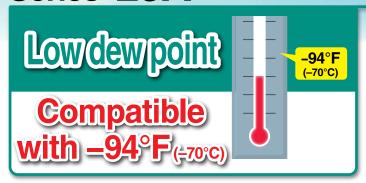
Series Compatible with Secondary Batteries



Compatible with various usage environments in each manufacturing process



Series 25A-



- Service life and performance have been improved at a low dew point.
- Using grease compatible with a low dew

(Refer to page 10 for part numbers of the maintenance grease pack.)

Material





Surface Treatment

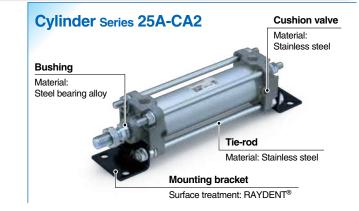
 Electrolytic nickel plating with a copper layer (Electroless nickel plating is used)

Zinc plating

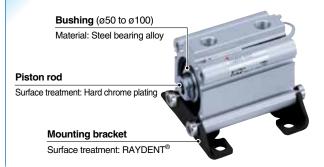
Not Used



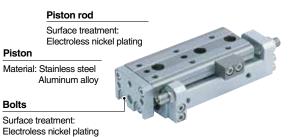
- *1 Coils for solenoid valves, connector pins, and lead wires are made of copper.
- *2 Manifold terminal block, wiring parts, connector metal parts and printed circuit board are made of copper.



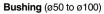
Cylinder Series 25A-CQ2



Cylinder Series 25A-MXQ



Cylinder Series 25A-MGPM



Material: Steel bearing alloy

Piston rod

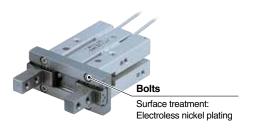
Surface treatment: Hard chrome plating

Plate

Surface treatment: Electroless nickel plating

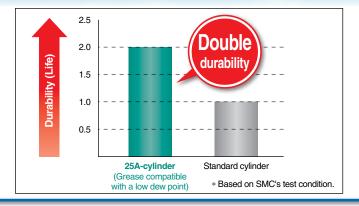


Air Gripper Series 25A-MHZ

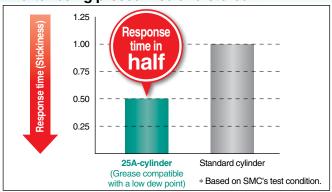


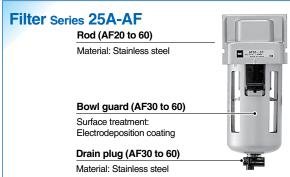


Durability comparison (Air cylinder)



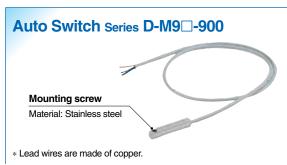
Comparison of cylinder response times after being pressurized and stored





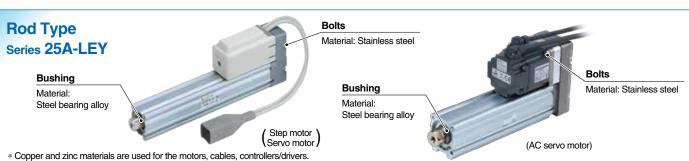




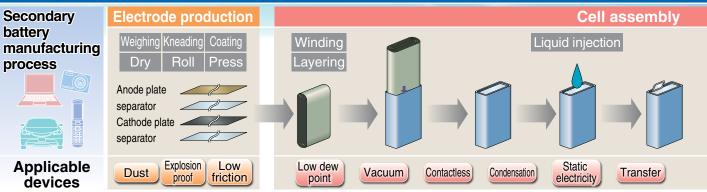






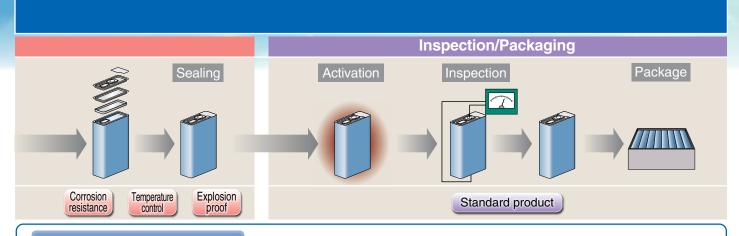


Secondary Battery Manufacturing Process and Applicable Products





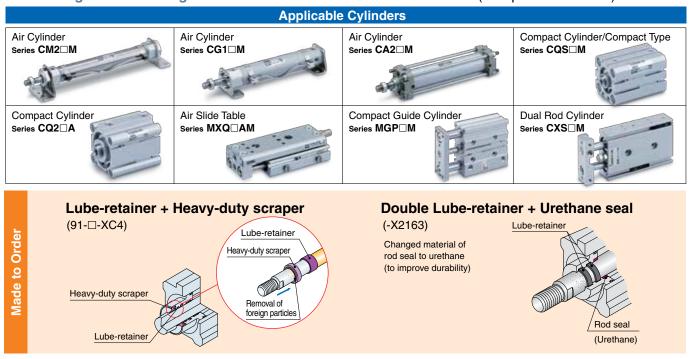




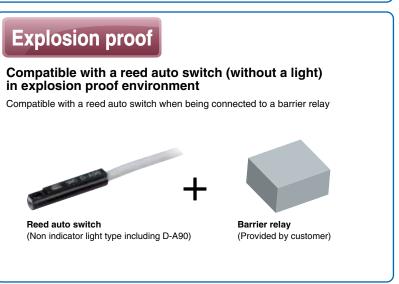
Measures against dust Standard Products

Cylinder with Stable Lubrication Function (Lube-retainer)

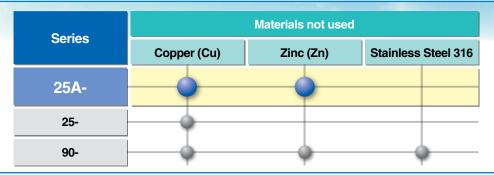
Service life has been further improved with a Lube-retainer in micro-powder (10 to 100 µm) environments. Overall length and mounting are the same as those of the standard model. (Except for some sizes)







Series Variations Compatible with Secondary Batteries



Series 25A- Applicable Products

	Series 25A- 25					
	Description	Model (Type)	Page no.		90-	
	5 Port	25A-SY5000 (Plug-in connector connecting base)	P.13	-	-	
	Solenoid Valve	25A-SY5000, 7000	P.34	•	-	
		25A-VQ2000, 4000 (W)	P.41	-	-	
		25A-SQ2000	P.54	-	-	
		25A-VQZ1000	P.59	-	-	
Directional Control Valves	Separate Type	25A-VQ1000 (Double check block)	P.63	-		
) IC	Double Check Block	25A-VQ2000 (Double check block)	P.63	•		
ontro	3 Port	25A-VP342, 542, 742 (Body ported)	P.64	-	•	
a C	Solenoid Valve	25A-VP344, 544, 744 (Base mounted)	P.65	-		
ctior	R 20	VP500/700 (Safety standards ISO13849-1)	*2	-	-	
Dire		25A-VT317	P.66	-	•	
	3	25A-VG342	P.67	-		
	5 Port Air Operated Valve	25A-SYA5000, 7000	P.68	-	-	
	Finger Valve	25A-VHK2, 3	P.69	-	•	
	Air Cylinder	25A-CJ2-Z (Standard)	P.71	-	-	
		25A-CJ2 (Standard)	P.72	•	•	
		25A-CM2 (Standard)	P.73	•	-	
Air Cylinders		CBM2 (With end lock)	*2	-	-	
		25A-CG1 (Standard)	P.74	•	•	
	de la	CBG1 (With end lock)	*2	-	-	
	New	25A-MB-Z (Standard)	P.75	-	_	
	5 -	25A-MB (Standard)	P.76	•	_	
		MBB (With end lock)	*2	-	_	
	2 Consult with your SMC sales representative	GOID				

		Series 25A-		25-	90-
Description		Model (Type)	Page no.		
	Air Cylinder	25A-CA2-Z (Standard)	P.77	-	•
		25A-CS2 (Standard)	P.78	-	_
	Free Mount Cylinder	25A-CU (Standard)	P.79	-	
	402	25A-CUK (Non-rotating rod)	P.80	-	-
	Compact Cylinder	25A-CQS (Standard)	P.81	•	
	60	25A-CQS□S (Anti-lateral load)	P.82	_	
	13	25A-CQ2-Z (Standard)	P.83		
		25A-CQ2-Z (Large bore size)	P.84	-	-
	(a)	25A-CQ2-Z (Long stroke)	P.85	-	-
		25A-CQ2□S-Z (Anti-lateral load)	P.86	-	-
		CBQ2 (With end lock)	*2	-	-
	Mechanically Jointed Rodless Cylinder	25A-MY1B (Basic)	P.87	-	•
		25A-MY1H (Linear guide)	P.88	-	
		25A-MY2H (Linear guide)	P.89	-	
	Magnetically Coupled Rodless Cylinder	25A-CY3B (Basic)	P.90	-	-
		25A-CY3R (G) (Direct mount)	P.91	-	-
ers	Air Slide Table	25A-MXS (Cross roller guide)	P.92	-	
Air Cylinders		25A-MXQ (Recirculating linear guide)	P.93	•	•
r. O		25A-MXW (Recirculating linear guide)	P.94	-	_
₹	Compact Guide Cylinder New New	25A-MGPM-Z (Slide bearing)	P.95	-	_
		25A-MGPL-Z (Ball bushing bearing)	P.95		_
		25A-MGPM (Slide bearing)	P.96	•	•
		25A-MGPL (Ball bushing bearing)	P.96	•	
	Slide Unit	25A-CXWM (Slide bearing)	P.97	_	_
	Dual Rod Cylinder	25A-CXSM (Slide bearing)	P.98	•	-
		25A-CXSL (Ball bushing bearing)	P.98		_
	Guide Cylinder	25A-MGGL (Ball bushing bearing)	P.99	-	•
	Cylinder with Lock	CNG□N	*2	•	-
	4	CNA2□N	*2	•	-
	Compact Cylinder with Lock	CLQ	*2	•	-
	Stopper Cylinder	RSQ	*2	•	•
	Heavy Duty Stopper	RSH	*2	•	
	Cylinder	RS2H	*2	•	_
*2 Const	ult with your SMC sales representative.	CIMO			_

Paradialism		Series 25A-		25-	90-
	Description	Model (Type)	Page no.		
	Shock Absorber	25A-RB (Standard)	P.100	•	•
		25A-RBC (Standard)	P.100		
(O		25A-RJ (Soft type)	P.101	-	_
Related Products		25A-RJ (Short stroke type)	P.102	-	_
	Floating Joint	25A-JA (Standard/80, 100 only)	P.103	_	
ated		25A-JB (For compact cylinder)	P.103	_	
Reli		25A-JS (Stainless steel)	P.103	_	
	Simple Joint for CQ2	YA (Type A mounting bracket)	*1	_	_
	IOI CQ2	YB (Type B mounting bracket)	*1		
		YU (Joint)	*1		
y ors	Rotary Table	25A-MSUB (Vane style)	P.104	-	-
Rotary Actuators		25A-MSQ (Rack & Pinion)	P.105	-	
		25A-MSQ (Rack & Pinion/With vacuum port)	P.105	-	_
	Parallel Type Air Gripper	25A-MHZ2 (Standard)	P.107		-
		25A-MHZL2 (Long stroke)	P.108	_	-
		25A-MHZJ2 (With dust cover)	P.109	-	
Air Grippers		25A-MHZL2 (Long stroke/With dust cover)	P.109	-	_
Grip		25A-MHF2 (Low profile type)	P.110	•	_
Ąi		25A-MHL2 (Wide type)	P.111		
		25A-MHS□ (3-finger, 4-finger)	P.112	_	
		25A-MHSJ3 (3-finger/With dust cover)	P.113	_	_
		25A-MHY2 (180°Angular style)	P.114	_	
	Vacuum Ejector	25A-ZK2 (Vacuum unit) Single unit only	P.115	-	_
Vacuum Equipment		25A-ZQ (Ejector unit) Single unit/Manifold	P.119	_	
		25A-ZQ (Vacuum pump unit) Single unit/Manifold	P.123	-	
		ZH (Body ported)	*1	-	_
	In-line Air Filter	ZFC (With One-touch fittings)	*1	-	-
	Air Suction Filter	ZFC (With One-touch fittings/In-line type)	*1	-	-

^{*1} Standard products: Standard products are copper (Cu) and zinc (Zn) free. Refer to **the WEB catalog** or the Best Pneumatics for details.



		Series 25A-		25-	90-
Description		Model (Type)	Page no.	L	
	Vacuum Pad	ZP□	*2	-	•
ent		ZP (Pad only)	*1	-	
=quipme	Non-contact Gripper	XT661	*2	-	-
Vacuum Equipment	Adsorption Plate	SP	*1	-	-
	Vacuum Regulator	IRV (Standard)	*2	-	-
tion	Membrane Air Dryer	25A-IDG	P.127	-	•
Air Preparation Equipment	Air Preparation Filter	25A-AFF (Main line filter)	P.129	_	
Pre Equi	<u> </u>	25A-AM (Mist separator)	P.130		
Ą		25A-AMD (Micro mist separator)	P.131		
		25A-AMH (Micro mist separator with pre-filter)	P.132		
.⊑	Clean Air Filter	SFD100	*1	-	_
Clean Air Filters		SFD200	*1	-	
Cles		25A-AMP (Exhaust cleaner for clean rooms)	P.133	-	
	New	SFE (Exhaust cleaner for clean rooms)	*1	_	
	Air Filter Separator	25A-AF	P.134	•	
		25A-AFM (Mist separator)	P.135	-	
ŧ		25A-AFD (Micro mist separator)	P.135	-	
ıme	Regulator	25A-AR	P.136	•	_
quip		25A-AR□□K (With backflow function)	P.136	•	
힏		25A-AW	P.137	_	
Air Filters/Pressure Control Equipment		25A-AW□□K (With backflow function)	P.137	-	
		25A-IR (Precision regulator)	P.138	-	
		25A-ITV (Electro-pneumatic regulator)	P.139	-	
		CB-97XH (Residual pressure indicator)	*1		_
	Booster Regulator	25A-VBA	P.140		_
		25A-VBAT (Air tank)	P.141		
	Pressure Gauge	G46-X2 (Threaded portion: Electroless nickel plating)	*4	-	
	- Issuer stangs	G46-X3 (Bourdon tube: Stainless steel) (With limit indicator)	*3	-	
	lard products: Standard products are copper (Cu) and zinc (Zi	G43-10-01-X300 (Stud, Bourdon tube, Internal parts: Stainless steel 304)	*1	-	_

- *1 Standard products: Standard products are copper (Cu) and zinc (Zn) free. Refer to the WEB catalog or the Best Pneumatics for details.
- *2 Consult with your SMC sales representative.
- *3 Wetted parts are copper (Cu) and zinc (Zn) free. Copper and zinc are used for parts other than wetted parts.
- *4 Copper (Cu) is not exposed outside. Copper (Cu) is used for wetted parts.



Page Page			Series 25A-		25-	90-
Check Valve 25A-AKH (With One-touch fittings) P.143 -	Description		Model (Type)	Page no.	L	
Stainless Steel Speed Controller As-FG (Elbow/Universal/In-line type) 1 - -		Quick Exhaust Valve	25A-AQ240F, 340F (Built-in One-touch fittings)	P.142	-	•
MS (Miniature fittings) *1	ent	Check Valve	25A-AKH (With One-touch fittings)	P.143	-	•
MS (Miniature fittings) *1	uipm	Stainless Steel Speed Controller	AS-FG (Elbow/Universal/In-line type)	*1	-	-
MS (Miniature fittings) *1	rol Ec	Speed Controller with Indicator	AS-FSG (Elbow type)	*1	-	-
MS (Miniature fittings) *1	Cont	Stainless Steel Fittings	KG (One-touch fittings)	*1	•	•
MS (Miniature fittings) *1) wo		KPG (One-touch fittings)	*1	-	
MS (Miniature fittings) *1	Js/Fl		KQG2 (One-touch fittings)	*1	-	_
MS (Miniature fittings) *1	ittinç	.M n	KFG2 (Insert fittings)	*1	-	-
Tubing T (Nylon) TS (Soft nylon) TU (Polyurethane) TL (Fluoropolymer) TH (FEP) TD (Soft fluoropolymer) TPS (Soft polyolefin) IDK (Moisture control tubing) Pressure Switch 25A-ZSE30A/ISE30A P.144 25A-ZSE40A/ISE40A P.145 P.146 Flow Switch P.147 25A-PF3W (For water) P.148	ш	2.8	MS (Miniature fittings)	*1	-	_
TS (Soft nylon) *1 - -			KKA (S Couplers stainless steel type)	*1	-	_
TU (Polyurethane) *1		Tubing	T (Nylon)	*1	-	_
TA (Antistatic)			TS (Soft nylon)	*1	-	-
TL (Fluoropolymer) *1 TH (FEP) *1 TD (Soft fluoropolymer) *1 TPS (Soft polyolefin) *1 IDK (Moisture control tubing) *1 Pressure Switch 25A-ZSE30A/ISE30A P.144 25A-ZSE40A/ISE40A P.145 25A-ZSE80/ISE80 P.146 Flow Switch 25A-PFM7 P.147 25A-PF3W (For water) P.148			TU (Polyurethane)	*1	-	-
TH (FEP) *1 TD (Soft fluoropolymer) *1 TPS (Soft polyolefin) *1 IDK (Moisture control tubing) *1 Pressure Switch 25A-ZSE30A/ISE30A P.144 P.145 25A-ZSE40A/ISE40A P.145 25A-ZSE80/ISE80 P.146 25A-PFM7 P.147 - • 25A-PF3W (For water) P.148	βL		TA□ (Antistatic)	*1	-	-
TH (FEP) *1 TD (Soft fluoropolymer) *1 TPS (Soft polyolefin) *1 IDK (Moisture control tubing) *1 Pressure Switch 25A-ZSE30A/ISE30A P.144 P.145 25A-ZSE40A/ISE40A P.145 25A-ZSE80/ISE80 P.146 25A-PFM7 P.147 - • 25A-PF3W (For water) P.148	ubir		TL (Fluoropolymer)	*1	-	_
TPS (Soft polyolefin) *1 IDK (Moisture control tubing) *1 IDK (Moisture control tubing) *1 *1 *1 IDK (Moisture control tubing) *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *1 *			TH (FEP)	*1	-	-
IDK (Moisture control tubing) *1 - -			TD (Soft fluoropolymer)	*1	-	_
Pressure Switch 25A-ZSE30A/ISE30A P.144 25A-ZSE40A/ISE40A P.145 25A-ZSE80/ISE80 P.146 P.147 P.147 P.147 P.148 P.148 P.144 P.144 P.145 P.146 P.146 P.147 P.147 P.147 P.148			TPS (Soft polyolefin)	*1	-	-
25A-ZSE40A/ISE40A P.145 25A-ZSE80/ISE80 P.146 Flow Switch 25A-PFM7 P.147 - • 25A-PF3W (For water) P.148			IDK (Moisture control tubing)	*1	-	_
	S	Pressure Switch	25A-ZSE30A/ISE30A	P.144	•	
	itche	1000	25A-ZSE40A/ISE40A	P.145	_	
	Sw		25A-ZSE80/ISE80	P.146	-	
	ction	Flow Switch	25A-PFM7	P.147	-	
	Dete		25A-PF3W (For water)	P.148	-	-
25A-PF3W (For PVC piping) P.149 – –			25A-PF3W (For PVC piping)	P.149	-	_

^{*1} Standard products: Standard products are copper (Cu) and zinc (Zn) free. Refer to **the WEB catalog** or the Best Pneumatics for details.



	Description	Series 25A-		25-	90-
	Description	Model (Type)	Page no.	L	
တ္သ	Solid State Auto Switch	D-M9 □□	P.161		
tche		D-Y7□□	P.161		
Auto Switches		D-K59	P.161	-	-
Auto	Reed Auto Switch	D-Z80L	P.161		
		D-A90L	P.161	_	_
Fluid Control Equipment	Direct Operated 2 Port Solenoid Valve	25A-VX2	P.150	-	-
High Vacuum Equipment	Aluminum High Vacuum Angle Valve	XLA (Normally closed) XLC (Double acting)	*2	-	<u>-</u>
т		3,			
ors	Electric Actuator	25A-LEFS (Slider type/Ball screw drive/Step motor, Servo motor)	P.153	_	_
xtuat	New	25A-LEFS (Slider type/Ball screw drive/AC servo motor)	P.155	-	_
ic Ad	New	25A-LEJS (High rigidity slider type/Ball screw drive/AC servo motor)	P.156	_	_
Electric Actuators	New	25A-LEY (Rod type/Step motor, Servo motor)	P.157	-	_
Ш	New	25A-LEY (Rod type/AC servo motor)	P.159	-	-

^{*2} Consult with your SMC sales representative.

Grease pack for Series 25A*

Applicable models
* Air cylinders (Except guide unit). For other models, consult with your SMC sales representative.

Grease pack part number	Quantity
GR-D-005	5 g
GR-D-010	10 g
GR-D-100	100 g

Contained in a plastic container.

Related Products Consult with SMC for "Copper (Cu) and Zinc (Zn) Free" products.

1 Antistatic Equipment

Vacuum

Static electricity

Antistatic performance achieved through conductive measures for a reduction in static-related trouble.

Actuators · Antistatic Air Cylinder (Made to Order) Series CM2-X1051

Vacuum Equipment

Fittings and Tubing

- · Antistatic One-touch Fittings Series KA
- · Miniature Fittings/Stainless Steel 316 Series MS
- · Miniature Fittings Series M
- · Antistatic Tubing Series TA□



Flow Control Equipment

· Antistatic Speed Controller (Made to Order) Series AS-X260

2 Static Electricity Elimination Equipment

Static electricity

lons generated by corona discharge eliminate (neutralize) static electricity.

- · Ionizer/Bar Type Series IZ\$4
- · Ionizer Series IZS31
- · Ionizer/Nozzle Type Series IZN10
- · Ionizer/Fan Type Series IZF10

Measurement Equipment

Measures the electrostatic potential.

- · Handheld Electrostatic Meter Series IZH10



Temperature Control Equipment

· Thermo-chiller/Compact Type Series HRS



Electric Actuators

- Electric Actuator/Guide Rod Slider
 - Series LEL
- Electric Actuator/Compact Slider Type
- Series LEM
- · Electric Slide Table Series LES

· Electric Actuator/Miniature Rod Type

/Miniature Slide Table Type Series LEPS/LEPY

· Electric Rotary Table Series LER

- · Electric Gripper Series LEH
- · Electric Actuator/Slider Type Series LEFB



Series IZD/IZE





Series LEM

Series LES







Series LEPS/LEPY

Series LER





Type 11 **Bottom Ported**

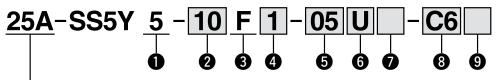
Plug-in Connector Connecting Base

D-sub Connector

Series 25A-SY5000



How to Order Manifold



Series compatible with secondary batteries

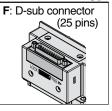
Series

SY5000

Q	Туре
	_

10	Side ported	
11	Bottom ported	

3 Connector type



4 Connector entry direction

1: Upward	2: Lateral

Valve stations

F: D	F: D-sub connector (25 pins)				
Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring Note 1)			
12	12 stations				
02	2 stations	Specified layout Note 2)			
:	:	(Available up to			
24	24 stations	24 solenoids)			

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control

signal. If this is not desired, order with a specified layout. Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) This also includes the number of blanking plate assembly.

6 P. E port entry

	<u> </u>
U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

7 SUP/EXH block assembly

Nil	Internal pilot	
S Internal pilot, Built-in silencer		
* 3/5(E) port is plugged for the		
built-in silencer type.		

8 A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported	Type 11/ Bottom ported	
			SY5000	SY5000	
C4	t	ø4 One-touch fitting	•	•	
C6	igh	ø6 One-touch fitting	•	•	
C8	štra	ø8 One-touch fitting	•	•	
CM*	ری	Straight port, mixed sizes	•	•	0 1935
P, E	po	rt size (One-touch fittings)	ø10	ø10	

- * Indicate the sizes on the manifold specification sheet in the case of "CM".
- * The direction of P, E port fittings is the same as for A, B port.

Mounting

	Symbol	Mounting	
	Nil	Direct mounting	
	D□	DIN rail mounting	

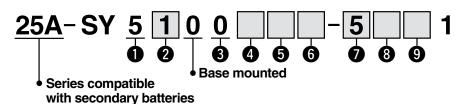
DIN rail option

Nil	Standard length	
	With DIN bracket (Without DIN rail)	
3	For 3 stations	Specify a longer rail
:	:	than the total length
24	For 24 stations	of specified stations

Note 1) Enter the number of stations inside □. (Refer to "DIN Rail Option"

Note 2) Only direct mounting is available for Type 11 (Bottom ported).





Series

5 SY5000

② Ty	ре	of	actuation

1	2-position single	
2	2-position double	
3	3-position closed center	
4	3-position exhaust center	
5	3-position pressure center	
Α	4-position dual 3-port valve (N.C./N.C.)	
В	4-position dual 3-port valve (N.O./N.O.)	
С	4-position dual 3-port valve (N.C./N.O.)	

Rubber seal

None

3 Seal type

_

4 Back pressure check valve (Built-in valve type)

Н	Built-in
check	uilt-in valve type back pressure valve is not available for the tion type.

Pilot valve option

Nil	Standard (102 psi [0.7 MPa])	
В	Quick response type (102 psi [0.7 MPa])	

6 Coil type

Nil	il Standard	
Т	With power saving circuit (Continuous duty type)	

- * Be sure to select the power saving circuit type when the valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

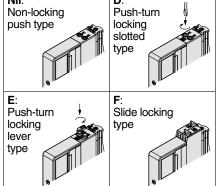
5	24 VDC
6	12 VDC

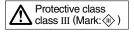
8 Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S With surge voltage suppressor (Positive common)	
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

* Only "Z" and "NZ" types are available for the product with power saving circuit.

9 Manual override





D-sub Connector

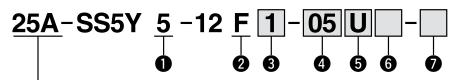
Type 12 Top Ported

Series 25A-SY5000



RoHS

How to Order Manifold

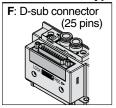


 Series compatible with secondary batteries



5 SY5000

2 Connector type



4 Valve stations

F: D-sub connector (25 pins)

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
12	12 stations	
02	2 stations	Specified layout Note 2)
	:	(Available up to
24	24 stations	24 solenoids)
	: 12 02 :	02 2 stations : : : : : : : : : : : : : : : : : : :

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations.

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.) Note 3) This also includes the number of blanking plate assembly.

3 Connector entry direction

d. Harrand	0.1
1: Upward	2: Lateral

5 P, E port entry

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

Note) **⑤** For type "S", supply/exhaust block assembly with built-in silencer, choose "U" or "D" for P port entry.

6 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot,Built-in silencer

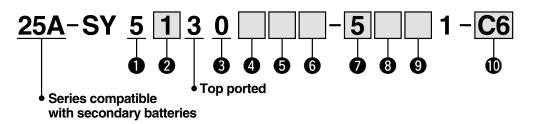
* For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)

Mounting

Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	Specify a longer
:	i	rail than the
D24	For 24 stations	standard length.

^{*} Specifications and dimensions for the 25A-series are the same as standard products.





Series

O C C C C C C C C C C	
5	SY5000

2 Type of actuation

1	2-position single	
2	2-position double	
3	3-position closed center	
4	3-position exhaust center	
5	3-position pressure center	
Α	4-position dual 3-port valve (N.C./N.C.)	
В	4-position dual 3-port valve (N.O./N.O.)	
С	4-position dual 3-port valve (N.C./N.O.)	

3 Seal type

0	Rubber seal

4 Back pressure check valve (Built-in valve type)

Nil	None
Н	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type.

Pilot valve option

Nil	Standard (102 psi [0.7 MPa])
В	Quick response type (102 psi [0.7 MPa])

6 Coil type

	7.
Nil	Standard
Т	With power saving circuit (Continuous duty type)

- * Be sure to select the power saving circuit type when the valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

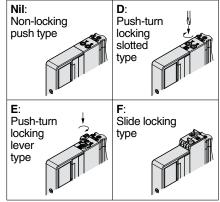
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
s	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

* Only "Z" and "NZ" types are available for the product with power saving circuit.

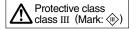
9 Manual override



A, B port size

One-touch fitting (Metric)

	• • •	
Symbol	A, B port	SY5000
C4	ø4 One-touch fitting	•
C6	ø6 One-touch fitting	•
C8	ø8 One-touch fitting	•





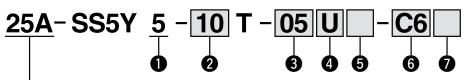


Terminal Block Box

Series 25A-SY5000



How to Order Manifold



 Series compatible with secondary batteries

Series

5	SY5000

2 Туре

10	Side ported
11	Bottom ported

Valve stations

Symbol	Stations	Note	
02	2 stations	Double wiring Note 1)	
:	:		
10	10 stations		
02	2 stations	Specified layout Note 2) (Available up to 20 solenoids)	
:	:		
20	20 stations		

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations.

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications with the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) This also includes the number of blanking plate assembly.

4 P, E port entry

U	U side (2 to 10 stations)	
D	D side (2 to 10 stations)	
В	Both sides (2 to 20 stations)	

5 SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

- * 3/5(E) port is plugged for the built-in silencer type.
- When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

Mounting

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

Note 1) Enter the number of stations inside □. (Refer to "DIN Rail Option" below.)

Note 2) Only direct mounting is available for Type 11 (Bottom ported).

DIN rail option

Nil	Standard length		
0	With DIN bracket (Without DIN rail)		
3	For 3 stations	Specify a longer rail than the total length of specified stations.	
i	:		
24	For 24 stations		
		•	

6 A, B port size (Metric)

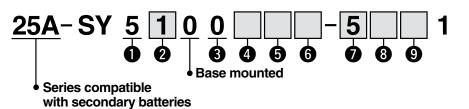
Symbol	A, B port		Type 10/ Side ported	Type 11/ Bottom ported
			SY5000	SY5000
C4	t	ø4 One-touch fitting	•	•
C6	igh	ø6 One-touch fitting	•	•
C8	stra	ø6 One-touch fitting ø8 One-touch fitting	•	•
CM*	0)	Straight port, mixed sizes	•	•
P, E	por	t size (One-touch fittings)	ø10	ø10



* The direction of P, E port fittings is the same as for A, B port.



Specifications and dimensions for the 25A-series are the same as standard products.



Series

5	SY5000

2 Type of actuation

1	2-position single	
2	2-position double	
3	3-position closed center	
4	3-position exhaust center	
5	3-position pressure center	
Α	4-position dual 3-port valve (N.C./N.C.)	
В	4-position dual 3-port valve (N.O./N.O.)	
С	4-position dual 3-port valve (N.C./N.O.)	

3 Seal type

0	Rubber seal	

Back pressure check valve (Built-in valve type)

Nil	None
Н	Built-in

The built-in valve type back pressure check valve is not available for the 3-position type.

5 Pilot valve option

Nil	Standard (102 psi [0.7 MPa])
В	Quick response type (102 psi [0.7 MPa])

6 Coil type

	71
Nil	Standard
Т	With power saving circuit (Continuous duty type)

- * Be sure to select the power saving circuit type when the valve is continuously energized for long periods of time.
- energized for long periods of time.

 * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

5	24 VDC
6	12 VDC

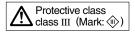
8 Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)	
R	With surge voltage suppressor (Non-polar)	
U	With light/surge voltage suppressor (Non-polar)	
s	With surge voltage suppressor (Positive common)	
Z	With light/surge voltage suppressor (Positive common)	
NS	With surge voltage suppressor (Negative common)	
NZ	With light/surge voltage suppressor (Negative common)	

* Only "Z" and "NZ" types are available for the product with power saving circuit.

9 Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type
E: Push-turn locking lever type	F: Slide locking type



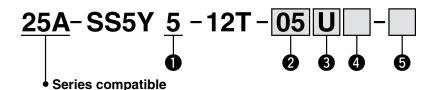
Terminal Block Box

Type 12
Top Ported

Series 25A-SY5000



How to Order Manifold



Series

5 SY5000

3 P, E port entry

U Note)	U side (2 to 10 stations)
D Note)	D side (2 to 10 stations)
В	Both sides (2 to 20 stations)

Note) For type "S", supply/exhaust block assembly with built-in silencer, choose "U" or "D" for P port entry.

2 Valve stations

with secondary batteries

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring Note 1)	
10	10 stations	_	
02	2 stations	Specified layout Note 2)	
:	:		
20	20 stations	(Available up to 20 solenoids)	

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations.

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) This also includes the number of blanking plate assembly.

4 SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

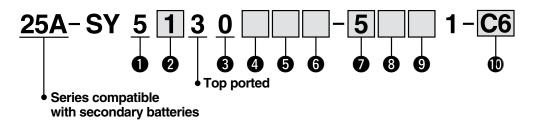
- * For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry.
- (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)
- When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

6 Mounting

Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations Specify a longe	
:	For 20 stations rail than the standard length	
D20		

Specifications and dimensions for the 25A-series are the same as standard products.





Series

2

3

4

5

Α

В

Nil

Н

3-position type.

Type of actuation

5 SY5000		
	5	SY5000

2-position single

2-position double

3-position closed center

3-position exhaust center

3-position pressure center

4-position dual 3-port valve (N.C./N.C.)

4-position dual 3-port valve (N.O./N.O.)

4-position dual 3-port valve (N.C./N.O.)

None

Built-in

5 Pilot valve option

Nil	Nil Standard (102 psi [0.7 MPa])	
В	Quick response type (102 psi [0.7 MPa])	

6 Coil type

<u> </u>	
Nil	Standard
Т	With power saving circuit (Continuous duty type)

- * Be sure to select the power saving circuit type when the valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

Seal type

0	Rubber seal	

4 Back pressure check valve

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

(Built-in valve type)

Rated voltage

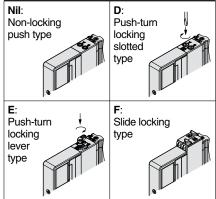
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

Nil	Nil Without light/surge voltage suppressor (Non-polar)	
R With surge voltage suppressor (Non-polar)		
U	With light/surge voltage suppressor (Non-polar)	
S With surge voltage suppressor (Positive common)		
Z With light/surge voltage suppress (Positive common)		
NS	With surge voltage suppressor (Negative common)	
NZ	With light/surge voltage suppressor (Negative common)	

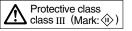
* Only "Z" and "NZ" types are available for the product with power saving circuit.

Manual override



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

Symbol	A, B port	SY5000
C4	ø4 One-touch fitting	•
C6	ø6 One-touch fitting	•
C8	ø8 One-touch fitting	•





Type 10
Side Ported

Type 11
Bottom Ported

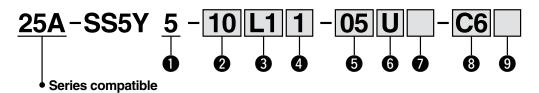
Plug-in Connector Connecting Base

Lead Wire

Series 25A-SY5000



How to Order Manifold



1 Series 5 SY5000

Number of cores (Lead wire)

with secondary batteries

(I 3□)

	(=====	
L1	34 cores	
L2	17 cores	
L3	9 cores	

Type

Side ported
Bottom ported

4	Lead	wire	length

1	0.6 m
2	1.5 m
3	3 m

5 Valve stations

Symbol	Stations	Note	
02	2 stations	Specified layout Note 2) (Available up to	
:	:		
16	16 stations		
02	2 stations		
:	:		
24	24 stations		

\ _ _	(LU)		
Symbol	Stations	Note	
02	2 stations		
:	i i	Double wiring Note 1)	
04	4 stations		
02	2 stations	Specified layout Note 2)	
:		(Available up to	
08	8 stations	8 solenoids)	

(L2□)

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring Note 1)	
08	8 stations		
02	2 stations	Specified layout Note 2)	
:	:	(Available up to	
16	16 stations	16 solenoids)	

- Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations.

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

6 P, E port entry

_ ,	<u> </u>	
C	U side (2 to 10 stations)	
D	D side (2 to 10 stations)	
В	Both sides (2 to 24 stations)	

SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

- * 3/5(E) port is plugged for the built-in silencer type.
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

8 A, B port size (Metric)

	Symbol	A, B port		Type 10/ Side ported	Type 11/ Bottom ported	
l ′				SY5000	SY5000	
	C4	_	ø4 One-touch fitting	•	•	
Ī	C6	igh	ø4 One-touch fitting ø6 One-touch fitting	•	•	
	C8	ìtra	ø8 One-touch fitting	•	•	
ľ	CM*	נט	Straight port, mixed sizes	•	•	O BIES
	P, E	po	rt size (One-touch fittings)	ø10	ø10	

- * Indicate the sizes on the manifold specification sheet in the case of "CM".
- * The direction of P, E port fittings is the same as for A, B port.

9 Mounting

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

- Note 1) Enter the number of stations inside □. (Refer to "DIN Rail Option" below.)
- Note 2) Only direct mounting is available for Type 11 (Bottom ported).

DIN rail option

	· · · · · · · · · · · · · · · · ·		
Nil		Standard length	
0	With DIN	bracket (Without DIN rail)	
3	For 3 stations	Specify a longer rail than the	
÷	:	total length of specified	
24	For 24 stations	stations.	

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



Manual override

Push-turn

Slide locking

type

locking

slotted type

Nil:

E:

Non-locking

push type

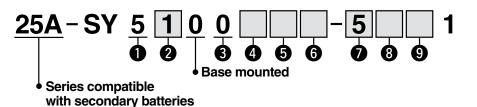
Push-turn

locking

lever

type

How to Order Valves (With two mounting screws)



Series

SY5000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
Α	4-position dual 3-port valve (N.C./N.C.)
В	4-position dual 3-port valve (N.O./N.O.)
С	4-position dual 3-port valve (N.C./N.O.)

3 Seal type

	<u> </u>		
0		Rubber seal	

Back pressure check valve (Built-in valve type)

Nil	None
Н	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type.

5 Pilot valve option

Nil	Standard (102 psi [0.7 MPa])
В	Quick response type (102 psi [0.7 MPa])

6 Coil type

		71-
	Nil	Standard
	т	With power saving circuit
	•	(Continuous duty type)

- * Be sure to select the power saving circuit type when the valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

	<u> </u>
Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

* Only "Z" and "NZ" types are available for the product with power saving circuit.



Lead Wire

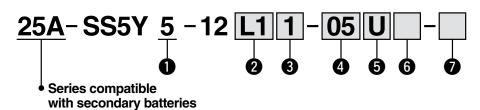
Type 12 Top Ported

Series 25A-SY5000



RoHS

How to Order Manifold



Series

5 SY5000

2 Number of cores (Lead wire)

	,
L1	34 cores
L2	17 cores
L3	9 cores

3 Lead wire length

	· · · · · · · · · · · · · · · · · · ·
1	0.6 m
2	1.5 m
3	3 m

4 Valve stations

(L1□)

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
16	16 stations	
02	2 stations	Specified layout Note 2)
:	:	(Available up to
24	24 stations	32 solenoids)

(L3□)

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
04	4 stations	
02	2 stations	Specified layout Note 2)
- : ·	:	(Available up to
08	8 stations	8 solenoids)

6 P, E port entry

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

Note) **6** For type "S", supply/exhaust block assembly with built-in silencer, choose "U" or "D" for P port entry.

6 SUP/EXH block assembly

Nil Internal pilot	
S	Internal pilot, Built-in silencer

- * For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

(L2□)

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
08	8 stations	
02	2 stations	Specified layout Note 2)
:		(Available up to
16	16 stations	16 solenoids)

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

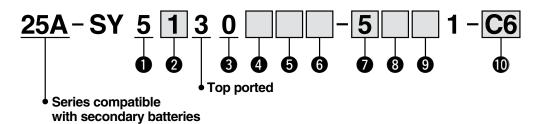
- Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)
- Note 3) This also includes the number of blanking plate assembly.

Mounting

Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations Specify a longer rail	
•	than the standard	
D24	For 24 stations	length.

^{*} Specifications and dimensions for the 25A-series are the same as standard products.





Series SY5000

2 Type of actuation

1	2-position single	
2	2-position double	
3	3-position closed center	
4	3-position exhaust center	
5	3-position pressure center	
Α	4-position dual 3-port valve (N.C./N.C.)	
В	4-position dual 3-port valve (N.O./N.O.)	
С	4-position dual 3-port valve (N.C./N.O.)	

Seal type

	71	
0	Rubber seal	

4 Back pressure check valve (Built-in valve type)

	71 7
Nil	None
Н	Built-in

^{*} The built-in valve type back pressure check valve is not available for the 3-position type.

5 Pilot valve option

Nil	Standard (102 psi [0.7 MPa])
В	Quick response type (102 psi [0.7 MPa])

6 Coil type

	<u> </u>	
Nil	Standard	
Т	With power saving circuit (Continuous duty type)	

- * Be sure to select the power saving circuit type when the valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

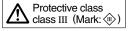
Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

^{*} Only "Z" and "NZ" types are available for the product with power saving circuit.

Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type
E: Push-turn locking lever type	F: Slide locking type

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





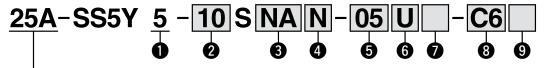
Type 11 **Bottom Ported**

Plug-in Connector Connecting Base

Series 25A-SY5000



How to Order Manifold



Series compatible with secondary batteries

Series

SY5000

2 Type

Side ported Bottom ported

3 SI unit specifications

Symbol	Protocol		Communication
,		outputs	connector
0	W	ithout SI ur	nit
QA	DeviceNet™	32	
QB	Devicerver	16	
NA	PROFIBUS	32	
NB	DP	16	
VA	CC-Link	32	
VB		16	M12
DA	EtherCAT	32	IVIIZ
DB	EllielCAT	16	
FA	PROFINET	32	
FB	FNOFINEI	16	
EA	EtherNet/IP™	32	
EB		16	

For SI unit part number, refer to page 33. DIN rail cannot be mounted without SI unit.

4 SI unit output polarity

Nil	Positive common
N	Negative common

Note 1) Ensure a match with the common specifications of the value to be used.

Note 2) Without SI unit, the symbol is nil.

Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring Note 1)	
16	16 stations		
02	2 stations	Specified layout Note 2) (Available up to 32 solenoids)	
:	:		
24	24 stations		

In the case of the 16-output SI unit

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring Note 1)	
08	8 stations		
02	2 stations	On a sifi and January & Note 2)	
•	:	Specified layout Note 2) (Available up to 16 solenoids)	
16	16 stations		

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet.

(Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) This also includes the number of blanking plate assembly.

Note 4) For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

6 P. E port entry

<u> </u>	_	
U side (2 to 10 stations)		
D	D side (2 to 10 stations)	
В	Both sides (2 to 24 stations)	

SUP/EXH block assembly

<u> </u>		
Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

- * 3/5(E) port is plugged for the built-in silencer type.
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

9 Mounting

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

Note 1) Enter the number of stations inside \Box . (Refer to "DIN Rail Option" below.)

Note 2) Only direct mounting is available for Type "11" (Bottom ported).

DIN rail option

Nil	Direct mounting		
0	With DIN bracket (Without DIN rail)		
3	For 3 stations	Specify a longer rail	
:	:	than the total length	
24	For 24 stations	of specified stations.	

* When it is necessary to mount a DIN rail without an SI unit, select "D0" and order DIN rail length separately, referring to L3 in the dimensions.

A B port size (Metric)

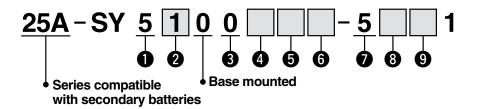
•	A, b port size (wetrie)				
Symbol		A, B port	Type 10/ Side ported	Type 11/ Bottom ported	
		·	CVEDOD CVEDOD		
C4	1	ø4 One-touch fitting ø6 One-touch fitting ø8 One-touch fitting	•	•	re-
C6	ig	ø6 One-touch fitting	•	•	
C8	štra	ø8 One-touch fitting	•	•	
CM*	(0)	Straight port, mixed sizes	•	•	U
P, E	por	t size (One-touch fittings)	ø10	ø10	

* Specifications and dimensions for the 25A-series are the same as standard products.

For details about the EX260 Integrated-type (For Output) Serial Transmission System, refer to the WEB catalog or the Best Pneumatics No. 1, and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 33 in this catalog. Please download the Operation Manual via our website, http://www.smcworld.com



^{*} Indicate the sizes on the manifold specification sheet in the case of "CM".



Series

5 SY5000

2 Type of actuation

_ ,		
1	2-position single	
2	2-position double	
3	3-position closed center	
4	3-position exhaust center	
5	3-position pressure center	
Α	4-position dual 3-port valve (N.C./N.C.)	
В	4-position dual 3-port valve (N.O./N.O.)	
С	4-position dual 3-port valve (N.C./N.O.)	

3 Seal type

0	Rubber seal	

Back pressure check valve (Built-in valve type)

Nil	None
Н	Built-in

^{*} The built-in valve type back pressure check valve is not available for the 3-position type.

5 Pilot valve option

Nil	Standard (102 psi [0.7 MPa])	
В	Quick response type (102 psi [0.7 MPa]	

6 Coil type

	71'
Nil	Standard
Т	With power saving circuit (Continuous duty type)

- * Be sure to select the power saving circuit type when a valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

7 Rated voltage

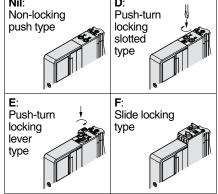
5	24 VDC

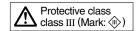
8 Light/surge voltage suppressor and common specification

R With surge voltage suppresso (Non-polar)	
U With light/surge voltage suppresso (Non-polar)	
S With surge voltage suppressor (Positive common)	
Z With light/surge voltage suppres (Positive common)	
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

- * Select a valve from "R", "U", "S" or "Z" when the SI unit output polarity is Nil (Positive common). Select a valve from "R", "U", "NS" or "NZ" when the SI unit output polarity is "N" (Negative common).
- * Only "Z" and "NZ" types are available for the product with power saving circuit.

9 Manual override Nil: D





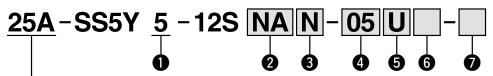
EX260

Type 12
Top Ported

Series 25A-SY5000



How to Order Manifold



 Series compatible with secondary batteries

Series

5 SY5000

SI unit specifications

<u> </u>	Or arm specimeations			
Symbol	Protocol	Number of outputs	Communication connector	
0	V	ithout SI ur	nit	
QA	DeviceNet™	32		
QB	Devicemet	16		
NA	PROFIBUS	32		
NB	DP	16		
VA	CC-Link	32		
VB		16	M12	
DA	EtherCAT	32	IVIIZ	
DB	EllielCAT	16		
FA	PROFINET	32		
FB	FNOFINET	16		
EA	EtherNet/IP™	32		
EB	Luiciive(/iF ····	16		

For SI unit part number, refer to page 33. DIN rail cannot be mounted without SI unit.

3 SI unit output polarity

	Nil	Positive common (NPN)
İ	N	Negative common (PNP)

Note 1) Ensure a match with the common specifications of the value to be used.

Note 2) Without SI unit, the symbol is nil.

4 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	
÷	÷	Double wiring Note 1)
16	16 stations	
02	2 stations	Connectional Louve at Note 2)
:	:	Specified layout Note 2) (Available up to 32 solenoids
24	24 stations	(Available up to 32 solei loids)

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	
:		Double wiring Note 1)
80	8 stations	
02	2 stations	Considered layer at Note 2)
÷	:	Specified layout Note 2) (Available up to 16 solenoids)
16	16 stations	(Available up to 16 soleriolds)

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations.

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet.

(Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) This also includes the number of blanking plate assembly.

Note 4) For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

5 P, E port entry

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

Note) **③** For type "S", supply/exhaust block assembly with built-in silencer, choose "U" or "D" for P port entry.

6 SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

- * For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)
- When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

Mounting

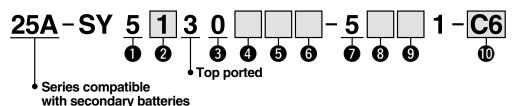
Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting	(Without DIN rail)
D3	For 3 stations	Specify a longer
:	:	rail than the
D24	For 24 stations	standard length.

* When it is necessary to mount a DIN rail without an SI unit, select "D0" and order DIN rail length separately, referring to L3 in the dimensions.

* Specifications and dimensions for the 25A-series are the same as standard products.

For details about the EX260 Integrated-type (For Output) Serial Transmission System, refer to **the WEB catalog** or the Best Pneumatics No. 1, and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 33 in this catalog. Please download the Operation Manual via our website, http://www.smcworld.com





Series

SY5000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
Α	4-position dual 3-port valve (N.C./N.C.)
В	4-position dual 3-port valve (N.O./N.O.)
С	4-position dual 3-port valve (N.C./N.O.)

Seal type

0	Rubber seal	

Back pressure check valve (Built-in valve type)

Nil	None	
Н	Built-in	

* The built-in valve type back pressure check valve is not available for the 3-position type.

5 Pilot valve option

Nil	Standard (102 PSI [0.7 MPa])
В	Quick response type (102 PSI [0.7 MPa])

6 Coil type

Nil	Standard	
Т	With power saving circuit (Continuous duty type)	

- * Be sure to select the power saving circuit type when a valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

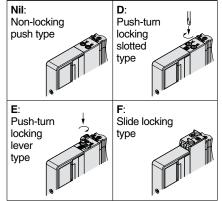
24 VDC

8 Light/surge voltage suppressor and common specification

R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
s	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

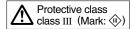
- * Select a valve from "R", "U", "S" or "Z" when the SI unit output polarity is Nil (Positive common). Select a valve from "R", "U", "NS" or "NZ" when the SI unit output polarity is "N" (Negative common).
- * Only "Z" and "NZ" types are available for the product with power saving circuit.

Manual override



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

	<u> </u>	
Symbol	A, B port	SY5000
C4	ø4 One-touch fitting	•
C6	ø6 One-touch fitting	•
C8	ø8 One-touch fitting	•







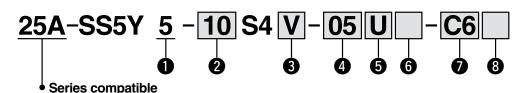
EX126

with secondary batteries

Series 25A-SY5000



How to Order Manifold



Series

5 SY5000

2 Type

10	Side ported
11	Bottom ported

3 SI unit

0	Without SI unit
V	CC-Link (Positive common NPN)

 Only a terminal block plate is mounted for the valve without SI unit.
 For SI unit part number, refer to page 33.

6 P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 16 stations)

6 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

- * 3/5(E) port is plugged for the built-in silencer type.
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

8 Mounting

	<u> </u>
Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

Note 1) Enter the number of stations inside □. (Refer to "DIN Rail Option" below.)

Note 2) Only direct mounting is available for Type 11 (Bottom ported).

DIN rail option

Nil	Standard length		
0	With DIN brack	et (Without DIN rail)	
3	For 3 stations	Specify a longer rail	
:	:	than the total length	
16	For 16 stations	of specified stations.	

4 Valve stations

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
08	8 stations	_
02	2 stations	Consisted Involut Nate 2)
:	:	Specified layout ^{Note 2)} (Available up to 16 solenoids)
16	16 stations	

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations.

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications with the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) This also includes the number of blanking plate assembly.

A, B port (Metric)

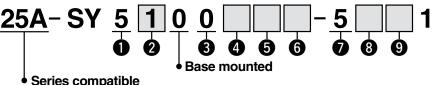
Symbol		A, B port	Type 10/ Side ported	Type 11/ Bottom ported	
			SY5000	SY5000	
C4 C6		ø4 One-touch fitting	•	•	
C6	ij	ø6 One-touch fitting	•	•	
C8	štra	ø8 One-touch fitting	•	•	
CM*	0,	Straight port, mixed sizes	•	•	O DESCRIPTION OF THE PERSON OF
P, E	P, E port size (One-touch fittings)		ø10	ø10	

- * Indicate the size on the manifold specification sheet in the case of "CM".
- * The direction of P, E port fittings is the same as for A, B port.

* Specifications and dimensions for the 25A-series are the same as standard products.

For details about the EX126 Integrated-type (For Output) Serial Transmission System, refer to **the WEB catalog** or the Best Pneumatics No. 1, and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 33 in this catalog. Please download the Operation Manual via our website, http://www.smcworld.com





Series compatible with secondary batteries

Series

5	SY5000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
Α	4-position dual 3-port valve (N.C./N.C.)
В	4-position dual 3-port valve (N.O./N.O.)
С	4-position dual 3-port valve (N.C./N.O.)

3 Seal type

0	Rubber seal

4 Back pressure check valve (Built-in valve type)

Nil	None
Н	Built-in

^{*} The built-in valve type back pressure check valve is not available for the 3-position type.

5 Pilot valve option

Nil	Standard (102 psi [0.7 MPa])
В	Quick response type (102 psi [0.7 MPa])

6 Coil type

	7 1
Nil	Standard
Т	With power saving circuit (Continuous duty type)

- * Be sure to select the power saving circuit type when the valve is continuously energized for long periods of time.

 * Note the specified energizing time when
- power saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

5	24 VDC

8 Light/surge voltage suppressor and common specification

and common speciments	
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
Ø	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)

* Only "Z" type is available for the product with power saving circuit.

9 Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type
E: Push-turn locking lever type	F: Slide locking type

EX126

Type 12
Top Ported

Series 25A-SY5000



How to Order Manifold



 Series compatible with secondary batteries

Series

• ••••••	
5	SY5000

SI unit

0	Without SI unit
V	CC-Link (Positive common NPN)

 Only a terminal block plate is mounted for the valve without SI unit.
 For SI unit part number, refer to page 33.

Valve stations

	Symbol	Stations	Note	
	02	2 stations		
	:	:	Double wiring Note 1)	
	80	8 stations		
	02	2 stations	Charified layout Note 2)	
ĺ	:	:	Specified layout Note 2) (Available up to 16 solenoids)	
	16	16 stations		

Note 1) Double wiring: 2-position single, double, 3- position and 4-position valves can be used on all manifold stations.

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) This also includes the number of blanking plate assembly.

P, E port entry

U Note)		U side (2 to 10 stations)
D Note)	1	D side (2 to 10 stations)
B Both		Both sides (2 to 16 stations)

Note) **5** For type "S", supply/exhaust block assembly with built-in silencer, choose "U" or "D" for P port entry.

5 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

- * For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

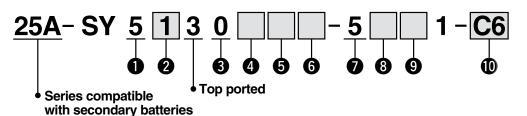
6 Mounting

Nil	Direct mounting	
D	DIN rail mount	ing (With DIN rail)
D0	DIN rail mountin	g (Without DIN rail)
D3	For 3 stations	Specify a longer
:	:	rail than the
D16	For 16 stations	standard length.

 Specifications and dimensions for the 25A-series are the same as standard products.

For details about the EX126 Integrated-type (For Output) Serial Transmission System, refer to **the WEB catalog** or the Best Pneumatics No. 1, and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 33 in this catalog. Please download the Operation Manual via our website, http://www.smcworld.com





Series

5 SY5000		
	5	SY5000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
Α	4-position dual 3-port valve (N.C./N.C.)
В	4-position dual 3-port valve (N.O./N.O.)
С	4-position dual 3-port valve (N.C./N.O.)

Seal type

0	Rubber seal

4 Back pressure check valve (Built-in valve type)

I	Nil	None		
	Н	Built-in		

* The built-in valve type back pressure check valve is not available for the 3-position type.

5 Pilot valve option

Nil	Standard (102 psi [0.7 MPa])
В	Quick response type (102 psi [0.7 MPa])

6 Coil type

	<u> </u>		
Nil	Standard		
т	With power saving circuit		
•	(Continuous duty type)		

- * Be sure to select the power saving circuit type when the valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected. For details, refer to the standard product catalog.

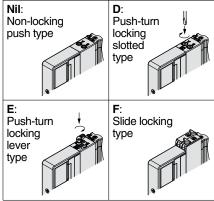
Rated voltage

8 Light/surge voltage suppressor and common specification

R	With surge voltage suppressor
- ' '	(Non-polar)
U	With light/surge voltage suppressor
U	(Non-polar)
S	With surge voltage suppressor
3	(Positive common)
Z	With light/surge voltage suppressor
	(Positive common)

* Only "Z" type is available for models with a power saving circuit.

Manual override



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

Symbol	A, B port	SY5000	
C4	ø4 One-touch fitting	•	
C6 Ø6 One-touch fitting		•	
C8	ø8 One-touch fitting	•	

* Specifications and dimensions for the 25A-series are the same as standard products.

∧ Caution

Tightening torque for mounting screw M3: 0.59 lbf-ft [0.8 N·m]

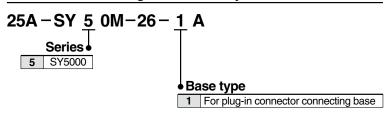
Manifold Options

■ Blanking plate assembly

(With two mounting screws) Used when valve additions are expected or for maintenance. A structure is in place on the blanking plate to prevent the mounting screws from sliding.



How to Order Blanking Plate Assembly



Series 25A-SY5000

SI Unit Part No.

Description	SI unit part no.	Note	
	EX260-SPR1-X117	PROFIBUS DP M12 connector, 32 outputs, Negative common (PNP)	
	EX260-SPR2-X117	PROFIBUS DP M12 connector, 32 outputs, Positive common (NPN)	
	EX260-SPR3-X117	PROFIBUS DP M12 connector, 16 outputs, Negative common (PNP)	
	EX260-SPR4-X117	PROFIBUS DP M12 connector, 16 outputs, Positive common (NPN)	
	EX260-SDN1-X117	DeviceNet [™] M12 connector, 32 outputs, Negative common (PNP)	
	EX260-SDN2-X117	DeviceNet [™] M12 connector, 32 outputs, Positive common (NPN)	
	EX260-SDN3-X117	DeviceNet [™] M12 connector, 16 outputs, Negative common (PNP)	
	EX260-SDN4-X117	DeviceNet [™] M12 connector, 16 outputs, Positive common (NPN)	
	EX260-SEC1-X117	EtherCAT M12 connector, 32 outputs, Negative common (PNP)	
	EX260-SEC2-X117	EtherCAT M12 connector, 32 outputs, Positive common (NPN)	
	EX260-SEC3-X117	EtherCAT M12 connector, 16 outputs, Negative common (PNP)	
EX260 SI unit	EX260-SEC4-X117	EtherCAT M12 connector, 16 outputs, Positive common (NPN)	
LAZOU SI UIIIL	EX260-SMJ1-X117	CC-Link M12 connector, 32 outputs, Negative common (PNP)	
	EX260-SMJ2-X117	CC-Link M12 connector, 32 outputs, Positive common (NPN)	
	EX260-SMJ3-X117	CC-Link M12 connector, 16 outputs, Negative common (PNP)	
	EX260-SMJ4-X117	CC-Link M12 connector, 16 outputs, Positive common (NPN)	
	EX260-SPN1-X117	PROFINET M12 connector, 32 outputs, Negative common (PNP)	
	EX260-SPN2-X117	PROFINET M12 connector, 32 outputs, Positive common (NPN)	
	EX260-SPN3-X117	PROFINET M12 connector, 16 outputs, Negative common (PNP)	
	EX260-SPN4-X117	PROFINET M12 connector, 16 outputs, Positive common (NPN)	
	EX260-SEN1-X117	EtherNet/IP™ M12 connector, 32 outputs, Negative common (PNP)	
	EX260-SEN2-X117	EtherNet/IP™ M12 connector, 32 outputs, Positive common (NPN)	
	EX260-SEN3-X117	EtherNet/IP™ M12 connector, 16 outputs, Negative common (PNP)	
	EX260-SEN4-X117	EtherNet/IP™ M12 connector, 16 outputs, Positive common (NPN)	
EX126 SI unit	EX126D-SMJ1-X220	CC-Link (Terminal block, 16 outputs, Positive common (NPN))	

Valve Mounting Screw Part No.

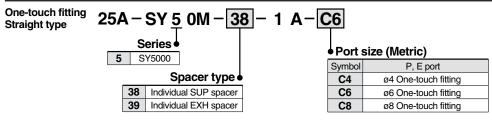
Description	Part no. 25A-SS5Y5	Note
Round head combination screw	SY5000-223-1A	Part numbers shown on the left are for 10 valves. (20 pcs.)

One-touch Fittings Part No.

		Port size	25A-SY5000
A D Matria		ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
A, B port	Metric size	ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6
		ø8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8
P, E	Metric	ø10 One-touch fitting	90-VVQ2000-51A-C10
port	size	(Straight type)	90-V VG2000-5 IA-C IU

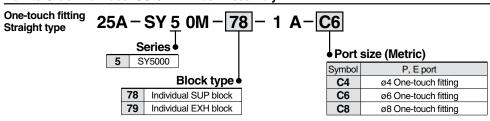
Manifold Options





Part numbers of mounting screw (2 pcs. of each) SY5000: SY5000-223-2A

How to Order Individual SUP/EXH Block Assembly



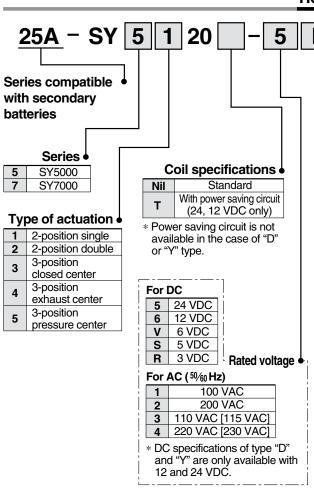


5 Port Solenoid Valve Body Ported/Single Unit

Series 25A-SY5000/7000

01

How to Order



Electrical entry

24, 12, 6,	5, 3 VDC/100	, 110, 200, 22	0 VAC	24, 12 VDC/ 100, 110, 200, 220 VAC
Grommet	L plug connector	M plug c	onnector	DIN terminal
G : With lead wire (Length 300 mm)				D,Y: With connector
H: With lead wire (Length 600 mm)	LN: Without lead wire	LO: Without connector	MO: Without connector	*

- * "LN", "MN" type: with 2 sockets.
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
- * Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.

A, B port size Thread piping

	Symbol	Port size	Applicable series
	01	Rc 1/8	SY5000
02		Rc 1/4	SY7000

One-touch fitting (Metric size)

ool Port size	Applicable series
One-touch fitting for ø4	
One-touch fitting for ø6	SY5000
One-touch fitting for ø8	
One-touch fitting for ø8	SY7000
One-touch fitting for ø10	317000
	One-touch fitting for ø4 One-touch fitting for ø6 One-touch fitting for ø8 One-touch fitting for ø8

Manual override

Nil: Non-locking push type	D : Push-turn locking slotted type	E: Push-turn locking lever type

Light/surge voltage suppressor

Electrical entry for G, H, L, M Without light/surge

Nil	Without light/surge			
1411	voltage suppressor			
S	With surge			
3	voltage suppressor			
Z	With light/surge			
	voltage suppressor			
R	With surge voltage suppressor			
n	(Non-polar type)			
U	With light/surge voltage suppressor			
U	(Non-polar type)			
There is no "C" time for AC made				

Electrical entry for D, Y					
Nil	Without light/surge				
1411	voltage suppressor				
s	With surge				
5	voltage suppressor				
Z	With light/surge				
	voltage suppressor				
* There is no "S" type for AC					

mode, since a rectifier prevents surge voltage

generation.

- * There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.
- For "R" and "U", DC voltage is only available.
- * Power saving circuit is only available in the "Z" type.

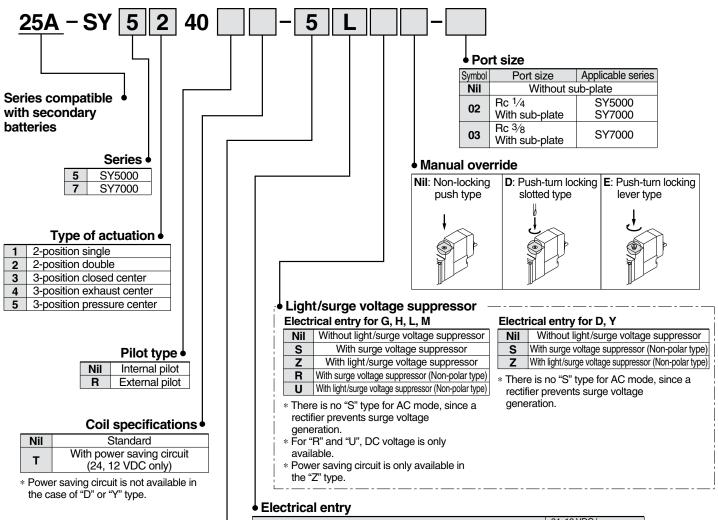
Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary.



5 Port Solenoid Valve Base Mounted/Single Unit

Series 25A-SY5000/7000

How to Order



24, 1	24, 12, 6, 5, 3 VDC / 100, 110, 200, 220 VAC				
Grommet	L plug connector	tor M plug connector		DIN terminal	
G: With lead wire (Length 300 mm)	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300 mm)		D,Y: With connector	
H: With lead wire	LN: Without		MO: Without		
(Length 600 mm)	lead wire	connector	connector		

* "LN", "MN" type: with 2 sockets.

For DC

5 24 VDC
6 12 VDC
V 6 VDC

5 VDC

3 VDC

S

R

100 VAC

200 VAC 110 VAC [115 VAC]

4 220 VAC [230 VAC]

DC specifications of type "D" and "Y" are only available with 12 and 24 VDC.

- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
- * Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.



* Specifications and dimensions for the 25A-series are the same as standard products.

For AC (50/60 Hz)

2

3

5 Port Solenoid Valve Body Ported Manifold Bar Stock Type/Individual Wiring

Туре 20

Series 25A-SY5000/7000

How to Order Manifold

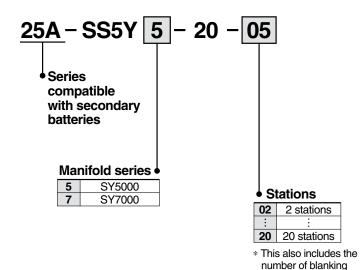
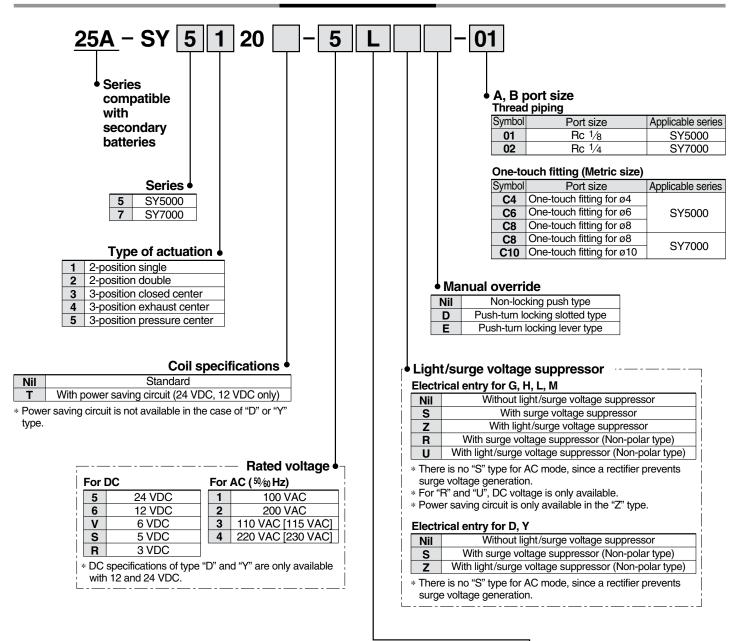


plate assemblies.

^{*} Specifications and dimensions for the 25A-series are the same as standard products. However, the blanking plate assembly has different dimensions. Refer to page 40.

Series 25A-SY5000/7000

How to Order Valves



Electrical entry

24, 12,	24, 12 VDC/ 100, 110, 200, 220 VAC		
Grommet	L plug connector	M plug connector	DIN terminal
G: With lead wire (Length 300 mm) H: With lead wire (Length 600 mm)	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	D: With connector Y: With connector

^{* &}quot;LN", "MN" type: with 2 sockets.

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



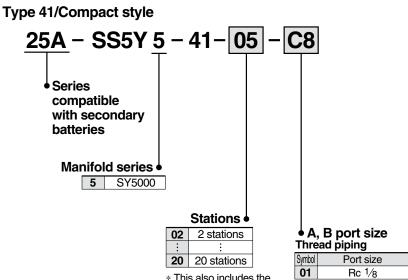
^{* &}quot;Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).

^{*} Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.



5 Port Solenoid Valve **Base Mounted Manifold Bar Stock Type/Individual Wiring** Series 25A-SY5000/7000

How to Order Manifold



 This also includes the number of blanking plate assemblies.

7			
	Symbol	Port size	Applicable series
	01	Rc 1/8	SY5000

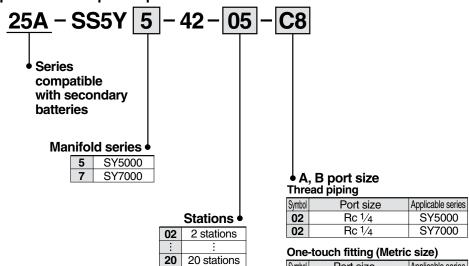
One-touch fitting (Metric size)

	· · · · · · · · · · · · · · · · · · ·	
Symbol	Port size	Applicable series
C6	One-touch fitting for ø6	SY5000
C8	One-touch fitting for Ø8	313000

One-touch fitting (Inch size)

S	Symbol	Port size	Applicable series
	N7	One-touch fitting for ø 1/4"	SY5000
	N9	One-touch fitting for ø5/16"	313000

Type 42/External pilot capable



* This also includes the number of blanking plate assemblies.

One	Offe-todoff fitting (wettic 3ize)					
Symbol	Port size	Applicable series				
C6	One-touch fitting for ø6	SY5000				
C8	One-touch fitting for ø8	315000				
C10	One-touch fitting for ø10	SY7000				

One-touch fitting (Inch size)

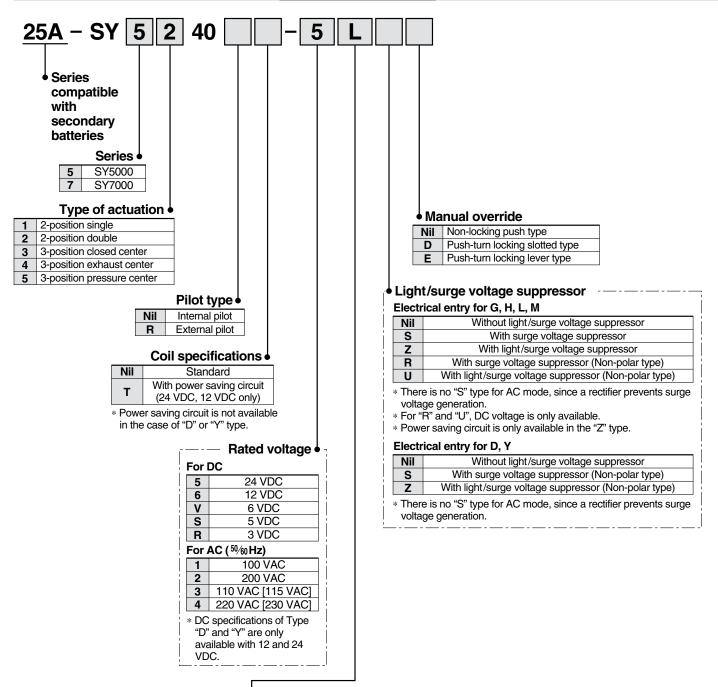
		to aron manning (mioni or	,
1	Symbol	Port size	Applicable series
1		One-touch fitting for ø 1/4"	SY5000
	N9	One-touch fitting for ø 5/16"	315000
1	N11	One-touch fitting for ø 3/8"	SY7000

^{*} Specifications and dimensions for the 25A-series are the same as standard products. However, the blanking plate assembly has different dimensions. Refer to page 40.



Series 25A-SY5000/7000

How to Order Valves



Electrical entry

24, 12,	24, 12 VDC/ 100, 110, 200, 220 VAC		
Grommet	L plug connector	M plug connector	DIN terminal
G: With lead wire (Length 300 mm) H: With lead wire (Length 600 mm)	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	D: With connector Y: With connector

^{* &}quot;LN", "MN" type: with 2 sockets.

^{*} Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.



 Specifications and dimensions for the 25A-series are the same as standard products.

^{* &}quot;Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).

##

One-touch Fittings Part No. for Body Ported

Port size		25A-SY5000	25A-SY7000	
	ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4		
Cylinder port	Metric size Ø6 One-touch fitting (Straight type) 90-VVQ1000-51A-C6 Ø8 One-touch fitting (Straight type) 90-VVQ1000-51A-C8	ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6	
Cylinder port		90-VVQ1000-51A-C8	90-VVQ2000-51A-C8	
		ø10 One-touch fitting (Straight type)		90-VVQ2000-51A-C10

Gasket Assembly Part No.

Valve model	Manifold type	25A-SY5000	25A-SY7000
Body ported	Type 20	SY5000-GS-3	SY7000-GS-3
Base mounted	Type 41/42	SY5000-GS-4	SY7000-GS-4

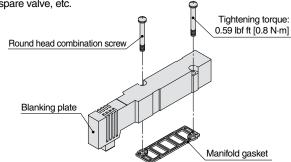
^{*} The gasket assembly includes 10 sets of a gasket and mounting screws.

Manifold Options

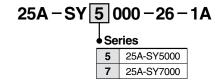
■ Blanking plate assembly

(Mounting screw: 2 pcs., with gasket)

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



How to Order



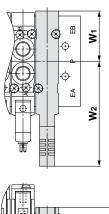
5 Port Solenoid Valve Series 25A-SY5000/7000

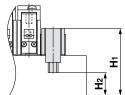
⚠ Caution

When mounted on a type 20 manifold, only the P port is plugged.

Dimensions

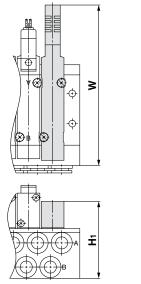
Manifold type/For type 20





Dimensions					(mm)
Series	Manifold type	W1	W2	H1	H 2
25A-SY5000	Type 20	33.3	69.6	44.5	15.2
25A-SY7000	Type 20	39.4	76.4	41.1	18.3

Manifold type/For type 41/42



Dimensions (mm)				
Series	Manifold type	w	H1	H ₂
25A-SY5000	Type 41	106.4	51	21.7
	Type 42	107.6	56	26.7
25A-SY7000	Type 42	118.1	55.6	32.8



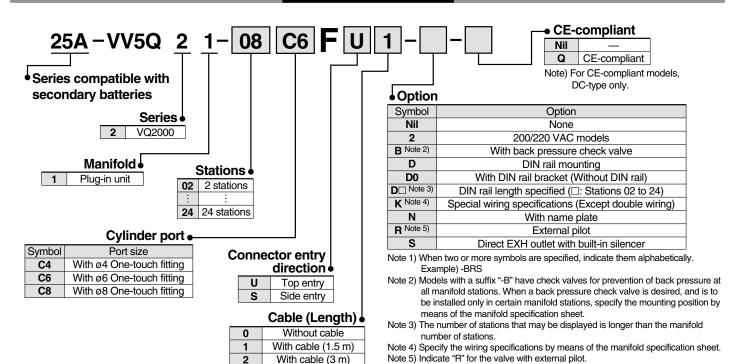
Plug-in Unit/Base Mounted F Kit (D-sub connector kit)

Series 25A-VQ2000

How to Order Manifold

Note) For CE-compliant models, DC-type only.





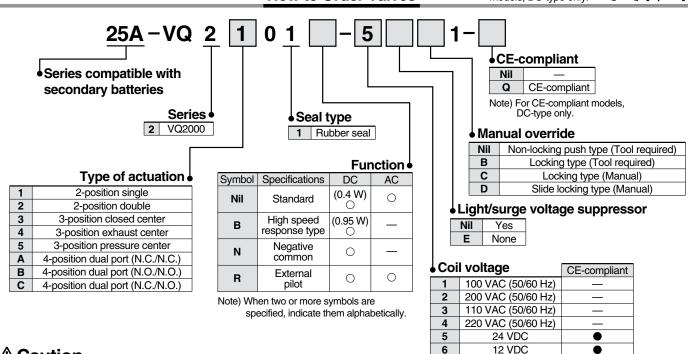
How to Order Valves

With cable (5 m)

3

Note) For CE-compliant models, DC-type only.





△Caution

Use the standard (DC) specification when continuously energizing for long periods of time.

* Specifications and dimensions for the 25A-series are the same as standard products.



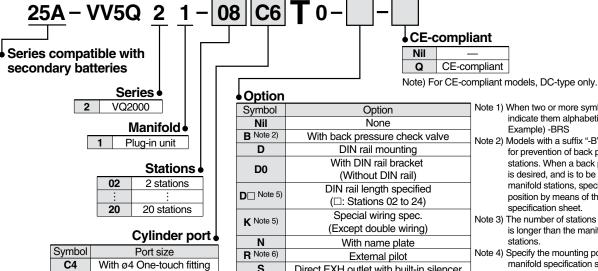
Plug-in Unit/Base Mounted T Kit (Terminal block box kit)

Series 25A-VQ2000

How to Order Manifold

Note) For CE-compliant models, DC-type only.





S

W

Note 1) When two or more symbols are specified, indicate them alphabetically. Example) -BRS

- Note 2) Models with a suffix "-B" have check valves for prevention of back pressure at all manifold stations. When a back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position by means of the manifold specification sheet.
- Note 3) The number of stations that may be displayed is longer than the manifold number of
- Note 4) Specify the mounting position by means of the manifold specification sheet.

CE-compliant

Dustproof

Dust-tight/Water-jet-proof type

(IP65)

Non-locking push type (Tool required)

Locking type (Tool required)

Locking type (Manual)

Slide locking type (Manual)

CE-compliant Note) For CE-compliant

models, DC-type only.

- Note 5) Specify the wiring specifications by means of the manifold specification sheet.
- Note 6) Indicate "R" for the valve with external pilot.

How to Order Valves

Direct EXH outlet with built-in silencer

Enclosure: Dust-tight,

Water-jet-proof (IP65)

Note) For CE-compliant models, DC-type only.

Enclosure

Manual override

Light/surge voltage suppressor

В

С

Yes

None

Ε



25A-VQ 2 Series compatible with Series • **2** VQ2000 secondary batteries Type of actuation 2-position single 2 2-position double 3 3-position closed center 4 3-position exhaust center 5 3-position pressure center A

В

With ø6 One-touch fitting

With ø8 One-touch fitting

4-position dual port (N.C./N.C.) 4-position dual port (N.O./N.O.) 4-position dual port (N.C./N.O.) Seal type 1 Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard (0.4 W)		0
В	High speed (0.95 W)		
	response type	0	
N	Negative		
.,	common		
R	External		
n	pilot		

Note) When two or more symbols are specified, indicate them alphabetically. Combination of "B" and "K" is not possible.

Coil voltage CE-compliant 100 VAC (50/60 Hz) 110 VAC (50/60 Hz) 5 24 VDC 6 12 VDC

* Specifications and dimensions for the 25A-series are the same as standard products.

∆Caution

Use the standard (DC) specification when continuously energizing for long periods of time.

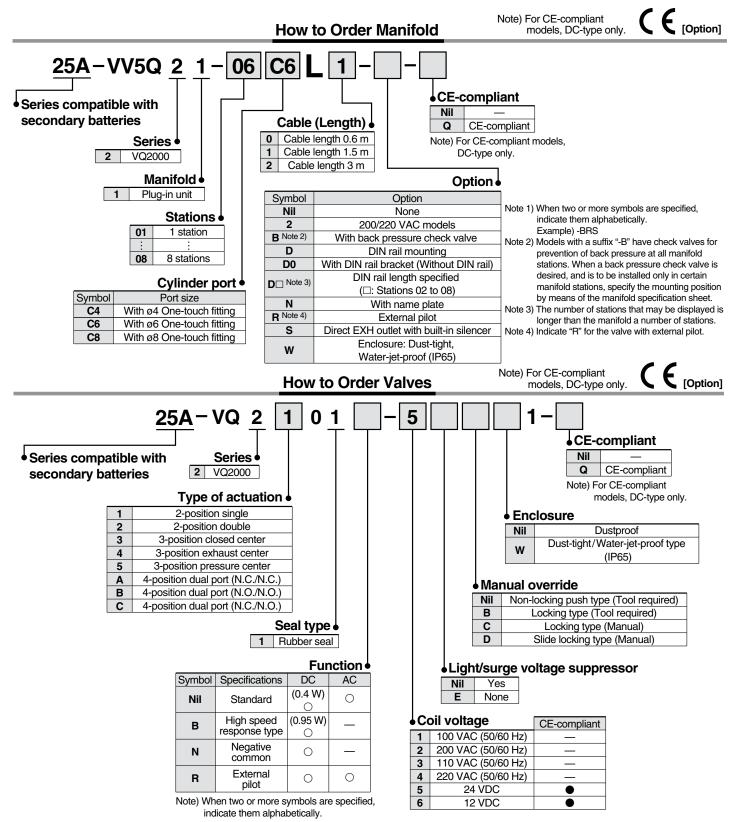
C6

C8

42

Plug-in Unit/Base Mounted L Kit (Lead wire)

Series 25A-VQ2000



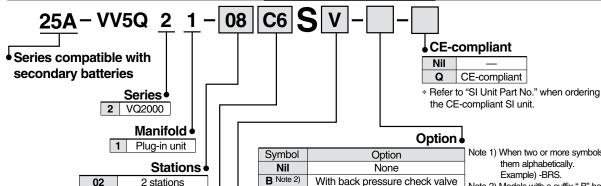
Plug-in Unit/Base Mounted S Kit (Serial transmission)

Series 25A-VQ2000



No." when ordering the CE-compliant SI unit.





16 Note)	16 stations			
Note) Max. 16 stations.				
(Sp	pecify a model with 9			
to	16 stations by means			
of t	he manifold			
spe	ecification sheet.)			

Cylinder port

Symbol	Port size	
C4	With ø4 One-touch fitting	
C6	With ø6 One-touch fitting	
C8	With ø8 One-touch fitting	

SI unit specifications

Symbol	Protocol	Stations
0	Without SI unit	_
Q	DeviceNet™ System	Max.16
V	CC-Link	stations

	Symbol	Option	
	Nil	None	
B Note 2) With back pressure check va		With back pressure check valve],
	D	DIN rail mounting] ''
D□ Note 3)		DIN rail length specified]
		(□: Stations 02 to 16)	
K Note 4)		Special wiring specifications]
		(Except double wiring)	\ \
N		With name plate] '`
	R Note 5)	With external pilot	N
S	Direct EXH outlet	1	
	with built-in silencer	N	

SI Unit Part No.

W Note 6)

Symbol	Protocol	SI unit part no.
Q	DeviceNet™	EX120-SDN1-X220
V	CC-Link	EX120-SMJ1-X220

Enclosure: Dust-tight,

Water-jet-proof (IP65)

Note 1) When two or more symbols are specified, indicate them alphabetically. Example) -BRS.

- Note 2) Models with a suffix "-B" have check valves for prevention of back pressure at all manifold stations. When a back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position by means of the manifold specification sheet.
- Note 3) The number of stations that may be displayed is longer than the manifold number of stations.
- Note 4) Specify the wiring specifications by means of the manifold specification sheet.
- Note 5) Indicate "R" for the valve with external pilot. Note 6) Refer to "Dimensions" of the standard products for SI unit and valve, in case of "W" (Dust-tight,

SI Unit Part No. (With option W)

Enclosure

Nil

Symbol	Protocol	SI unit part no.
Q	DeviceNet™	EX124D-SDN1-X220
V	CC-Link	EX124D-SMJ1-X220

How to Order Valves

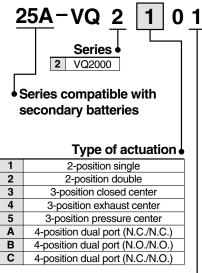


Dustproof

Dust-tight/Water-jet-proof type

(IP65)

surge voltage suppressor



Seal type 🕯 1 Rubber seal

CE-compliant Manual override

♦ CE-compliant

1	Ιiν	Non-locking push type (Tool required)
	В	Locking type (Tool required)
	၁	Locking type (Manual)
	D	Slide locking type (Manual)

—•Coil voltage			
24 VDC;		24 VDC;	
	5 With indicator light/		

Function				
Symbol	Specifications	DC		
Nil	Standard	(0.4 W)		
В	High speed response type	(0.95 W)		
N Note 1)	Negative common	0		
R Note 1)	External	0		

Note 1) External pilot and negative common specifications are the same as standard products.

Note 2) When two or more symbols are specified, indicate them alphabetically.

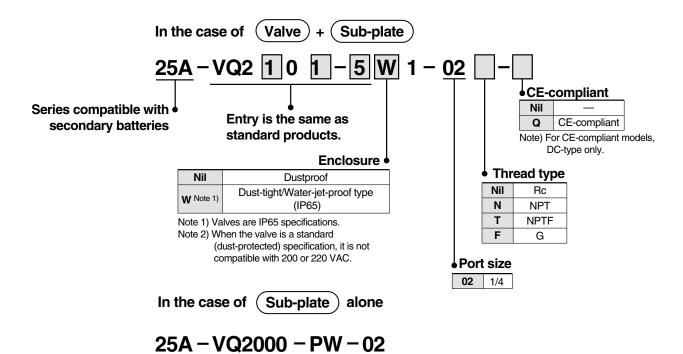
^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Sub-plate Single Unit Series 25A-VQ2000

How to Order

Note) For CE-compliant models, DC-type only.





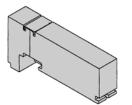
^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Manifold Options

Blanking plate assembly

25A-VVQ2000V-10A-1

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



* Specifications and dimensions for the 25A-series are the same as standard products.

SI Unit Part No.

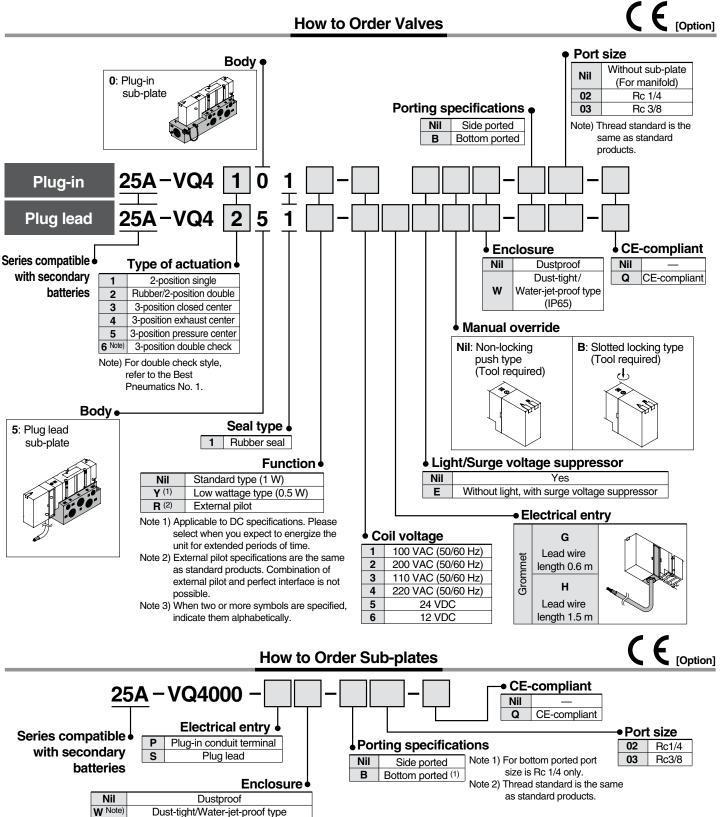
Description	SI unit part no.	Note
EX124 SI unit	EX124D-SMJ1-X220	CC-Link
EX 124 SI unit	EX124D-SDN1-X220	DeviceNet TM
EV100 Clumit	EX120-SMJ1-X220	CC-Link (VQ2000/Without option "W")
EX120 SI unit	EX120-SDN1-X220	DeviceNet TM (VQ2000/Without option "W")

One-touch Fittings Part No.

one todain runige run run			
Port size			One-touch fitting part no.
		ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
Cylinder port M	Metric size	ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6
		ø8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8
1 (P), 3 (R) port	Metric size	ø10 One-touch fitting (Straight type)	90-VVQ2000-51A-C10

Plug-in/Plug Lead: Single Unit Base Mounted

Series 25A-VQ4000



Note) It is not necessary for plug lead type.

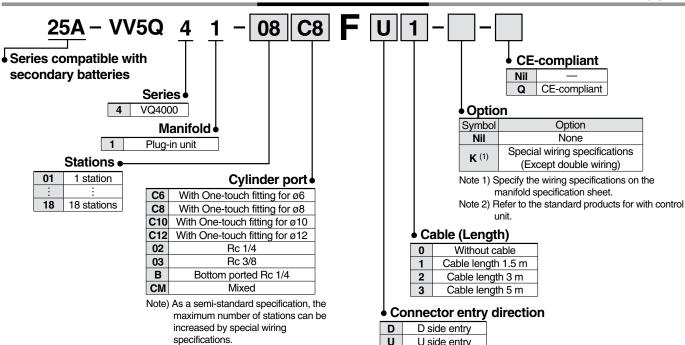
[Option]

Plug-in Unit/Base Mounted F Kit (D-sub connector kit)

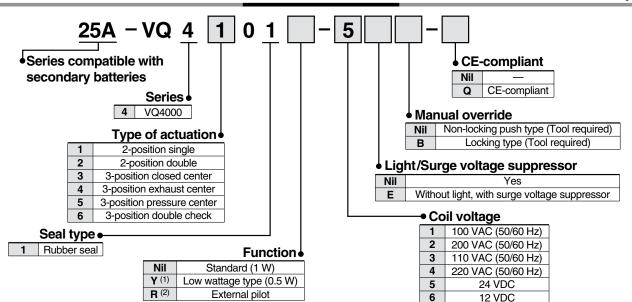
Series 25A-VQ4000

How to Order Manifold





How to Order Valves



Note 1) Applicable to DC specifications. Please select when you expect to energize the unit for extended periods of time.

Note 2) External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.

Note 3) When two or more symbols are specified, indicate them alphabetically.

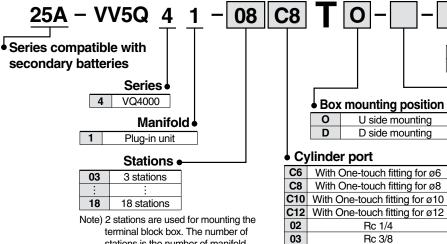
* Specifications and dimensions for the 25A-series are the same as standard products.

Plug-in Unit/Base Mounted T Kit (Terminal block box kit)

Series 25A-VQ4000

How to Order Manifold

[Option]



stations is the number of manifold valves plus 2 stations for the terminal block box. For 13 stations or more, specify the wiring specifications by means of the manifold specification sheet.

Note 3) When two or more symbols are specified, indicate them

alphabetically.

CE-compliant Option Symbol Option Box mounting position Nil None U side mounting Special wiring specifications D side mounting **K** (2) (Except double wiring, for 13 stations or more) N (3) Name plate C6 With One-touch fitting for ø6 w IP65 enclosure With One-touch fitting for ø8

CE-compliant

- Note 1) When two or more symbols are specified, indicate them alphabetically. Example) -KM
- Note 2) Specify the wiring specifications on the manifold specification sheet.
- Note 3) Name plate is inlaid in the terminal block cover.
- Note 4) With control unit is the same as standard products.

How to Order Valves

Bottom ported Rc 1/4

Mixed

the maximum number of stations

can be increased by special wiring

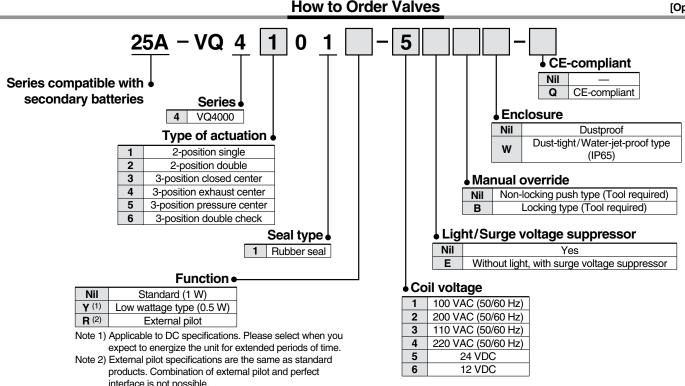
Note) As a semi-standard specification,

specifications.

В

СМ



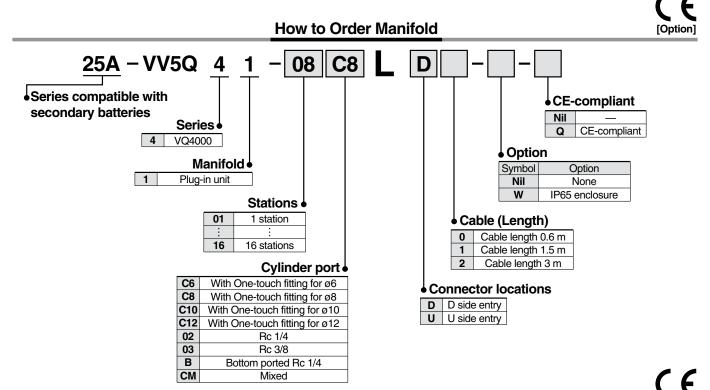


* Specifications and dimensions for the 25A-series are the same as standard products.

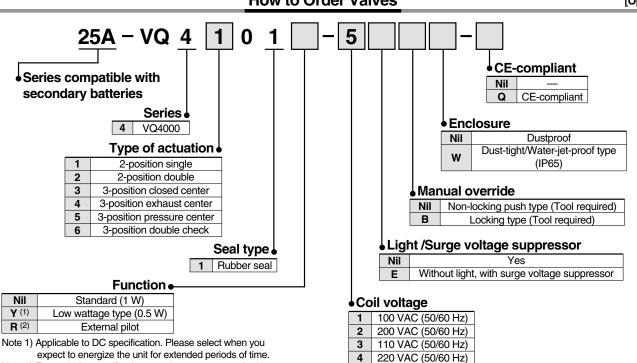


Plug-in Unit/Base Mounted L Kit (Lead wire cable)

Series 25A-VQ4000



How to Order Valves



Note 2) External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.

Note 3) When two or more symbols are specified, indicate them alphabetically.

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



5

6

24 VDC

12 VDC

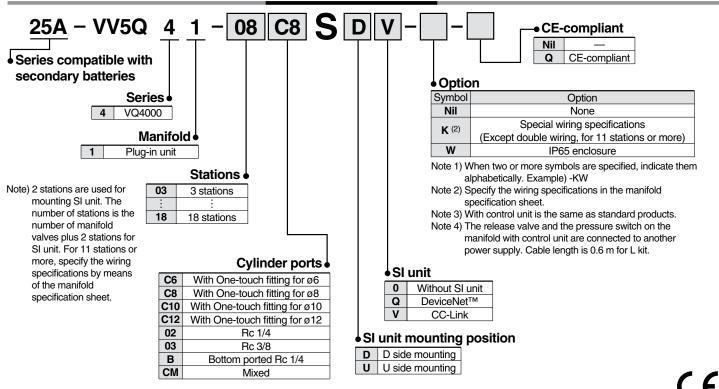
Plug-in Unit/Base Mounted S Kit (Serial transmission unit)

Series 25A-VQ4000

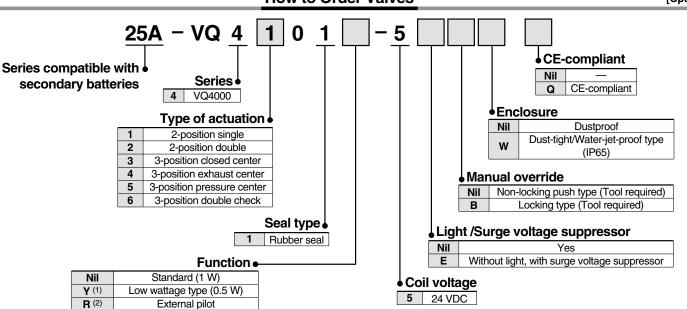
How to Order Manifold

Note) Refer to "SI Unit Part No." when ordering the CE-compliant SI unit.





How to Order Valves



SMC

Note 1) Applicable to DC specifications. Please select when you expect to energize the unit for extended periods of time.

Note 2) External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.

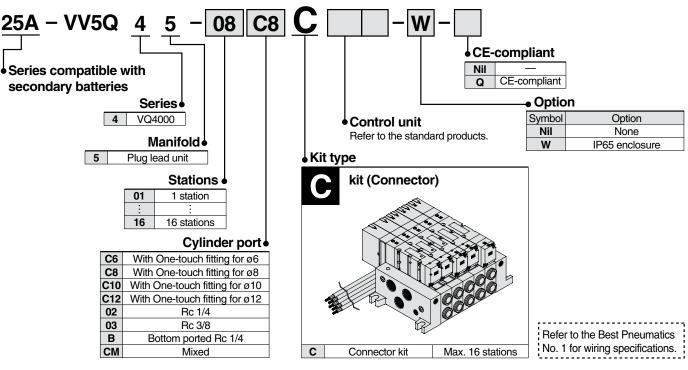
Note 3) When two or more symbols are specified, indicate them alphabetically.

* Specifications and dimensions for the 25A-series are the same as standard products.

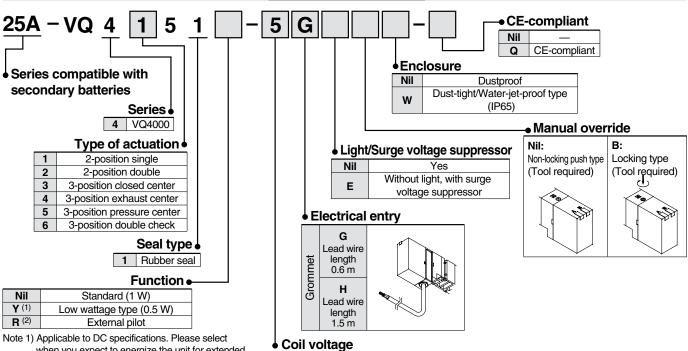
Plug Lead Unit/Base Mounted C Kit (Connector kit)

Series 25A-VQ4000

How to Order Manifold



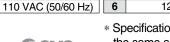
How to Order Valves



when you expect to energize the unit for extended periods of time.

Note 2) External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.

Note 3) When two or more symbols are specified, indicate them alphabetically.



* Specifications and dimensions for the 25A-series are the same as standard products.

220 VAC (50/60 Hz)

24 VDC

12 VDC



100 VAC (50/60 Hz)

200 VAC (50/60 Hz)

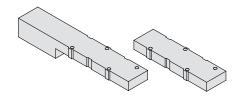
Series 25A-VQ4000

Manifold Options

Blanking plate assembly

25A-VVQ4000-10A-1 (Plug-in type) 25A-VVQ4000-10A-5 (Plug lead type)

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



* Specifications and dimensions for the 25A-series are the same as standard products.

SI Unit Part No.

Description	Description SI unit part no.	
	EX124D-SMJ1-X220	CC-Link/D side mounting
EX124 SI unit	EX124D-SDN1-X220	DeviceNet™/D side mounting
EX 124 SI UIIII	EX124U-SMJ1-X220	CC-Link/U side mounting
	EX124U-SDN1-X220	DeviceNet™/U side mounting

One-touch Fittings Part No.

one todon'i tungo'i artitoi					
Port size			One-touch fittings part no.		
Cylinder port Metric size		ø6 One-touch fitting (Straight type)	90-VVQ4000-50B-C6		
	Matria aina	ø8 One-touch fitting (Straight type)	90-VVQ4000-50B-C8		
	Metric Size	ø10 One-touch fitting (Straight type)	90-VVQ4000-50B-C10		
		ø12 One-touch fitting (Straight type)	90-VVQ4000-50B-C12		

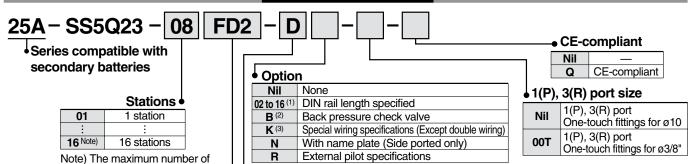


Plug-in Unit

Series 25A-SQ2000



How to Order Manifold



stations depends on the type of electrical entries.

Manifold mounting

D	DIN rail mounting
E Note)	Direct mounting

Note 1) Specify DIN rail length with "D□" at the end. (Enter the number of stations inside □.)

The number of stations that may be displayed is longer than the manifold number of stations.

Example: -D08

Note 2) When installing back pressure check valves only on the stations required, enter the part number and specify the mounting stations on a manifold specification sheet.

Note 3) Standard wiring specifications are for double wiring. Indicate wiring specifications for single wiring or mixed single and double wiring, or when exceeding the standard maximum number of stations. (Except L kit.)

Note 4) For specifying two or more options, enter them alphabetically. Example: -BKN * Manifold option parts are the same as standard products.

Electrical entry

Liecuicai enu y						
Kit type		Lead wire connector location	Cable specifications	Station	Max. number of stations for special wiring specifications	Max. number of solenoids
F kit The electric parts are made of copper. D-sub D side Connector kit Wounting screw D-sub D side Boly Stainless Boly Stainless	FD1 FD2	D side	D-sub connector (25P) kit, without cable D-sub connector (25P) kit, with 1.5 m cable D-sub connector (25P) kit, with 3.0 m cable D-sub connector (25P) kit, with 5.0 m cable	1 to 12 stations	16 stations	24
T kit Terminal block box kit	TD0	D side	Terminal block box kit	1 to 10 stations	16 stations	16
kit Mounting screw: Stainless steel	LD0 LU0	D side U side	Lead wire kit with 0.6 m cable			
	LD1 LU1	D side U side	Lead wire kit with 1.5 m cable	1 to 12 stations	_	_
One-touch fitting Lead wire kit Body: Stainless stee	LD2 LU2	D side U side	Lead wire kit with 3.0 m cable			
Mounting screw:Stainless stee The electric parts are made	SDQ	Daida	DeviceNet [™]	1 to 8 stations	16 stations	16
One-touch fitting Body: Stainless stee Serial transmission kit EX140 integrated-type (for output) serial transmission system (3)	SDV	D side	CC-Link	1 to 8 stations	16 stations	16

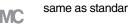
Note 1) The maximum number of stations should not be more than the maximum number of solenoids. (The number of solenoids are counted as: 1 for single solenoids and 2 for type 3P and 4P double solenoids.)

Note 2) Refer to the Best Pneumatics No. 1 for the details of EX140 integrated-type (for output) serial transmission system. Refer to "SI unit part no." when ordering the CE-compliant SI unit.

SI unit part no.

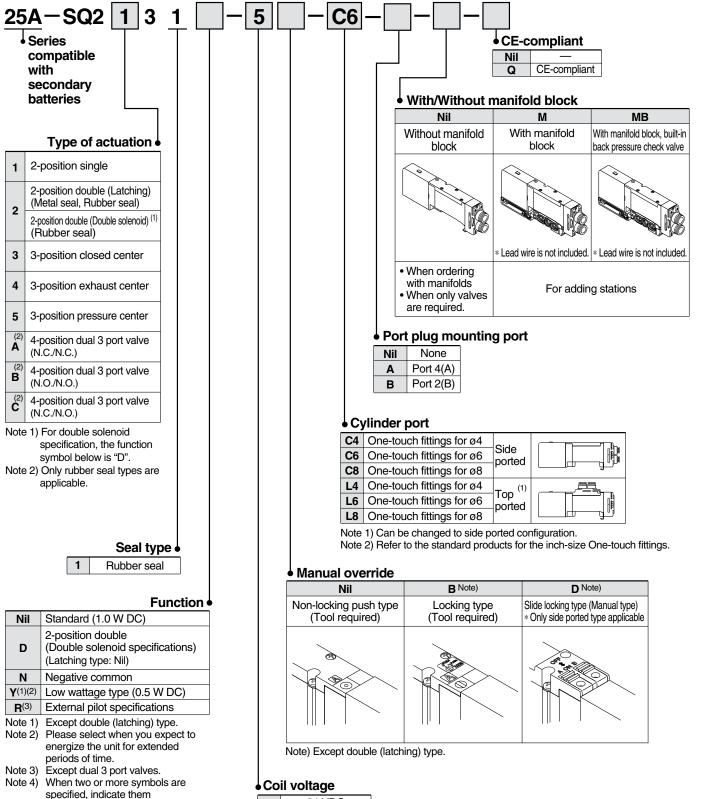
Symbol	Protocol type	SI unit part no.	Page
SDQ	DeviceNet™	EX140-SDN1-X220	P.58
SDV	CC-Link	EX140-SMJ1-X220	F.30

Blanking plate assembly





How to Order Valves



5	24 VDC
6	12 VDC

Note 1) Light/Surge voltage suppressor is built-in.

Note 2) S kit: 24 VDC only

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



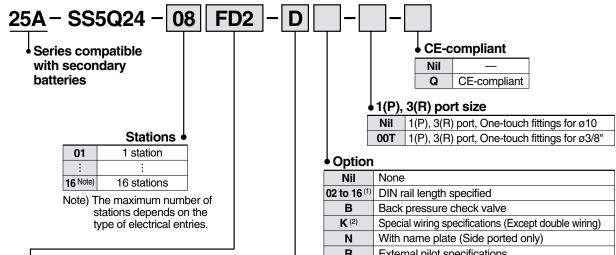
alphabetically.

Plug Lead Unit

Series 25A-SQ2000



How to Order Manifold



Manifold mounting

D	DIN rail mounting	DI
E Not	Direct mounting	D

Note) Type "E" is only available with a C kit.

External pilot specifications Note 1) Specify DIN rail length with "D□" at the end. (Enter the number of

stations inside \square .)

The number of stations that may be displayed is longer than the manifold number of stations.

Example: -D08

Note 2) When installing back pressure check valves only on the stations required, enter the part number and specify the mounting stations on a manifold specification sheet.

Note 3) Standard wiring specifications are for double wiring. Indicate wiring specifications for single wiring or mixed single and double wiring, or when exceeding the standard maximum number of stations. (Except C kit.)

Note 4) For specifying two or more options, enter them alphabetically. Example: -BKN

* Manifold option parts are the same as standard products.

Electrical entry

Kit type		Lead wire connector location	Cable specifications	Stations	Max. number of stations for special wiring specifications	Max. number of solenoids
Mounting screw: Stainless steel	FD0		D-sub connector (25P) kit, without cable			
The electric Uside	FD1	D .:	D-sub connector (25P) kit, with 1.5 m cable	1 to 12 stations	16 stations	24
parts are made D side of copper. One-touch fitting	FD2	D side	D-sub connector (25P) kit, with 3.0 m cable	1 10 12 314110113		
D-sub connector kit Body: Stainless steel	FD3		D-sub connector (25P) kit, with 5.0 m cable			
Connector kit Mounting screw. Stainless steel One-touch fitting Body: Stainless steel	С	_	Connector kit	1 to 16 stations	_	_

Note 1) The maximum number of stations should not be more than the maximum number of solenoids. (The number of solenoids are counted as: 1 for single solenoids and 2 for type 3P and 4P double solenoids.)

Blanking plate assembly

25A-SSQ2000-10A-4

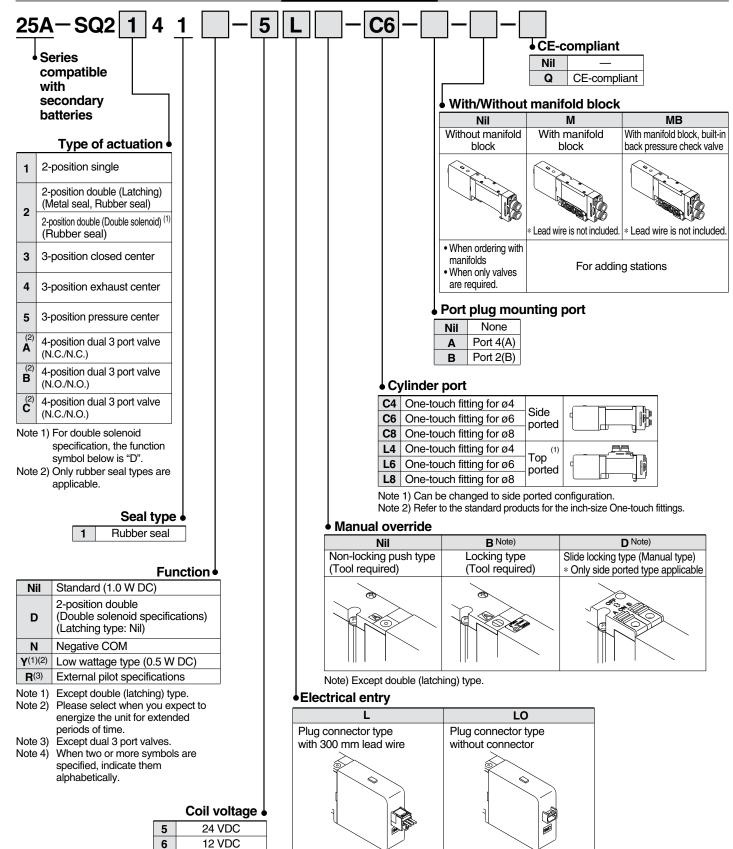
* Specifications and dimensions for the 25A-series are the same as standard products.



^{*} Refer to the Best Pneumatics No. 1 for manifold spare parts.

(E

How to Order Valves



Note) Indicate "LO" when ordering centralized wiring type manifolds, F, P, and J kits, since the lead wire will be attached to the manifold side.

For F, P, J kit manifolds Note)

Note) Light/Surge

is built-in.

voltage suppressor

Specifications and dimensions for the 25A-series are the same as standard products.

SI Unit Part No.

Description	SI unit part no.	Note
EX140 SI unit	EX140-SMJ1-X220	CC-Link
	EX140-SDN1-X220	DeviceNet TM

One-touch Fittings Part No.

		One-touch fittings part no.	
		ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
Cylinder port	Metric size	ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6
		ø8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8
1(P), 3(R) port	Metric size	ø10 One-touch fitting (Straight type)	90-VVQ2000-51A-C10

Base Mounted

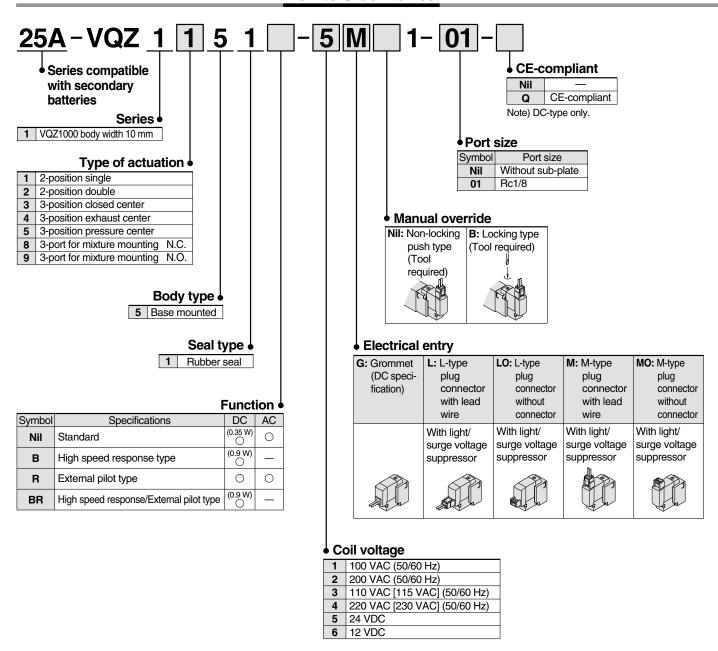
Plug Lead Unit

5 Port Solenoid Valve

Series 25A-VQZ1000 Single Unit



How to Order Valves





Use standard (DC) specification for continuous duty.

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



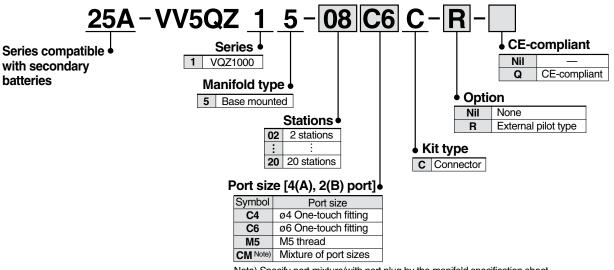
5 Port Solenoid Valve

Series 25A-VQZ1000

Manifold Connector Kit

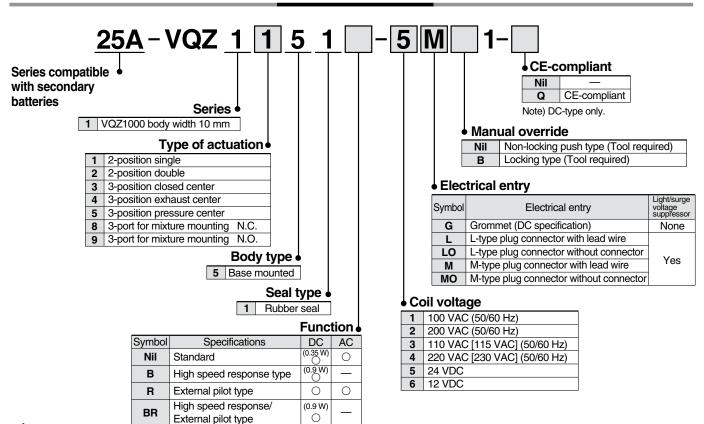


How to Order Manifold



Note) Specify port mixture/with port plug by the manifold specification sheet. Port mixture and port plug are available only for One-touch fitting type.

How to Order Valves









* Specifications and dimensions for the 25A-series are the same as standard products.

Air Cylinders

Related Products

Vacuum Air Grippers Actuators

Air Preparation Equipment

Clean Air Filters

Air Filters/Pressure
Control Equipment

Detection Switches

Fluid Control Equipment

Electric F Actuators

Auto Switches

Body Ported

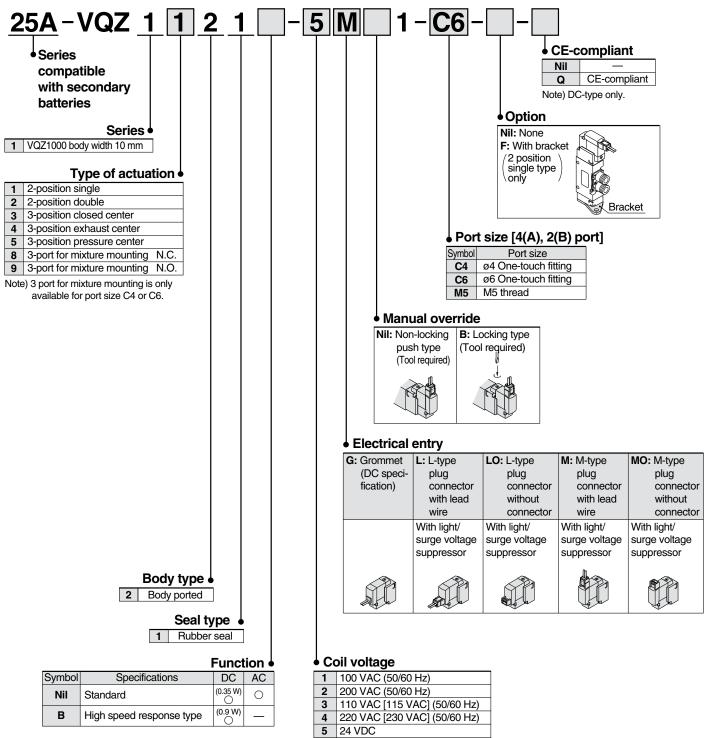
Plug Lead Unit

5 Port Solenoid Valve

Series 25A-VQZ1000 **Single Unit**



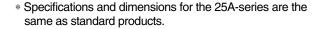
How to Order Valves







¹² VDC





Plug Lead Unit

5 Port Solenoid Valve

Series 25A-VQZ1000

Manifold Connector Kit



Air Cylinders

Related Products

Vacuum Air Grippers Actuators

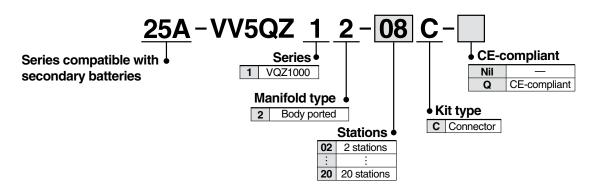
Air Preparation

Equipment

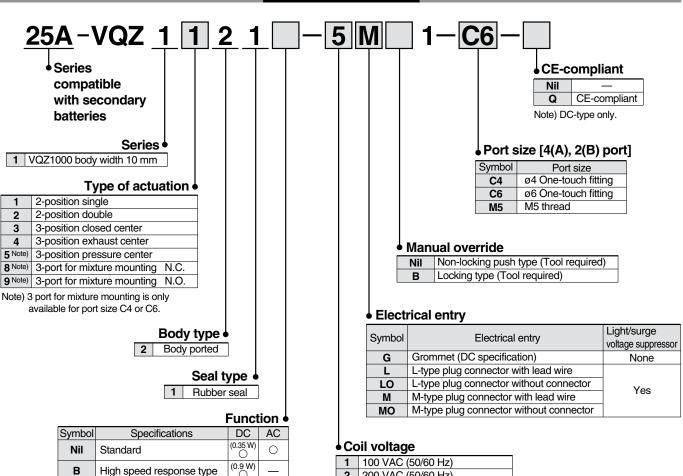
Clean Air Filters

Fittings/Flow Air Filters/Pressure Control Equipment Control Equipment

How to Order Manifold

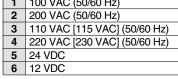


How to Order Valves





Use standard (DC) specification for continuous duty.

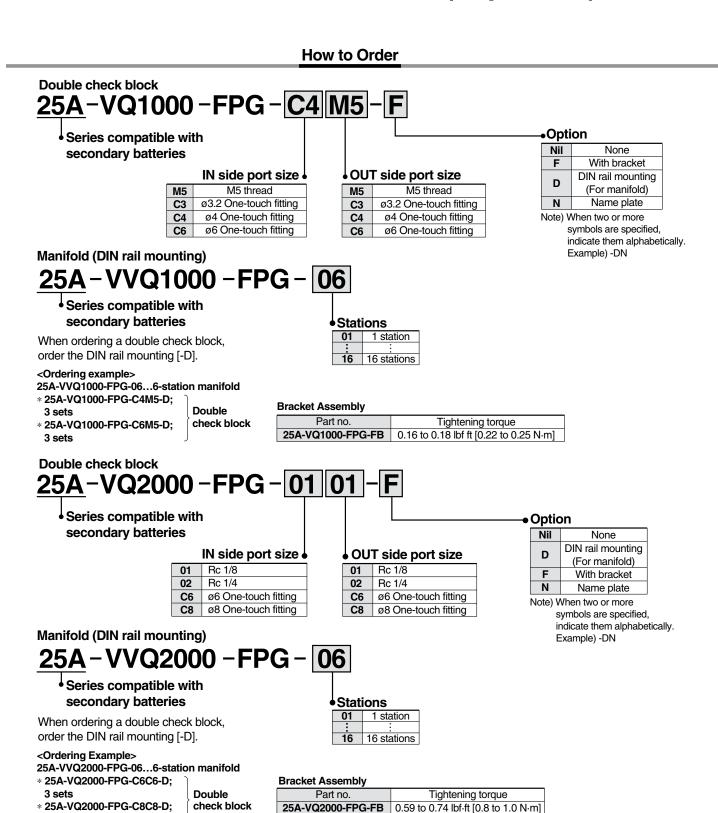


^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Auto Switches

Plug-in Unit Base Mounted

Series 25A-VQ1000/2000 Double check block (Separated)

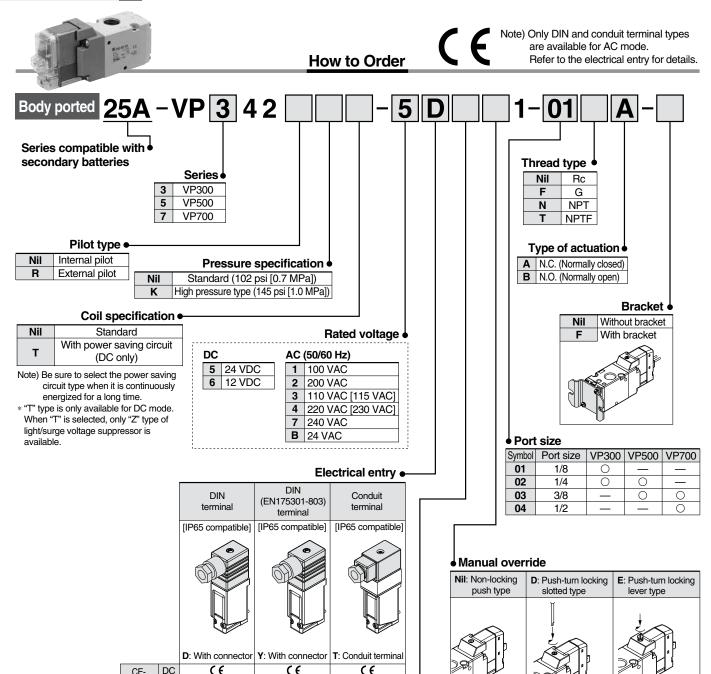


3 sets

AC

Rubber Seal 3 Port/Pilot Poppet Type

Series 25A-VP342/542/742



Light/surge voltage suppressor

Nil Without light/surge voltage suppress

 Nil
 Without light/surge voltage suppressor
 ○

 S
 With surge voltage suppressor
 ○
 Note)

 Z
 With light/surge voltage suppressor
 ○
 ○

 R
 With surge voltage suppressor (Non-polar)
 ○
 ─

 U
 With light/surge voltage suppressor (Non-polar)
 ○
 ─

Note) There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

compliant

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Rubber Seal 3 Port/Pilot Poppet Type

Series 25A-VP344/544/744

Note) Only DIN and conduit terminal types are available for AC mode. **How to Order** Refer to the electrical entry for details. 25A-VP 3 4 4 Base mounted Series compatible with secondary batteries Thread type Series • Nil Rc VP300 3 VP500 **NPT** Ν VP700 NPTF Type of actuation Pilot type ● A N.C. (Normally closed) Nil Internal pilot Pressure specifications B N.O. (Normally open) R External pilot Standard (102 psi [0.7 MPa]) High pressure type (145 psi [1.0 MPa]) Coil specifications • Port size (Sub-plate) Nil Standard Rated voltage Symbol Port size VP300 VP500 VP700 With power saving circuit Т Without sub-plate* DC AC (50/60 Hz) (DC only) 5 24 VDC 1 100 VAC Note) Be sure to select the power saving 02 1/4 $\overline{\bigcirc}$ 6 12 VDC 200 VAC circuit type when it is continuously 3/8 $\overline{\circ}$ \bigcirc 03 energized for a long time. 3 110 VAC [115 VAC] 1/2 0 * "T" type is only available for DC mode. 4 220 VAC [230 VAC] * With a gasket and two mounting bolts. When "T" is selected, only "Z" type of 240 VAC light/surge voltage suppressor is B 24 VAC available. Electrical entry DIN DIN terminal (EN175301-803) Conduit terminal terminal [IP65 compatible] [IP65 compatible] [IP65 compatible] Manual override Nil: Non-locking D: Push-turn locking E: Push-turn locking slotted type lever type D: With connector Y: With connector T: Conduit terminal DC ϵ CFcompliant Light/surge voltage suppressor DC AC Without light/surge voltage suppressor 0 0 Note) With surge voltage suppressor 0 Z With light/surge voltage suppressor 0 0

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



R

U

With surge voltage suppressor (Non-polar)

With light/surge voltage suppressor (Non-polar) Note) There is no "S" type for AC mode, since a rectifier prevents

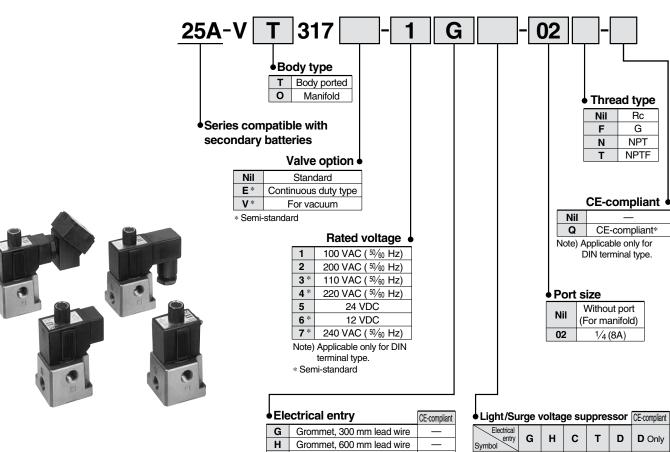
surge voltage generation.

3 Port Solenoid Valve **Direct Operated Poppet Type**

Series 25A-VT317 Rubber Seal

Note) CE-compliant: For DIN terminal type.



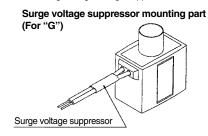


С Conduit Т Conduit terminal

DIN terminal

Light/Sι	CE-compliant					
Electrical entry Symbol	G	н	С	Т	D	D Only
Nil	_	_	_	_	_	•
S	Note)	Note)	Note)			•
7						

- S:With surge voltage suppressor Note) Refer to the figure below.
- Z: With light/surge voltage suppressor



Manifold

D

Model	Applicable manifold type	Accessory		
VO317(-Q)	Common or individual exhaust	O-ring (KA00066, 4 pcs.) Note) Bolts (XT012-25C#1, 2 pcs.)		

•

Note) It is not applied to "Continuous duty type". Refer to the accessories in the Best Pneumatics No. 1.

* Specifications and dimensions for the 25A-series are the same as standard products.



3 Port Solenoid Valve Direct Operated Poppet Type Series 25A-VG342

Rubber Seal

Low power consumption

4.8 W DC (Standard type) 2 W DC (Energy-saving type)

No lubrication required Possible to use in vacuum or under low pressures

External pilot

Vacuum: Up to -14.7 psi (-101.2 kPa) Low pressure: 0 to 29 psi (0 to 0.2 MPa)

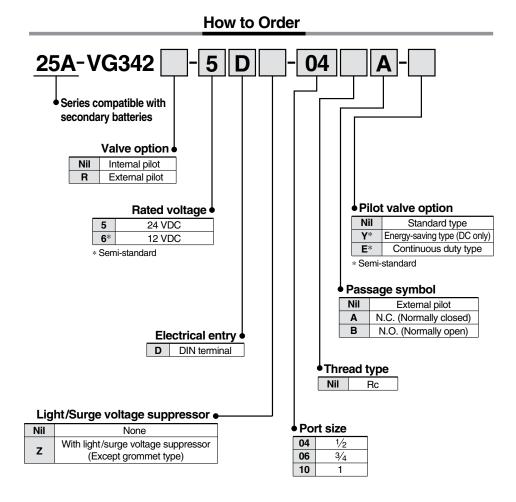
Changeable actuation:

N.C., N.O., or external pilot

Can be used as a selector or divider valve (External pilot)







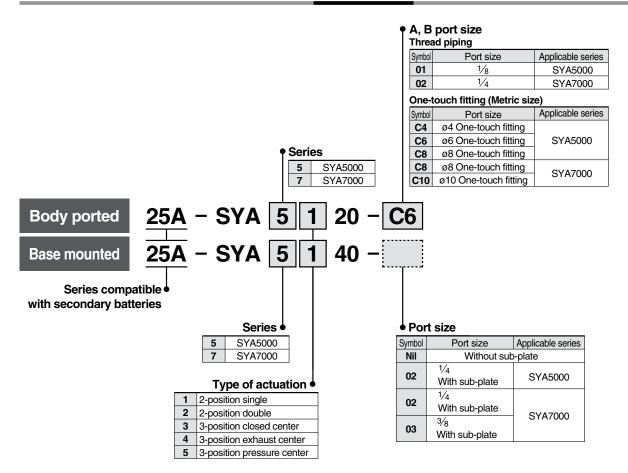
* Specifications and dimensions for the 25A-series are the same as standard products.



5 Port Air Operated Valve

Series 25A-SYA5000/7000

How to Order



How to Order Manifold Base

Same manifolds as series SY (Non plug-in style) are prepared. (For 20, 41 and 42 Types)

25A-SS5YA ⁵₇ - Fill the same as 25A-SS5Y ⁵₇.

(Refer to page 38.)

* Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

25A-SS5YA5-42-03-02 ·····1 set (Type 42, 3 station manifold base part no.) * 25A-SYA5140 ···················· 1 set (Single air operated valve part no.)

* 25A-SYA5240 1 set (Double air operated valve part no.)

* 25A-SY5000-26-1A 1 set (Blanking plate assembly part no.)

The asterisk denotes the symbol for assembly.

Prefix it to the part nos. of the solenoid valve, etc.

Note) When single body ported air operated valves are ordered, manifold mounting screws and gaskets are not included. Order them separately if necessary. (For details, refer to page 40.)

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

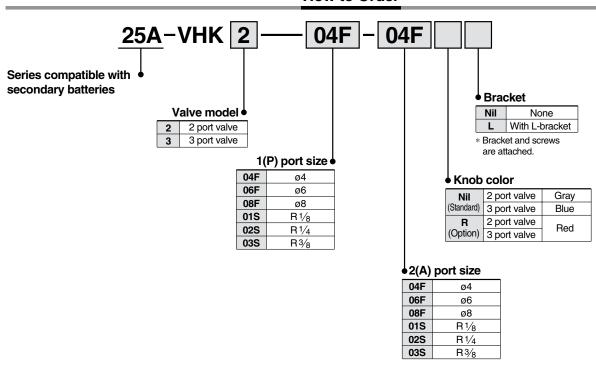


Finger Valve

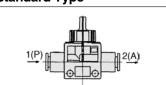
Series 25A-VHK



How to Order

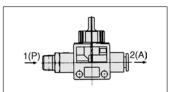


Standard Type



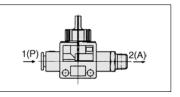
1(P): One-touch fitting 2(A): One-touch fitting

_(,						
	2(A)	Applicable tubing O.D. (mm)				
1(P)		ø4	ø6	ø8		
able ng nm)	ø4	•				
John John John John John John John John	ø6	•	•			
Apr tu	ø8		•	•		



1(P): Male thread 2(A): One-touch fitting

	_ ` ′				
	2(A) 1(P)		Applicable tubing O.D. (mm)		
			ø4	ø6	ø8
	Œ.	1/8	•	•	•
	Port size R	1/4		•	•
	<u>a</u>	3/8		•	•



1(P): One-touch fitting 2(A): Male thread

2(A)		Port size R		
1(P)		1/8	1/4	3/8
ble g m)	ø4	•		
Jolica Libin	ø6	•	•	•
Apl O.D	ø8	•	•	•

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

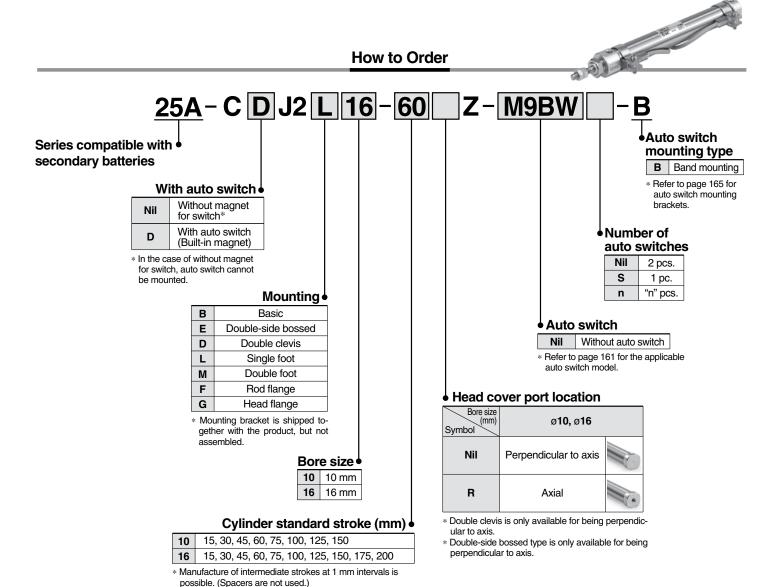




Auto Switches

Air Cylinder: Standard Type Double Acting, Single Rod

Series 25A-CJ2 ø10, ø16



Built-in Magnet Cylinder Model

Suffix the symbol "-B" (Band mounting style) to the end of part number for cylinder with auto switch.

Example Band mounting style 25A-CDJ2B16-60Z-B

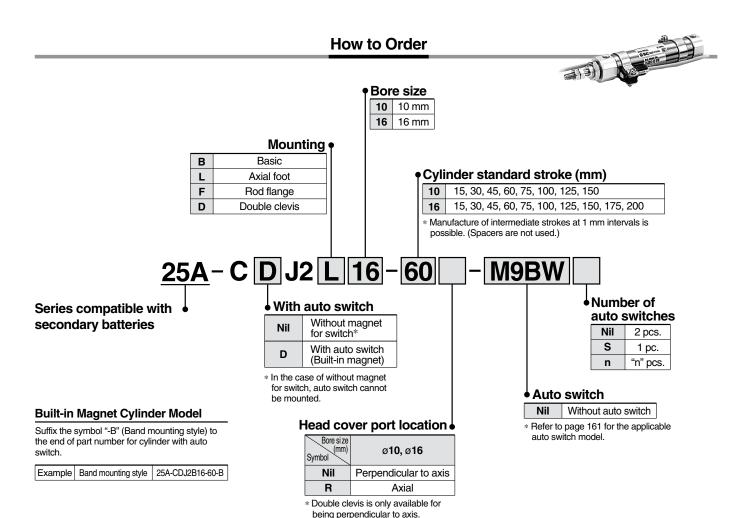
Mounting Bracket Part No. for Series 25A-

Mounting	Bore size (mm)		
bracket	10	16	
Foot bracket	90-CJ-L010B	90-CJ-L016B	
Flange bracket	90-CJ-F010B	90-CJ-F016B	

 Specifications and dimensions for the 25A-series are the same as standard products.



Series 25A-CJ2 ø10, ø16



Mounting Bracket Part No. for Series 25A-

Mounting	Bore size (mm)		
bracket	10	16	
Foot bracket	90-CJ-L010B	90-CJ-L016B	
Flange bracket	90-CJ-F010B	90-CJ-F016B	

Series 25A-CM2

Ø20, Ø25, Ø32, Ø40

How to Order

25A-CDM2L40-150-M9BW

Series compatible with secondary batteries

With auto switch

Nil	Without magnet for switch*
D	With auto switch (Built-in magnet)

* In the case of without magnet for switch, auto switch cannot be mounted.

Mounting 4

В	B Basic	
L	Axial foot	Е
F	Rod flange	BZ
G	Head flange	FZ
С	Single clevis	
D	Double clevis	117
U	Rod trunnion	UZ

Т	Head trunnion	
Е	Integral clevis	
BZ	Boss-cut/Basic	
FZ	Boss-cut/ Rod flange	
UZ	Boss-cut/ Rod trunnion	

Bore size

20	20 mm	
25	25 mm	
32	32 mm	
40	40 mm	

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch

Nil Without auto switch

* Refer to page 161 for the applicable auto switch model.

Cylinder Stroke (mm)

Bore size (mm)	Standard stroke ⁽¹⁾ (mm)	Maximum stroke (mm)
20		1000
25	25, 50, 75, 100, 125, 150 200, 250, 300	1500
32		2000
40		2000

Note 1) Other intermediate strokes can be manufactured upon receipt of order. Manufacture of intermediate strokes at 1 mm intervals is possible. (Spacers are not used.)

Note 2) When exceeding 300 strokes, the allowable maximum stroke length is determined by the stroke selection table.

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDM2F32-100

* Specifications and dimensions for the 25A-series are the same as standard products.

Mounting Bracket Part No. for Series 25A-

Modify Bracket i art No. 101 Octics 25A						
Mounting bracket	Min.	Bore size (mm)			Description (for min. order)	
Mounting bracket	order	20	25	32	40	Description (for min. order)
Axial foot *	2	CM-L020B-XB12	CM-L032B-XB12		CM-L040B-XB12	2 foots, 1 mounting nut
Flange	1	CM-F020B-XB12	CM-F032B-XB12		CM-F040B-XB12	1 flange
Single clevis **	1	25-CM-C020B	25-CM-	-C032B	25-CM-C040B	1 single clevis, 3 liners
Double clevis *** (with pin)	1	25-CM-D020B	25-CM-D032B		25-CM-D040B	1 double clevis, 3 liners, 1 clevis pin, 2 retaining rings
Trunnion (with nut)	1	25-CM-T020B	25-CM	-T032B	25-CM-T040B	1 trunnion, 1 trunnion nut

^{*} Order 2 foot brackets for each cylinder unit.



^{** 3} liners are attached with a clevis bracket for adjusting the mounting angle.

^{***} A clevis pin and retaining rings (split pins for ø40) are attached.

Series 25A-CG1

Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100





Series compatible with secondary batteries

With auto switch

Nil	Without magnet for switch*
D	With auto switch (Built-in magnet)

* In the case of without magnet for switch, auto switch cannot be mounted.

Mounting

В	Basic		
L	Axial foot		
F	Rod flange		
G	Head flange		
U*	Rod trunnion		
T *	Head trunnion		
D	Clevis		

* Not available for Ø80 or Ø100. Note) Mounting bracket is shipped together with the product, but not assembled

Type 4

N	Rubber bumper Air cushion	
Α		

Rore size

DOI C SIZE C		
20	20 mm	
25	25 mm	
32	32 mm	
40	40 mm	
50	50 mm	
63	63 mm	
80	80 mm	
100	100 mm	

Number of auto switches

• • • • • • • • • • • • • • • • • • • •	
Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch

Nil	Without auto switch
* Dofor to	naga 161 for the

Refer to page 161 for the applicable auto switch model.

Cylinder stroke (mm)

	` ,		
Bore size (mm)	Standard stroke (1) (mm)	Long stroke (2) (mm)	Maximum stroke (mm)
20	25, 50, 75, 100, 125, 150, 200	201 to 350	
25		301 to 400	
32		301 to 450	
40	25, 50, 75, 100, 125,	301 to 800	1500
50, 63	150, 200, 250, 300	301 to 1200	
80		301 to 1400	
100		301 to 1500	

Note 1) Manufacture of intermediate strokes at 1 mm intervals is possible. (Spacers are not used.)

Note 2) Long stroke is compatible with the axial foot and rod side flange types. When other mounting brackets are used or the long stroke exceeds the limit, the allowable maximum stroke length is determined using the stroke selection table. (WEB catalog or Best Pneumatics No. 2)

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.

(Example) 25A-CDG1FN32-100

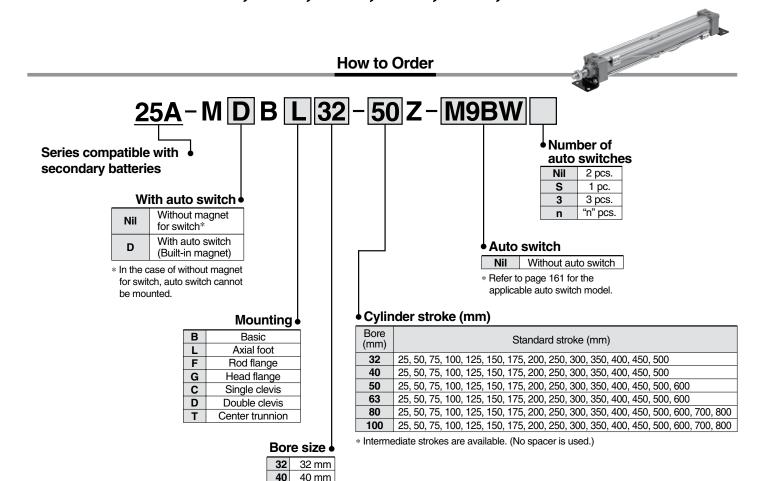
* Specifications and dimensions for the 25A-series are the same as standard products.

Mounting Bracket Part No. for Series 25A-

Mounting	Min.		Description							
bracket	order	20	25	32	40	50	63	80	100	Description
Foot	2 Note)	90-CG-L020	90-CG-L025	90-CG-L032	90-CG-L040	90-CG-L050	25-CG-L063	25-CG-L080	25-CG-L100	Foot x 2, Mounting bolt x 8
Flange	1	90-CG-F020	90-CG-F025	90-CG-F032	90-CG-F040	90-CG-F050	25-CG-F063	25-CG-F080	25-CG-F100	Flange x 1, Mounting bolt x 4
Trunnion pin	1	25-CG-T020	25-CG-T025	25-CG-T032	25-CG-T040	25-CG-T050	25-CG-T063	_	_	Trunnion pin x 2, Trunnion bolt x 2, Flat washer x 2
Clevis	1	25-CG-D020	25-CG-D025	25-CG-D032	25-CG-D040	25-CG-D050	25-CG-D063	25-CG-D080	25-CG-D100	Clevis x 1, Mounting bolt x 4, Clevis pin x 1, Retaining ring x 2
Pivot bracket	1	25-CG-020-24A	25-CG-025-24A	25-CG-032-24A	25-CG-040-24A	25-CG-050-24A	25-CG-063-24A	25-CG-080-24A	25-CG-100-24A	Pivot bracket x 1

Air Cylinder: Single Rod

Series 25A-MB Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-MDBB40-100Z

* Specifications and dimensions for the 25A-series are the same as standard products.

Mounting Bracket Part No. for Series 25A-

Bore size (mm)	32	40	50	63	80	100
Foot Note 1)	25-MB-L03	25-MB-L04	25-MB-L05	25-MB-L06	25-MB-L08	25-MB-L10
Flange	MB-F03-XC7	MB-F04-XC7	MB-F05-XC7	MB-F06-XC7	MB-F08-XC7	MB-F10-XC7
Single clevis	25-MB-C03	25-MB-C04	25-MB-C05	25-MB-C06	25-MB-C08	25-MB-C10
Double clevis	25-MB-D03	25-MB-D04	25-MB-D05	25-MB-D06	25-MB-D08	25-MB-D10

50

63

80

50 mm

63 mm

80 mm **100** 100 mm

Note 1) Two foot brackets required for one cylinder.

Note 2) Accessories for each mounting bracket are as follows: Foot, flange, single clevis/body mounting bolt, double clevis/body mounting bolt, clevis pin, flat washers and split pins.



Air Cylinder: Single Rod

Series 25A-MB Ø32, Ø40, Ø50, Ø63, Ø80, Ø100





Series compatible with secondary batteries

With auto switch

Nil	Without magnet for switch*	
D	With auto switch (Built-in magnet)	

* In the case of without magnet for switch, auto switch cannot be mounted.

Mounting 4

В	Basic		
L	Axial foot		
F	Rod flange		
G Head flange			
С	Single clevis		
D Double clevis			
Т	Center trunnion		

וטם	C SIZE
32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Number of auto switches

Nil	2 pcs.
S	1 pc.
3	3 pcs.
n	"n" pcs.

Auto switch

Nil	Without auto switch
-----	---------------------

* Refer to page 161 for the applicable auto switch model.

Cylinder stroke (mm)

Bore (mm)	Standard stroke (mm)							
32	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500							
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500							
50	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600							
63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600							
80	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800							
100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800							

* Specifications and dimensions for the 25A-series are the

same as standard products.

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-MDBB40-100

Mounting Bracket Part No. for Series 25A-

Bore size (mm)	32	40	50	63	80	100			
Foot Note 1)	25-MB-L03	25-MB-L04	25-MB-L05	25-MB-L06	25-MB-L08	25-MB-L10			
Flange	25-MB-F03	25-MB-F04	25-MB-F05	25-MB-F06	25-MB-F08	25-MB-F10			
Single clevis	25-MB-C03	25-MB-C04	25-MB-C05	25-MB-C06	25-MB-C08	25-MB-C10			
Double clevis	25-MB-D03	25-MB-D04	25-MB-D05	25-MB-D06	25-MB-D08	25-MB-D10			

Note 1) Two foot brackets required for one cylinder.

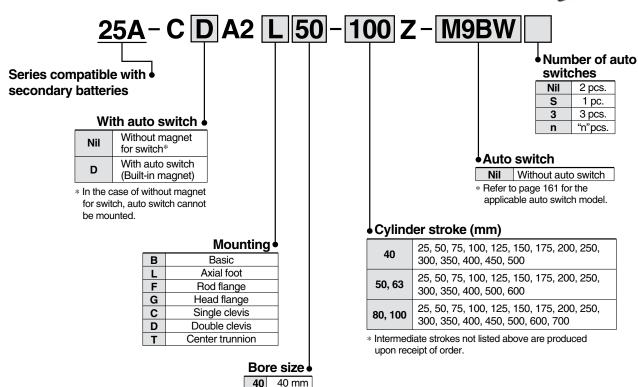
Note 2) Accessories for each mounting bracket are as follows: Foot, flange, single clevis/body mounting bolt, double clevis/body mounting bolt, clevis pin, flat washers and split pins.

^{*} Intermediate strokes are available. (No spacer is used.)

Series 25A-CA2 Ø40, Ø50, Ø63, Ø80, Ø100

How to Order





Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch (Example) 25A-CDA2L40-100Z

* Specifications and dimensions for the 25A-series are the same as standard products.

Mounting Bracket Part No. for Series 25A-

Mounting Bracket rait No. 101 Octios 20A					
Bore size (mm)	40	50	63	80	100
Axial foot*	90-CA2-L04	90-CA2-L05	90-CA2-L06	90-CA2-L08	90-CA2-L10
Flange	25A-CA2-F04	25A-CA2-F05	25A-CA2-F06	25A-CA2-F08	25A-CA2-F10
Single clevis	25A-CA2-C04	25A-CA2-C05	25A-CA2-C06	25A-CA2-C08	25A-CA2-C10
Double clevis **	25A-CA2-D04	25A-CA2-D05	25A-CA2-D06	25A-CA2-D08	25A-CA2-D10

50 mm

63 mm

80 mm **100** 100 mm

63

80

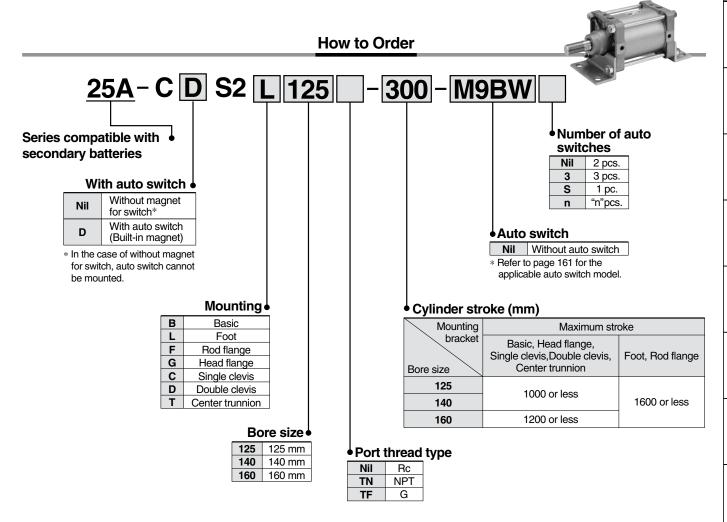


^{*} When axial foot brackets are used, two pieces should be ordered for each cylinder.

^{**} A clevis pin, flat washers and split pins are shipped together with double clevis.

Air Cylinder: Standard Type **Double Acting, Single Rod** Series 25A-CS2

ø125, ø140, ø160



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without auto switch is required, there is no need to enter the symbol for auto switch.

(Example) 25A-CS2B125-100

* Specifications and dimensions for the 25A-series are the same as standard products.

Mounting Bracket Part No. for Series 25A-

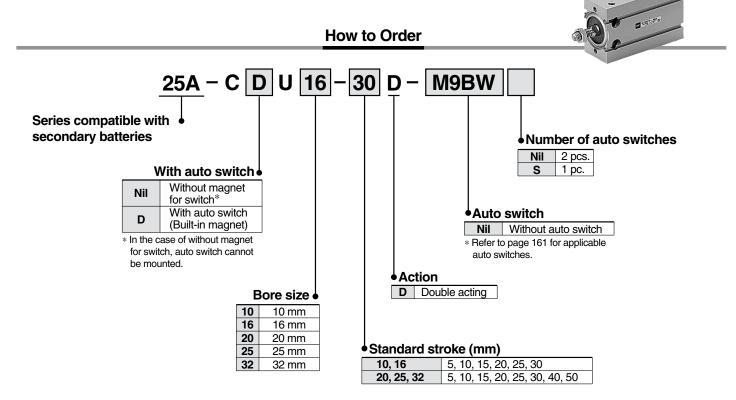
Bore size (mm)	125	140	160
Axial foot *	CS2-L12	CS2-L14	CS2-L16
Flange	CS2-F12	CS2-F14	CS2-F16
Single clevis	CS2-C12	CS2-C14	CS2-C16
Double clevis **	25A-CS2-D12	25A-CS2-D14	25A-CS2-D16

^{*} Order two foot brackets per cylinder.

^{**} A clevis pin and split pins are shipped together with double clevis.

Free Mount Cylinder Double Acting, Single Rod

Series 25A-CU ø10, ø16, ø20, ø25, ø32



Built-in Magnet Cylinder Model

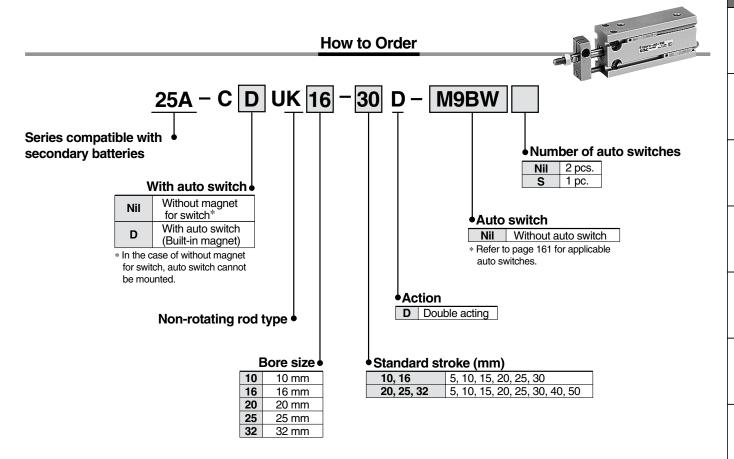
If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDU20-25D



^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Free Mount Cylinder: Non-rotating Rod Type **Double Acting, Single Rod**

Series 25A-CUK Ø10, Ø16, Ø20, Ø25, Ø32



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDUK20-25D

Compact Cylinder: Standard Type Double Acting, Single Rod

Series 25A-CQS ø12, ø16, ø20, ø25

How to Order

25A-CDQSB20-30D-M9BW

Series compatible with secondary batteries

With auto switch

Nil	Without magnet for switch*
D	With auto switch (Built-in magnet)

 In the case of without magnet for switch, auto switch cannot be mounted.

Mounting

В	Through-hole/Both ends tapped common (Standard)
L Foot	
F	Rod flange
G	Head flange
D	Double clevis

- * In the case of long strokes, use either ends tapped mounting or bracket mounting.
- * Mounting brackets are shipped together, (but not assembled).
- Cylinder mounting bolts are not included.

Bore size

DO: 0 0:E0 4			
12	12 mm		
16	16 mm		
20	20 mm		
25	25 mm		

Number of auto

Nil	2 pcs.	
S	1 pc.	
n	"n" pcs.	

♦Auto switch

Nil Without auto switch

* Refer to page 161 for the
applicable auto switch model.

■Body option

<Standard stroke>

Nil Standard	
С	With rubber bumper
M	Rod end male thread

* Combination of body options is available.

<Long stroke>

	С	With rubber bumper Rod end female thread (Standard)
		With rubber bumper

* Rubber bumper is standard equipment for long stroke type.

Action

D Double acting

♦ Cylinder stroke (mm)

	· /	
Bore size	Standard stroke	Long stroke
12, 16	5, 10, 15, 20, 25, 30	35, 40, 45, 50, 75, 100, 125, 150, 175, 200
20	5, 10, 15, 20, 25, 30,	75, 100, 125, 150, 175, 200
25	35, 40, 45, 50	75, 100, 125, 150, 175, 200, 250, 300

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDQSL25-30D

* Specifications and dimensions for the 25A-series are the same as standard products.

Mounting Bracket Part No. for Series 25A-

Bore size (mm)	Foot Note 1)	Flange	Double clevis			
12	25-CQS-L012	25-CQS-F012	25-CQS-D012			
16	25-CQS-L016	25-CQS-F016	25-CQS-D016			
20	25-CQS-L020	25-CQS-F020	25-CQS-D020			
25	25-COS-L025	25-COS-F025	25-COS-D025			

Note 1) When ordering foot bracket, order 2 pieces per cylinder.

Note 2) Parts belonging to each bracket are as follows.

Foot or Flange style: Body mounting bolt

Double clevis style: Clevis pin, Type C retaining ring for axis, Body mounting bolt.

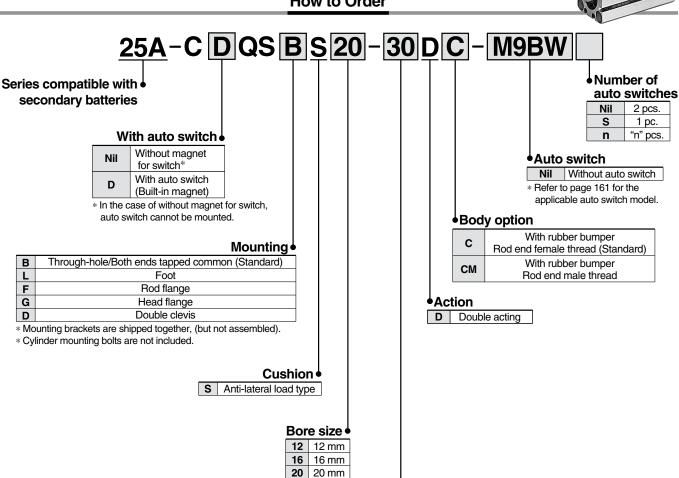


Compact Cylinder: Anti-lateral Load Type

Series 25A-CQS□S Ø12, Ø16, Ø20, Ø25







Cylinder stroke (mm)

25 | 25 mm

		•	
Bore size	Standard stroke		
12, 16	5, 10, 15, 20, 25, 30		
20, 25	5, 10, 15, 20, 25, 30, 35, 40,	45,	50

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDQSLS12-25DC

* With cushion only.

Mounting Bracket Part No. for Series 25A-

Bore size (mm)	Foot (1)	Flange	Double clevis			
12	25-CQS-L012	25-CQS-F012	25-CQS-D012			
16	25-CQS-L016	25-CQS-F016	25-CQS-D016			
20	25-CQS-L020	25-CQS-F020	25-CQS-D020			
25	25-CQS-L025	25-CQS-F025	25-CQS-D025			

Note 1) When ordering foot bracket, order 2 pieces per cylinder.

Note 2) Parts belonging to each bracket are as follows.

Foot or Flange style: Body mounting bolt

Double clevis style: Clevis pin, Type C retaining ring for axis, Body mounting bolt

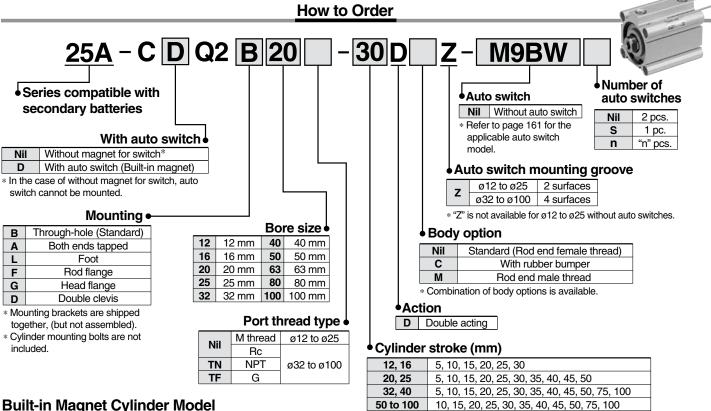


^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Compact Cylinder: Standard Double Acting, Single Rod

Series 25A-CQ2

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDQ2L32-25DZ

Mounting Bracket Part No. for Series 25A-/Without auto switch

Bore size (mm)	Bore size (mm) Foot (1)		Double clevis					
12	25-CQ-L012	25-CQ-F012	25-CQ-D012					
16	25-CQ-L016	25-CQ-F016	25-CQ-D016					
20	25-CQ-L020	25-CQ-F020	25-CQ-D020					
25	25-CQ-L025	25-CQ-F025	25-CQ-D025					
32	25-CQ-L032	25-CQ-F032	25-CQ-D032					
40	25-CQ-L040	25-CQ-F040	25-CQ-D040					
50	25-CQ-L050	25-CQ-F050	25-CQ-D050					
63	25-CQ-L063	25-CQ-F063	25-CQ-D063					
80	25-CQ-L080	25-CQ-F080	25-CQ-D080					
100	25-CQ-L100	25-CQ-F100	25-CQ-D100					

same as standard products.

* Specifications and dimensions for the 25A-series are the

Mounting Brac	ket Part No. for	Series 25A-/W	ith auto switch
Bore size (mm)	Foot (1)	Flance	Double clevis

Bore size (mm)	Foot (1)	Flange	Double clevis
12	25-CQ-LZ12	25-CQ-F012	25-CQ-D012
16	25-CQ-LZ16	25-CQ-F016	25-CQ-D016
20	25-CQ-LZ20	25-CQ-F020	25-CQ-D020
25	25-CQ-LZ25	25-CQ-F025	25-CQ-D025
32	25-CQ-L032	25-CQ-F032	25-CQ-D032
40	25-CQ-L040	25-CQ-F040	25-CQ-D040
50	25-CQ-L050	25-CQ-F050	25-CQ-D050
63	25-CQ-L063	25-CQ-F063	25-CQ-D063
80	25-CQ-L080	25-CQ-F080	25-CQ-D080
100	25-CQ-L100	25-CQ-F100	25-CQ-D100

Note 1) When ordering a foot bracket, the required quantity will be different depending on the bore size.

ø12 to ø25:

Without switch: Order 2 pieces per cylinder.

• With switch: Order 1 piece per cylinder. (Part number for a set of 2 foot brackets)

ø32 to ø100:

• Order 2 pieces per cylinder.

Note 2) Parts belonging to each bracket are as follows.

Foot or Flange: Body mounting bolts, Double clevis: Clevis pin, Type C retaining rings for axis, Body mounting bolts

Simple Joint (Standard)/ Part No.

	<u>, , , , , , , , , , , , , , , , , , , </u>		
Bore size (mm)	Joint	Type A mounting bracket	Type B mounting bracket
32, 40	YU-03	YA-03	YB-03
50, 63	YU-05	YA-05	YB-05
80	YU-08	YA-08 YB-08	
100	YU-10	YA-10	YB-10

<Ordering>

 Joints are not included with type A or B mounting brackets. Order them separately.

(Example)

Bore size ø40 Part no.

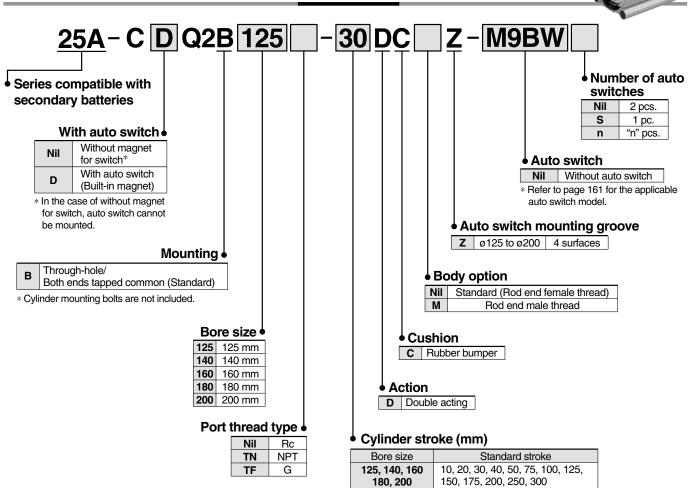
• Type A mounting bracket YA-03



Compact Cylinder: Large Bore Size Double Acting, Single Rod

Series 25A-CQ2 ø125, ø140, ø160, ø180, ø200





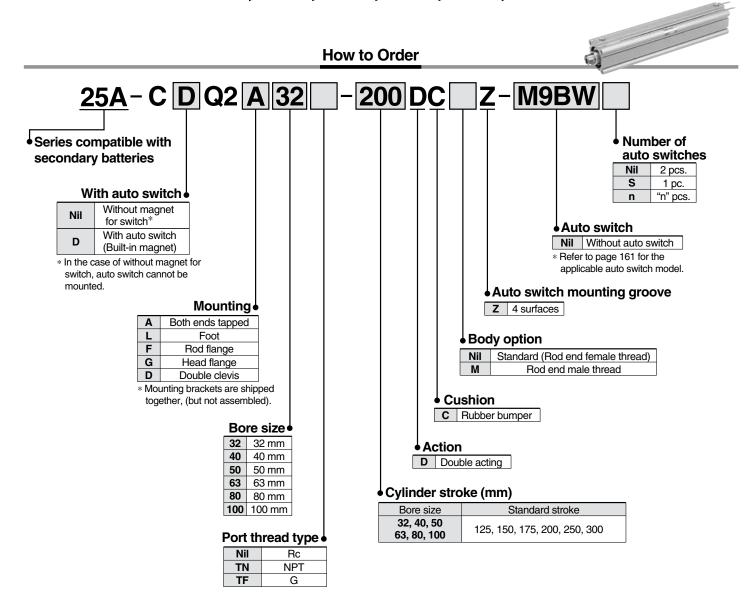
Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.

(Example) 25A-CDQ2B140-30DCZ

Compact Cylinder: Long Stroke Double Acting, Single Rod

Series 25A-CQ2 ø32, ø40, ø50, ø63, ø80, ø100



Simple Joint (Standard)/Part No.

Bore size (mm)	Joint	Type A mounting bracket	Type B mounting bracket	
32, 40 YU-03		YA-03	YB-03	
50, 63	YU-05	YA-05	YB-05	
80	YU-08	YA-08	YB-08	
100	YU-10	YA-10	YB-10	

<Ordering>

 Joints are not included with type A or B mounting brackets. Order them separately. (Example)

Bore size ø40 Part no.

• Type A mounting bracket-----YA-03

• Joint------YU-03

Built-in Magnet Cylinder Model

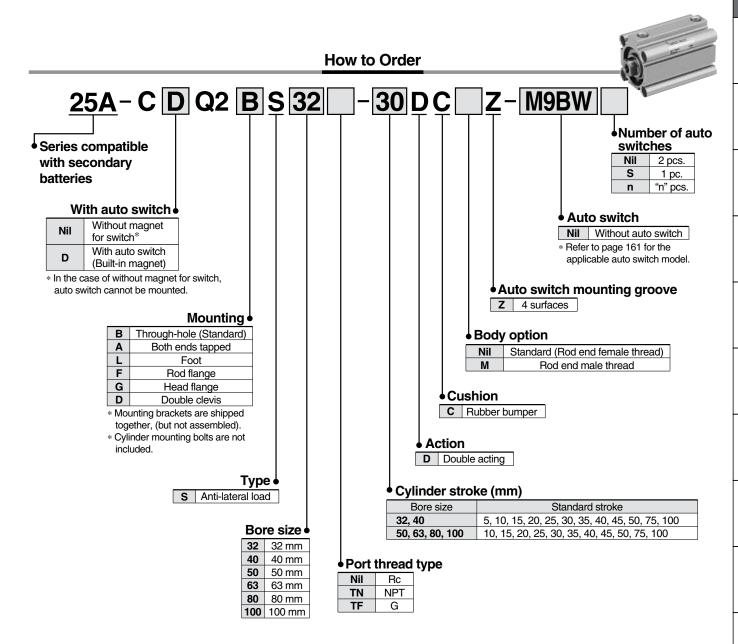
If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.

(Example) 25A-CDQ2L40-200DCZ



Compact Cylinder: Anti-lateral Load

Series 25A-CQ2 ø32, ø40, ø50, ø63, ø80, ø100



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDQ2LS40-30DCZ

Mechanically Jointed Rodless Cylinder Basic Type

Series 25A-MY1B

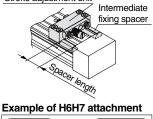
Ø20, Ø25, Ø32, Ø40, Ø50, Ø63

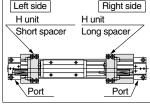
How to Order M9BW 25A - MY1B 20 300 Series compatible with Number of secondary batteries auto switches Basic type 2 pcs. 1 pc. "n" pcs. Bore size **20** 20 mm 25 25 mm Auto switch 32 32 mm Without auto switch 40 mm (Built-in magnet) **50** 50 mm **63** 63 mm * Applicable auto switches vary depending on the bore size. Select an applicable one referring to page 161. Piping 6 Standard type Nil Centralized piping type Cylinder stroke (mm) 100, 200, 300, 400, 500, 600, 700, 20, 25, 32, 40, 800, 900, 1000, 1200, 1400, 1600, 50, 63 1800, 2000 * Strokes are manufacturable in 1 mm increments, up to the maximum stroke. However, contact SMC when exceeding a 2000 mm stroke.

	Stroke adjustment unit symbol •											
			Right side stroke adjustment unit									
		Without	A: With	adjustme	ent bolt	L: With lov + Adjustm	v load shock ent bolt	absorber	H: With hig + Adjustme	nh load shoc ent bolt	k absorber	
		unit		With short spacer	With long spacer		With short spacer	With long spacer		With short spacer	With long spacer	
Ħ	Wit	thout unit	Nil	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
adjustment unit	A: With adjustment bolt		AS	Α	AA6	AA7	AL	AL6	AL7	AH	AH6	AH7
틸		With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7	A6H	A6H6	A6H7
lst-		With long spacer	A7S	A7A	A7A6	A 7	A7L	A7L6	A7L7	A7H	A7H6	A7H7
agi		d shock absorber +	LS	LA	LA6	LA7	L	LL6	LL7	LH	LH6	LH7
stroke	Adjustment	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7	L6H	L6H6	L6H7
	S bolt	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7	L7H	L7H6	L7H7
ig.	H: With high load shock absorber Adjustment With short space	ad shock absorber +	HS	HA	HA6	HA7	HL	HL6	HL7	Н	HH6	HH7
Left s		With short spacer	H6S	H6A	H6A6	H6A7	H6L	H6L6	H6L7	Н6Н	H6	Н6Н7
تد	bolt	With long spacer	H7S	H7A	H7A6	H7A7	H7L	H7L6	H7L7	H7H	H7H6	H7

^{*} Spacers are used to fix the stroke adjustment unit at an intermediate stroke position.

Stroke adjustment unit mounting diagram





^{*} Specifications and dimensions for the 25A-series are the same as standard products.



fixing spacer

Right side

Port

L unit

Long spacer

Place the protruding section on the stroke adjusting unit side. Example of L6L7 attachment

Left side

Port

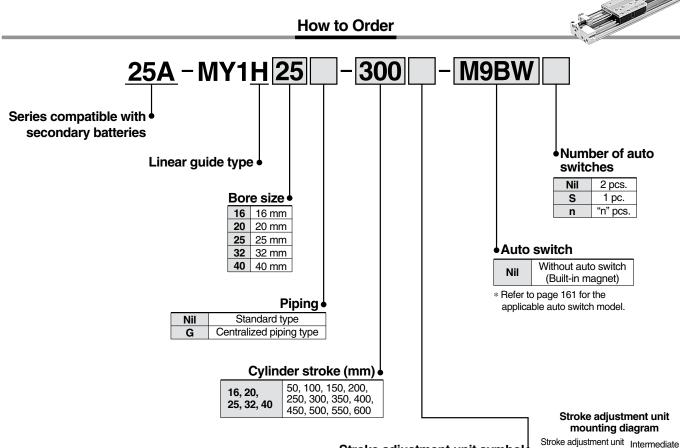
Short spacer

L unit

Mechanically Jointed Rodless Cylinder Linear Guide Type

Series 25A-MY1H

Ø16, Ø20, Ø25, Ø32, Ø40



Stroke adjustment unit symbo

	Stroke adjustment unit symbol											
				Right side stroke adjustment unit								
		Without					L: With low load shock absorber + Adjustment bolt		H: With high load shock absorb + Adjustment bolt		k absorber	
			unit		With short spacer	With long spacer		With short spacer	With long spacer		With short spacer	With long spacer
<u>=</u>	Wit	thout unit	Nil	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
adjustment unit	A: With a	djustment bolt	AS	Α	AA6	AA7	AL	AL6	AL7	AH	AH6	AH7
le l		With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7	A6H	A6H6	A6H7
ustr		With long spacer	A7S	A7A	A7A6	A7	A7L	A7L6	A7L7	A7H	A7H6	A7H7
		oad shock absorber +	LS	LA	LA6	LA7	L	LL6	LL7	LH	LH6	LH7
stroke	Adjustment	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7	L6H	L6H6	L6H7
str	bolt	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7	L7H	L7H6	L7H7
gig	H: With high	load shock absorber +	HS	HA	HA6	HA7	HL	HL6	HL7	Н	HH6	HH7
Left side	Adjustment	With short spacer	H6S	H6A	H6A6	H6A7	H6L	H6L6	H6L7	Н6Н	Н6	H6H7
د	bolt	With long spacer	H7S	H7A	H7A6	H7A7	H7L	H7L6	H7L7	H7H	H7H6	H7

* Spacers are used to fix the stroke adjustment unit at an intermediate stroke position.

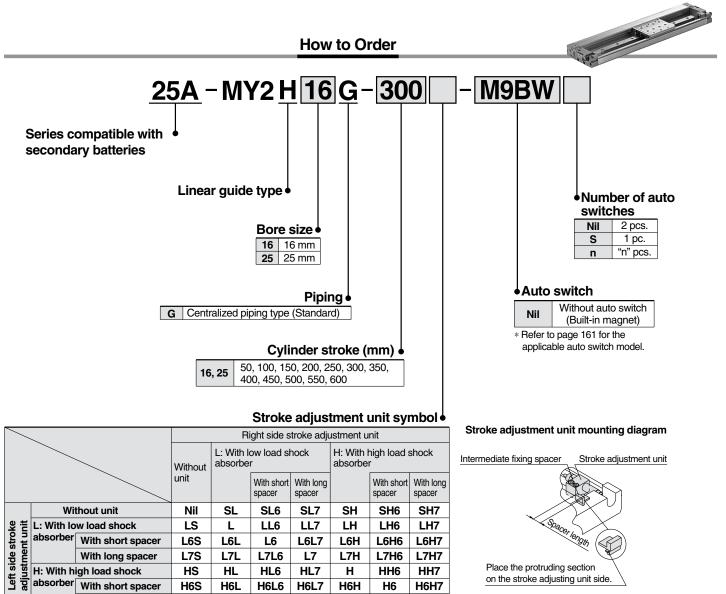
^{*} Specifications and dimensions for the 25A-series are the same as standard products.



^{*} H: With high load shock absorber + Adjustment bolt is not available for 25A-MY1H16.

Mechanically Jointed Rodless Cylinder Linear Guide Type

Series 25A-MY2H Ø16, Ø25



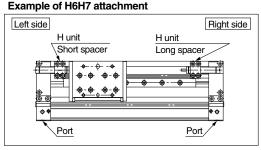
^{*} Spacers are used to fix the stroke adjustment unit at an intermediate stroke position.

H7S

H7L

With long spacer





^{*} Specifications and dimensions for the 25A-series are the same as standard products.



H7H6

H7

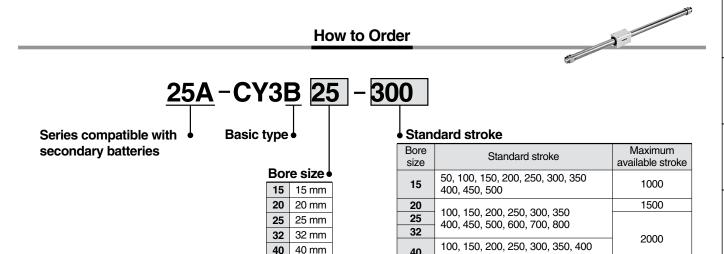
H7H

H7L7

H7L6

Magnetically Coupled Rodless Cylinder/ **Basic Type**

Series 25A-CY3B Ø15, Ø20, Ø25, Ø32, Ø40



40

Note 1) Please contact SMC if the maximum stroke is exceeded. Note 2) The longer the stroke, the larger the amount of deflection in a cylinder tube. Pay attention to the mounting bracket and clearance value.

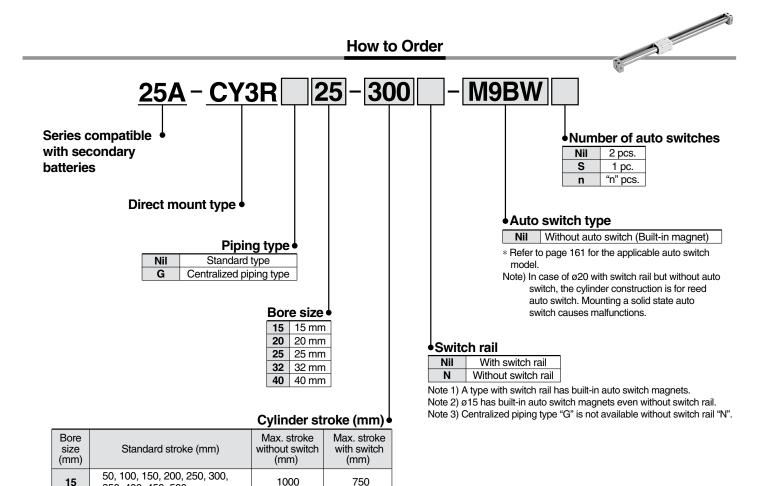
Note 3) Intermediate stroke is available by the 1 mm interval.

450, 500, 600, 700, 800, 900, 1000

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Magnetically Coupled Rodless Cylinder/ Direct Mount Type

Series 25A-CY3R ø15, ø20, ø25, ø32, ø40



1000

1200

1500

1500

2000

Note 1) The longer the stroke, the larger the amount of deflection in a cylinder tube. Pay attention to the mounting bracket and clearance value.

Note 2) Intermediate stroke is available by the 1 mm interval.

350, 400, 450, 500

900, 1000

100, 150, 200, 250, 300, 350

400, 450, 500, 600, 700, 800

100, 150, 200, 250, 300, 350

400, 450, 500, 600, 700, 800

20

25

32

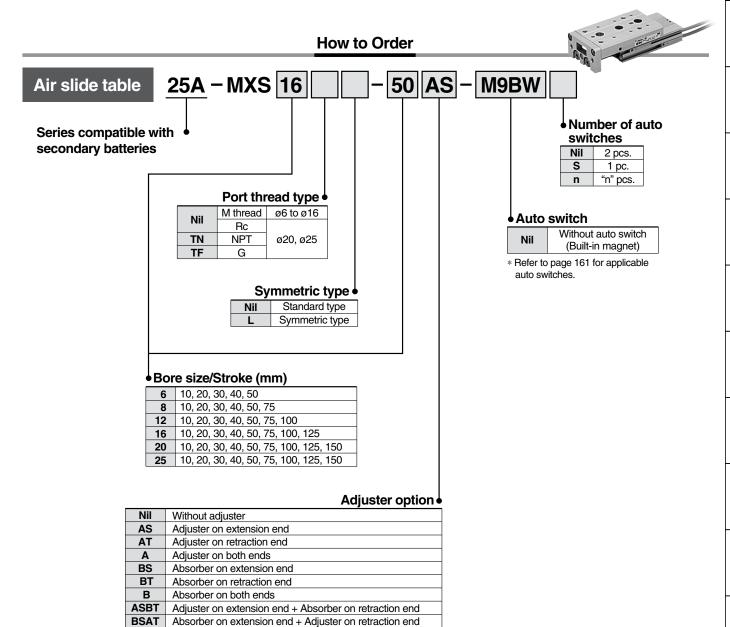
40

st Specifications and dimensions for the 25A-series are the same as standard products.

Air Slide Table

Series 25A-MXS

Ø6, Ø8, Ø12, Ø16, Ø20, Ø25



^{*} With shock absorber is not available in the 25A-MXS6 series.

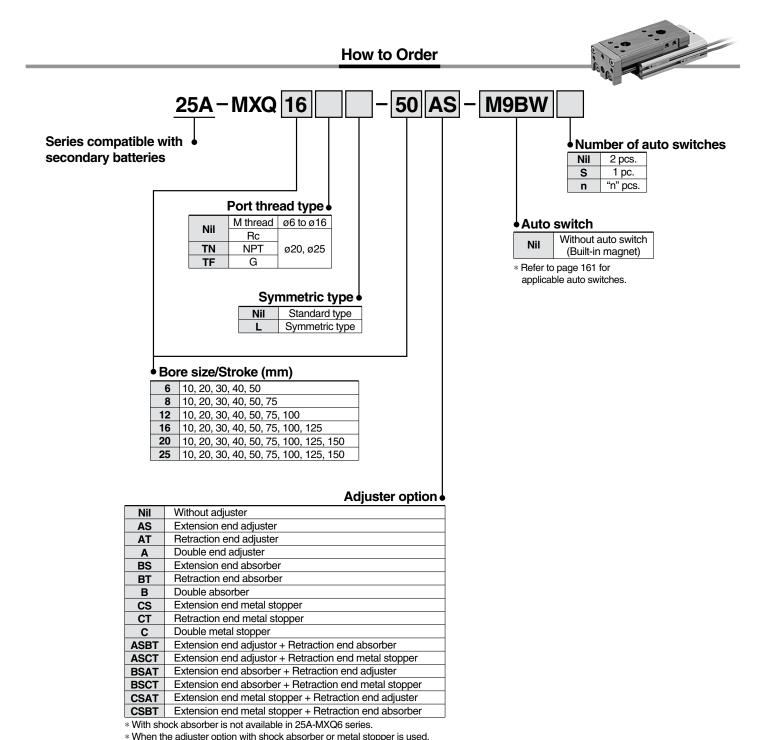
^{*} When the adjuster option with shock absorber is used, metal-to-metal collisions occur, and may generate dust particles.

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Air Slide Table

Series 25A-MXQ

Ø6, Ø8, Ø12, Ø16, Ø20, Ø25



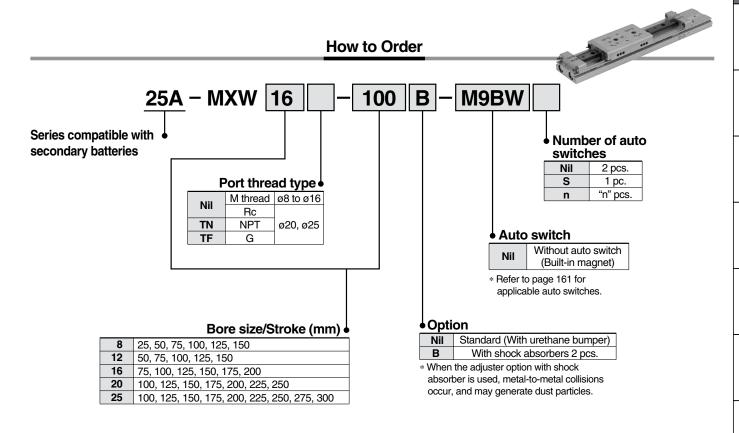
* Specifications and dimensions for the 25A-series are the same as standard products.



metal-to-metal collisions occur, and may generate dust particles.

Air Slide Table

Series 25A-MXW Ø8, Ø12, Ø16, Ø20, Ø25

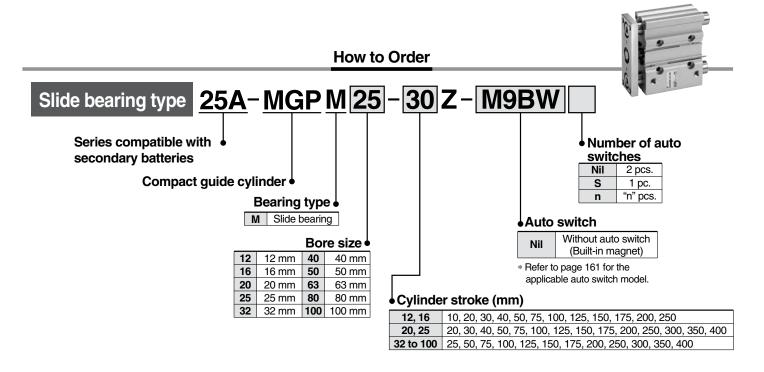


^{*} Specifications and dimensions for the 25A-series are the same as standard products.

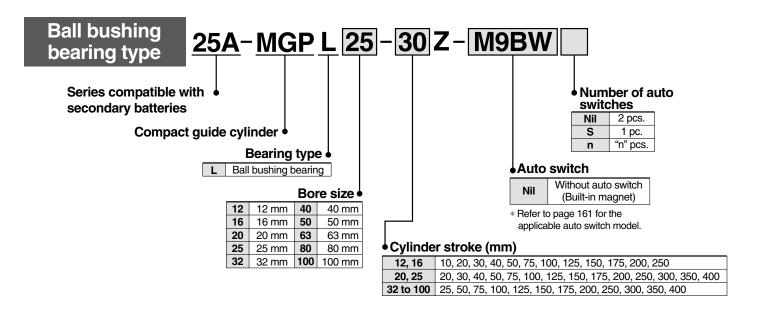
Compact Guide Cylinder

Series 25A-MGP

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



^{*} Specifications and dimensions for the 25A-series are the same as standard products.



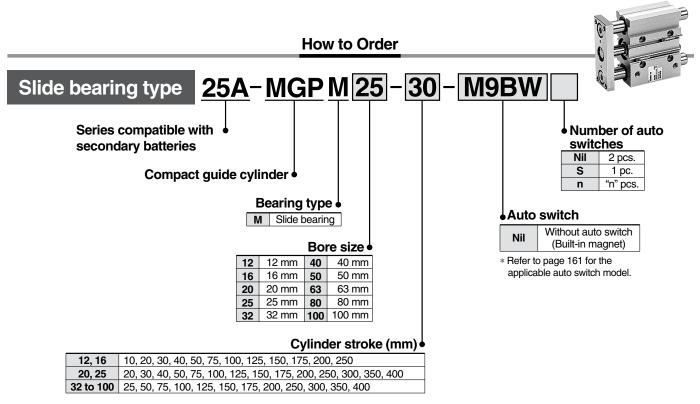
st Specifications and dimensions for the 25A-series are the same as standard products.

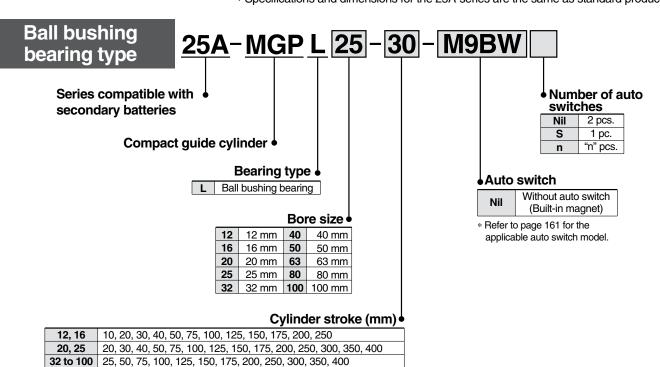


Compact Guide Cylinder

Series 25A-MGP

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100





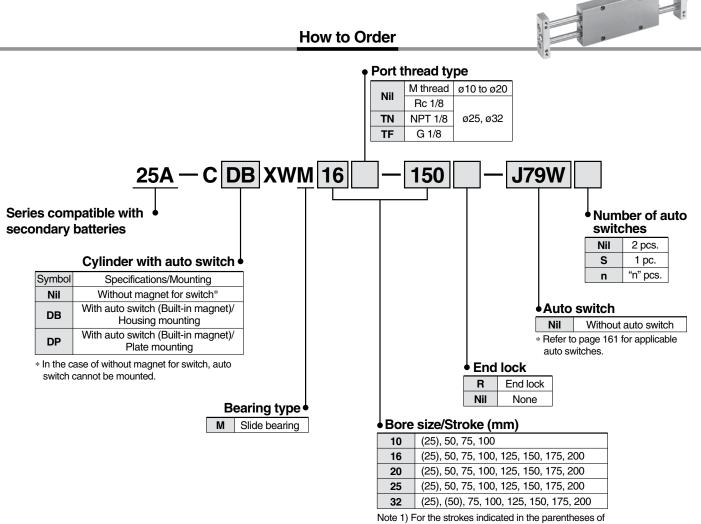
^{*} Specifications and dimensions for the 25A-series are the same as standard products.



Slide Unit: Built-in Shock Absorber Slide Bearing Type

Series 25A-CXWM

Ø10, Ø16, Ø20, Ø25, Ø32



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDPXWM20-100 Note 1) For the strokes indicated in the parentheses of the ø10, ø16 and ø25, shock absorbers are to be mounted on both sides of the plate. For the strokes indicated in the parentheses of the ø20 and ø32, a shock absorber is to be mounted on single side of the plate.

Note 2) For the strokes other than those indicated above, refer to the Best Pneumatics No. 1.

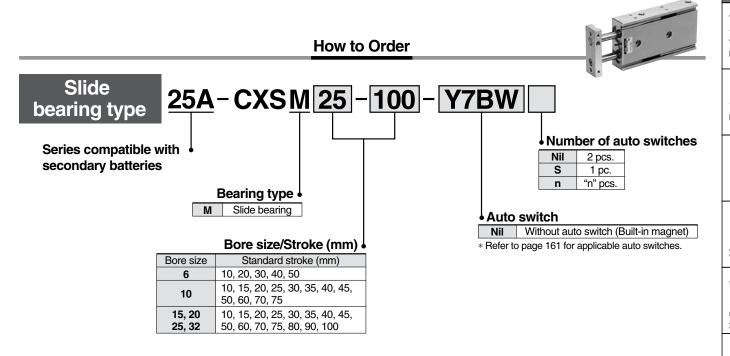
Note 3) For ø16, ø20 and ø25, strokes up to 300, and for ø32, strokes up to 250 are available as Made-to-Order.

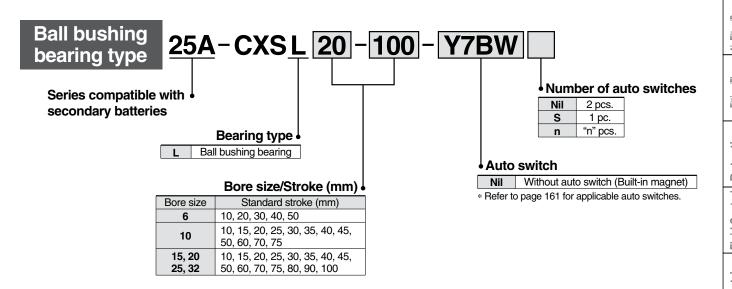


^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Dual Rod Cylinder Basic Type

Series 25A-CXS Ø6, Ø10, Ø15, Ø20, Ø25, Ø32



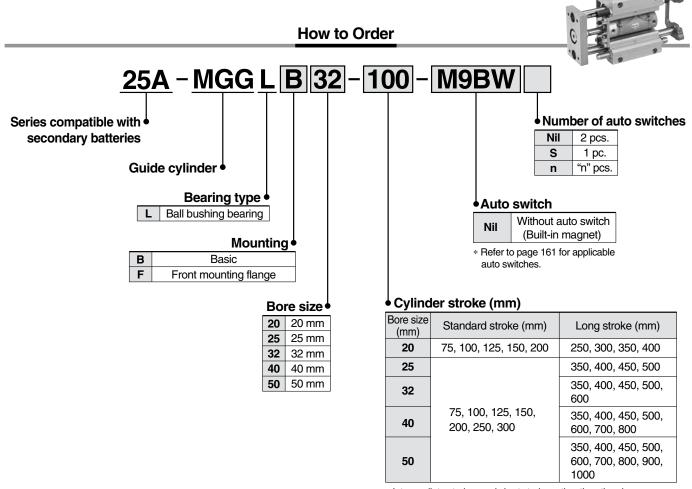


^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Guide Cylinder

Series 25A-MGG

Ø20, Ø25, Ø32, Ø40, Ø50

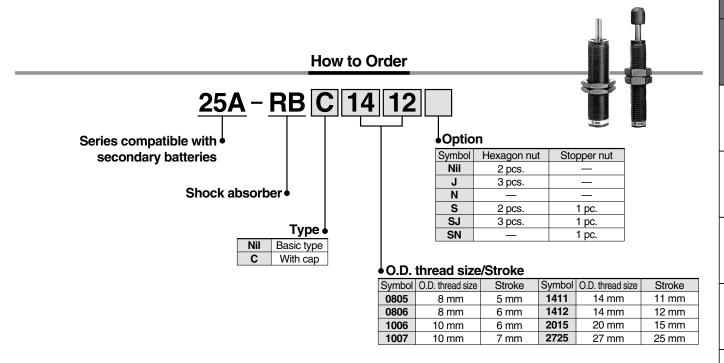


^{*} Intermediate strokes and short strokes other than the above are produced upon receipt of order.



Shock Absorber

Series 25A-RB/RBC



Hexagon Nut, Stopper Nut (Option) Part No. for Series 25A-

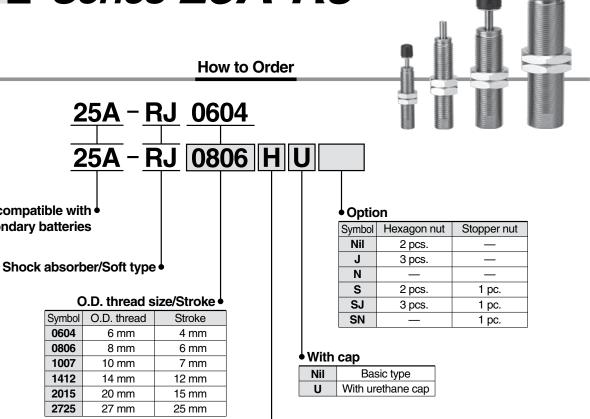
				Thread size		
		M8	M10	M14	M20	M27
Hexagon nut		25-RB08J	25-RB10J	25-RB14J	25-RB20J	25-RB27J
04	Basic type	25-RB08S	25-RB10S	25-RB14S	25-RB20S	25-RB27S
Stopper nut	With cap	25-RBC08S	25-RBC10S	25-RBC14S	25-RBC20S	25-RBC27S

Material: Special steel Treatment: Electroless nickel plating

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Shock Absorber Soft Type

Series 25A-RJ



Collision speed range

Н	0.05 to 2 m/s
L	0.05 to 1 m/s

^{*} RJ0604: 0.05 to 1.0 m/s

Hexagon Nut, Stopper Nut (Option) Part No. for Series 25A-

Series compatible with

secondary batteries

Symbol

0604

0806

1007

1412

2015

2725

O.D. thread

6 mm

8 mm

10 mm

14 mm

20 mm

27 mm

rionagon riad, otoppor riad (opinon) rantitorior contec 2011									
		Thread size							
		M8	M10	M14	M20	M27			
Hexagon nut		25-RB08J	25-RB10J	25-RB14J	25-RB20J	25-RB27J			
04	Basic type	25-RB08S	25-RB10S	25-RB14S	25-RB20S	25-RB27S			
Stopper nut	With cap	25-RBC08S	25-RBC10S	25-RBC14S	25-RBC20S	25-RBC27S			

Material: Special steel

Treatment: Electroless nickel plating

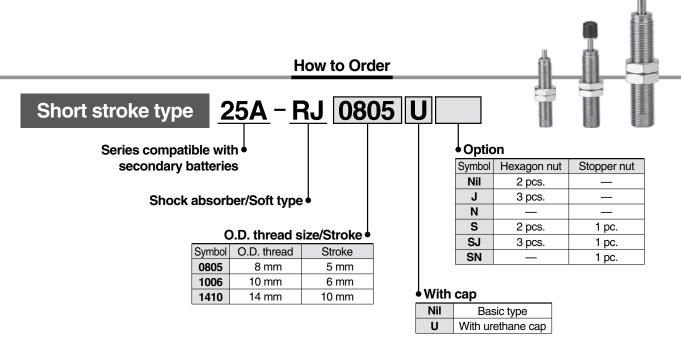


^{*} RJ2725H: 0.05 to 1.5 m/s

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Shock Absorber Short Stroke Type

Series 25A-RJ



Hexagon Nut, Stopper Nut (Option) Part No. for Series 25A-

		Thread size				
		M8	M10	M14		
Hexagon nut		25-RB08J	25-RB10J	25-RB14J		
Ctonnormut	Basic type	25-RB08S	25-RB10S	25-RB14S		
Stopper nut	With cap	25-RBC08S	25-RBC10S	25-RBC14S		

Material: Special steel Treatment: Electroless nickel plating

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Floating Joint

Series 25A-J





How to Order

Standard type

25A - JA 80 - 22-150

Series compatible with secondary batteries

Applicable bore size (mm)

2 40 10 11 0		
Model	Symbol	Applicable
iviodei	Symbol	bore size (mm)
Standard	80	80
Standard	100	100

* For ø63 or less, please consider using the stainless steel type 25A-JS series.

Nominal	Applicable cylinder				
thread size	nominal thread size				
22-150	M22 x 1.5				
26-150	M26 x 1.5				

* Specifications and dimensions for the 25A-series are the same as standard products.

How to Order

For compact cylinders

25A - JB 40 -

Series compatible with secondary batteries

For compact cylinders/Female thread

Applicable bore size (mm)

Symbol	Applicable				
Syllibol	bore size (mm)				
12	12				
16	16				
20	20 25				
25					
40	32, 40				
63	50, 63				
80	80				
100	100				

Nominal	Applicable cylinder				
thread size	nominal thread size				
3-050	M3 x 0.5				
4-070	M4 x 0.7				
5-080	M5 x 0.8				
6-100	M6 x 1				
8-125	M8 x 1.25				
10-150	M10 x 1.5				
16-200	M16 x 2				
20-250	M20 x 2.5				

 Specifications and dimensions for the 25A-series are the same as standard products.

How to Order

Stainless steel type

25A - J S 32 - 10-125

Series compatible with secondary batteries

Stainless steel type

Applicable bore size (mm)

	,
Symbol	Applicable
Symbol	bore size (mm)
10	10
16	10, 16
20	20
32	25, 32
40	40
63	50, 63

Thread nominal size

Nominal	Applicable cylinder				
thread size	nominal thread size				
4-070	M4 x 0.7				
5-080	M5 x 0.8				
8-125	M8 x 1.25				
10-125	M10 x 1.25				
14-150	M14 x 1.5				
18-150	M18 x 1.5				

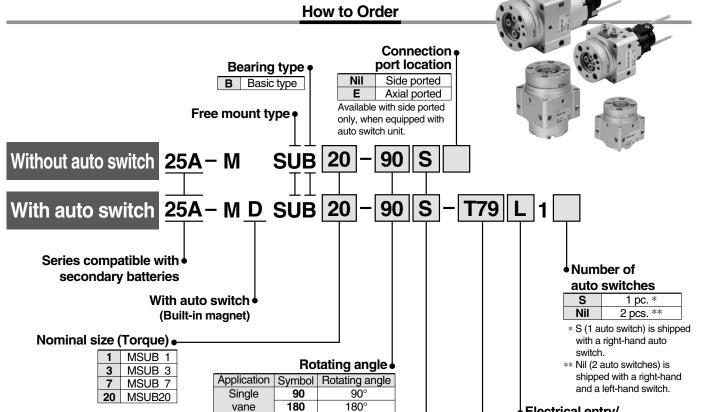


Rotary Table: Basic Type Vane Style

Series 25A-MSUB

RoHS

Size: 1, 3, 7, 20



Rotation adjustment range Single vane: Both ends ±5° each Double vane: Both ends ±2.5° each

90

Double

vane

Vane type

S	Single vane
D	Double vane

90°

Electrical entry/ Lead wire length

Nil	Grommet/Lead wire: 0.5 m
L	Grommet/Lead wire: 3 m

Auto switch

	Nil	Without auto switch			
	INII	(Built-in magnet)			
* Refer to page 163 for applicable auto switches.					

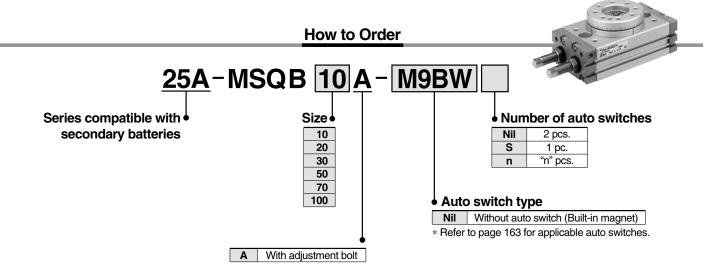
^{*} Specifications and dimensions for the 25A-series are the same as standard products.

^{*} Zinc is used in part of deep groove ball bearing.

Rotary Table: Rack & Pinion Style

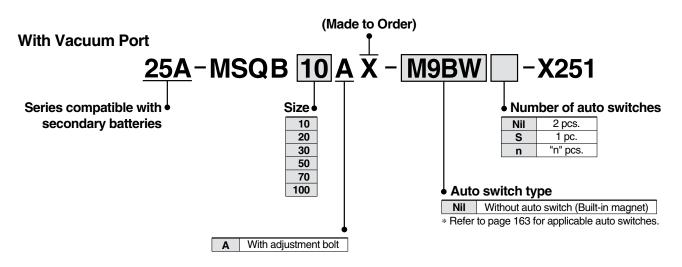
Series 25A-MSQ Size: 10, 20, 30, 50, 70, 100





- * Zinc is used in part of deep groove ball bearing and seal washer.
- * Side port cannot be used.

* Some parts have sizes and shapes that are different from the standard products.



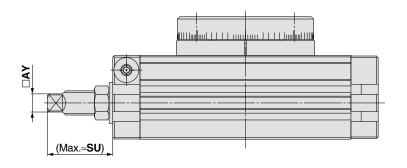
- * Zinc is used in part of deep groove ball bearing and seal washer.
- * Side port cannot be used.

* Some parts have sizes and shapes that are different from the standard products.



Dimensions

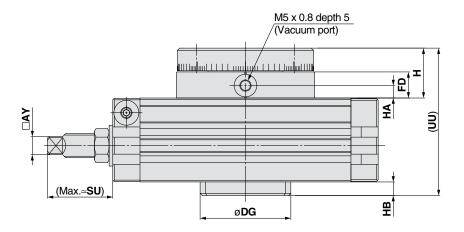
25A-MSQB□A



		(mm	
Size	AY	SU	
10	6	23.7	
20	8	33	
30	8	33	
50	10	42.9	
70) 16 4		
100	16	44.3	

^{*} Dimensions other than above are identical to the standard products.

25A-MSQB□AX-X251



								(mm)
Size	AY	DG	FD	Н	HA	HB	SU	UU
10	6	35h9	11.5	20	5.5	5	23.7	59
20	8	40h9	11.5	22	5.5	6	33	65
30	8	48h9	11.5	22	5.5	6	33	68
50	10	54h9	11.5	24	5.5	7	42.9	77
70	16	50h9	12	25	6	7	44.2	85
100	16	52h9	12	27	6	7	44.3	93

- * The product with the vacuum port has no hollow shaft at its rotation center.
- * Dimensions other than above are identical to the standard products.

Parallel Style Air Gripper Standard Type

Series 25A-MHZ2 ø10, ø16, ø20, ø25, ø32, ø40



fingers

in opening/

closing direction

How to Order Bore size 25A-MHZ2-16 D M9BW ø16 to ø25 Number of auto switches Series compatible with 2 pcs. secondary batteries S 1 pc. "n" pcs. n Auto switch Number of fingers Nil Without auto switch (Built-in magnet) 2 2 fingers * Refer to page 163 for the applicable auto switch Bore size Finger position/option **10** 10 mm **16** 16 mm Standard Narrow type **20** 20 mm (MHQG2 compatible type) (MHQ2 compatible type) **25** 25 mm Nil: Basic type N: Basic type Action • **D** Double acting 1: Side tapped N1: Side tapped mounting mounting 2: Through-holes N2: Through-holes in opening/ in opening/ closing direction closing direction 3: Flat type fingers The flat type fingers do not have standard and narrow options. **Bore size** 25A-MHZ2-32 D M9BW ø32, ø40 Series compatible with Number of auto switches secondary batteries 2 pcs. S 1 pc. Number of fingers • "n" pcs. n 2 2 fingers Auto switch Bore size Nil Without auto switch (Built-in magnet) **32** 32 mm * Refer to page 163 for the applicable auto switch **40** 40 mm model. Finger option Action • [Standard] **D** Double acting 1: Side tapped 2: Through-holes 3: Flat type

mounting

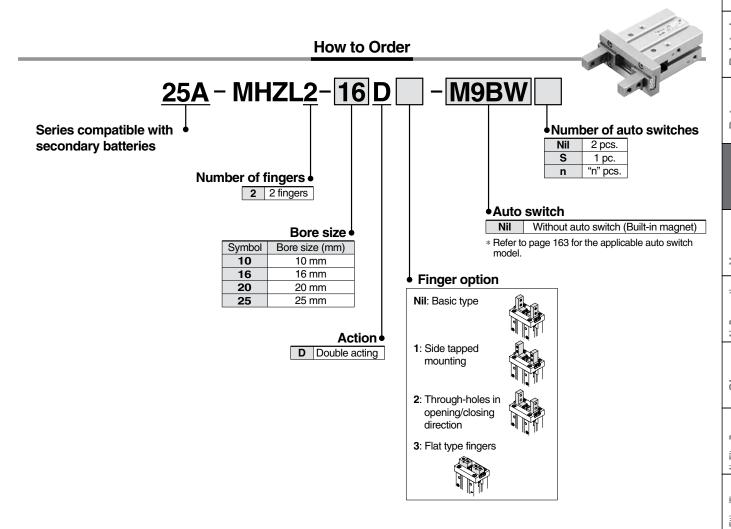
Basic type

st Specifications and dimensions for the 25A-series are the same as standard products.

Parallel Style Air Gripper Long Stroke Type

Series 25A-MHZL2





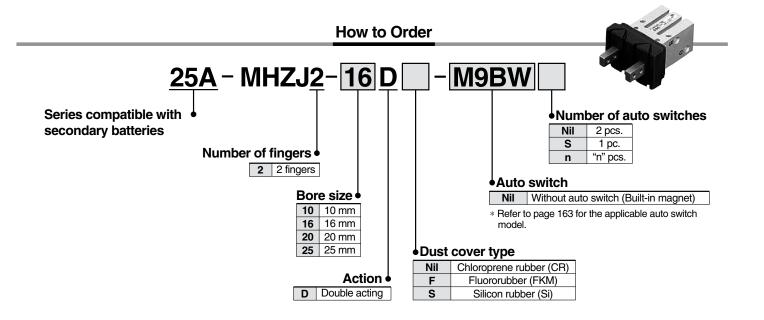
Parallel Style Air Gripper with Dust Cover



Series 25A-MHZJ2

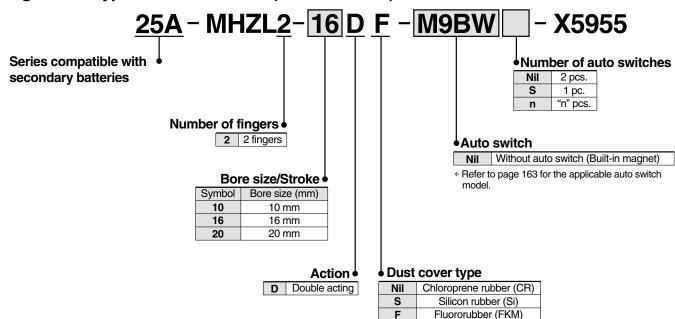
Parallel Style Air Gripper with Dust Cover: Long Stroke Type

Series 25A-MHZL2 (Made to Order)



^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Long Stroke Type/ With Dust Cover (Made to Order)



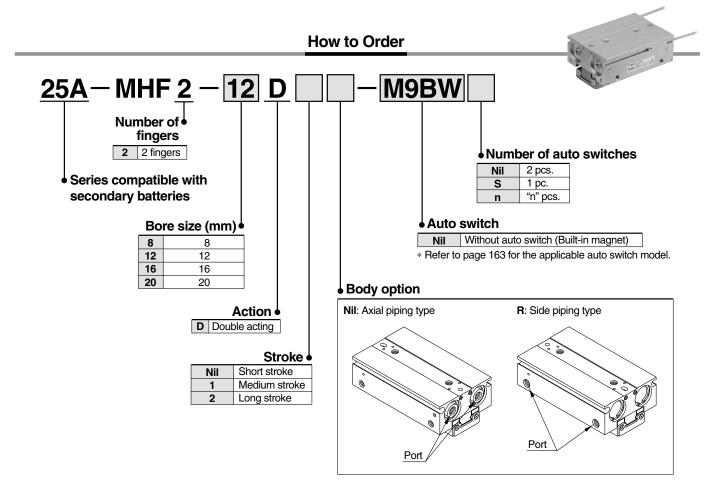
^{*} Specifications for the 25A-series are the same as standard products.



Low Profile Air Gripper

Series 25A-MHF2

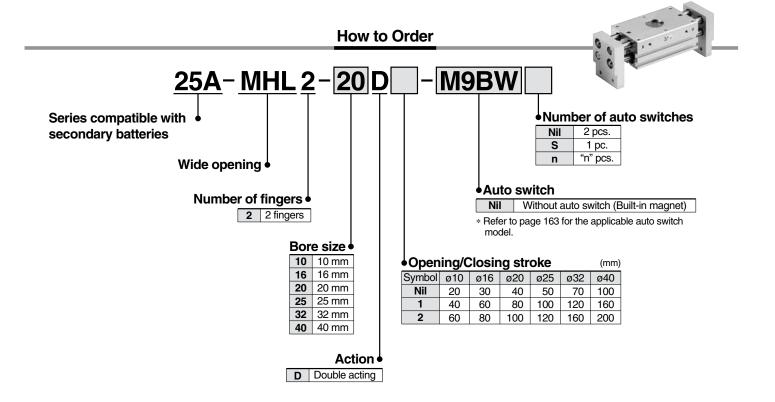




Parallel Style Air Gripper: Wide Type

Series 25A-MHL2 ø10, ø16, ø20, ø25, ø32





^{*} Specifications and dimensions for the 25A-series are the same as standard products (Weight is not the same).

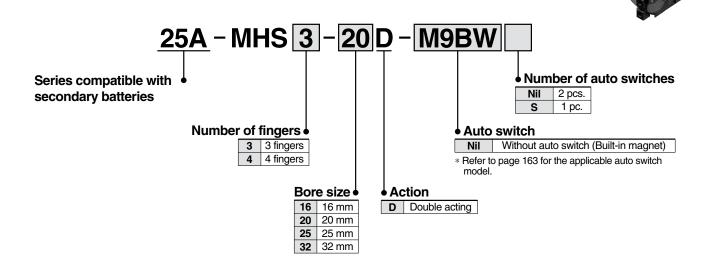
Parallel Style Air Gripper

Series 25A-MHS

ø16, ø20, ø25

RoHS

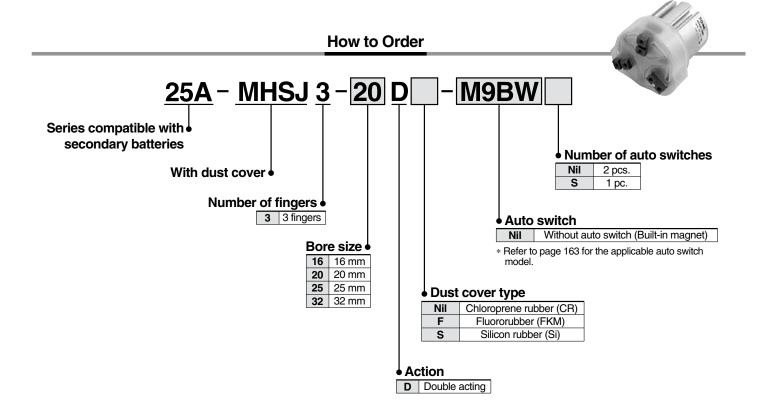
How to Order



Parallel Style Air Gripper 3-Finger Type with Dust Cover

Series 25A-MHSJ3 ø16, ø20, ø25





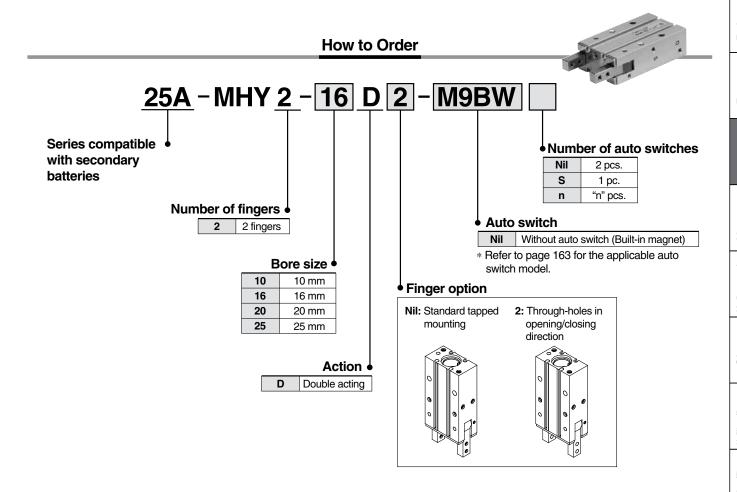
^{*} Specifications and dimensions for the 25A-series are the same as standard products.



180° Angular Style Air Gripper Cam Style

Series 25A-MHY2 Ø10, Ø16, Ø20, Ø25





Vacuum Unit Series 25A-ZK2





How to Order Single Unit

Ejector System (with Valve)

Ejector System (without Valve)

25A-ZK2 A 12 K 5 A L - 08 - 25A-ZK2 A 12 N 0 N N - 08 - 3

Remains blank when option is not selected.

Supply valve

System/Body type

	ystell/but	ay type		
Symbol	System	Body type	Exhaust type	
A	Ejector	Single unit	Silencer exhaust	
В	system	Single trill	Port exhaust Note 1)	

Note 1) Port size of exhaust port: ø8 (Metric)

2 Nominal nozzle size

Symbol	System	Nominal size
07		ø0.7
10	Ejector	ø1.0
12	Ejector system Note 2)	ø1.2
15		ø1.5

Note 2) Standard supply pressure for nozzle size 07 to 12 is 51 psi (0.35 MPa), 15 is 58 psi (0.4 MPa)

4 Rated voltage Note 6)

Symbol	Voltage
5	24 VDC
6	12 VDC
0	When 3 is "N"

Note 6) Rated voltage for the supply and release valve

3 Combination of supply valve and release valve Note 3)

a	nd release valve Note 3)	Release valve	
Symbol	Supply valve	Release valve	
Note 5)	N.C.	N.C.	
J	N.C.	None	
R	Self-holding release valve linked Note 4)	N.C.	
N	None	None	

Note 3) Only non-locking type is available for the manual override for "K, J, R".

Note 4) Self-holding type maintains vacuum by instantaneous energization (20 ms or more). Stopping the vacuum turns on the release valve. (signal to stop vacuum not needed)

Note 5) When the digital pressure switch for vacuum with energy saving function is selected for §, select "K" for § Combination of supply valve and release valve.

5 Pressure sensor/Digital pressure switch for vacuum specifications

T	or vacuum	specifica	tions			
Symbol	Туре	Pressure range psi [kPa]	,	Specifications	Pressure ser	nsor
Р	Pressure	0 to -14.6 [0 to -101]	Analo	ng output 1 to 5 V		
Т	sensor	-14.5 to 14.5 [-100 to 100]	Analo	og output 1 to 5 V		1
Α	Digital pressure switch for vacuum		NPN	Unit selection function Note 7)		
В		0 to -14.6	2 outputs	SI unit only Note 8)	Digital pressure switch for vacuum	
С		[0 to -101]	PNP	Unit selection function Note 7)	OWNOW FOR VACOURING	
D			2 outputs	SI unit only Note 8)		
Е		-14.5 to 14.5 [-100 to 100]		Unit selection function Note 7)		
F				SI unit only Note 8)) Digita	al pressure switch
Н				Unit selection function Note 7)	for va	acuum with energy
J			2 outputs	SI unit only Note 8)	savin	ng function
K	Digital pressure		NPN	Unit selection function Note 7)	/_	
Q	switch for vacuum		1 output	SI unit only Note 8)		
R		ving [-100 to 100]	–100 to 100] PNP	Unit selection function Note 7)		
S			1 output	SI unit only Note 8)		
N		Without prea				

Manifold type is not available.

Note 7) Unit selection function is not available in Japan due to new measurement law.

Note 8) Fixed unit: kPa

Note 9) When "K, Q, R or S" is selected, select "K' for 3 Combination of supply valve and release valve. Select "W" or "L3" for 6.

Vacuum Unit Series 25A-ZK2

- PV: Air pressure supply port/Port for vacuum source (Vacuum pump)
- PS: Pilot pressure supply port
 PD: Individual release pressure supply port
- V: Vacuum port
 EXH: Exhaust port
 PE: Pilot pressure exhaust port

6 Supply valve/Release valve/Digital pressure switch for vacuum connector specifications

Cumbal	3 For supply valve	e/release valve Note 10)		1
Symbol	Connector type	Lead wire with connector	connector for pressure switch/ sensor Note 13)	
L		○ Note 11)	○ Note 14)	
L1		× Note 12)	○ Note 14)	
L2	L-type plug connector \(\cdot \text{Note 11} \)		× Note 15)	
L3		× Note 12)	× Note 15)	
w			ire for switch with aving function	
Υ		-valve	○ Note 14)	
Y1		y/release valve) selected for 3	×	
N		elected for both 3 //release valve, w or)		

- Note 10) Solenoid valve with light/surge voltage suppressor
- Note 11) Standard lead wire length for solenoid valve is 300 mm.
- Note 12) For lead wire lengths other than standard, select "L1 or L3", and order the connector assembly desired. (Refer to the table on the right.)
- Note 13) Standard lead wire length for pressure sensor is 3 m. Standard lead wire length with connector for vacuum pressure switch and the lead wire length for switch with energy saving function is 2 m.
- Note 14) Select "L, L1, Y" when the pressure sensor (P, T) is selected for Pressure sensor/Digital pressure switch for vacuum specifications. Since only grommet type is available for the pressure sensor, sensor without lead wire cannot be selected.
- Note 15) Select when no vacuum pressure switch, pressure sensor, or vacuum pressure switch with connector without lead wire is used.

Optional specifications/Functions/Applications Note 17)

Symbol	Type	Function/Application	∕
-	,,	i unction/Application	
Nil	Without option		
В	With one bracket for mounting a single unit (Mounting screw is attached.)	Use when a single unit is mounted to the floor in an upright position is requested. (The part number for ordering only a bracket is ZK2-BK1-A. Bolt nuts are included.)	Bracket
D	With individual release pressure supply (PD) port type Note 18)	 Use when supply pressure for vacuum release which pressure is different from the ejector supply pressure is requested. 	PD port
J	Vacuum break flow adjustment needle Round lock nut type	Thicker than standard hexagon type. More suitable for hand tightening. Round lock nut improves operability when port exhaust type is used.	Vacuum break flow adjustment needle
K	Vacuum break flow adjustment needle Screwdriver operation type	· Slotted type improves fine adjustment performance when port exhaust type is used.	Vacuum break flow adjustment needle
w	With exhaust interference prevention valve Note 19), 20), 21)	When ejectors are operated individually, exhausted air may flow backward from the V port of ejectors that are OFF. Exhaust interference prevention valve prevents back flow.	Exhaust interference prevention valve

Note) Refer to the WEB catalog or the Best Pneumatics No. 4 when mounting single unit to DIN rail.

Vacuum (V) port Note 16) Symbol Type Port size ø6 06 One-touch fitting

Note 16) Supply port size of single unit: ø6

Metric size ø8 08 One-touch fitting

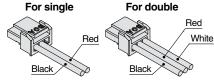
Connector assembly

	,	
ZK2 - LV	W	A

Lead wire length

	Valve type K/R		Nil	300 mm
W	(With supply valve		6	600 mm
	and release valve)	pipply valve asse valve) 6 600 10 1000 20 2000	1000 mm	
s	Valve type J (Supply valve only)		20	2000 mm
<u> </u>	(Supply valve only)		30	3000 mm

For single



Single Unit and Options Note 22)

	Ω	6	A	•	A	A	6		•	3	
	v	0	Ð	•	•	U	v	В	D	J	K
ZK2	A	07 10 12	Ķ.j	5	P	L	06	•	•	•	•
ZNZ	В	12 15	Ř	0	N	N	08	•	•	•	•

Note 22) When "J or N" is selected for 3 Combination of Supply Valve and Release Valve, "D, J or K" cannot be selected for 8 Optional Specifications/Functions/Applications.

For options not in the table, please contact SMC.

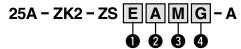
- Note 17) When more than one option is selected, list the option symbols in an alphabetical order. Example) -BJ
- Note 18) Use One-touch fittings or barb fittings with O.D. ø8 or less for piping. (Recommended fitting: KQ2S23-M3G)
- Note 19) To prevent backflow of the exhaust air, not for holding vacuum. This option does not completely stop the backflow of the exhaust air. Select port exhaust type depending on purpose.
- Note 20) When "J" is selected for 3 Combination of supply valve and release valve and "W" (exhaust interference prevention valve type) is selected for 8 Optional specifications/Functions/Applications, install a release valve or vacuum breaker.
- Note 21) When "K", "Q", "R", or "S" is selected for § Pressure sensor/Digital pressure switch for vacuum specifications, the exhaust interference prevention valve is provided. So, it is not necessary to select "W".



Series 25A-ZK2

Replacement Parts/How to Order

■ Vacuum pressure switch assembly



Rated pressure range and function

E	0 to -14.6 psi [0 to -101 kPa]	Vooruse areas as itale	Onen cellector O cutouto
F	-14.5 to 14.5 psi [-100 to 100 kPa]	Vacuum pressure switch	Open collector 2 outputs
٧	-14.5 to 14.5 psi [-100 to 100 kPa]	Pressure switch with energy saving function	Open collector 1 output

2 Output specifications

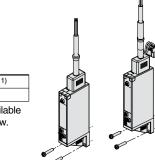
<u> </u>	output specified	4.
Α	NPN	
В	PNP	

3 Unit specifications

•				
Nil Unit selection function Note 1)				
M	SI unit only Note 2)			

Note 1) Unit selection function is not available in Japan due to measurement law.

Note 2) Fixed unit: kPa



4 Lead wire with connector

Nil		None				
	With lead	When 1 is E or FFor vacuum pressure switch, Lead wire with connector (Length 2 m)				
	wire	When ① is VFor switch with energy saving function, Lead wire with connector (Length 2 m)				

- Lead wire with connector for vacuum pressure switch (When individual lead wire is necessary, order with the part number below.)
- Lead wire with connector for vacuum pressure switch
 ZS 39 5G
- Lead wire with connector for switch with energy saving function

■ Pressure sensor assembly

Rated pressure range and specifications

	ana opcomoationo					
0 to -14.6 psi [0 to -101 kPa]. Output: 1 to 5 V, Accuracy: ±2% F.S. or less						
3	-14.5 to 14.5 psi [-100 to 100 kPa], Output: 1 to 5 V, Accuracy: ±2% F.S. or less					



MC		11

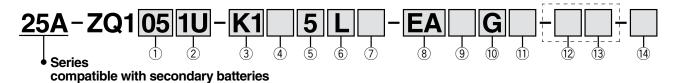


Space Saving Vacuum Ejector

Series 25A-ZQ

How to Order

Ejector Unit



1 Nozzle nominal size

05	ø0.5
07	ø0.7
10	ø1.0

2 Exhaust type

	With silencer for single unit	
3M	With silencer for manifold	

③ Solenoid valve combination (Refer to Table (1).)

Symbol	Supply valve	Vacuum release valve	
K1	Normally closed	Normally closed	
K2 Note 1)	Normally open	Normally closed	
J1	Normally closed	None	
J2 Note 1)	Normally open	None	
Q1	Latching positive common	Normally closed	
Q2	Latching positive common	None	
N1	Latching negative common	Normally closed	
N2	Latching negative common	None	

Note 1) In cases when "K2" or "J2" (supply valve normally open) is selected for the solenoid valve combination, when vacuum is stopped for long periods of time (10 minutes or more), do not continue to energize the supply valve, and shut off the air supply.

4 Pilot valve (Refer to Table (1).)

ſ	Nil Standard (DC: 1 W) ^{Note 2)}			
	Y DC low wattage type (0.5 W) ^{Note}			
	Note 2) Avoid energizing the solenoid valve			
	for long periods of time. (Refer to			

Note 2) Avoid energizing the solenoid valve for long periods of time. (Refer to Design and Selection on Specific Product Precautions.)

(5) Solenoid valve rated voltage (Refer to Table (1).)

		CE-compliant
1 Note 3)	100 VAC (50/60 Hz)	_
2 Note 3)	200 VAC (50/60 Hz)	_
3 Note 3)	110 VAC (50/60 Hz)	_
4 Note 3)	220 VAC (50/60 Hz)	_
5	24 VDC	•
6	12 VDC	•

Note 3) CE-compliant products are not available for "1", "2", "3" and "4".

Table (1) Combination of Solenoid Valve, Pilot Valve and Power Supply Voltage

Combination	Solenoid valve combination	Pilot valve		Applicab	le power	supply vo	oltage (V)	
no.	symbol	symbol	100 AC	200 AC	110 AC	220 AC	24 DC	12 DC
1	K1	Nil	_	_	_	_	•	•
2	K1	Y	_	_	_		•	•
3	K2	Nil	_	_	_		•	•
4	J1	Nil	•	•	•	•	•	•
5	J1	Y	_	_	_		•	•
6	J2	Nil	_	_	_		•	•
7	Q1	Nil	_	_	_		•	
8	Q2	Nil	•	•	•	•	•	•
9	N1	Nil	_	_	_		•	•
10	N2	Nil	_		_		•	•

 $[\]ast$ Combinations $\ensuremath{\textcircled{1}}$ to $\ensuremath{\textcircled{10}}$ in the above table are the only possible options.



6 Electrical entry

L	L-type plug connector, with 0.3 m lead wire, with light/surge voltage suppressor	
LC	L-type plug connector, without connector, with light/surge voltage suppressor	
G	Grommet, with 0.3 m lead wire (Latching/AC type: Not applicable)	

7 Manual override Note 4)

Nil Non-locking push type Latching type: Push-locking type B Locking type (Q1/Q2/N1/N2: Not applicable)	

Note 4) Latching type supply valve: Available in "Nil" only. In this case, the supply valve and release valve come with a push-locking type.

8 Vacuum pressure switch suction filter Note 5)

EA	0 to -14.6 psi [0 to -101 kPa]/NPN open collector 2 outputs, with suction filter				
EB	0 to -14.6 psi [0 to -101 kPa]/PNP open collector 2 outputs, with suction filter				
EC	0 to -14.6 psi [0 to -101 kPa]/NPN open collector 1 output + analog voltage, with suction filter				
EE	0 to -14.6 psi [0 to -101 kPa]/PNP open collector 1 output + analog voltage, with suction filter				
FA	14.5 to -14.5 psi [100 to -100 kPa]/NPN open collector 2 outputs, with suction filter				
FB	14.5 to -14.5 psi [100 to -100 kPa]/PNP open collector 2 outputs, with suction filter				
FC	14.5 to -14.5 psi [100 to -100 kPa]/NPN open collector 1 output + analog voltage, with suction filter				
FE	14.5 to -14.5 psi [100 to -100 kPa]/PNP open collector 1 output + analog voltage, with suction filter				
F	Suction filter only				

Note 5) The filter included in this product is of an simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please make additional use of an air suction filter of the ZFA, ZFB or ZFC series.

⚠Warning

The filter case of this suction filter is made of nylon. Contact with alcohol or similar chemicals may cause it to be damaged. Also, do not use the filter when these chemicals are present in the atmosphere.

11) Check valve Note 8)

Nil	None
K	With check valve

Note 8) The check valve has a function to prevent the exhaust air from the silencer overflowing to the vacuum port side when a manifold is used. However, depending on usage conditions, it does not always suppress air overflow to the desired extent. During usage, please inspect thoroughly with actual machine. Also, in order to completely prevent the overflow of exhaust air, leave plenty of space between the check valve unit and adjacent ejector to avoid interference from the ejector's exhaust unit.

△ Warning

- 1) Cannot be used for vacuum retention.
- ② Use a release valve. (Without a release valve, a workpiece may not be released.)

12 Fitting (V port)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)

(13) Fitting (P port)

Symbol	Applicable tubing O.D.	Object spec.
Nil	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

Vacuum pressure switch unit specifications

Nil	With unit switching function Note 6)
M	Fixed SI unit Note 7)
Р	With unit switching function Note 6)
P	(Initial value psi)

Note 6) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.

Note 7) Fixed unit: kPa

10 Vacuum pressure switch lead wire specifications

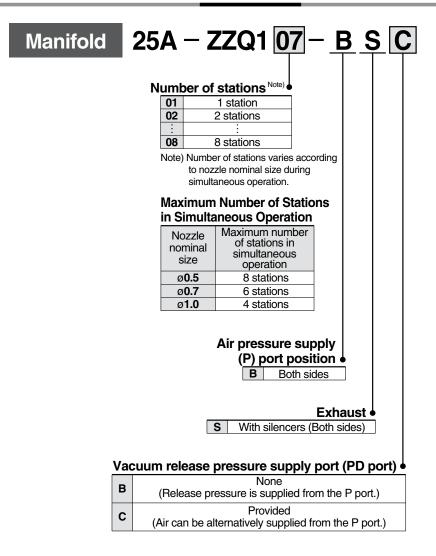
Nil	Without connector
G	Lead wire with connector (Lead wire length 2 m)
	With connector cover

(4) CE-compliant

Nil	_		
Q	CE-compliant		
Note) CE-compliant: For DC only			

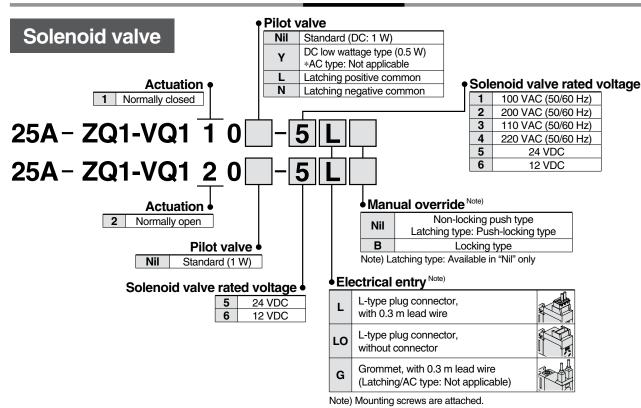


How to Order



^{*} Specifications and dimensions for the 25A-series are the same as standard products.

How to Order





25A - ZQ1-ZS

Vacuum pressure switch specifications •

EA	0 to -14.6 psi [0 to -101 kPa]/NPN open collector 2 outputs, with suction filter
EB	0 to -14.6 psi [0 to -101 kPa]/PNP open collector 2 outputs, with suction filter
EC	0 to -14.6 psi [0 to -101 kPa]/NPN open collector 1 output + analog voltage, with suction filter

EE 0 to -14.6 psi [0 to -101 kPa]/PNP open collector 1 output + analog voltage, with suction filter

FA 14.5 to -14.5 psi [100 to -100 kPa]/NPN open collector 2 outputs, with suction filter

14.5 to -14.5 psi [100 to -100 kPa]/PNP open collector 2 outputs, with suction filter FC 14.5 to -14.5 psi [100 to -100 kPa]/NPN open collector 1 output + analog voltage, with suction filter

FE 14.5 to -14.5 psi [100 to -100 kPa]/PNP open collector 1 output + analog voltage , with suction filter

Vacuum pressure switch unit specifications

Nil	With unit switching function Note 1)
M	Fixed SI unit Note 2)
Р	With unit switching function Note 1) (Initial value psi)

Note 1) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.

Note 2) Fixed unit: kPa

Vacuum pressure switch lead wire specifications

Nil	Without connector
G	Lead wire with connector (lead wire length 2 m)
	With connector cover

Fitting (V port)

	· · · · · · · · · · · · · · · · · · ·	•	
Symbol	Applicable tubing O.D.	Aр	
0	Without fitting (M5 x 0.8)	Vitl	

Check valve Note 3)

Nil	None
K	With check valve

Note 3) The check valve has a function to prevent the exhaust air from the silencer overflowing to the vacuum port side when a manifold is used, but it is incapable of completely preventing overflow. During usage, please inspect thoroughly with actual machine.

> Also, in order to completely prevent the overflow of exhaust air, leave plenty of space between the check valve unit and adjacent ejector to avoid interference from the ejector's exhaust unit.

∆Warning

- 1) Cannot be used for vacuum retention.
- 2 Use a vacuum release valve. (Without a vacuum release valve, the workpiece may not be released.)

Lead wire with connector part no.	Note	
ZS-39-5G	Lead wire length 2 m (With connector cover)	

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



Space Saving Vacuum Pump System

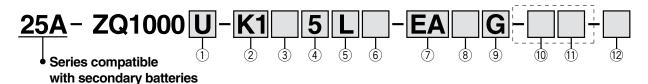
For DC only.

Series 25A-ZQ

Note) CE-compliant:

How to Order

Vacuum pump unit



1) Body type

U	For single unit
М	For manifold

② Solenoid valve combination (Refer to Table (1).)

Symbol Supply valve		Vacuum release valve
K1 Normally closed		Normally closed
K2 Note 1)	Normally open	Normally closed
J1	Normally closed	None
J2 Note 1) Normally open		None
Q1 Latching positive common		Normally closed
Q2	Latching positive common	None
N1	Latching negative common	Normally closed
N2	Latching negative common	None

The air in the adsorption section of this product is not released to the atmosphere at the vacuum suspension state. As for "K1", "K2", "Q1" and "N1", use the vacuum release valve when a workpiece is detached. Concerning "J1", "J2", "Q2" and "N2", devise the circuit for the

vacuum release additionally when a workpiece is detached.

Note 1) In cases when "K2" or "J2" (supply valve normally open) is selected for the solenoid valve combination, when vacuum is stopped for long periods of time (10 minutes or more), do not continue to energize the supply valve, and shut off the air supply.

③ Pilot valve (Refer to Table (1).)

Nil	Standard (DC: 1 W) ^{Note 2)}
Υ	DC low wattage type (0.5 W) Note 2)

Note 2) Avoid energizing the solenoid valve for long periods of time. (Refer to Specific Product Precautions; Caution on Design and Selection.)

4 Solenoid valve rated voltage (Refer to Table (1).)

		CE-compliant
1 Note 3)	100 VAC (50/60 Hz)	_
2 Note 3)	200 VAC (50/60 Hz)	_
3 Note 3)	110 VAC (50/60 Hz)	_
4 Note 3)	220 VAC (50/60 Hz)	_
5	24 VDC	•
6	12 VDC	•

Note 3) CE-compliant products are not available for "1", "2", "3" and "4".

Table (1) Combination of Solenoid Valve, Pilot Valve and Rated Voltage

Combination	Solenoid valve combination	Pilot valve symbol	Applicable power supply voltage (V)					
no.	symbol		100 AC	200 AC	110 AC	220 AC	24 DC	12 DC
1	K1	Nil	_	_	_	_	•	•
2	K1	Y	_	_	_	_	•	•
3	K2	Nil	_	_	_	_	•	•
4	J1	Nil	•	•	•	•	•	•
5	J1	Y	_	_	_	_	•	•
6	J2	Nil	_	_	_	_	•	•
7	Q1	Nil	_	_	_	_	•	•
8	Q2	Nil	•	•	•	•	•	•
9	N1	Nil	_	_	_	_	•	•
10	N2	Nil	_	_	_	_	•	•

 $[\]ast$ Combinations ① to in the above table are the only possible options.



5 Electrical entry

L	L-type plug connector, with 0.3 m lead wire, with light/surge voltage suppressor	
LO	L-type plug connector, without connector, with light/surge voltage suppressor	
G	Grommet, with 0.3 m lead wire (Latching/AC type: Not applicable)	

6 Manual override Note 4)

Nil	Non-locking push type Latching type: Push-locking type
В	Locking type (Q1/Q2/N1/N2: Not applicable)

Note 4) Latching type supply valve: Available in "Nil" only. In this case, the supply valve and release valve come with a push-locking type.

(7) Vacuum pressure switch suction filter Note 5)

EA	0 to -14.6 psi [0 to -101 kPa]/NPN open collector 2 outputs, with suction filter
EB	0 to -14.6 psi [0 to -101 kPa]/PNP open collector 2 outputs, with suction filter
EC	0 to -14.6 psi [0 to -101 kPa]/NPN open collector 1 output + analog voltage, with suction filter
EE	0 to -14.6 psi [0 to -101 kPa]/PNP open collector 1 output + analog voltage, with suction filter
FA	14.5 to -14.5 psi [100 to -100 kPa]/NPN open collector 2 outputs, with suction filter
FB	14.5 to -14.5 psi [100 to -100 kPa]/PNP open collector 2 outputs, with suction filter
FC	14.5 to -14.5 psi [100 to -100 kPa]/NPN open collector 1 output + analog voltage, with suction filter
FE	14.5 to -14.5 psi [100 to -100 kPa]/PNP open collector 1 output + analog voltage, with suction filter
F	Suction filter only

Note 5) The filter included in this product is of an simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please make additional use of an air suction filter of the ZFA, ZFB or ZFC series.

△ Warning

The filter case of this suction filter is made of nylon. Contact with alcohol or similar chemicals may cause it to be damaged. Also, do not use the filter when these chemicals are present in the atmosphere.

8 Vacuum pressure switch unit specifications

Nil	With unit switching function Note 6)
M	Fixed SI unit Note 7)
Р	With unit switching function Note 6) (Initial value psi)

Note 6) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.

Note 7) Fixed unit: kPa

9 Vacuum pressure switch lead wire specifications

Nil	Without connector
	Lead wire with connector
G	(Lead wire length 2 m)
	With connector cover

10 Fitting (V port) Note 8)

Sy	/mbol	Applicable tubing O.D.
	0	Without fitting (M5 x 0.8)

11) Fitting (PS / PV port) Note 8)

Symbol	Applicable tubing O.D.	Part no.	Object spec.
Nil	Without port	_	Manifold
0	Without fitting (M5 x 0.8)	_	Single unit

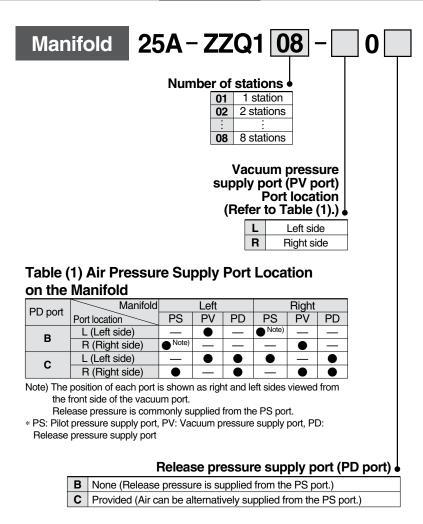
12 CE-compliant

Nil	_
Q	CE-compliant

Note) CE-compliant: For DC only.

Note 8) For filter only (Without vacuum pressure switch) When neither V port fitting nor PS/PV port fitting are needed, enter nothing or -00 in the dotted line "How to Order".

How to Order





Air Cylinders

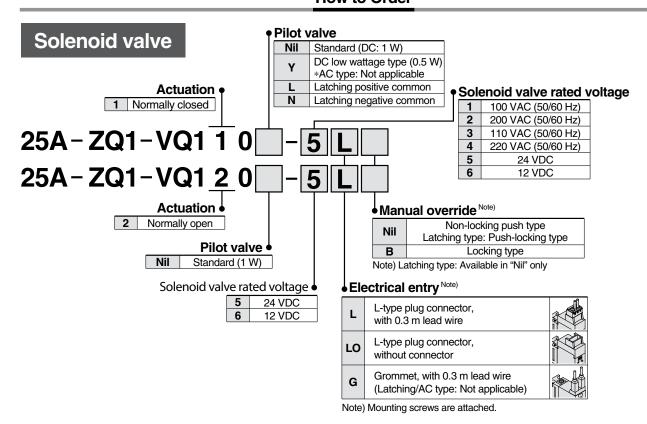
Related Products

Rotary Actuators

Air Grippers

Air Preparation





25A-ZQ1-ZS



EB

Vacuum pressure switch specifications 0 to -14.6 psi [0 to -101 kPa]/NPN open collector 2 outputs, with suction filter 0 to -14.6 psi [0 to -101 kPa]/PNP open collector 2 outputs, with suction filter EC 0 to -14.6 psi [0 to -101 kPa]/NPN open collector 1 output + analog voltage, with suction filter EE 0 to -14.6 psi [0 to -101 kPa]/PNP open collector 1 output + analog voltage, with suction filter FA 14.5 to -14.5 psi [100 to -100 kPa]/NPN open collector 2 outputs, with suction filter FB 14.5 to -14.5 psi [100 to -100 kPa]/PNP open collector 2 outputs, with suction filter FC 14.5 to -14.5 psi [100 to -100 kPa]/NPN open collector 1 output + analog voltage, with suction filter FE 14.5 to -14.5 psi [100 to -100 kPa]/PNP open collector 1 output + analog voltage, with suction filter

Vacuum pressure switch unit specifications

	•	
Nil With unit switching function Note 1		
M	Fixed SI unit Note 2)	
Р	With unit switching function Note 1)	
P	(Initial value psi)	

Note 1) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.

Note 2) Fixed unit: kPa

Vacuum pressure switch lead wire specifications

Nil	Without connector	
G	Lead wire with connector (Lead wire length 2 m) With connector cover	

Fitting (V port)

Symbol Applicable tubing O.D. Without fitting (M5 x 0.8)

Check valve Note 3)

Nil None		
K	With check valve	

Note 3) The check valve has a function to prevent the exhaust air from the silencer overflowing to the vacuum port side when a manifold is used, but it is incapable of completely preventing overflow. During usage, please inspect thoroughly with actual machine.

Also, in order to completely prevent the overflow of exhaust air, leave plenty of space between the check valve unit and adjacent ejector to avoid interference from the ejector's exhaust unit.

∆Warning

- (1) Cannot be used for vacuum retention.
- 2 Use a vacuum release valve. (Without a vacuum release valve, the workpiece may not be released.)

Lead wire with connector part no.	Note
ZS-39-5G	Lead wire length 2 m (With connector cover)

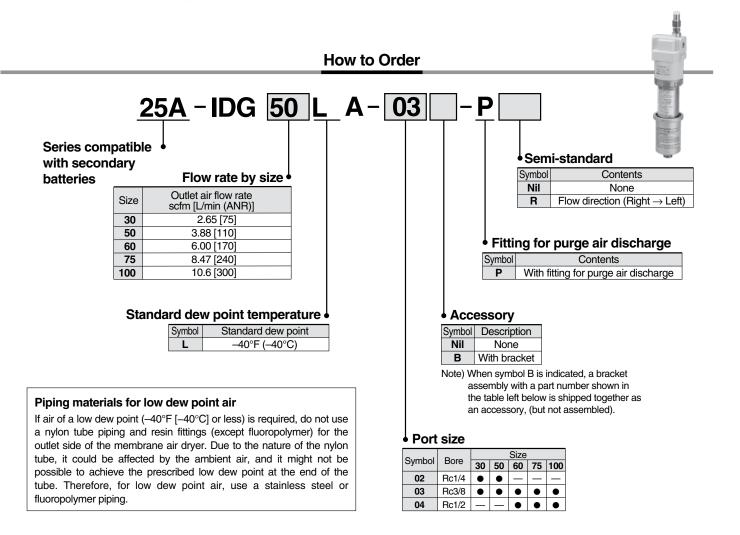
^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Membrane Air Dryer

Series 25A-IDG



Single Unit/Standard Dew Point –40°F (–40°C) Specifications



Bracket Assembly (Accessory) Part No.

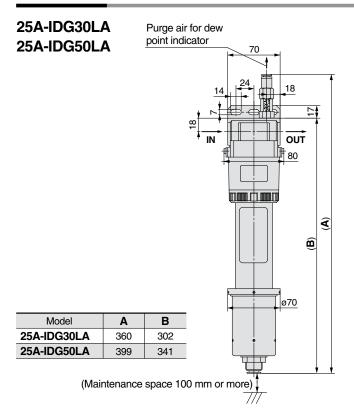
Part no.	Applicable model
25A-BM64	25A-IDG30LA, 50LA
25A-BM65	25A-IDG60LA, 75LA, 100LA

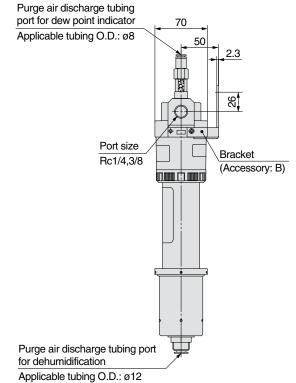
^{*} With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).



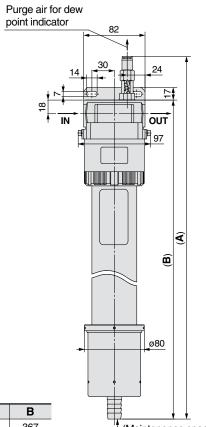
^{*} Specifications for the 25A-series are the same as standard products.

Dimensions

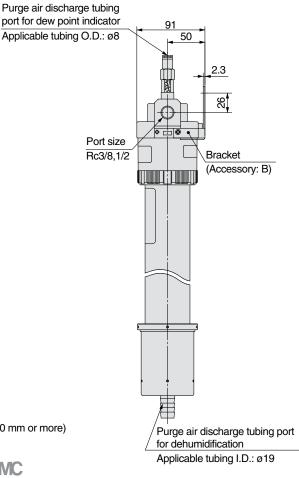




25A-IDG60LA 25A-IDG75LA 25A-IDG100LA



-	Ø80
Model A B	₩ ↓ ↓
25A-IDG60LA 426 367	(Maintenance space 100 mm or more)
25A-IDG75LA 495 436	
25A-IDG100LA 560 501	CONC



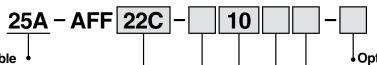
Main Line Filter

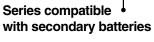


Series 25A-AFF

How to Order

25A-AFF2C to 25A-AFF22C





Body size ⋅

Symbol	Applicable compressor output (guide)
2C	2.2 kW
4C	3.7 kW
8C	7.5 kW
11C	11 kW
22C	22 kW

Thread type

Symbol	Type
Nil	Rc
F	G *1
N	NPT

Conforms to ISO1179-1.

Option

Symbol	Description
Nil	_
J *4,*5	Drain guide 1/4 female threaded
R	IN-OUT reversal direction
Т	With element service indicator

*5 Drain piping and piping for a stop valve such as ball valve are required.

Auto drain*4

Symbol	Description	
Nil	Drain cock (Without auto drain)	
С	N.C. auto drain	
D	N.O. auto drain	

*4 Only one drain exhaust method can be selected. The drain cock, N.C. auto drain, N.O. auto drain and drain guide cannot be selected together.

Bracket Assembly Part No.*3

Applicable model	Part no.
25A-AFF2C	25A-AM-BM101
25A-AFF4C	25A-AM-BM102
25A-AFF8C	25A-AM-BM103
25A-AFF11C	25A-AM-BM104
25A-AFF22C	25A-AM-BM105

^{*3} With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

Port size

0	Symbol	Size	Applicable body size			:e	
	Symbol	Size	2C	4C	8C	11C	22C
	01	1/8		_	_	_	_
	02	1/4			_	_	_
	03	3/8				_	_
	04	1/2	_	_	•		_
	06	3/4	_	_			
	10	1				_	

Accessory

Symbol	Description
Nil	
В	Bracket *2

*2 When symbol "B" is indicated, a bracket assembly with a part number shown in the left table is shipped together as an accessory, (but not assembled).

25A-AFF37B/75B

25A - AFF 37B Series compatible with secondary batteries Thread type

Type

Rc G NPT

Symbol

Nil

Symbol

Nil

Body size

Symbol	Applicable compressor output (guide)
37B	37 kW
75B	75 kW

Port size •

Cumbal	Size	Applicable body size	
Symbol Size	Size	37B	75B
10	1	•	_
14	11/2	•	•
20	2	_	•

Bracket Assembly Part No.*3

Diagnotification in an entire	
Applicable model	Part no.
25A-AFF37B	25A-BM56
25A-AFF75B	25A-BM57

*3 With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

Option

Symbol	Description
Nil	_
J *4,*5	Drain guide 1/4 female threaded (37B only)
R	IN-OUT reversal direction
Т	With element service indicator

*5 Drain piping and piping for a stop valve such as ball valve are required.

Symbol	Description	
Nil	Drain cock (Without auto drain) *2	
D	N.O. auto drain (37B only)	

- *2 Body size 75B is equipped with a ball valve (Rc 3/8 female threaded).
- *4 Body size 37B: Only one drain exhaust method can be selected. The drain cock, N.O. auto drain and drain guide cannot be selected together.

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



Accessory 4

Description

Bracket *1

*1 When symbol "B" is indicated,

a bracket assembly with a

part number shown in the left

table is shipped together as

an accessory, (but not

RoHS

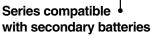
Mist Separator

Series 25A-AM

How to Order

25A-AM150C to 25A-AM550C

25A - AM 550C



Body size

Symbol	Applicable compressor output (guide)
150C	2.2 kW
250C	3.7 kW
350C	7.5 kW
450C	11 kW
550C	22 kW

Thread type

Symbol	Type
Nil	Rc
F	G *1
N	NPT

*1 Conforms to ISO1179-1.

Option

Symbol	Description
Nil	_
J *4,*5	Drain guide 1/4 female threaded
R	IN-OUT reversal direction
т	With element convice indicator

*5 Drain piping and piping for a stop valve such as ball valve are required.

Auto drain*4

Symbol	Description
Nil	Drain cock (Without auto drain)
C	N.C. auto drain
D	N.O. auto drain

*4 Only one drain exhaust method can be selected. The drain cock, N.C. auto drain, N.O. auto drain and drain guide cannot be selected

Bracket Assembly Part No.*3

Applicable model	Part no.
25A-AM150C	25A-AM-BM101
25A-AM250C	25A-AM-BM102
25A-AM350C	25A-AM-BM103
25A-AM450C	25A-AM-BM104
25A-AM550C	25A-AM-BM105

*3 With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

Port size

Cumbal	Size	Applicable body size				
Symbol	Size	150C	250C	350C	450C	550C
01	1/8		_	_	_	_
02	1/4	•		_	_	_
03	3/8	—			_	_
04	1/2	_	_	•		_
06	3/4	_	_	_		
10	1	_	_	_	_	

Accessory

Symbol	Description	
Nil	_	
В	Bracket *2	

*2 When symbol "B" is indicated, a bracket assembly with a part number shown in the left table is shipped together as an accessory, (but not assembled).

25A-AM650/850

25A - AM | 650 | Series compatible with secondary batteries

Body size

Symbol	Applicable compressor output (guide)
650	37 kW
850	75 kW

Port size

Symbol Nil

Thread type

Type

Rc

G NPT

Symbol

Nil

Symbol	Size	Applicable	body size
Symbol	Size	650	850
10	1	•	_
14	11/2	•	•
20	2	_	•

Bracket Assembly Part No *3

	Diagnotification in a contract					
Applicable model		Part no.				
	25A-AM650	25A-BM56				
Ī	25A-AM850	25A-BM57				

*3 With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

Option

Symbol	Description
Nil	_
J*4,*5	Drain guide 1/4 female threaded (650 only)
R	IN-OUT reversal direction
Т	With element service indicator

*5 Drain piping and piping for a stop valve such as ball valve

♣ Auto drain*4

Symbol	Description			
Nil	Drain cock (Without auto drain) *2			
D	N.O. auto drain (650 only)			

- *2 Body size 850 is equipped with a ball valve (Rc 3/8 female threaded).
- *4 Body size 650: Only one drain exhaust method can be selected. The drain cock, N.O. auto drain and drain guide cannot be selected together.

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



Accessory Description

Bracket *1

*1 When symbol "B" is indicated,

a bracket assembly with a

part number shown in the left table is shipped together as an accessory, (but not

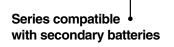


Micro Mist Separator

Series 25A-AMD

How to Order

25A-AMD150C to 25A-AMD550C 25A - AMD 550C 10





550C

Part no.

25A-AM-BM101

25A-AM-BM102

25A-AM-BM103

25A-AM-BM104

25A-AM-BM105

Thread type

Symbol	l type
Nil	Rc
F	G *1
N	NPT

*1 Conforms to

ISO1179-1.

Port size

Symbol	Size	Applicable body size				
Symbol	Size	150C	250C	350C	450C	550C
01	1/8		_	_		_
02	1/4			_		_
03	3/8	_				
04	1/2	_	_		•	_
06	3/4	_	_	_	•	
10	1			_		

Option

Symbol	Description
Nil	
J *4,*5	Drain guide 1/4 female threaded
R	IN-OUT reversal direction
Т	With element service indicator

*5 Drain piping and piping for a stop valve such as ball valve are required.

Auto drain*4

	Symbol	Description
Nil Drai		Drain cock (Without auto drain)
	С	N.C. auto drain
	D	N.O. auto drain

*4 Only one drain exhaust method can be selected. The drain cock, N.C. auto drain, N.O. auto drain and drain guide cannot be selected together.

Accessory

Symbol	Description		
Nil	_		
В	Bracket *2		

*2 When symbol "B" is indicated, a bracket assembly with a part number shown in the left table is shipped together as an accessory, (but not assembled).

Description

Drain guide 1/4 female threaded (650 only)

IN-OUT reversal direction

With element service indicator

*5 Drain piping and piping for a stop valve such as ball valve

and spring washers (2 pcs.).

25A-AMD650/850

*3 With hexagon socket head bolts (2 pcs.)

Bracket Assembly Part No.*3

Applicable model 25A-AMD150C

25A-AMD250C 25A-AMD350C

25A-AMD450C

25A-AMD550C

25A - AMD | 650 Series compatible Option Symbol Thread type Nil

with secondary batteries Body size

650

Symbol Type Nil Rc 650 G 850 Ν NPT

Port size

850

Applicable body size

Accessory -

Symbol	Description	
Nil	_	
В	Bracket *1	
	1 1 (DIII 1 II 1	

*1 When symbol "B" is indicated, a bracket assembly with a part number shown in the left table is shipped together as an accessory, (but not assembled).

Auto drain*4

J*4,*5

R

Symbol		
Nil Drain cock (Without auto drain) *		
D	N.O. auto drain (650 only)	

*2 Body size 850 is equipped with a ball valve (Rc 3/8 female threaded).

are required

*4 Body size 650: Only one drain exhaust method can be selected. The drain cock, N.O. auto drain and drain guide cannot be selected together.

Bracket Assembly Part No.*3

Applicable model	Part no.
25A-AMD650	25A-BM56
25A-AMD850	25A-BM57

^{*3} With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

^{*} Specifications and dimensions for the 25A-series are the same as standard products.



Symbol

10 14 20 Size

2

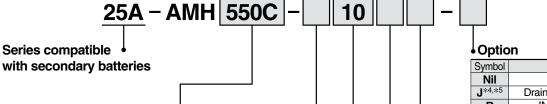


Micro Mist Separator with Pre-filter

Series 25A-AMH

How to Order

25A-AMH150C to 25A-AMH550C



Body size

150C
250C
350C
450C
550C

Thread type

Symbol	Type		
Nil	Rc		
F	G *1		
NPT			
1 Conforma to			

Conforms to ISO1179-1.

Port size

	Symbol	Description		
Nil —		_		
	J *4,*5	Drain guide 1/4 female threaded		
	R	IN-OUT reversal direction		
	Т	With element service indicator		

*5 Drain piping and piping for a stop valve such as ball valve are required.

Auto drain*4

	Symbol	Description	
	Nil	Drain cock (Without auto drain)	
1110131313		N.C. auto drain	
		N.O. auto drain	

*4 Only one drain exhaust method can be selected. The drain cock, N.C. auto drain, N.O. auto drain and drain guide cannot be selected together.

Bracket Assembly Part No.*3

	, ,
Applicable model	Part no.
25A-AMH150C	25A-AMBM101
25A-AMH250C	25A-AMBM102
25A-AMH350C	25A-AMBM103
25A-AMH450C	25A-AMBM104
25A-AMH550C	25A-AMBM105

^{*3} With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

Syrribor	Size	150C	250C	350C	450C	550C
01	1/8		_	_	_	_
02	1/4			_	_	_
03	3/8	_			_	_
04	1/2	_	_			_
06	3/4	_				
10	1	_	_	_	_	•

Applicable body size

Accessory

Symbol	Description	
Nil	_	
В	Bracket *2	

*2 When symbol "B" is indicated, a bracket assembly with a part number shown in the left table is shipped together as an accessory, (but not assembled).

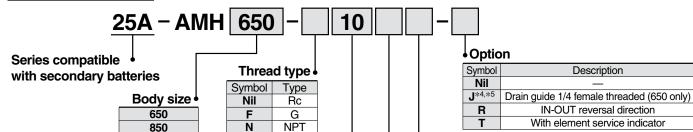
Description

IN-OUT reversal direction

With element service indicator

*5 Drain piping and piping for a stop valve such as ball

25A-AMH650/850



Port size

Symbol	Size	Applicable body size		
Symbol	Size	650	850	
10	1	•	_	
14	11/2	•	•	
20	2	_	•	

Bracket Assembly Part No.*3

Applicable model	Part no.
25A-AMH650	25A-BM56
25A-AMH850	25A-BM57

*3 With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

Accessory 4

Symbol	Description
Nil	
В	Bracket *1

*1 When symbol "B" is indicated, a bracket assembly with a part number shown in the left table is shipped together as an accessory, (but not assembled).

♣ Auto drain^{*4}

Symbol	Description
Nil	Drain cock (Without auto drain) *2
D	N.O. auto drain (650 only)

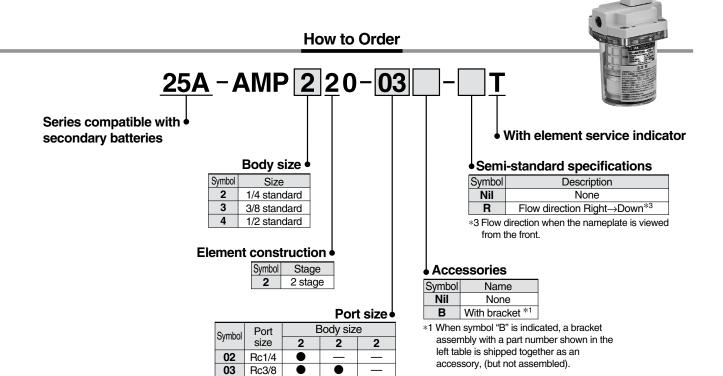
- *2 Body size 850 is equipped with a ball valve (Rc 3/8 female threaded).
- *4 Body size 650: Only one drain exhaust method can be selected. The drain cock, N.O. auto drain and drain guide cannot be selected together.
- * Specifications and dimensions for the 25A-series are the same as standard products.



Exhaust Cleaner for Clean Room

Series 25A-AMP





Bracket Assembly Part No.*2

	· , · · · · · · · · · · · · · · · · · ·
Applicable model	Part no.
25A-AMP220	25A-BM66
25A-AMP320	25A-BM67
25A-AMP420	25A-BM68

04

Rc1/2 Rc3/4

^{*2} With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

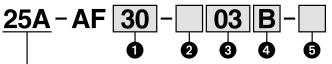
^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Air Filter

25A-AF20 to 25A-AF60



How to Order



- Series compatible with secondary batteries
- Option/Semi-standard: Select one each for a to c.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
- Example) 25A-AF30-N03B-RZ

		Combal		0						
			Symbol Description		Body size					
					20	30	40	50	60	
			Nil	Rc	•	•	•	•	•	
2		Thread type	N	NPT	•	•	•	•	•	
			F	G	•	•	•	•	•	
			+							
			01	1/8	•	_	_	_	_	
			02	1/4	•	•	•	_	_	
3	Port size	Port cizo	03	3/8	_	•	•	_	_	
9		04	1/2	_	_	•	_	_		
			06	3/4		_		•	_	
			10	1	_	_	_	•		
			+							
	Option	a Mounting	Nil	Without mounting option		•	•	•	•	
J	ဝြ	a Woulding	B Note 1)	With bracket		•			•	
			+							
	교	b Flow direction	Nil	Flow direction: Left to right	•	•	•	•	•	
	믿닏	- 1 low direction	R	Flow direction: Right to left			•			
6	\$\$ \$		+							
	<u> Ē</u>	c Pressure unit	Nil	Name plate and caution plate for bowl in imperial units: MPa	•	•	•	•	•	
	တြ	ressure unit	Z Note 2)	Name plate and caution plate for bowl in imperial units: psi, °F	Note 2)	Note 2)	Note 2)	Note 2)	Note 2)	

Note 1) A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws. Note 2) O: For thread type: NPT. This product is for overseas use only according to the new Measurement Law.

(The SI unit type is provided for use in Japan.)

Air Cylinders Control Valves

Related Products

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Mist Separator

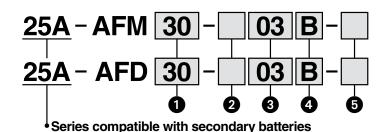
25A-AFM20 to 25A-AFM40 Micro Mist Separator

25A-AFD20 to 25A-AFD40

- Series 25A-AFM Nominal filtration rating: 0.3 µm
- Series 25A-AFD Nominal filtration rating: 0.01µm



How to Order



Option/Semi-standard: Select one each for a to c.
 Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) 25A-AFM30-N03B-RZ

	_	_					7		
				Symbol	Description	Body size			
						20	30	40	
				Nil	Rc	•	•	•	
6		Th	read type	N	NPT	•	•	•	
			· · ·	F	G	•	•	•	
				+					
				01	1/8	•	_	_	
			02	1/4	•	•	•		
0	Port size		03	3/8	_	•	•		
				04	1/2	_	_	•	
				06	3/4	_	_	•	
				+					
8	Option	а	Mounting	Nil	Without mounting option	•	•	•	
0	8	а	wounting	B Note 1)	With bracket	•	•	•	
				+					
	DE	b	Flow direction	Nil	Flow direction: Left to right	•	•	•	
	B	D	I IOW GITECTION	R	Flow direction: Right to left	•	•	•	
9	Semi-standard			+					
	<u> </u>	С	Proceure unit	Nil	Name plate and caution plate for bowl in imperial units: MPa	•		•	
	တြ		Pressure unit	Z Note 2)	Name plate and caution plate for bowl in imperial units: psi, °F	Note 2)	Note 2)	Note 2)	

Note 1) A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws.

Note 2) \bigcirc : For thread type: NPT. This product is for overseas use only according to the new Measurement Law.

(The SI unit type is provided for use in Japan.)



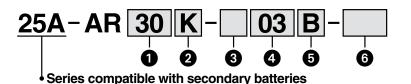
25A-AR20 to 25A-AR60

Regulator with Backflow Function

25A-AR20K to 25A-AR60K



How to Order



- Option/Semi-standard: Select one each for a to e.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) 25A-AR30K-03B-1NR

		Cumbal											
			Symbol Description		Description					Body	Body size		
							20		25	30	40	50	60
0		Wit	th backflow	Nil	Without backflow function		•		•	•	•	•	_
2			function	K	With backflow function				•	•		•	
				+									
				Nil	Rc				•	•		•	
8		Th	read type	N	NPT				•	•			
				F	G				•				
				+		_							
				01	1/8				_	—	_	—	_
				02	1/4				•			_	_
A	Port size 03 04 06 10 +		03	3/8		_		•	•		_	_	
U				1/2		_		_	_		_	_	
			06	3/4		_		_	_			_	
			10	1									
			+										
N	Note 1) a			Nil	Without mounting option				•	•			
6		а	Mounting	B Note 2)	With bracket				•				
			Н	With set nut (For panel fitting)				•			_	_	
		+											
		b	Set pressure	Nil	7.3 to 123 psi (0.05 to 0.85 MPa) setting				•				
		D	Set pressure	1 Note 3)	2.9 to 29 psi (0.02 to 0.2 MPa) setting				•				
	_			+									
	ac		Exhaust	Nil	Relieving type				•	•	•		
	2	С	mechanism	N	Non-relieving type				•	•	•	•	
6	sta			+									
	Semi-standard	d	Flow direction	Nil	Flow direction: Left to right				•	•		•	
		u	riow direction	R	Flow direction: Right to left				•	•	•	•	
	0)			+									
			Drocouro unit	Nil	Name plate and pressure gauge in imperial units: MPa		•		•	•	•	•	
		e	Pressure unit	Z Note 4)	Name plate and pressure gauge in imperial units: psi		Note 4	4)	Note 4)	O Note 4	Note 4)	Note 4)	Note 4)

- Note 1) Option "B", "H" are not assembled and supplied loose at the time of shipment.
- Note 2) Assembly of a bracket and set nuts (25A-AR20(K) to 25A-AR40(K)). Including 2 mounting screws for the 25A-AR50(K) and 25A-AR60(K).
- Note 3) Pressure can be set at the upper limit of the specification or more, however, be sure to set the pressure within specification.
- Note 4) \bigcirc : For thread type: NPT. This product is for overseas use only according to the new Measurement Law.

(The SI unit type is provided for use in Japan.)

* Specifications and dimensions for the 25A-series are the same as standard products.

Bracket, Set Nut Part No. for Series 25A-

Diacket, Set Nut Fait	blacket, Set Nut Fait No. 101 Selies 25A-									
Model Option	25A-AR20 (K)	25A-AR25 (K)	25A-AR30 (K)	25A-AR40 (K)	25A-AR50 (K) 25A-AR60 (K)					
Bracket assembly Note 1)	AR20P-270AS	AR25P-270AS	AR30P-270AS	AR40P-270AS	25A-AR50P-270AS Note 2)					
Set nut	AR20P-260S	AR25P-260S	AR30P-260S	AR40P-260S	Note 3)					

Note 1) Assembly of a bracket and set nuts.

Note 2) Assembly of a bracket and 2 mounting screws.

Note 3) Please consult with SMC regarding the set nuts for the 25A-AR50(K) and 25A-AR60(K).



Directional Control Valves

Air Cylinders C

icts Air

Related rs Products

Rotary Actuators

l Air Grippers

Vacuum Equipment

Air Preparation Equipment

Clean

Filter Regulator

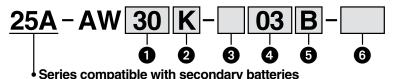
25A-AW20 to 25A-AW60

Filter Regulator with Backflow Function

25A-AW20K to 25A-AW60K



How to Order



- Option/Semi-standard: Select one each for a to e.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) 25A-AW30K-03B-1N

	• 3	ene	s companible	with 5	econdary batteries						
			Symbol Description		Description	Body size					
					20	30	40	60			
				Nil	Without backflow function		•	•	•		
0	Wi	th ba	ackflow function	K	With backflow function	•	•	•	•		
				+							
				Nil	Rc		•	•	•		
8		Th	read type	N	NPT	•	•	•	•		
		71		F	G	•	•	•	•		
				+							
				01	1/8	•	_	_	_		
				02	1/4	•	•	•	_		
4		Port size		03	3/8	_	•	•	_		
U				04	1/2		_	•	_		
			06	3/4	_	_	•	•			
				10	1	_	_	_	•		
	Ina. o			+							
	Note 1)	a Moi		Nil	Without mounting option		•	•	•		
•	Option		а	Mounting	Mounting	Mounting	B Note 2)	With bracket	•	•	•
				Н	With set nut (For panel fitting)			•			
				+							
		b	Set pressure	Nil	73 to 123 psi (0.05 to 0.85 MPa) setting		•	•	•		
			·	1 Note 3)	2.9 to 29 psi (0.02 to 0.2 MPa) setting		•	•			
				+	Delianing to a						
	9	С	Exhaust mechanism	Nil	Relieving type		•	•			
	dar		moonamom	N	Non-relieving type						
A	tan			+ Nil	Flow direction: Left to right						
6	i-S	d	Flow direction	R	Flow direction: Left to right Flow direction: Right to left						
	Semi-standard	L l l		<u> </u>	i low direction. Hight to left						
	(0)		D	Nil	Name plate, caution plate for bowl, and pressure gauge in imperial units: MPa	•	•	•	•		
		е	Pressure unit	Z Note 4)	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	Note 4)	Note 4)	Note 4)	Note 4)		
								1			

Note 1) Option "B", "H" are not assembled and supplied loose at the time of shipment.

Note 2) Assembly of a bracket and set nuts (25A-AW20K to 25A-AW40K). Including 2 mounting screws for the 25A-AW60K.

Note 3) Pressure can be set at the upper limit of the specification or more, however, be sure to set the pressure within specification.

Note 4) \bigcirc : For thread type: NPT. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

* Specifications and dimensions for the 25A-series are the same as standard products.

Bracket, Set Nut Part No. for Series 25A-

Model Option	25A-AW20 (K)	25A-AW30 (K)	25A-AW40 (K)	25A-AW60 (K)
Bracket assembly Note 1)	AW20P-270AS	AR30P-270AS	AR40P-270AS	25A-AW60P-270AS Note 2)
Set nut	AR20P-260S	AR30P-260S	AR40P-260S	Note 3)

Note 1) Assembly of a bracket and set nuts.

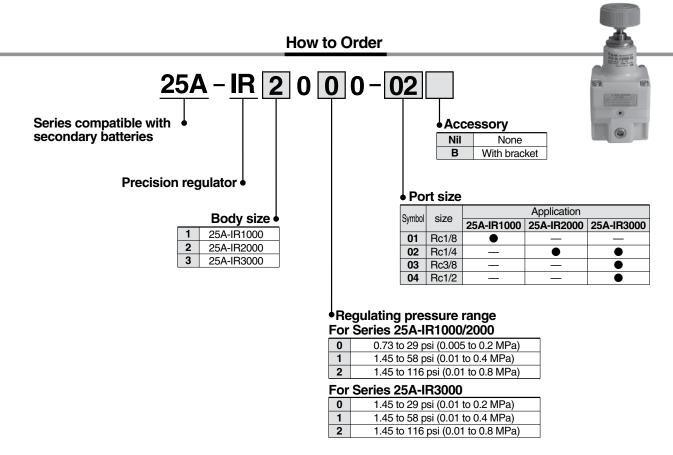
Note 2) Assembly of a bracket and 2 mounting screws.

Note 3) Please consult with SMC regarding the set nuts for the 25A-AW60(K).



Precision Regulator

Series 25A-IR1000/2000/3000



^{*} Some assemblies other than the above models are available. Consult with SMC for availability.



Electro-Pneumatic Regulator



Series 25A-ITV2000

How to Order 25A - ITV 2 0 1 0 - 0 Series compatible with secondary batteries Model • 1000 type Pressure display unit 2000 type 2 MPa 3000 type 2 Note) kgf/cm² bar Pressure range • 5 kPa 14.5 psi (0.1 MPa) Note) This product is for overseas 72.5 psi (0.5 MPa) use only according to the 131 psi (0.9 MPa) new Measurement Law. (The SI unit type is provided for use in Japan.) Power supply voltage 24 VDC 12 to 15 VDC Cable connector type Straight type 3 m Input signal • Without cable connector Current type 4 to 20 mA DC (Sink type) Note) A dedicated cable connector whose material was changed is Current type 0 to 20 mA DC (Sink type) used. Voltage type 0 to 5 VDC 2 Voltage type 0 to 10 VDC 3 Bracket 40 4 points preset input Nil Without bracket Flat bracket L-bracket Monitor output Note) The dedicated brackets with Analog output 1 to 5 VDC Raydent treatment are used. Switch output/NPN output 2 3 Switch output/PNP output Port size Analog output 4 to 20 mA DC (Sink type) 4 None (For 4 points preset input) Nil 1/8 (1000 type) 1/4 (1000, 2000, 3000 type) 3/8 (2000, 3000 type) 1/2 (3000 type) Thread type

* Since an electrical circuit is used, this product is not completely copper-free. Only the wetted parts are copper-free.

Nil

N T

F

Rc NPT

NPTF

G

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Booster Regulator











Body size 1/4", Handle-operated type 10A Pressure increase 3/8", Handle-operated type 20A ratio: Twice 40A 1/2", Handle-operated type

Thread type Note)

Symbol	Thread type
Nil	Rc
F	G
N	NPT
Т	NPTF

Note) Thread types apply to the IN, OUT, and EXH ports of the VBA10A and to the IN, OUT, EXH, and gauge ports of the VBA20A and VBA40A. The gauge ports of the VBA10A are Rc thread type regardless of the thread type indication.

Port size

Symbol	Port size	Applicable series
02	1/4	VBA10A
03	3/8	VBA20A
04	1/2	VBA40A

Option

Symbol	Option				
Nil	None				
N	Silencer				
S	High-noise reduction silencer Note)				
LN	Elbow silencer Note)				
LS	Elbow high-noise reduction silencer Note)				

Note) Refer to "Combination of Thread Type and Options." Pressure gauge is not available as an option.





Combination of Thread Type and Options

Rectueize Thread Option Semi-standard							
Body size	Thread		Option				
	type	Nil	N	S	LN	LS	Nil
10A	Nil	•	•	•	•	•	•
	F	•	•	•	•	•	•
	N	•	•	_	•	_	•
	Т	•	•	_	•	_	•
20A	Nil	•	•	•			•
	F	•	•	•			•
	N	•	•	•			•
	T	•	•	•			•
40A	Nil	•	•	•			•
	F	•	•	•			•
	N	•	•	•			•
	T	•	•	•			•

All Tank Compatibility Chart				
Booster regulator	25A-VBA10A	25A-VBA20A	25A-VBA40A	
Air tank				
25A-VBAT05A1	•	_	_	
25A-VBAT05S1				
25A-VBAT10A1			_	
25A-VBAT10S1				
25A-VBAT20A1				
25A-VBAT20S1				
25A-VBAT38A1				
25A-VBAT38S1	_			

Nil	•	•	•	•	•	•
F	•	•	•	•	•	•
N	•	•	_	•	_	•
Т	•	•	_	•	_	•
Nil	•	•	•			•
F	•	•	•			•
N	•	•	•			•
Т	•	•	•			•
Nil	•	•	•			•
F	•	•	•			•
N	•	•	•			•
Т	•	•	•			•
		Air Table	Oo	ility Char		

⚠ Caution

Not compatible with a low dew point

Air Tank

Series 25A-VBAT



How to Order

- Compact connections are possible with booster regulators.
- It can be used alone as a tank.



Note) The thread type



25A – VBAT 10 A 1

Tank internal capacity

Symbol	Internal capacit
05	5 L
10	10 L
20	20 L
38	38 L

Material

Symbol	Material			
Α	Carbon steel (SS400)			
S	Stainless steel			

Note 1) Order drain valve (VBAT-V2) separately. Note 2) Safety valve is not available as an option.

Series compatible with secondary batteries

⚠ Caution

When used as a single unit (not connected with a booster regulator) and pressurized at over 1 MPa at normal temperatures, the air tank falls under the scope of the "High Pressure Gas Safety Act" in Japan.

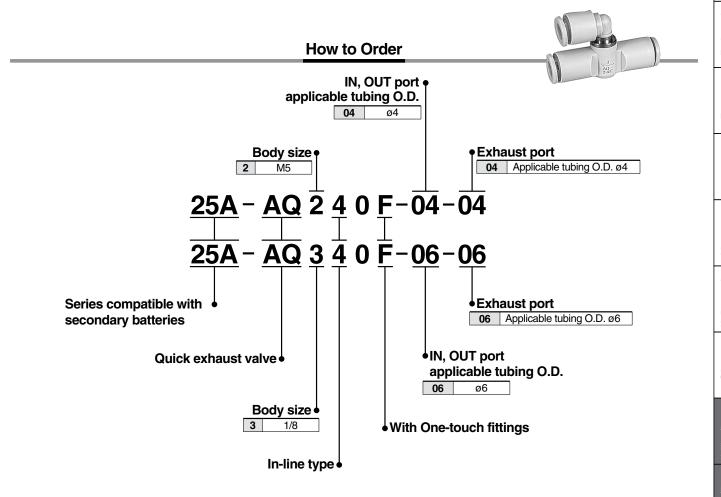


^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Quick Exhaust Valve with One-touch Fittings



Series 25A-AQ240F/340F



^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Air Cylinders Control Valves

Related Products

Vacuum Air Grippers Actuators

Clean Air Preparation
Air Filters Equipment

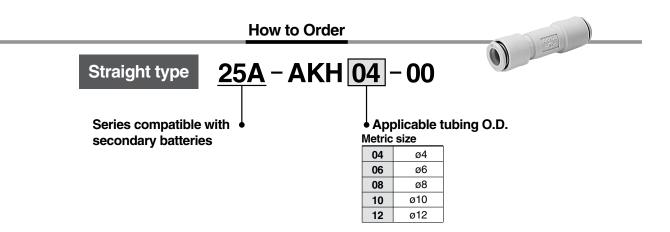
Detection Switches

Auto Electric Fluid Control Switches Actuators Equipment

Check Valvewith One-touch Fittings

Series 25A-AKH





^{*} Specifications and dimensions for the 25A-series are the same as standard products.



2-Color Display High-Precision **Digital Pressure Switch**



Series 25A-ZSE30A(F)/25A-ISE30A

How to Order



Option 3

Symbol

Nil

Κ

Panel mount adapter 25A-ZS-27-C

Panel mount adapter + Front protection cover 25A-ZS-27-D

Operation

manual

0

Note) All texts in both English

and Japanese

Calibration

O

25A - ISE30A - 01 - N - M Series compatible with secondary batteries

Rated pressure range

ISE30A	-14.5 to 145 psi (-0.1 to	1 MPa)
ZSE30A	0 to -14.6 psi (0 to -101	kPa)
ZSE30AF	-14.5 to 14.5 psi (-100 to	100 kPa)

Piping specifications

01	R1/8 (M5 female threaded)	
----	------------------------------	--

Output specifications

NPN open collector 1 output
PNP open collector 1 output
NPN open collector 2 outputs
PNP open collector 2 outputs
NPN open collector 1 output + Analog voltage output
NPN open collector 1 output + Analog current output
PNP open collector 1 output + Analog voltage output
PNP open collector 1 output + Analog current output

^{*} Made to Order

Unit specifications

Nil	With display unit Note 1)
	switching function
M	Fixed SI unit Note 2)
P*	With display unit Note 1)
	switching function
	(Initial value psi)

^{*} Made to Order

Note 1) Under the New Measurement Law, sales of switches with the unit switching function have not been allowed for use in Japan.

Note 2) Unit: kPa, MPa

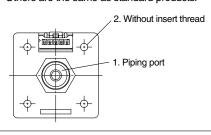
Option 1

Nil	Without lead wire	
L	Lead wire with connector (Lead wire length 2 m) Note)	
G	Lead wire with connector (Lead wire length 2 m) Note) With connector cover	Connector cover

Note) For output types "N" and "P", the number of core of lead wires will be 3, and for other types, 4 cores will be required.

Secondary Batteries (25A) **Specifications**

- 1. Piping port material: Stainless steel
- 2. Without insert thread for bracket mounting Others are the same as standard products.





Option 2 Nil None

В

D



144

2-Color Display High-Precision Digital Pressure Switch



Series 25A-ZSE40A(F)/25A-ISE40A

How to Order

25A - ISE40A - 01 - X SDPC - M Option 2

Series compatible with secondary batteries

Rated pressure range

ISE40A	-14.5 to 145 psi (-0.1 to 1 MPa)
ZSE40A	0 to -14.6 psi (0 to -101 kPa)
ZSE40AF	-14.5 to 14.5 psi (-100 to 100 kPa)

Piping specifications

01 R1/8	R1/8
(With M5 female thread	M5×0.8

Output specifications

Symbol	Wiring specifications	
X		NPN open collector 2 outputs
Υ		PNP open collector 2 outputs
R	SDPC	NPN open collector 1 output + Analog voltage output/Auto-shift switching
S		NPN open collector 1 output + Analog current output/Auto-shift switching
Т		PNP open collector 1 output + Analog voltage output/Auto-shift switching
٧		PNP open collector 1 output + Analog current output/Auto-shift switching
Х		NPN open collector 2 outputs + Copy function
Υ		PNP open collector 2 outputs + Copy function
R	Nil	NPN open collector 2 outputs + Analog voltage output/Auto-shift switching
s		NPN open collector 2 outputs + Analog current output/Auto-shift switching
Т		PNP open collector 2 outputs + Analog voltage output/Auto-shift switching
V		PNP open collector 2 outputs + Analog current output/Auto-shift switching

Wiring specifications

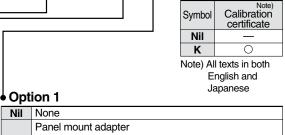
SDPC	M12 4-pin pre-wired connector (Lead wire length 0.5 m)
Nil	Without connector (Lead wire length 2 m)

Unit specifications •

Nil	With unit switching function Note 1)	
M	Fixed SI unit Note 2)	
Р	With unit switching function Note 1) (Initial value psi)	

Note 1) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.

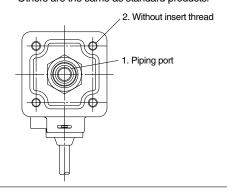
Note 2) Unit: kPa, MPa



Nil	None
E	Panel mount adapter ZS-35-C
F	Panel mount adapter + Front protective cover ZS-35-F

Secondary Batteries (25A) Specifications

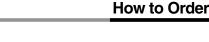
- 1. Piping port material: Stainless steel
- 2. Without insert thread for bracket mounting Others are the same as standard products.





2-Color Display **Digital Pressure Switch for General Fluids**

Series 25A-ZSE80(F)/25A-ISE80



25A - ISE80 - 02 - A SDPC - M Option 2

Series compatible with secondary batteries

Rated pressure range

ISE80	-14.5 to 145 psi (-0.1 to 1 MPa)
ZSE80	0 to -14.6 psi (0 to -101 kPa)
ZSE80F	-14.5 to 14.5 psi (-100 to 100 kPa)

Piping specifications •

	02	R1/4
		(M5 female threaded)

Output specifications

- Carpar opcomodici				
Symbol	Wiring specifications			
Α		NPN open collector 2 outputs		
В		PNP open collector 2 outputs		
R	SDPC	NPN open collector 1 output + Analog voltage output/Auto-shift switching		
s		NPN open collector 1 output + Analog current output/Auto-shift switching		
Т		PNP open collector 1 output + Analog voltage output/Auto-shift switching		
٧		PNP open collector 1 output + Analog current output/Auto-shift switching		
N		NPN open collector 1 output		
Р		PNP open collector 1 output		
Α		NPN open collector 2 outputs		
В		PNP open collector 2 outputs		
R	Nil	NPN open collector 2 outputs + Analog voltage output/Auto-shift switching		
S		NPN open collector 2 outputs + Analog current output/Auto-shift switching		
Т		PNP open collector 2 outputs + Analog voltage output/Auto-shift switching		
V		PNP open collector 2 outputs + Analog current output/Auto-shift switching		

Wiring specifications

	SDPC	M12 4-pin pre-wired connector (Lead wire length 0.5 m)
Nil Without connector (Lead wire le		Without connector (Lead wire length 2 m)

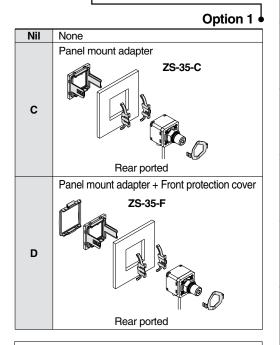
Unit specifications

Nil	With unit display switching function Note 1)
М	Fixed SI unit Note 2)
Р	Initial value psi ^{Note 1)}

Note 1) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.

Note 2) Unit: kPa, MPa





Operation Note

Note) All texts in both English and Japanese

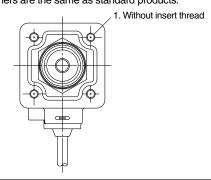
Symbol Nil

Κ

Calibration

Secondary Batteries (25A) **Specifications**

1. Without insert thread for bracket mounting Others are the same as standard products.



2-Color Display **Digital Flow Switch**



Series 25A-PFM7

How to Order



display

Integrated <u>25A</u> – PFM <u>7</u> 10 – C6 — A – M

Series compatible with secondary batteries

7 Integrated display

Rated flow range (Flow rate range) 10 0.2 to 10 (5) L/min 25 0.5 to 25 (12.5) L/min **50** 1 to 50 (25) L/min 11 2 to 100 (50) L/min

* (): Fluid: CO2

Port size

Symbol	Description	Flow rate range			
Symbol	Description	10	25	50	11
01	Rc1/8		•		_
02	Rc1/4	_	_	_	•
N01	NPT1/8	•	•	•	_
N02	NPT1/4	_		_	•
F01	G1/8		•	•	_
F02	G1/4	_		_	•
C6	ø6 One-touch fitting		•		•
C8	ø8 (5/16") One-touch fitting		•	•	•

Piping entry direction 4

Nil	Straight
L	Bottom

Output specifications •

Α	2 NPN outputs	
В	2 PNP outputs	
С	1 NPN output + Analog output (1 to 5 V)	
D	1 NPN output + Analog output (4 to 20 mA)	
Е	1 PNP output + Analog output (1 to 5 V)	
F	1 PNP output + Analog output (4 to 20 mA)	
G	1 NPN output + External input Note 3)	
Н	1 PNP output + External input Note 3)	

Note 3) User can select from accumulated value external reset, auto-shift and auto-shift zero.

Unit specifications

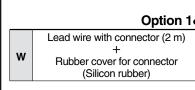
	Nil	With unit switching function Note 2)
	M	Fixed SI unit Note 1)

Note 1) Fixed unit: Instantaneous flow rate: L/min Accumulated flow: L

Note 2) Under Japan's new Measurement Act, this is only for overseas sales.

(SI units are to be used inside Japan.)

- * Specifications and dimensions for the 25A-series are the same as standard products.
- * Digital flow switch with flow adjustment valve is not standard product. It can be supplied as Made-to-Order separately.



Calibration certificate

one
ion certificate
ion certific

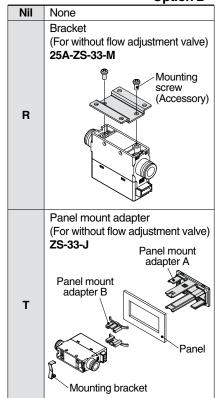
* The certificate is written in English and

Other languages are available as specials.

♦Operation manual

Nil	With operation manual (Japanese and English)
N	None

Option 2





3-color display

Digital Flow Switch for Water

Series 25A-PF3W

How to Order

Remote sensor unit

Output specification/Temperature sensor



Complete	OUT1	OUT2	Tomporatura concer
Symbol	Flow rate	Temperature	Temperature sensor
1	Analog 1 to 5 V	_	None
2	Analog 4 to 20 mA	_	INOTIE
1T	Analog 1 to 5 V	Analog 1 to 5 V	With temperature sensor

* To use in combination with remote monitor (PF3W3 series), select analog output of 1 to 5 V of flow rate (output symbol "-1" or "-1T").

Remote sensor unit/Unit printed on label

Symbol	Instantaneous flow rate	Temperature
Nil	L/min	°C
G* L/min (gal/min)		°C/°F

* Under the New Measurement Law, units other than SI (symbol: "Nil") cannot be used in Japan. Note) G: Made to Order

Reference: 1 [L/min] ← 0.2642 [gal/min] 1 [gal/min] ←→ 3.785 [L/min] °F = 9/5°C + 32

Remote sensor unit

25A-PF3W 5|04

Integrated display Series compatible with

secondary batteries

5 Remote sensor unit Integrated display

Rated flow range • (Flow range)

Symbol	Rated flow range
04	0.13 to 1.05 gal/min [0.5 to 4 L/min]
20	0.53 to 4.23 gal/min [2 to 16 L/min]
40	1.32 to 10.6 gal/min [5 to 40 L/min]
11	2.64 to 26.4 gal/min [10 to 100 L/min]

Flow adjustment valve

•							
Cumahal	With/without flow	Rated flow rate					
Symbol	adjustment valve	04	20	40	11		
Nil	None			•	•		
S	S Yes				_		

100 L/min type is not available with flow adjustment valve.

NPT G Port size

Rc

Thread type

	Rated flow range				
size	04	20	40	11	
3/8	•	•	_	_	
1/2	_	•	•	_	
3/4	_	_	•	•	
1/1	_	_	_	•	
	3/8 1/2 3/4	3/8 • 1/2 — 3/4 —	3/8 • • 1/2 · • 3/4 · · ·	3/8 • • — 1/2 — • • 3/4 — —	

Nil

N

Integrated display Output specification/

Temperature sensor

same as standard products.	
Note 1) External input: The accumulated value, peak	b
value, pour	

* Specifications and

dimensions for the 25A-series are the

value, and bottom value can No

te 2) For units with
temperature sen-
sor, OUT2 can
be set as either
temperature out-
put or flow rate
output. Setting
when shipped is
for temperature
output.

Symbol	OUTT	O	i emperature	
Symbol	Flow rate	Flow rate	Temperature	sensor
Α	NPN	NPN	_	
В	PNP	PNP	_	
С	NPN	Analog 1 to 5 V	_	
D	NPN	Analog 4 to 20 mA	_	None
E	PNP	Analog 1 to 5 V	_	None
F	PNP	Analog 4 to 20 mA	_	
G	NPN	External input Note 1)	_	
Н	PNP	External input Note 1)	_	
AT	NPN	(NPN) Not	te 2) NPN	
BT	PNP	(PNP) Not	te 2) PNP	With
СТ	NPN	(Analog 1 to 5 V) Not	^{te 2)} Analog 1 to 5 V	
DT	NPN	(Analog 4 to 20 mA) Not	he 2) Analog 4 to 20 mA	temperature
ET	PNP	(Analog 1 to 5 V) Not	^{te 2)} Analog 1 to 5 V	sensor
FT	PNP	(Analog 4 to 20 mA) Not	te 2) Analog 4 to 20 mA	

Options/Part No.

When optional parts are required separately, use the following part numbers to place an order.

Description	Part no	Qty.	No	ote
	25A-ZS-40-K	1	For PF3W704/720/504/520	With 4 tapping screws (3 x 8)
Bracket Note)	25A-ZS-40-L	1	For PF3W740/540	With 4 tapping screws (3 x 8)
	25A-ZS-40-M	1	For PF3W711/511	With 4 tapping screws (4 x 10)
Lead wire with M8 connector	25A-ZS-40-A	1	Lead wire le	ength (3 m)

Note) For units with flow adjustment valve, 2 brackets are required.

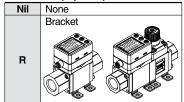


Calibration certificate (Only flow sensor)

	, ,
Nil	None
Α	With calibration certificate
	vviiii calibration certificate

* The certificate is written in both English and Japanese. Integrated display type with temperature sensor can only display flow rate.

Bracket (Option)



Integrated display/Unit specification

s	ymbol	Instantaneous flow rate	Accumulated flow	Temperature
	M	L/min	L	°C
	G	gal/min	gal	°C
	F	gal/min	gal	°F
	J	L/min	L	°F

* Under the New Measurement Law, units other than SI (symbol: "M") cannot be used in Japan. Note) "G", "F", "J": Made to Order Reference: 1 [L/min] ← 0.2642 [gal/min]

1 [gal/min] ↔ 3.785 [L/min]

Lead wire (Optio	gal/min] ← 3.785 [L/min] = = 9/5°C + 32 n)
Nil	N
With lead wire with M8 connector (3 m)	Without lead wire with M8 connector

* Specifications and dimensions for the 25A-series are the same as standard products.

3-color display

Digital Flow Switch for PVC Piping

Series 25A-PF3W (FOHS)



How to Order

Remote sensor unit Output specification •

Symbo	OUT1
1	Analog 1 to 5 V
2	Analog 4 to 20 mA
	Analog 4 to 20 mA

* To use in combination with remote monitor (PF3W3 series), select analog output of 1 to 5 V of flow rate (output symbol "-1").

Remote sensor unit/Unit printed on label

Symbol	Instantaneous flow rate
Nil	L/min
G*	L/min (gal/min)

* Under the New Measurement Law, units other than SI (symbol: "Nil") cannot be used in Japan. Note) G: Made to Order

Reference: 1 [L/min] ↔ 0.2642 [gal/min] 1 [gal/min] ↔3.785 [L/min]

Calibration certificate (Only flow sensor) None

With calibration certificate * The certificate is written in both English and Japanese.

Nil



<u>25A</u> – PF3W <u>5 11</u> – <u>U</u> <u>25</u> –

Integrated display

25A - PF3W 7 11 - U 25 - A

Series compatible with secondary batteries



Type • Remote sensor unit Integrated display

Rated flow range (Flow range)

Symbol	Rated flow range
11	2.64 to 26.4 gal/min (10 to 100 L/min)

Connection type

U PVC pipe

PVC pipe O.D.

Symbol	Port size	Pipe O.D.*
25	25A	32 mm
	IIC	V6740 equivalent

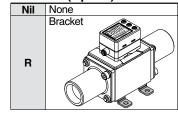
* JIS K6742 equivalent

Integrated display Output specification

Symbol	OUT1	OUT2		
Α	NPN	NPN		
В	PNP	PNP		
С	NPN	Analog 1 to 5 V		
D NPN		Analog 4 to 20 mA		
E PNP Analog 1 to		Analog 1 to 5 V		
F PNP Analog 4 to		Analog 4 to 20 mA		
G NPN		External input		
H PNP		External input		

External input: The accumulated value, peak value, and bottom value can be reset.

Bracket (Option)



Integrated display/Unit specification

Symbol	Instantaneous flow rate	Accumulated flow				
M	L/min	L				
G	gal/min	gal				

* Under the New Measurement Law, units other than SI (symbol: "M") cannot be used in Japan. Note) "G": Made to Order

Reference: 1 [L/min] ← 0.2642 [gal/min] 1 [gal/min] ↔ 3.785 [L/min]

Lead wire





Options/Part No.

* Specifications and dimensions

as standard products.

for the 25A-series are the same

When optional parts are required separately, use the following part numbers to place an order.

	•	•	
Description	Part no.	Qty.	Note
Bracket	25A-ZS-40-M	1	For PF3W711/511 With 4 tapping screws (4 x 10)
Lead wire with M8 connector	25A-ZS-40-A	1	Lead wire length (3 m)

 Specifications and dimensions for the 25A-series are the same as standard products.



Direct Operated 2 Port Solenoid Valve





Series 25A-VX21/22/23

How to Order (Single Unit)

25A – VX2

Series compatible with secondary batteries

Size/Valve type

Fluid • For air

0

Body material/Port size/Orifice diameter

*Body matchair of size of mice diame						
Symbol	Size	Valve type	Symbol	Body material	Port size	Orifice diameter
		Α			2	
			В		1/8	3
			С	A1		5
			D	Aluminum		2
			E		1/4	3
1	0: 1	Single	F			5
ı	Size 1	N.C.	Н			2
		11.0.	J		ø6 One-touch fitting	3
			K	Di	_	5
			L	Resin		2
			М		ø8 One-touch fitting	3
			N		<u> </u>	5
			Α		1/4	4
			В	Aluminum		7
		Single unit N.C.	D	D Resin	3/8	4
2	Size 2		E			7
	SIZE Z		Н		ø8 One-touch fitting	4
			J			7
			L		ø10 One-touch fitting	4
			M		Ø 10 One-touch litting	7
			Α		1/4	5
			В			8
			С			10
			D	Aluminum	3/8	5
			E			8
		Single	F			10
3	Size 3	unit	unit G 1/2	1/2	10	
		N.C.	Н		ø10 One-touch fitting	5
			J			8
			K	Resin		10
			L	- Kesin	ø12 One-touch fitting	5
			M			8
		N			10	

For other special options, refer to the standard products.

	48 VAC		
Special voltage	220 VAC		
Special Voltage	240 VAC		
	12 VDC		
DIN terminal with light			
Conduit terminal with light			
Low concentration ozone resistant (Seal material: FKM)			
Oil-free			
G thread			
NPT thread			



Common Specifications

Valve type	N.C.
Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Symbol	Voltage	Electrical entry			
A	24 VDC	Grommet			
В	100 VAC	Grommet			
С	110 VAC	/With surge voltage			
D	200 VAC	\suppressor /			
E	230 VAC				
F	24 VDC				
G	24 VDC	DIN terminal			
Н	100 VAC	With surge voltage			
J	110 VAC	\suppressor /			
K	200 VAC				
L	230 VAC				
М	24 VDC	Conduit terminal			
N	100 VAC	With surge Voltage With surge With s			
Р	110 VAC	\suppressor //			
Q	200 VAC				
R	230 VAC				
S	24 VDC	Conduit			
T	100 VAC	With surge voltage			
U	110 VAC	\suppressor /			
V	200 VAC				
W	230 VAC	***			
Y	24 VDC	Faston terminal			
Z	Other voltages and electrical options				

* Specifications and dimensions for the 25A-series are the same as standard products.

Air Cylinders Control Valves

Related Products

Rotary Actuators

Air Grippers Vacuum

Direct Operated 2 Port Solenoid Valve

For Water	Single Unit
For Oil	Single Unit
For Medium V	acuum Single Unit

Series 25A-VX21/22/23

RoHS

How to Order (Single Unit)

Series compatible with secondary batteries

Fluid

For medium vacuum

Size/Valve type	♦ Body material/Port size/Orifice diameter
-----------------	---

toize valve type			-Dou,	matoriali	01101207011	noc alameter	
Symbol	Size	Valve type		Symbol	Body material	Port size	Orifice diameter
				Н			2
				J	J	1/8	3
1	Size 1	Single unit		K	Stainless		5
•	OIZE I	N.C.		L	steel		2
				M		1/4	3
			L	N			5
		Single unit N.C.	Н			4	
	0: 0		J Stainless	1/4	7		
2	Size 2		L	steel	3/8	4	
			M			7	
				Н			5
				J		1/4	8
		Single		K			10
3	Size 3	Size 3 unit N.C.	L	Stainless steel		5	
				M		3/8	8
			N			10	
			L	Р		1/2	10

^{*} Specifications and dimensions for the 25A-series are the same as standard products.

For other special options, refer to the standard products

reier to the standard products.							
	48 VAC						
Special voltage	220 VAC						
Special voltage	240 VAC						
	12 VDC						
DIN terminal with light							
Conduit terminal with light							
G thread							
NPT thread							
Bracket interchangeable with old type							



Common Specifications

Valve type	N.C.
Seal material	FKM
Coil insulation type	Class B
Thread type	Rc

Symbol	Voltage	Electrical entry
A	24 VDC	Grommet Coil mounting screw: made of stainless steel or electroless nickel plating Outer package of coil: Resin Body: Aluminum or Resin
В	100 VAC	Grommet
С	110 VAC	/With surge voltage
D	200 VAC	\suppressor /
E	230 VAC	
F	24 VDC	
G	24 VDC	DIN terminal
Н	100 VAC	/With surge voltage
J	110 VAC	\suppressor / \suppressor \
K	200 VAC	
L	230 VAC	
M	24 VDC	Conduit terminal
N	100 VAC	With surge voltage
Р	110 VAC	\suppressor /
Q	200 VAC	
R	230 VAC	*
S	24 VDC	Conduit
Т	100 VAC	With surge voltage
U	110 VAC	\suppressor / \suppressor \
V	200 VAC	
W	230 VAC	*
Y	24 VDC	Faston terminal
Z	Ot	ther voltages and electrical options



Electric Actuator/Slider Type

Ball Screw Drive

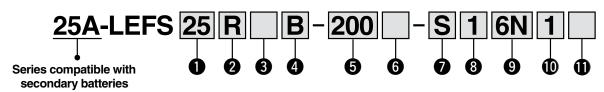
Step Motor (Servo/24 VDC) Servo Motor (24 VDC)

Series 25A-LEFS (6 PM US

LEFS16, 25, 32, 40



How to Order



Size

16 25 32 40

2 Motor mounting position

Nil	In-line
R	Right side parallel
L	Left side parallel

Motor type

	,								
Cumbal	Time		Compatible controllers/						
Symbol	Туре	LEFS16	6 LEFS25 LEFS32 LEFS40		driver				
Nil	Step motor (Servo/24 VDC)	•	•	•	•	LECP6 LECP1 LECPA LECPMJ			
Α	Servo motor (24 VDC)	•	•	_	_	LECA6			

4 Lead [mm]

Symbol	LEFS16	LEFS25	LEFS32	LEFS40
Α	10	12	16	20
В	5	6	8	10

5 Stroke [mm]

50	50
to	to
1000	1000

^{*} Refer to the applicable stroke table.

[CE-compliant products]

①EMC compliance was tested by combining the electric actuator LEF series and the controller LEC series.

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

②For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA).

Refer to the WEB catalog for the noise filter set. Refer to the LECA Operation Manual for installation.

[UL-compliant products]

When conformity to UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

Applicable stroke table



Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
LEFS16							•				_	_	_	_	_	_	_	_	_	_	50 to 500
LEFS25							•						_	—	_	_	_	_	_	_	50 to 600
LEFS32																•	—	-	_	_	50 to 800
LEFS40	_	_																			150 to 1000

* Strokes are manufacturable in 1 mm increments. Refer to the manufacturable stroke range. However, strokes other than those shown above are produced as special orders. Consult with SMC for lead times and prices.

The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and the actuator is correct.

<Check the following before use.>

- ① Check the actuator label for model number (after "25A-"). This matches the controller/driver.
- 2 Check Parallel I/O configuration matches (NPN or PNP).

LEFS16RA-400

^{*} Refer to the operation manual for using the products. Please download it via our website, http://www.smcworld.com



⁽¹⁾

Motor mounting position: In-line

Motor mounting position: Right side parallel

6 Motor option

Nil	Without option
В	With lock

Actuator cable type *1

Nil	Without cable
S	Standard cable*2
R	Robotic cable (Flexible cable)

- * 1 The standard cable should be used on fixed parts. For using on moving parts, select the robotic cable.
- * 2 Only available for the motor type "Step motor".

Actuator cable length [m]

Nil	Without cable
1	1.5
3	3
5	5
8	8*
Α	10*
В	15* 20*
С	20*

* Produced upon receipt of order (Robotic cable only)

9 Controller/Driver type *1

Nil	Without controller/driver						
6N	LECP6/LECA6	NPN					
6P	(Step data input type)	PNP					
1N	LECP1 *2	NPN					
1P	(Programless type)	PNP					
MJ	LECPMJ (CC-Link direct input type)	_					
AN	LECPA*2	NPN					
AP	(Pulse input type)	PNP					

- *1 For details about controllers/driver and compatible motors, refer to the compatible controllers/driver below.
- *2 Only available for the motor type "Step motor".

I/O cable length [m]*1, Communication plug

Nil	Without cable (Without communication plug connector)*3
1	1.5
3	3*2
5	5* ²
S	Straight type communication plug connector *3
Т	T-branch type communication plug connector *3

- *1 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. When the I/O cable is required, order it separately.
- *2 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector.
- *3 When "CC-Link direct input type" is selected for controller/driver types, I/O cable is not included. Only "Nil", "S" or "T" can be selected.

Controller/Driver mounting

<u> </u>									
Nil	Screw mounting								
D	DIN rail mounting*								

* DIN rail is not included. Order it separately.

* Specifications and dimensions for the . 25A-series are the same as standard products.

Compatible Controllers/Driver

Туре	Step data input type	Step data input type	Programless type	CC-Link direct input type	Pulse input type					
Series	LECP6	LECA6	LECP1	LECPMJ	LECPA					
Features	Value (Step Standard		Capable of setting up operation (step data) without using a PC or teaching box	CC-Link direct input	Operation by pulse signals					
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)		Step motor (Servo/24 VDC)						
Maximum number of step data				14 points 64 points —						
Power supply voltage		24 VDC								

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.



Electric Actuator/Slider Type (

Ball Screw Drive





LEFS25, 32, 40

How to Order

25A-LEFS 32 R S3 B Series compatible with secondary batteries

Size

25 32 40

2 Motor mounting position

Ni	I	In-line
R	ì	Right side parallel
L		Left side parallel

3 Motor type

	_			
Symbol	Type	Output [W]	Actuator size	Compatible drivers
S2*1	AC servo motor	100	25	LECSA □-S1
S3	(Incremental	200	32	LECSA □-S3
S4	encoder)	400	40	LECSA2-S4
S6*1		100	25	LECSB□-S5 LECSC□-S5 LECSS□-S5
S7	AC servo motor (Absolute encoder)	200	32	LECSB□-S7 LECSC□-S7 LECSS□-S7
S8	·	400	40	LECSB2-S8 LECSC2-S8 LECSS2-S8

- *1 For motor type "S2" and "S6", the compatible driver part number suffixes are "S1" and "S5" respectively.
- * 2 For details about the driver, refer to the WEB catalog.

(I)O connector

4 Lead [mm]

Symbol	LEFS25	LEFS32	LEFS40
Α	12	16	20
В	6	8	10

5 Stroke [mm]

50	50
to	to
1000	1000

* Refer to the applicable stroke table.

Cable type *1, *2

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

- *1 The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
- * 2 Standard cable entry direction is
 - · Parallel: (A) Axis side · In-line: (B) Counter axis side

6 Motor option

Nil	Without option						
В	With lock						

8 Cable length *[m]

Nil	Without cable
2	2
5	5
Α	10

* The length of the encoder, motor and lock cables are the same.

9 Driver type

	Compatible	Power supply			
	drivers	voltage (V)	25	32	40
Nil	Without driver	_			
A1	LECSA1-S □	100 to 120			_
A2	LECSA2-S □	200 to 230			
B1	LECSB1-S □	100 to 120			_
B2	LECSB2-S □	200 to 230			
C1	LECSC1-S □	100 to 120			_
C2	LECSC2-S □	200 to 230			
S1	LECSS1-S □	100 to 120			_
S2	LECSS2-S □	200 to 230			

* When the driver type is selected, the cable is included. Select cable type and cable length. Example) S2S2: Standard cable (2 m) + Driver (LECSS2)

Compatible Drivers

Power supply voltage (V)

S2 : Standard cable (2 m) Nil : Without cable and driver

Without connector

With connector

Applicab	Applicable stroke table • Standard																				
Stroke																					Manufacturable
[mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	stroke range
Model																					[mm]
LEFS25		•	•	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	50 to 600
LEFS32		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_	_	_	_	50 to 800
LEES40		_																			150 to 1000

- * Strokes are manufacturable in 1 mm increments. Refer to the manufacturable stroke range. However, strokes other than those shown above are produced as special orders. Consult with SMC for lead times and prices.
 - *Specifications and dimensions for the 25A-series are the same as standard products.

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET III type
Series	LECSA	LECSB	LECSC	LECSS
Number of point tables	Up to 7	_	Up to 255 (2 stations occupied)	_
Pulse input	0	0	_	_
Applicable network	_	_	CC-Link	SSCNET Ⅲ
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication
Dower cumply voltage (V)	100 to 120 VAC (50/60 Hz)			

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.

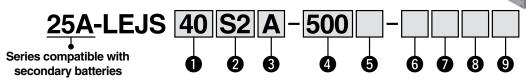


200 to 230 VAC (50/60 Hz)

Electric Actuator/High Rigidity Slider Type Ball Screw Drive AC Servo Motor

Series 25A-LEJS LEJS40, 63

How to Order



Size 40

63

2 Motor type *1

Symbol	Туре	Output [W]	Actuator size	Compatible drivers *2
S2	AC servo motor (Incremental encoder)	100	40	LECSA □-S1
S 3	AC servo motor (Incremental encoder)	200	63	LECSA □-S3
S6	AC servo motor (Absolute encoder)		40	LECSB□-S5 LECSC□-S5 LECSS□-S5
S7	AC servo motor (Absolute encoder)	200	63	LECSB□-S7 LECSC□-S7 LECSS□-S7

^{*1} For motor type "S2" and "S6", the compatible driver part number suffixes are "S1" and "S5" respectively.

U	Lea	ad	[m	m]
Svm	bol	П	FJ	S40

Symbol	LEJS40	LEJS63
Α	16	20
В	8	10

200	
to	*3 Refer to the table
1500	below for details.
_	

4 Stroke [mm] *3

Wiotor option			
Nil	Without option		
В	With lock		

a	Cable	tvne	* 5.	*6. *7	
	Cable	lvbe	ΨЭ,	~O, ~/	

Nil	Without cable
S	Standard cable
R	Robotic cable
	(Flexible cable)

- *6 The motor and encoder cables are included. (The lock cable is included when the motor with lock option is selected.)
- *7 Standard cable entry is "(A) Axis

Cable length [m] *5, *8

Nil	Without cable
2	2
5	5
Α	10

*8 The length of the motor, encoder and lock cables are the same.

8 Driver type *5

	Compatible drivers	Power supply voltage (V)
Nil	Without driver	_
A1	LECSA1-S□	100 to 120
A2	LECSA2-S □	200 to 230
B1	LECSB1-S □	100 to 120
B2	LECSB2-S □	200 to 230
C1	LECSC1-S □	100 to 120
C2	LECSC2-S □	200 to 230
S1	LECSS1-S□	100 to 120
S2	LECSS2-S □	200 to 230

9 I/O connector

Nil	Without connector
Н	With connector

*5 When the driver type is selected, the cable is included. Select cable type and cable length. Example)

S2S2: Standard cable (2 m) + Driver (LECSS2)

: Standard cable (2 m) : Without cable and driver

Applicable stroke table *4

Applicable stroke table *4				●Sta	andard	○Pro	duced ι	upon re	ceipt of	order	
Stroke Model [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
LEJS40		•	0	•		0	•	0	0	0	_
LEJS63	_		0			0		0		0	0

*2 For details about the driver, refer to the WEB catalog

*4 Consult with SMC as all non-standard and non-made-to-order strokes are produced as special orders.

Solid state auto switches should be ordered separately. For details about auto switches, refer to page 164.

Applicable auto switches

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900 D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Compatible Drivers

"Specifications and dimensions for the 25A-series are the same as standard products.

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET Ⅲ type		
Series	LECSA	LECSB	LECSC	LECSS		
Number of point tables	Up to 7	_	Up to 255	_		
Pulse input	0	0	_	_		
Applicable network	_	_	CC-Link	SSCNET Ⅲ		
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder		
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication		
Power supply voltage (V)	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)					

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.



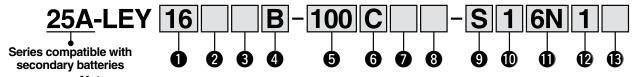
Electric Actuator/Rod Type

Step Motor (Servo/24 VDC) Servo Motor (24 VDC)

Series 25A-LEY (C THUS

LEY16, 25, 32, 40

How to Order



Size

Motor mounting position

<u> </u>	curiumg pooruom
Nil	Top mounting
R	Right side parallel
L	Left side parallel
D	In-line

Motor type

Symbol	Cumbal Tuna		Size	Compatible	
Symbol	Туре	LEY16	LEY25	LEY32/40	controllers/driver
Nil	Step motor (Servo/24 VDC)	•	•	•	LECP6 LECP1 LECPA LECPMJ
Α	Servo motor (24 VDC)	•	•	_	LECA6

4 Lead [mm]

Symbol	LEY16	LEY25	LEY32/40
Α	10	12	16
В	5	6	8
С	2.5	3	4

6 Motor option

С	With motor cover
W	With lock/motor cover

^{*} When "With lock/motor cover" is selected for the top mounting and right/left side parallel types, the motor body will stick out of the end of the body for size 16 with strokes 30 or less. Check for interference with workpieces before selecting a model.

5 Stroke [mm]

30	30
to	to
500	500

* Refer to the applicable stroke table.

Rod end thread

Nil	Female rod end
М	Male rod end (1 rod end nut is included.)
	(1 100 end nat is included.)

⚠ Caution

[CE-compliant products]

①EMC compliance was tested by combining the electric actuator LEY series and the controller LEC

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

②For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the WEB catalog for the noise filter set. Refer to the LECA Operation Manual for installation.

[UL-compliant products]

When conformity to UL is required, the electric actuator and controller/ driver should be used with a UL1310 Class 2 power supply.

Mounting Bracket Part No. for Series 25A-

Applicable size	Foot *1	Flange	Double clevis		
16	25-LEY-L016	25-LEY-F016	25-LEY-D016		
25	25-LEY-L025	25-LEY-F025	25-LEY-D025		
32, 40	25-LEY-L032	25-LEY-F032	25-LEY-D032		
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)		

^{*1} When ordering foot brackets, order 2 pieces per actuator.

Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt

* Annlicable stroke table

Standard												
Stroke [mm] Model		50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
LEY16					•			_	_	_	_	10 to 300
LEY25					•			•	•	_	_	15 to 400
LEY32/40	•			•		•		•	•	•	•	20 to 500

* Consult with SMC for non-standard strokes as they are produced as special orders.

Solid state auto switches should be ordered separately. For details about auto switches, refer to page 164.

Applicable auto switches

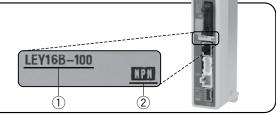
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900 D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and the actuator is correct.

<Check the following before use.>

- ① Check the actuator label for model number (after "25A-"). This matches the controller/driver.
- 2 Check Parallel I/O configuration matches (NPN or PNP)



^{*} Refer to the operation manual for using the products. Please download it via our website, http://www.smcworld.com



^{*2} Parts belonging to each bracket are as follows.

Motor mounting position:



Mounting *1

<u> </u>									
Cumbal	Typo	Motor mounting position							
Symbol	Type	Top/Parallel	In-line						
Nil	Ends tapped (Standard) *2	•	•						
U	Body bottom tapped	•	•						
L	Foot	•	_						
F	Rod flange *2	•	•						
G	Head flange *2	●*4	_						
D	Double clevis *3	•	_						

- *1 Mounting bracket is shipped together, (but not assembled).
- *2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
 - · LEY25: 200 or less
 - · LEY32/40: 100 or less
- *3 For mounting with the double clevis, use the actuator within the following stroke range.
 - · LEY16: 100 or less
 - · LEY25: 200 or less
 - · LEY32/40: 200 or less
- *4 Head flange is not available for the LEY32/40.

9 Actuator cable type *1

Nil	Without cable
S	Standard cable *2
R	Robotic cable (Flexible cable)

- *1 The standard cable should be used on fixed parts. For using on moving parts, select the robotic cable.
- * 2 Only available for the motor type "Step motor".

Actuator cable length [m]

Nil	Without cable	
1	1.5	
3	3	
5	5	
8	8*	
Α	10*	
В	15*	
С	20*	

* Produced upon receipt of order (Robotic cable only)

Controller/Driver type *1

Nil	Without controller/driver	
6N	LECP6/LECA6	NPN
6P	(Step data input type)	PNP
1N	LECP1 *2	NPN
1P	(Programless type)	PNP
MJ	MJ LECPMJ (CC-Link direct input type)	
AN	LECPA*2	NPN
AP	(Pulse input type)	PNP

- *1 For details about controllers/driver and compatible motors, refer to the compatible controllers/driver below.
- *2 Only available for the motor type "Step motor".

1/0 cable length [m]*1. Communication plug

1/O cable length [m]*1, Communication plug		
Without cable (Without communication plug connector*3)		
1.5		
3*2		
5* ²		
Straight type communication plug connector*3		
T-branch type communication plug connector*3		

- *1 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to the catalog CAT. E102 if I/O cable is required.
- *2 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector.
- *3 When "CC-Link direct input type" is selected for controller/driver types, I/O cable is not included. Only "Nil", "S" or "T" can be selected.

Nil	Screw mounting
D	DIN rail mounting *1

*1 DIN rail is not included. Order it separately.

Compatible Controllers/Driver

(13) Controller/Driver mounting

* Specifications and dimensions for the 25A-series are the same as standard products.

Type	Step data input type	Step data input type	Programless type	CC-Link direct input type	Pulse input type
Series	LECP6	LECA6	LECP1	LECPMJ	LECPA
Features	Value (Step Standard		Capable of setting up operation (step data) without using a PC or teaching box	CC-Link direct input	Operation by pulse signals
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)		Step motor (Servo/24 VDC)	
Maximum number of step data	64 p	oints	14 points	64 points	_
Power supply voltage			24 VDC		

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.



Electric Actuator/Rod Type

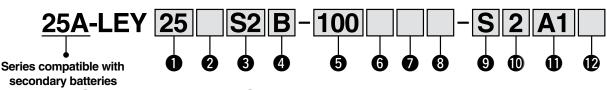
AC Servo Motor

Series 25A-LEY (E



LEY25, 32 Size 25, 32

How to Order



Size 25

32

2 Motor mounting position

II Top mounting	
Right side parallel	
Left side parallel	
In-line	

Motor type *1

Symbol	Туре	Output [W]	Actuator size	Compatible drivers *2
S2	AC servo motor (Incremental encoder)	100	25	LECSA □-S1
S3	AC servo motor (Incremental encoder)	200	32	LECSA □-S3
S6	AC servo motor (Absolute encoder)	100	25	LECSB□-S5 LECSC□-S5 LECSS□-S5
S 7	AC servo motor (Absolute encoder)	200	32	LECSB□-S7 LECSC□-S7 LECSS□-S7

- * 1 For motor type "S2" and "S6", the compatible driver part number suffixes are "S1" and "S5" respectively.
- * 2 For details about the driver, refer to the WEB catalog.

4 Lead [mm]

Symbol	LEY25	LEY32*
Α	12	16 (20)
В	6	8 (10)
С	3	4 (5)

^{*} The values shown in () are the lead for size 32 top mounting, right/left side parallel types. (Equivalent lead which includes the pulley ratio [1.25:1])

Nil	Female rod end		
М	Male rod end		
IVI	(1 rod end nut is included.)		

5 Stroke [mm]

8 Mounting *1

30	30
to	to
500	500

^{*} Refer to the table below for details.

Motor option

Nil	Without option	
В	With lock *	

* When "With lock" is selected for the top mounting and right/ left side parallel types, the motor body will stick out of the end of the body for size 25 with strokes 30 or less. Check for interference with workpieces before selecting a model.

Rod end thread

6	Symbol	Tyroo	Motor moun	ting position
3	Syrriboi	Type	Top/Parallel	In-line
	Nil	Ends tapped (Standard) *2	•	•
	U	Body bottom tapped	•	•
	L	Foot	•	_
	F	Rod flange *2	•	•
	G	Head flange *2	●*4	_
	D	Double clevis *3		_

- *1 Mounting bracket is shipped together, (but not assembled).
- *2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
 - · LEY25: 200 or less · LEY32: 100 or less
- *3 For mounting with the double clevis, use the actuator within the following stroke range.
 - · LEY25: 200 or less · LEY32: 200 or less
- *4 Head flange is not available for the LEY32.

Mounting Bracket Part No. for Series 25A-

Applicable size	Foot*1	Flange	Double clevis
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

*1 When ordering foot brackets, order 2 pieces per actuator.

*2 Parts belonging to each bracket are as follows. Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt

* Applicable stroke table	е											Standard
Stroke Model [mm]		50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
LEY25		•						•		—	—	15 to 400
LEY32												20 to 500

^{*} Consult with SMC for non-standard strokes as they are produced as special orders.

Solid state auto switches should be ordered separately. For details about auto switches, refer to page 164.

Applicable auto switches

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900 D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900







Size 25, 32

Motor mounting position: Top/Parallel

Motor mounting position: In-line

Cable type *

<u> </u>	olo typo
Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

- * The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
- * Standard cable entry direction is
- · Top/Parallel: (A) Axis side
- · In-line: (B) Counter axis side

1/O connector

Nil	Without connector
Н	With connector

Cable length * [m]

Nil	Without cable
2	2
5	5
Α	10

^{*} The length of the encoder, motor and lock cables are the same.

Driver type *

	Compatible drivers	Power supply voltage (V)
Nil	Without driver	_
A1	LECSA1-S □	100 to 120
A2	LECSA2-S □	200 to 230
B1	LECSB1-S □	100 to 120
B2	LECSB2-S □	200 to 230
C1	LECSC1-S □	100 to 120
C2	LECSC2-S □	200 to 230
S1	LECSS1-S □	100 to 120
S2	LECSS2-S □	200 to 230

* When the driver type is selected, the cable is included. Select cable type and cable length. Example)

S2S2: Standard cable (2 m) + Driver (LECSS2)

S2 : Standard cable (2 m) : Without cable and driver

Compatible Drivers

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET III type						
Series	LECSA	LECSB	LECSC	LECSS						
Number of point tables	Up to 7	_	Up to 255 (2 stations occupied)	_						
Pulse input	0	0	_	_						
Applicable network	_		CC-Link	SSCNET Ⅲ						
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder						
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication						
Power supply voltage (V)	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)									

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.



^{*} Specifications and dimensions for the 25A-series are the same as standard products.

Series 25A-**Applicable Auto Switches**

Applicable Cylinder Series

				Auto	switches											Cylir	nders					
		<u></u>		\A.C. :	Electrical		Lea	d wire	lenath	ı [m]	Pre-wired	CDJ2	CDM2	CD)G1	MDB	CDA2	CDS2	CDU	CDUK	CDQS	
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	entry	Auto switch model	0.5	1	3	5	connector	0002										
	lanction	Citily	ligit	(Output)	direction	model	Nil	м	Ľ	Z	SDPC	ø10, ø16	ø20 to ø40	ø20 to ø63	ø 80 , ø100	ø32 to ø100	ø40 to ø100	ø125 to ø160	ø10 to ø32	ø16 to ø32	Ø12 to Ø25	
	_		None	2-wire	In-line	D-A90-900	_	_	•	_	_	•	•	•	_	_	•	•	•	•	•	
Reed			INOITE	2-WIIG	111-11116	D-Z80-900	_	_	•	_	_	_	_	_	_	_	_	_	_	_	_	
auto switch		Grommet	Yes	3-wire (NPN equiv.))	D-E76A	•	_	•	_	_	_	_	_	_	_	_	_	_	_	_	
auto switch	_		163	2-wire	In-line	D-E73A	•	_	•	_	_	_	_	_	_	_	_	_	_	_	-	
			None	Z-WIIG		D-E80A	•	_	•	_	_	_	_	_	_	_	_	_	_	_	_	
				3-wire (NPN)		D-M9N-900	•	•	•	0	_	•	•	•		•	•	•	•	•	•	
				3-wire (PNP)	In-line	D-M9P-900	•	•	•	0	_	•	•	•	_	•	•	•	•	•	•	
	_			2-wire		D-M9B-900	•	•	•	0	_	•	•	•	_	•	•	•	•	•	•	
				3-wire (NPN)	-	D-M9NV-900	•	•	•	0	_	_	_			•	•	•	•	•	•	
				3-wire (PNP)	Perpendicular	D-M9PV-900	•	•	•	0	_	_	_	_	_	•	•	•	•	•	•	
				2-wire		D-M9BV-900	•	•	•	0	_	_	_	_	_	•	•	•	•	•	•	
				3-wire (NPN)		D-M9NW-900	•	•	•	0	_	•	•	•	_	•	•	•	•	•	•	
				3-wire (PNP)	In-line	D-M9PW-900	•	•	•	0	_	•	•	•		•	•	•	•	•	•	
	Diagnostic			2-wire		D-M9BW-900	•	•	•	0	0	•	•	•		•	•	•	•	•	•	
	indication			3-wire (NPN)		D-M9NWV-900	•	•	•	0	_	_	_	_	_	•	•	•	•	•	•	
	(2-color display)	y)		3-wire (PNP)	Perpendicular	D-M9PWV-900	•	•	•	0	_	_	_	_	_	•	•	•	•	•	•	
				2-wire		D-M9BWV-900	•	•	•	0	0	_	_	_	_	•	•	•	•	•	•	
				3-wire (NPN)		D-Y59A-900	•	•	•	0	_	_	_			_	_	_	_	_	_	
				3-wire (PNP)	In-line	D-Y7P-900	•	•	•	0	_		_			_		_	_	_	_	
				2-wire		D-Y59B-900	•	•	•	0	_	_	_	_	_	_	_	_	_	_	_	
				3-wire (NPN)	Perpendicular	D-Y69A-900	•	•	•	0	_	_	_	_		_	_	_	_	_	_	
		_		3-wire (PNP)		D-Y7PV-900	•	•	•	0	_	_	_			_	_	_	_	_		
				2-wire		D-Y69B-900	•	•	•	0	_	_	_	_	_	_	_	_	_	_	_	
				3-wire (NPN)		D-Y7NW-900	•	•	•	0	_	_	_	_	_	_	_	_	_	_	_	
Solid state	Diagnostic			3-wire (PNP)		D-Y7PW-900	•	•	•	0	_	_	_	_	_	_	_	_	_	_	_	
auto switch		Grommet	Yes	2-wire		D-Y7BW-900	•	•	•	0	_	_	_			_	_	_	_	_		
uuto oviitori				3-wire (NPN)		D-Y7NWV-900	•	•	•	0	_	_	_	_	_	_	_	_	_	_	_	
				3-wire (PNP)	Perpendicular		•	•	•	0	_	_	_	_	_	_	_	_	_	_	_	
				2-wire		D-Y7BWV-900	•	•	•	0	_	_	_	_	_	_	_	_	_	_	_	
				3-wire (NPN)		D-G59-900	•		•	0	_	_	_	_	•	_	•	_	_	_		
	_			3-wire (PNP)		D-G5P-900	•		•	0	_		_		•	_	•	_		_	_	
				2-wire	In-line	D-K59-900	•	_	•	0	_		_		•		•	_				
	h indication (2-color display) — Diagnostic			3-wire (NPN)		D-G59W-900	•	_	•	0	_		_	_	•	_	•	_	_	_	-	
	indication			3-wire (PNP)		D-G5PW-900	•	-	•	0	_	_	_	_	•	_	•	_	_	_	_	
	(2-color display)			2-wire		D-K59W-900	•	-	•	0	0		_		•		•			_	<u> </u>	
				3-wire (NPN)	1	D-F79-900	•	_	•	0	_		_				_	<u> </u>			<u> </u>	
				3-wire (PNP)	In-line	D-F7P-900	•	_	•	0	_		_	_	_	_	_	_		-	-	
	_			2-wire		D-J79-900	•		•	0	_		_	_	_	_	_	_	_	_	<u> </u>	
				3-wire (NPN)		D-F7NV-900	•		•	0	_	_	_			_	_	_	_	_	_	
					Perpendicular	D-F7PV-900	•		•	0	_	_	_			_	_	_	_	_	_	
				2-wire		D-F7BV-900	•	-	•	0	_	_	_	_		_	_	_	-	_	-	
				3-wire (NPN)		D-F79W-900	•	-	•	0	_	_	_	_		_	_	_	_	_	_	
	Diagnostic			3-wire (PNP)	In-line	D-F7PW-900	•		•	0	_	_	_			_	_	_		_	-	
	indication			2-wire		D-J79W-900	•	_	•	0	_	_	_		_	_	_	_	_	_	_	
	(2-color display)			3-wire (NPN)	Perpendicular	D-F7NWV-900	•	_	•	0	_	_	_	_	_	_	_	_	-	_		
				2-wire	. S.ps. idiodidi	D-F7BWV-900	•	—	•	0	_	_	_	_	_	_	_	_	—	_	_	

^{*} Solid state auto switches marked "O" are produced upon receipt of order.

Ordering the Auto Switches

Please be aware that the order part numbers for the cylinder mounted and individual auto switches are different. (Example) Part number for ordering D-M9BWL-900:

 Cylinder mounted type: 25A-CDJ2L16-60-M9BWL (Omit the first "D-" and the last "-900" or "-901".)

• Individual auto switch: D-M9BWL-900

(Place the order with the part number for auto switch shown in the table above.)

* Lead wire length symbols: 0.5 m...... Nil (Example) M9NW 1 m..... M (Example) M9NWM

(Example) M9NWL 5 m..... Z (Example) M9NWZ



 Cylinders CDQ2 MY1B MY1H MY2H CY3R MXS MXQ MXW MGP MGG CXS CDBXW																		
CI	Q2		MY1B		MY	′1H	МҮ2Н	CY	'3R	MXS	MXQ	MXW	MGP	MGG	cxs	CDE	BXW	CDBPXV
ø12 to ø100	ø125 to ø200	ø 20	ø25 to ø40 ø63	ø 50	ø16, ø20	ø25 to ø40	Ø16, Ø25	ø15, ø20	ø25 to ø40	ø6 to ø25	ø6 to ø25	ø8 to ø25	ø12 to ø100	ø20 to ø50	ø6 to ø32	ø10	ø16 to ø32	ø10 to ø3
•	•	•		_	•	•	•	•	•	•	•	•	•	•	_	_	_	_
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Applicable Rotary Actuator, Air Gripper Series

				Α	uto switch	es						Rota	ry actu	ators				Air gri	ppers			
	Special	Electrical	Indicator	Wiring	Electrical	Auto switch	Lea	d wire	length	n [m]	Pre-wired	MSQ	MD	SUB	MHZ2	MHZL2	MHZJ2	MHL2	MHF2	MHS3	MHSJ3	MHY2
Type	function	entry	light	(Output)	entry	model	0.5	1	3	5	connector											
	Tariodori	Onlay	iigiii.	(Output)	direction	model	Nil	M	Ĺ	Z	SDPC	10 to 200	1, 3	7, 20	10 to 40	10 to 25	10 to 25	10 to 40	8 to 20	16 to 32	16 to 32	16 to 25
Reed auto switch	_	Grommet	None	2-wire	In-line	D-A90-900	_	_	•	_	_	•	_	_	_	_	_	_	_	_	_	_
				3-wire (NPN)		D-M9N-900	•	•	•	0		•	_	_	•	•	•	•	•	•	•	•
				3-wire (PNP)	In-line	D-M9P-900	•	•	•	0		•	_	_	•	•	•	•	•	•	•	•
	_			2-wire		D-M9B-900	•	•	•	0	_	•	_	_	•	•	•	•	•	•	•	•
				3-wire (NPN)		D-M9NV-900	•	•	•	0		•	_	_	•	•	•	•	•	•	•	•
				3-wire (PNP)	Perpendicular	D-M9PV-900	•	•	•	0		•	_	_	•	•	•	•	•	•	•	•
				2-wire		D-M9BV-900	•	•	•	0		•	_	_	•	•	•	•	•	•	•	•
				3-wire (NPN)		D-M9NW-900	•	•	•	0	_	•	_	_	•	•	•	•	•	_	•	•
	Diagnostic			3-wire (PNP)	In-line	D-M9PW-900	•	•	•	0	_	•	_	_	•	•	•	•	•	_	•	•
	indication			2-wire		D-M9BW-900	•	•	•	0	0	•	_	_	•	•	•	•	•	_	•	•
	(2-color display)			3-wire (NPN)		D-M9NWV-900		•	•	0	_	•	_	_	•	•	•	•	•	_	•	•
				3-wire (PNP)	Perpendicular		I	•	•	0	_	•	_	_	•	•	•	•	•	_	•	•
				2-wire		D-M9BWV-900	•	•	•	0	0	•	_	_	•	•	•	•	•	_	•	•
				3-wire (NPN)		D-Y59A-900	•	•	•	0	_		_	_	•	•	_	•	_	_	_	_
				3-wire (PNP)	In-line	D-Y7P-900	•	•	•	0	_		_	_	•	•	_	•	_		_	_
	_			2-wire		D-Y59B-900	•	•	•	0	_	_	_	_	•	•	_	•	_	_	_	_
				3-wire (NPN)		D-Y69A-900	•	•	•	0	_	_	_	_	•	•	_	•	_	_	_	_
				3-wire (PNP)	Perpendicular		•	•	•	0		_	_	_	•	•	_	•	_	_	_	_
				2-wire		D-Y69B-900	•	•	•	0	_	_	_	_	•	•	_	•	_	_	_	_
				3-wire (NPN)		D-Y7NW-900	•	•	•	0	_	_	_	_	•	•	_	•	_	_	_	_
	Diagnostic			3-wire (PNP)	In-line	D-Y7PW-900	•	•	•	0	-	_	_	_	•	•	_	•	_	_	_	_
Solid state	indication	Grommet	Yes	2-wire		D-Y7BW-900		•	•	0	-	_	_	_	•	•	_	•	_	_	_	_
auto switch	(2-color display)			3-wire (NPN)	D-Y7NWV-900		•	•	0	_		_	_	•	•	_	•	_	_	_	_	
					Perpendicular		•	•	•	0			_	_	•	•	_	•	_	_	_	
		-		2-wire		D-Y7BWV-900	•	•	•	0	_	_	_	_	•	•	_	•	_	_	_	_
				3-wire (NPN)		D-S991-901*	•	-	•	0	-	_	•	_	_	_	_	_	_	_	_	_
						D-S992-901*	•	_	•	0		_	•	_	_		_	_	_	_	_	_
				3-wire (PNP)	In-line	D-S9P1-901*	•	_	•	0	_	_	•	_	_	_	_	_	_	_	_	_
						D-S9P2-901*	•	-	•	0	_	_	•	_	_	_	_	_	_	_	_	_
				2-wire		D-T991-901*	•	-	•	0	-	_	•	_	_		_	_	_	_	_	_
						D-T992-901*	•	-	•	0		_	•	_	_		_	_		_	_	_
				3-wire (NPN)		D-S99V1-901*	•	-	•	0	_		•		_		_	_		_		_
				. ,		D-999V2-901*	•	-	•	0		_	•	_	_		_	_	_	_	_	\vdash
	_			3-wire (PNP)	Perpendicular	D-S9PV1-901*	•		•	0			•	_	_	_		_	_	_		_
					-	D-S9PV2-901*	•	-	•	0	-	_	•	_	_		_	_		_	_	_
				2-wire		D-T99V1-901*	•	<u> </u>	•	0		_	•	_	_		_	_	_			_
						D-T99V2-901*	•	-	•	0			•	_	_		_	_	_	_	_	\vdash
				3-wire (NPN)		D-S791-901*	•		•	0	-	_	_	•	_	_	_	_	_	_		_
				ļ , ,		D-S792-901*	•	-	•	0	_	_	_	•	_		_	_	_	_	_	\vdash
				3-wire (PNP)	In-line	D-S7P1-901*	•	-	•	0	_			•	_		_	_				
		3	ļ , ,	in-line [D-S7P2-901*		-	•	0	_	_	_	•	_		_	_		_	_	_	
				2-wire		D-T791-901*	•	_	•	0	_	_	_	•	_	_	_	_	_	_	_	_
				-		D-T792-901*	•	—	•	0	_	_	_	•	_	_	_	_	_	_	_	_

^{*} Solid state auto switches marked "O" are produced upon receipt of order.

Ordering the Auto Switches

Please be aware that the order part numbers for the air gripper mounted and individual auto switches are different. (Example) Part number for ordering D-M9BWL-900:

* Lead wire for a solid state auto switch with "-901" at the end of part number has been changed to a cable for a robot use.

- Air gripper mounted type: 25A-MHZ2-16D-M9BWL
 - (Omit the first "D-" and the last "-900" or "-901".)
- Individual auto switch: D-M9BWL-900
- (Place the order with the part number for auto switch shown in the table above.)

(Example) M9NWM

3 m..... L (Example) M9NWL (Example) M9NWZ

⁵ m..... Z



^{*} Note that the individual auto switch with part number of "S□□ " and "T□□ " have the right-hand-type (□□□1) and the left-hand-type (□□□2).

When you order the actuator with two auto switches at the part number of the actuator, one each of the right-hand-type and the left-hand-type are shipped together with the actuator.

^{*} When the MHZ2-10, MHZL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper. When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 166.

Direct	Control
	IInders

Air Cyl

Related Products

Vacuum Air Grippers Actuators

Auto switches										Elect	Electric actuators														
Type	Special	Electrical	Indicator	Wiring	Electrical entry	Auto switch		d wire			connector		LEJS	LEY											
Type	function	entry	light	(Output)	direction	model	0.5	1	3_	5		16 to 40	40 to 63	16 to 40											
					unection		Nil	M	L	Z	SDPC	10 10 40	40 10 00	10 10 40											
		Grommet	None	2-wire	In-line	D-A90-900	_	_	•	_	_	_	_	_											
				3-wire (NPN)		D-M9N-900	•	•	•	0	_	•	•	•											
				3-wire (PNP)	In-line	D-M9P-900	•	•	•	0	_	•	•	•											
				2-wire		D-M9B-900	•	•	•	0	_	•	•	•											
															3-wire (NPN)		D-M9NV-900	•	•	•	0	_	•	•	•
Solid state					3-wire (PNP)	Perpendicular	D-M9PV-900	•	•	•	0	_	•	•	•										
auto switch				2-wire		D-M9BV-900	•	•	•	0	_	•	•	•											
		Di		3-wire (NPN)		D-M9NW-900	•	•	•	0	_	•	•	•											
	Diognostio			3-wire (PNP)	In-line	D-M9PW-900	•	•	•	0	_	•	•	•											
	Diagnostic indication			2-wire		D-M9BW-900	•	•	•	0	0	•	•	•											
	(2-color display)			3-wire (NPN)		D-M9NWV-900	•	•	•	0	_	•	•	•											
				3-wire (PNP)	Perpendicular	D-M9PWV-900	•	•	•	0	_	•	•	•											
				2-wire		D-M9BWV-900	•		•	0	0	•	•	•											

- * Solid state auto switches marked "O" are produced upon receipt of order.
- * Auto switches cannot be ordered with the actuator part number. They should be ordered separately. Please refer below for ordering. One each of the right-hand-type and the left-hand-type are shipped together with the actuator.

Ordering the Auto Switches

Individual auto switch: D-M9BWL-900
(Place the order with the part number for auto switch shown in the table above.)

* Lead wire length symbols:	0.5 m	Nil	(Example) M9NW
	1 m	. M	(Example) M9NWM
	3 m	. L	(Example) M9NWL
	5 m	. Z	(Example) M9NWZ

Series 25A-

Auto Switch Mounting

Band Mounting Style

Applicable cylinder series: 25A-CDJ2, 25A-CDM2, 25A-CDG1, 25A-MGG

Applicable auto switches: D-M9-900, D-M9-W-900, M9BWSDPC-900, M9BWVSDPC-900, D-A90L-900

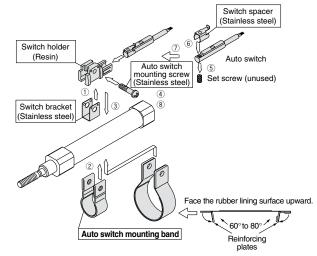
Auto Switch Mounting Bracket Part No.

Cylinder	Applicable bore size (mm)									
series	10	16	20	25	32	40	50	63	80	100
25A-CDJ2	Note 1) 25A-BJ7-010S	Note 1) 25A-BJ7-016S	_	_	_	_	_	_	_	_
25A-CDM2	_	_	Note 2) 25A-BM6-020S	Note 2) 25A-BM6-025S	Note 2) 25A-BM6-032S	Note 2) 25A-BM6-040S	_	_	_	_
25A-CDG1	_	_	Note 3) 25A-BMA4-020S	Note 3) 25A-BMA4-025S	Note 3) 25A-BMA4-032S	Note 3) 25A-BMA4-040S	Note 3) 25A-BMA4-050S	Note 3) 25A-BMA4-063S	_	_
25A-MGG	_	_	Note 3) 25A-BMA4-020S	Note 3) 25A-BMA4-025S	Note 3) 25A-BMA4-032S	Note 3) 25A-BMA4-040S	Note 3) 25A-BMA4-050S	Note 3) 25A-BMA4-063S	_	_

Note 1) The combination of the auto switch mounting band (BJ2-□□□S/with a stainless steel screw) and the holder set (BJ3-1).

Note 2) The combination of the auto switch mounting band (for BM2-□□□) and stainless steel screw (BBA4), and the holder set (BJ3-1).

Note 3) The combination of the auto switch mounting band (for BMA2-□□□) and stainless steel screw (BBA4), and the holder set (BJ3-1).

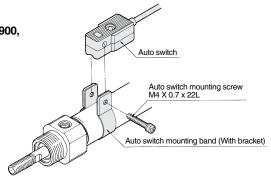


Applicable cylinder series: 25A-CDG1□80, 25A-CDG1□100 Applicable auto switches: D-G5□-900, D-K59-900, D-G5□W-900,

D-K59W-900, D-K59WSDPC-900

Auto Switch Mounting Bracket Part No.

		<u> </u>			
Cylinder	Applicable bore size (mm)				
series	80	100			
25A-CDG1	BA-08S	BA-10S			



Tie-rod Mounting Style

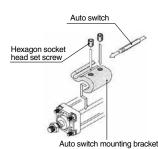
Applicable cylinder series : 25A-MDB, 25A-CDA2, 25A-CDS2

Applicable auto switches : D-M9 -900, D-M9 -900, D-M9 W-900, D-M9 WV-900, M9BWSDPC-900, M9BWSDPC-900

: D-A90L-900

Auto Switch Mounting Bracket Part No.

Cylinder	Applicable bore size (mm)										
series	32	40	50	63	80	100	125	140	160		
054 1400	90-	90-	90-	90-	90-	90-			_		
25A-MDB	BMB5-032	BMB5-032	BA7-040	BA7-040	BA7-063	BA7-063		_			
054 0540	_	90-	90-	90-	90-	90-			_		
25A-CDA2		BA7-040	BA7-040	BA7-063	BA7-080	BA7-080	_				
25A-CDS2	_		_	_		_	25A-	25A-	25A-		
							BS6-125	BS6-125	BS6-160		



25A-BM6, 25A-BMA4



25A-MGP

Applicable auto switches

25A-MHL2

25A-MHS3

BMG2-012

Applicable air gripper series : 25A-MHZ(L) 2, 25A-MHL2, 25A-MHS3 : D-M9□-900, D-M9□V-900, D-M9□W-900,

D-M9 WV-900, M9BWSDPC-900,

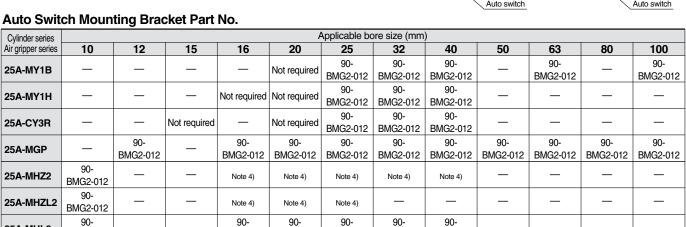
BMG2-012

BMG2-012

Not required Not required Not required

M9BWVSDPC-900

: D-A90L-900



Note 4) When mounting D-M9 type of auto switch onto the square groove of the side of the air gripper, the auto switch mounting bracket (90-BMG2-012) is required.

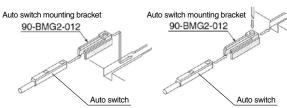
BMG2-012

BMG2-012

90-

BMG2-012

BMG2-012





Precautions

⚠ Caution

Change of material

Series 25A- are copper- and zinc-free products, however, some parts including motors, cables, drivers for solenoid valves and electric actuators, and coils for auto switches, and connector pins and lead wires, whose material can not be changed, are made of copper.

Particle generation (metallic contaminants)

Usage of metal stoppers and/or shock absorbers on an air slide table produces metal-to-metal collision and contact, and may generate wear particles. Do not use metal stoppers and/or shock absorbers in an environment where wear particles are problem.

The following models of air gripper may generate dust particles, as metal-to-metal collisions occur when fingers are fully closed.

- · MHZ2
- · MHZL2 (Except -X5955)
- · MHF2
- · MHY2

Static electricity

Refrain from using the electrical equipments including detection switches (e.g., pressure switches and flow switches) in electrostatically-charged environments. Otherwise, they may cause the system to fail or to malfunction.

Piping

Usage of nylon tubing and polyurethane tubing in environments with a low dew point may affect dew points of ambient air and inside of piping. Use fluoropolymer tubing (Series TL) or stainless steel copper tubing (Supply it on your own) in environments with a low dew point.

Chemical environment

Refrain from using the products in such environments as exposed to chemicals. Otherwise, resin parts may deteriorate.

If you want SMC to test the products for the effects of chemicals attached to them, send the products back to SMC after thoroughly cleaning them.

Consult your SMC sales representative for further details.

■ Trademark

DeviceNet™ is a trademark of ODVA. EtherNet/IP™ is a trademark of ODVA.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Be sure to read "Handling Precautions for SMC Products" (M-E03-3) and "Instruction Manuals" before using.



Revision history

- Edition B The models compatible with secondary batteries added.
 - · 5 port air operated valve: Series 25A-SYA
 - · Vacuum unit: Series 25A-ZK2
 - · Electric actuators: Series 25A-LEFS/LEJS/LEY
 - · Air cylinders: Series 25A-CJ2-Z, 25A-MB-Z, 25A-MGP-Z
 - · Stainless steel pressure gauge: Series G43, etc. added.
 - Number of pages increased from 149 to 172.

ST



Series Compatible with Secondary Batteries

Series 25A-









SMC Corporation of America 10100 SMC Blvd., Noblesville, IN 46060 www.smcusa.com

SMC Pneumatics (Canada) Ltd. www.smcpneumatics.ca

(800) SMC.SMC1 (762-7621) e-mail: sales@smcusa.com

International inquiries: www.smcworld.com

