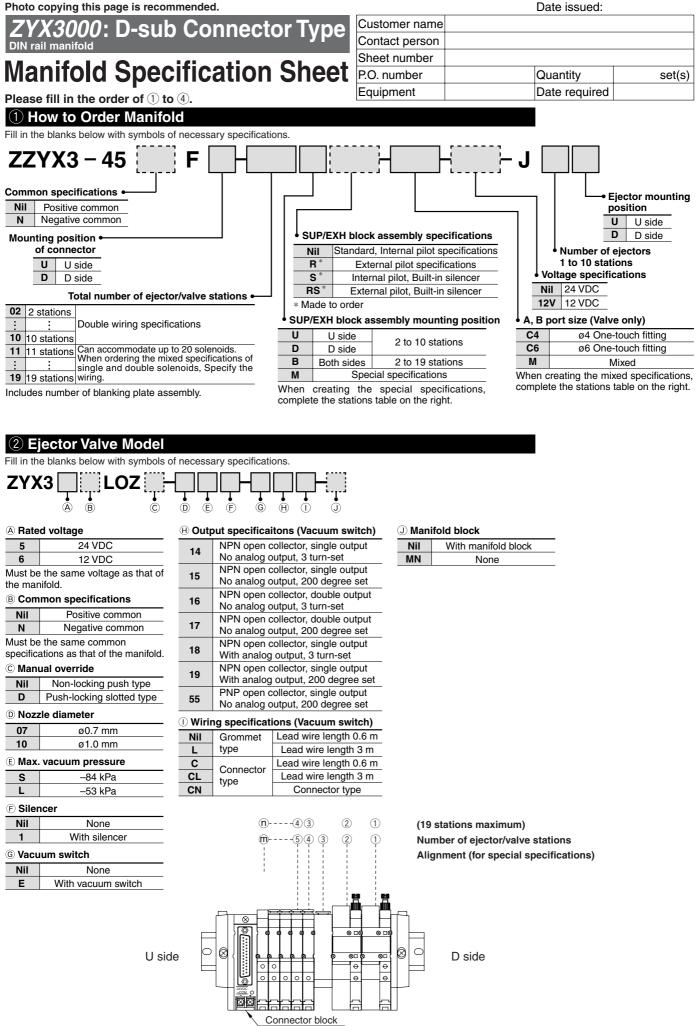
• Individual SUP spacer assembly: SY3000-38-3A



	ZM
	ZH
	ZU
_	ZL
_	ZY
_	ZQ
_	ZF
_	ZP
-	ZCU
_	AMJ
_	Misc.

ZX

ZR



Note) Connector block is not included in the stations and the alignment.



Date issued:

SX3 * 40^R

Fill in the blanks belov	with symbols of	necessary specifications.
--------------------------	-----------------	---------------------------

SX3*40 is for internal pilot. SX3*40R is for external pilot.

B Type of actuation 1 2 position single solenoid

•	
2	2 position double solenoid
3	3 position closed center
4	3 position exhaust center

- 5 3 position pressure center
- Indicate it with the following stations table.

A Rated voltage 24 VDC 5 6

LOZ

12 VDC Must be the same voltage as that of the manifold.

B Common specifications

Nil Positive common									
Ν	Negative common								
Must be	the same common								
specifications as that of the manifold									

© Manual override

Nil	Non-locking push type
D	Push-locking slotted type

Misc.

4	Sta	ations																												
Indi	cate e	ejector/valve	, etc for "	X". (When port siz	zes f	or A	, B p	port	s are	mi	xed,	indi	cate	e C4	or (C6 ir	n ce	II (a)	.)											
1	lumb	er of valve s	stations o	or alignment							19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantit
		S	With	With switch																										
		E P	silencer	Without switch																										
	ete	Vacuum pressure S	Without	With switch																										
	am l	Va	silencer	Without switch																										
	ij		With	With switch																										
Ejector Specifications	Nozzle diameter 07	Vacuum pressure L	silencer	Without switch																										
ati		no	Without	With switch																										
jjj		ੋ ਹੋ	silencer																											
bec		S	With	With switch																										
S	r 10	Vacuum pressure	silencer																											
cto	ete	SSS	Without	With switch																										
щ	l ü	Va	silencer	Without switch																										
	Nozzle diameter 10		With	With switch																										
		Vacuum pressure L	silencer																											
		ssa	Without																											
		ਨ ਕ	silencer																											
		Plug	-in assen	nbly																										
		2 position	Sin	gle solenoid																										
		2 position	Do	uble solenoid																										
	(a)		Clo	sed center																										
S	a	3 position	Ext	naust center																										
io				essure center																										
cat				assembly																										
cifi				EXH block assembly																										
spe		al specification																											Ĺ	
ě		P block disk																												
Valve specifications		H blockdisk																												
-	Attachment	Individual S	SUP spac	er assembly																										
	Attach	Individual E	EXH spac	er assembly																										
	10/10	ing specifica	ations	Single wiring																										
	VVII			Double wiring																										
	-					•	•	•			•	-				-	•				-		•				-			

Enter only when specifying the wiring.

Note • Non plug assembly: ZYY3000-NPA

- Blanking plate assembly: SX3000-75-2A
- SUP block disk: SX3000-77-1A
- (2 pcs/ 1 location) • EXH block disk: SX3000-77-1A
- Individual SUP spacer assembly: SY3000-38-3A • Individual EXH spacer assembly: SY3000-39-3A

• SUP/EXH block assembly (for R): SX3000-51-6A

• SUP/EXH block assembly (for S): SX3000-51-7A

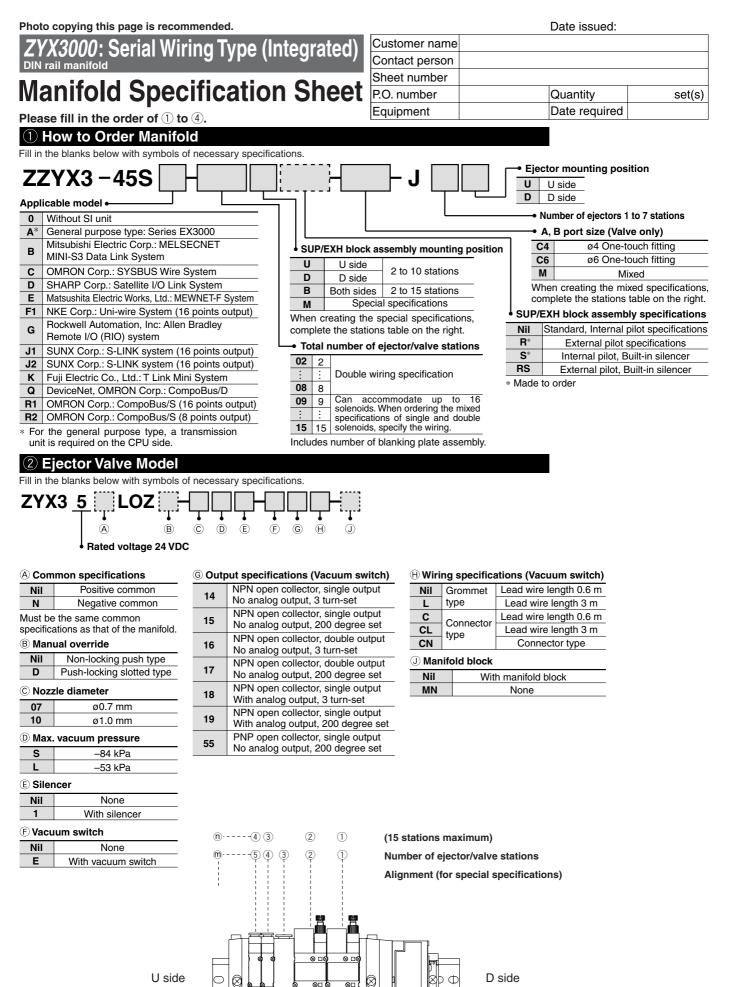
• SUP/EXH block assembly (Standard): SX3000-51-2A • SUP/EXH block assembly (for RS): SX3000-51-8A

Enter the ordering number in the table.

The following columns	shall be filled i	n by SMC.

Part no. Qty Part no. Qty Order no. Person in charge (Code no.) Section code Note) Mounting SUP/EXH block assembly When the location is non-standard, indicate both SUP/EXH block assembly part no., quantity and manifold part number.





13-14-40



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	-	of actuat		Rated		age		<u> </u>									_																
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2		position of							D	P	ush	-locl	king	slot	ed t	ype	_																
3	_	3 position																															
4		3 position																															
5	3	position p	oressure	center																													
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		ons	etc for "X	". (When port siz	es for	r A,	Вр	port	sare	e mi	xed	, ind	licat	e C4	or (C6 ii	n ce	∥@	.)														
√um	ber	of valve s	tations or	alignment											15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quar			
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		S	silencer With	Without switch With switch																													
		S	silencer With silencer	Without switch With switch Without switch																													
		S	silencer With silencer Without	Without switch With switch Without switch With switch																													
		Vacuum pressure S	silencer With silencer Without silencer	Without switch With switch Without switch With switch Without switch																													
		Vacuum L pressure S	silencer With silencer Without silencer With	Without switch With switch Without switch With switch Without switch With switch																													
		Vacuum L pressure S	silencer With silencer Without silencer With silencer	Without switch With switch Without switch Without switch Without switch Without switch																													
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(a) Com	Nozzle diameter 10 3 applete	S S S S S S S S S S S S S S S S S S S	silencer With silencer Without silencer Without silencer in assem Sing Dou Clos Exh Pres king plate	Without switch With switch Without switch Without switch Without switch Without switch Without switch Without switch bly gle solenoid ble solenoid ble solenoid sed center aust center assembly																													
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- SUP block disk: SX3000-77-1A

- EXH block disk: SX3000-77-1A $\begin{pmatrix} 2 \text{ pcs} \\ 1 \text{ location} \end{pmatrix}$ SUP/EXH block assembly (Standard): SX3000-51-2A SUP/EXH block assembly (for RS): SX3000-51-8A
- Individual EXH spacer assembly: SY3000-39-3A
 SUP/EXH block assembly (for S): SX3000-51-7A

Enter the ordering number in the table.

The following columns shall be filled in by SMC.

Part no.	Qty.	Part no.	Qty.	Order no.
				Person in charge (Code no.)
				Section code
				Note) Mounting SUP/EXH block assembly
				When the location is non-standard, indicate both SUP/EXH block assembly part no.
				quantity and manifold part number.



ΖX

ZR

ΖM

ΖH

ΖU

ZL

ΖY

ZQ

ZF

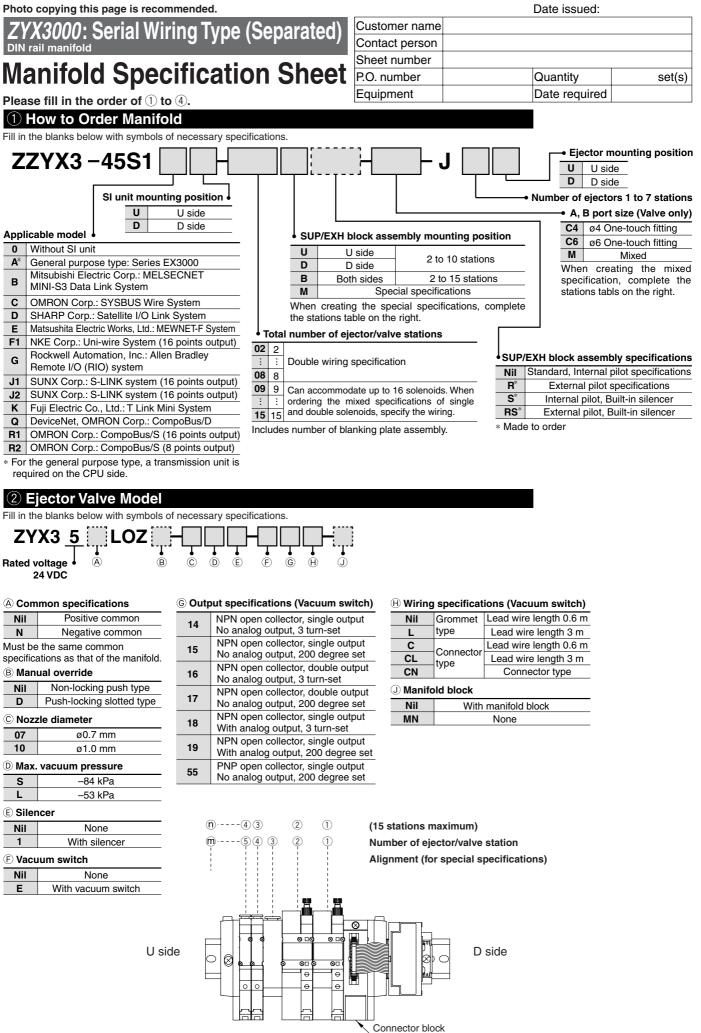
ZΡ

ZCU

AMJ

Misc.





Note) Connector block is not included in the stations and the alignment.

41

SMC

S		3 × 4		- <u>5</u> LOZ	(A		<u>а</u> м	loni			rrid																		
-	1 2	2 position a 2 position of 2	single sol double sol	lenoid		ige		Ni D	il	١	lon	-locł	king		h ty ted t		_													
-	3 4	3 position 3 position																												
	5	3 position																												
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	umbe	or or varve s	With	With switch				+	_						15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quan
	07	Vacuum pressure S		Without switch				+									-										-	-	-	
	eter	SSSL		With switch																									<u> </u>	
	ame	Va	silencer	Without switch																										
	edi	ب و ے	With	With switch				\rightarrow	_								<u> </u>										<u> </u>	_	<u> </u>	
	Nozzle diameter 07	Vacuum pressure		Without switch				_																			-	_	<u> </u>	
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-		S	With	With switch				+																				-	-	
	5	Vacuum pressure		Without switch																									<u> </u>	
	etei	essi		With switch																										
ř	Nozzle diameter 10			Without switch				_																				_	<u> </u>	
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	Ż	Vacuum pressure		Without switch																										
			in assem	bly																										
		2 position		gle solenoid																								\vdash	L_	
	-	-		ble solenoid				_	_																			_		
	a	3 position		sed center aust center				+	_				-				-	-									-	-	-	
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			ng plate a																											
		ete when orde I specifications		XH block assembly				_	_																			<u> </u>	<u> </u>	
		block disk	j.			+	$- \bot$	┯┸												_							\square	⊢	╘	
-		l block disk			-	-	+	+		+	+	-	+			-			+			+		-	+		+	+		
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	Attachment	ndividual E	XH space	er assembly																										
H		ng specifica	ations —	Single wiring Double wiring	-	1	+							-												-		<u> </u>	<u> </u>	
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te		anking plate	accomble	/: SX3000-75-A																										

Enter the ordering number in the table.

The following columns shall be filled in by SMC.

Part no.	Qty.	Part no.	Qty.	Order no.
				Person in charge (Code no.)
				Section code
				Note) Mounting SUP/EXH block assembly
				When the location is non-standard, indicate both SUP/EXH block assembly part no.,
				quantity and manifold part number.



ΖX

ZR

ΖM

ΖH

ΖU

ZL

ΖY

ZQ

ZF

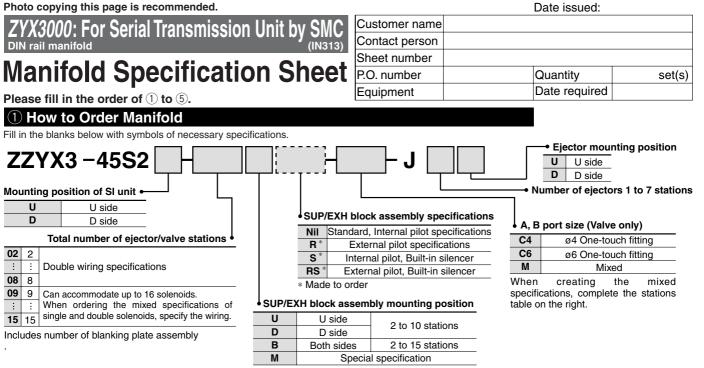
ZΡ

ZCU

AMJ

Misc.

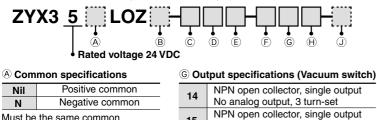




When creating the special specifications, complete the stations table on the right.

2 Ejector Valve Model

Fill in the blanks below with symbols of necessary specifications



14	Nogativo common								
Must be the same common specifications as that of the manifold.									
B Manual override									
Nil Non-locking push type									
D	Push-locking slotted type								
© Nozzle diameter									
07 ø0.7 mm									
10	10 ø1.0 mm								
D Max. vacuum pressure									
S	–84 kPa								
L –53 kPa									

	16	NPN open collect No analog output
push type	17	NPN open collect
slotted type	17	No analog output
	40	NPN open collect
	18	With analog outp
mm	4.0	NPN open collect
mm	19	With analog outp
sure		PNP open collect
Pa	55	No analog output
Га		
(Pa		

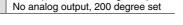
15

No analog

i collector, single output	С	~	
output, 200 degree set	CL		onne
output, 3 turn-set	CN	ty	pe
collector, double output	() Mai	nifo	old b
output, 200 degree set	Nil		

ctor, single output out, 3 turn-set

ctor, single output out, 200 degree set tor, single output



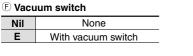
H Wiring specifications (Vacuum switch)

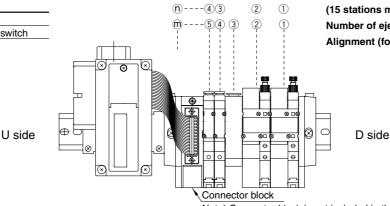
Nil	Grommet	Lead wire length 0.6 m					
L	type	Lead wire length 3 m					
С	C onnector	Lead wire length 0.6 m					
CL	type	Lead wire length 3 m					
CN	type	Connector type					

lock

Jinarin	
Nil	With manifold block
MN	None

E Silencer None With silencer





(15 stations maximum) Number of ejector/valve stations Alignment (for special specifications)

Note) Connector block is not included in the stations and the alignment.

Nil



	2 3 4 5 Indic	2 position 3 positio 3 position 3 position	n closed c i exhaust o pressure	lenoid center		Itag			Nil D		lon-		ing p	oush lotte			-														
				-																											ZX
		ations																_													ZR
				K". (When port siz	zes f	or A	<u>, Вр</u>	orts	s are	e mix	ked,	indi	cate								-	-		-	_		_				
	vumb		-	r alignment With switch		-				-			-+		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity	ZM
	07	Le S	With silencer		+	-							\rightarrow	+	+	_												\vdash	└──┘		
	Nozzle diameter 07	Vacuum pressure	Without		-				-					+	-													\vdash			ZH
	me	Vac	silencer		1									+	+													\vdash			
	dia		With	With switch										+																	711
Ejector Specifications	4		silencer	Without switch																											ZU
	207	Vacuum pressure L	Without	With switch																											
	2	Va	silencer	Without switch																											ZL
		S	With	With switch																											
	r 1(m m	silencer	Without switch																											ZY
	ete	Vacuum pressure S	Without																												
Ξ	diameter 10	p S	silencer	Without switch																											ZQ
	- - - - - -		With	With switch																											
	Nozzle	sur		Without switch											_																ZF
	N N	Vacuum pressure	Without												_														\vdash		. [
				Without switch											_																ZP
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		2 position		gle solenoid					-						_													$\left \right $	\vdash		701
			-	uble solenoid sed center	-	-									-													$\left \right $			ZCU
	a	3 position	-	aust center	-										-																
suc		5 205100		ssure center	+	-			-					+	+													$\left \right $			· AM
atio		Bla		e assembly	1	-						-		+	-													$\left \right $			
specifications	Comr			EXH block assembly	1									+														$\left \right $			Misc
Sec		al specification							-																						-
e st		> block disk			<u>'</u>	Τ		Т	_	'⊤	Τ	<u>۱</u>	T	T	T	Τ		Т						Т	T	Т	Τ	'	Τ		-
Valve		H block disk				+		+		+	+	+	+	+		1			+	+	+		+	+		+	+	+	+		-
Š			dividual SUP spacer assembly																												-
	Attachment	Individual EXH spacer assembly																													-
	Ă		· · ·		-	-								-+	_													$\left - \right $	<u> </u>		-
	Wir	ng specific	ations —	Single wiring	-	-	+		-	-		-			_													\vdash			-
				Double wiring Enter only when																										ł	-

5 Compliant SI Unit

IN313-

Compliant manufact	urer
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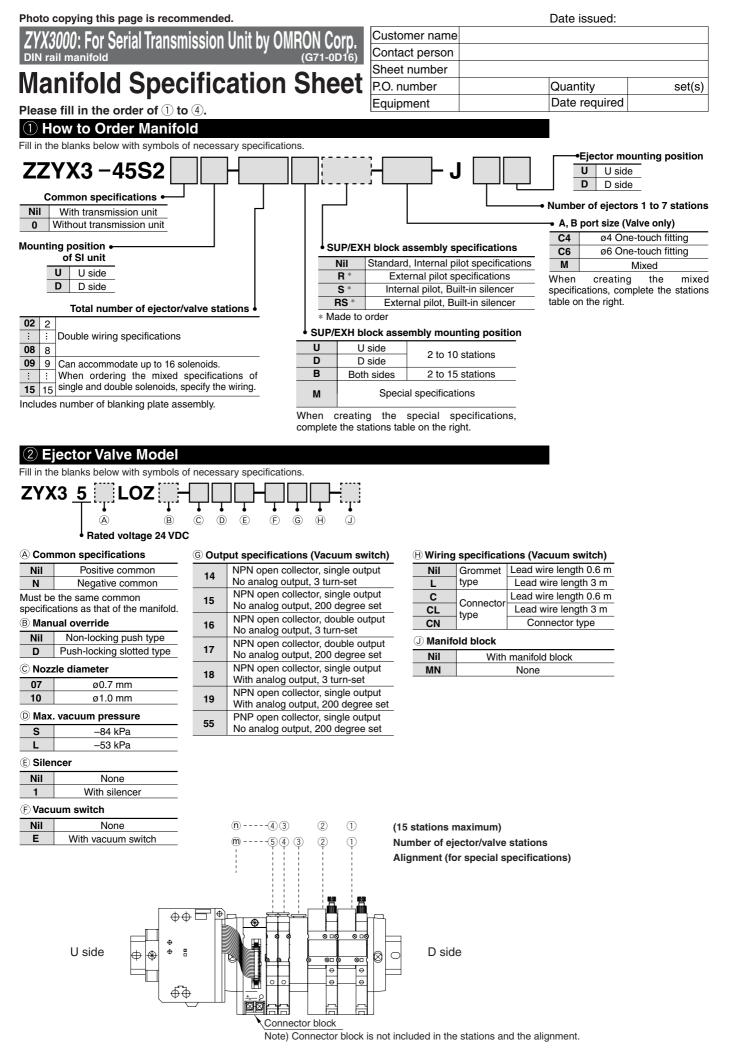
MB1 Toyoda Machine Works, Ltd. Mitsubishi Electric Corporation TY2 rs PA1 TA1 **OMRON** Corporation Matsushita Electric Works, Ltd. FU1 Fuji Electric Co., Ltd. HT1 Hitachi, Ltd. Rockwell Automation, Inc. (Allan Bradley) SH1 SHARP Corporation Toyoda Machine Works, Ltd. AB1 TY1 TS1 **Toshiba Corporation**

- The following columns shall be filled in by SMC. -

Ente	er the ordering number in the table.	1	ne ic	blowing columns shall be filled in	by Sivic	
	Part no.	Qty.		Part no.	Qty.	Order no.
						Person in charge (Code no.)
						Section code
						Note) Mounting SUP/EXH block assembly
						When the location is non-standard, indicate both SUP/EXH block assembly part no.,
						quantity and manifold part number.









The following columns shall be filled in by SMC.

Enter the ordering number in the table

Part no.	Qty.	Part no.	Qty.	Order no.
				Person in charge (Code no.)
				Section code
				Note) Mounting SUP/EXH block assembly
				When the location is non-standard, indicate both SUP/EXH block assembly part no.,
				quantity and manifold part number.

ZX

ZR

ZM

ZH

ZU

ZL

ΖY

ZQ

ZF

ZP

ZCU

AMJ

Misc.

SMC