Series Compatible with Secondary Batteries

Series 25A-

New

Copper (Cu) and Zinc (Zn) Free

Compatible with a low dew point -94°F (–70°C)

Using grease compatible with a low dew point Longer life

A wide range of lineup Number of models is expanded

New

- 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.

Compatible with various usage environments in each manufacturing process

SMC

NP-E11-7B

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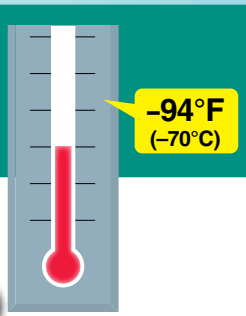
Series 25A-

Low dew point

Compatible with –94°F (–70°C)

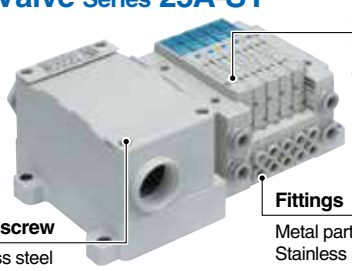


- **Service life and performance have been improved at a low dew point.**
- **Using grease compatible with a low dew point.**

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

Material	**Copper (Cu)** **Zinc (Zn)**	**Not Used**
Surface Treatment	• **Electrolytic nickel plating with a copper layer** (Electroless nickel plating is used) • **Zinc plating**	

Solenoid Valve Series 25A-SY



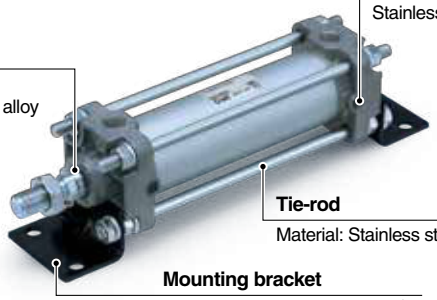
Mounting bolt
Material: Stainless steel

Cover holding screw
Material: Stainless steel

Fittings
Metal parts material: Stainless steel

∗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-CA2



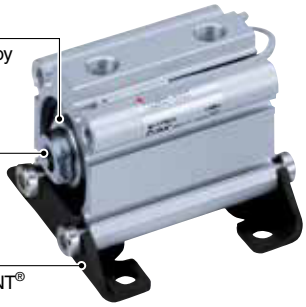
Cushion valve
Material: Stainless steel

Bushing
Material: Steel bearing alloy

Tie-rod
Material: Stainless steel

Mounting bracket
Surface treatment: RAYDENT®

Cylinder Series 25A-CQ2

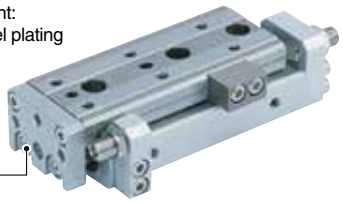


Bushing (ø50 to ø100)
Material: Steel bearing alloy

Piston rod
Surface treatment: Hard chrome plating

Mounting bracket
Surface treatment: RAYDENT®

Cylinder Series 25A-MXQ



Piston rod
Surface treatment: Electroless nickel plating

Piston
Material: Stainless steel
Aluminum alloy

Bolts
Surface treatment: Electroless nickel plating

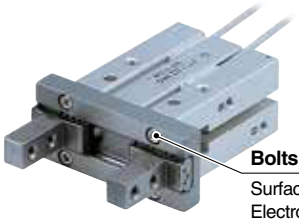
Cylinder Series 25A-MGPM

Bushing (ø50 to ø100)
Material: Steel bearing alloy

Piston rod
Surface treatment: Hard chrome plating

Plate
Surface treatment: Electroless nickel plating

Air Gripper Series 25A-MHZ



Bolts
Surface treatment: Electroless nickel plating

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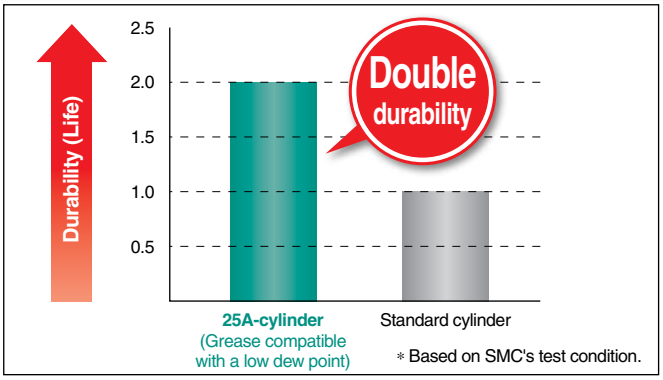
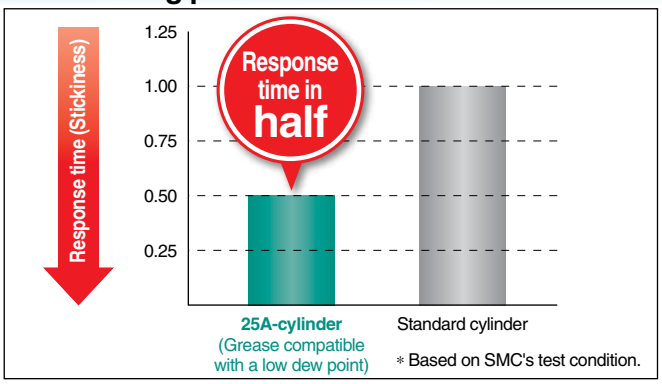
Durability comparison (Air cylinder)



Comparison of cylinder response times after being pressurized and stored



Filter Series 25A-AF

Rod (AF20 to 60)
Material: Stainless steel

Bowl guard (AF30 to 60)
Surface treatment:
Electrodeposition coating

Drain plug (AF30 to 60)
Material: Stainless steel

Regulator Series 25A-AR

Valve, Stem
Material: Stainless steel

Adjusting spring, Screw
Surface treatment:
Electroless nickel plating

2-Color Display High-Precision Digital Pressure Switch Series 25A-ZSE30A/25A-ISE30A

Port thread
Material: Stainless steel

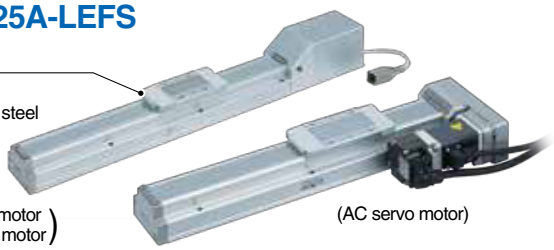
∗ Lead wires are made of copper.

Auto Switch Series D-M9□-900

Mounting screw
Material: Stainless steel

∗ Lead wires are made of copper.

Slider Type/Ball Screw Drive Series 25A-LEFS



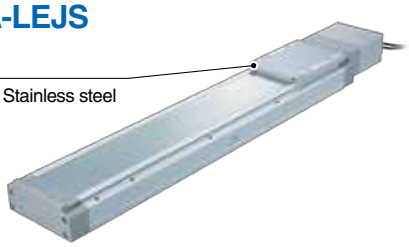
Bolts
Material:
Stainless steel

(Step motor / Servo motor)

(AC servo motor)

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

High Rigidity Slider Type/Ball Screw Drive Series 25A-LEJS



Bolts
Material: Stainless steel

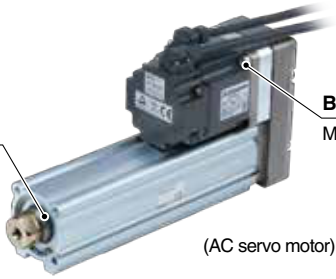
∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

Rod Type Series 25A-LEY

Bolts
Material: Stainless steel

Bushing
Material:
Steel bearing alloy

(Step motor / Servo motor)



Bushing
Material:
Steel bearing alloy

Bolts
Material: Stainless steel

(AC servo motor)

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

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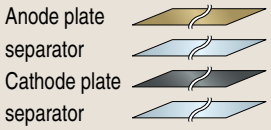
Secondary Battery Manufacturing Process and Applicable Products

Secondary battery manufacturing process

Electrode production

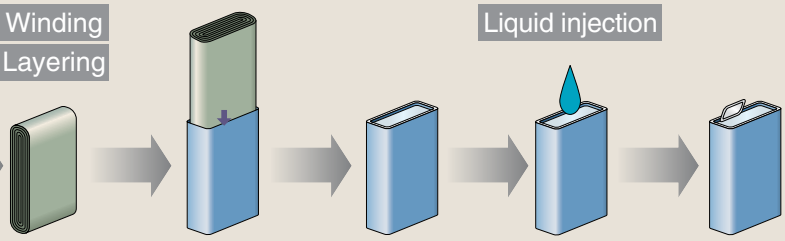
Weighing	Kneading	Coating
Dry	Roll	Press



Cell assembly

Winding
Layering

Liquid injection



Applicable devices

Dust | Explosion proof | Low friction

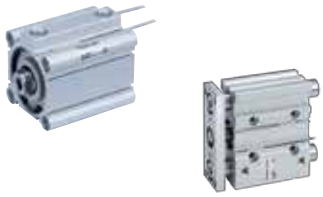
Low dew point | Vacuum | Contactless | Condensation | Static electricity | Transfer

Low dew point grease — Copper (Cu) Zinc (Zn) Free — Series 25A-

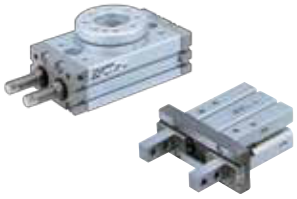
(Refer to pages 5 to 10 for the applicable products.)

Directional Control Valves

Air Cylinders



Rotary Actuators/Air Grippers



Vacuum Equipment

Air Preparation Equipment/ Pressure Control Equipment

Detection Switches/Auto Switches

Fluid Control Equipment

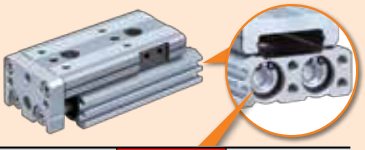
Electric Actuators

Made to Order

Low dew point grease — Copper (Cu) Zinc (Zn) Free

Air Slide Table
Series 25A-MXQ
Series 25A-MXS

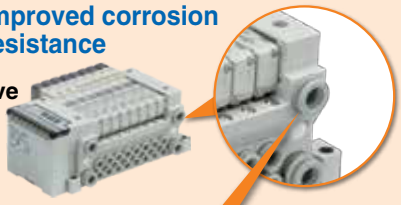
Changed material of the inner part of the cylinder to that with high corrosion resistance



	After change	Before change
Head cap	Aluminum	Synthetic resin

Corrosion resistant materials ➡ Improved corrosion resistance

Solenoid Valve
Series 25A-VQ



		After change	Before change
One-touch fitting	Release bushing	PP	POM

Copper (Cu) Zinc (Zn) Free — Standard Products

(Refer to pages 5 to 10 for the applicable products.)

Fittings

Flow Control Equipment

Vacuum Equipment

Clean Air Filter

Pressure Gauge

Fluoropolymer Products

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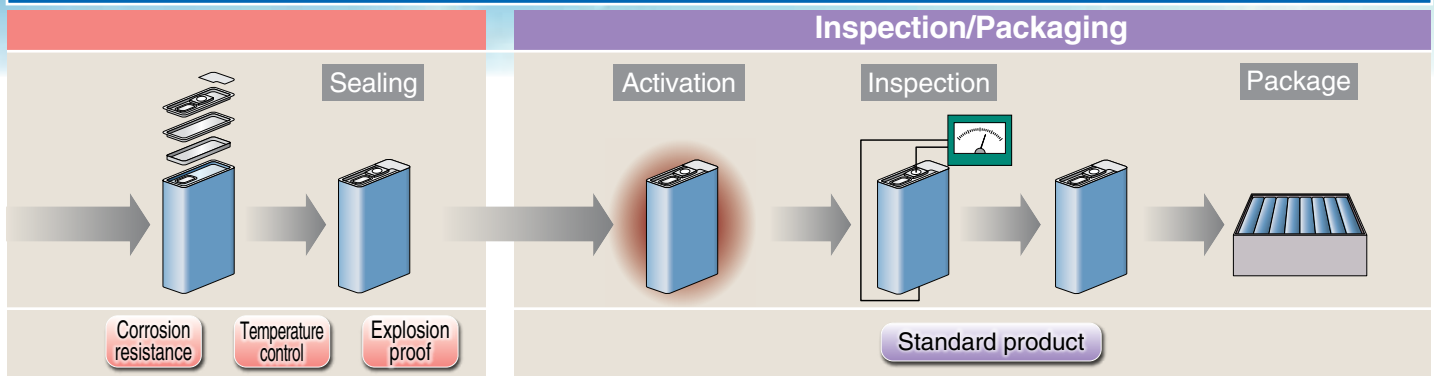


Measures against dust

Standard Products

Cylinder with Stable Lubrication Function (Lube-retainer)

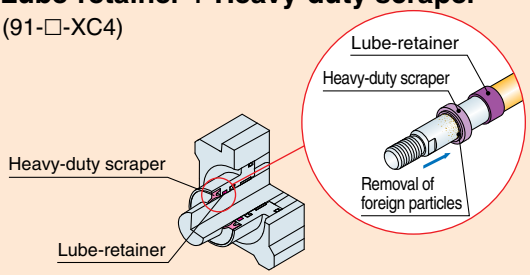
Service life has been further improved with a Lube-retainer in micro-powder (10 to 100 μm) environments.
Overall length and mounting are the same as those of the standard model. (Except for some sizes)

Applicable Cylinders

Air Cylinder Series **CM2□M**	Air Cylinder Series **CG1□M**	Air Cylinder Series **CA2□M**	Compact Cylinder/Compact Type Series **CQS□M**
Compact Cylinder Series **CQ2□A**	Air Slide Table Series **MXQ□AM**	Compact Guide Cylinder Series **MGP□M**	Dual Rod Cylinder Series **CXS□M**

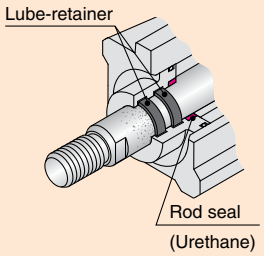
Made to Order

Lube-retainer + Heavy-duty scraper
(91-□-XC4)



Double Lube-retainer + Urethane seal
(-X2163)

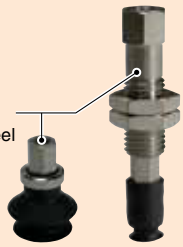
Changed material of rod seal to urethane (to improve durability)



Made to Order

Vacuum Pad
- Series **ZPT**
- Series **ZP**

Changed to stainless steel



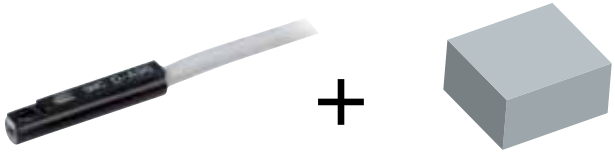
Aluminum High Vacuum Angle Valve
- Series **XL□**

U nut material changed to stainless steel, bearing material changed to POM
(Internal parts)

Explosion proof

Compatible with a reed auto switch (without a light) in explosion proof environment

Compatible with a reed auto switch when being connected to a barrier relay



Reed auto switch
(Non indicator light type including D-A90)

Barrier relay
(Provided by customer)

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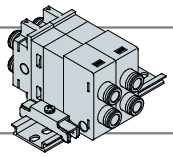
Series Variations Compatible with Secondary Batteries

Series	Materials not used		
	Copper (Cu)	Zinc (Zn)	Stainless Steel 316
25A-	●	●	
25-	●		
90-	●	●	●

Series 25A- Applicable Products

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

*2 Consult with your SMC sales representative.

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Description		Series 25A- Model (Type)	Page no.	25-	90-
Air Cylinders	Air Cylinder	25A-CA2-Z (Standard)	P.77	–	●
		25A-CS2 (Standard)	P.78	–	–
	Free Mount Cylinder	25A-CU (Standard)	P.79	–	●
		25A-CUK (Non-rotating rod)	P.80	–	–
	Compact Cylinder	25A-CQS (Standard)	P.81	●	●
		25A-CQS□S (Anti-lateral load)	P.82	–	●
		25A-CQ2-Z (Standard)	P.83	●	●
		25A-CQ2-Z (Large bore size)	P.84	–	–
		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	–	–
	Air Slide Table	25A-MXS (Cross roller guide)	P.92	–	●
		25A-MXQ (Recirculating linear guide)	P.93	●	●
		25A-MXW (Recirculating linear guide)	P.94	–	–
	Compact Guide Cylinder	New 25A-MGPM-Z (Slide bearing)	P.95	–	–
		New 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	●	–
		CNA2□N	*2	●	–
	Compact Cylinder with Lock	CLQ	*2	●	–
	Stopper Cylinder	RSQ	*2	●	●
	Heavy Duty Stopper Cylinder	RSH	*2	●	●
		RS2H	*2	●	–

*2 Consult with your SMC sales representative.

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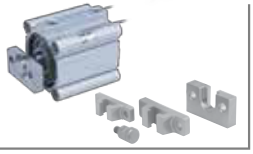
Description		Series 25A- Model (Type)	Page no.	25-	90-
Related Products	Shock Absorber	25A-RB (Standard)	P.100	●	●
		25A-RBC (Standard)	P.100	●	●
		25A-RJ (Soft type)	P.101	–	–
		25A-RJ (Short stroke type)	P.102	–	–
	Floating Joint	25A-JA (Standard/80, 100 only)	P.103	–	●
		25A-JB (For compact cylinder)	P.103	–	●
		25A-JS (Stainless steel)	P.103	–	●
	Simple Joint for **CQ2** 	YA (Type A mounting bracket)	∗1	–	–
		YB (Type B mounting bracket)	∗1	–	–
		YU (Joint)	∗1	–	–
Rotary Actuators	Rotary Table	25A-MSUB (Vane style)	P.104	–	–
		25A-MSQ (Rack & Pinion)	P.105	–	●
		25A-MSQ (Rack & Pinion/With vacuum port)	P.105	–	–
Air Grippers	Parallel Type Air Gripper	25A-MHZ2 (Standard)	P.107	●	–
		25A-MHZL2 (Long stroke)	P.108	–	–
		25A-MHZJ2 (With dust cover)	P.109	–	●
		25A-MHZL2 (Long stroke/With dust cover)	P.109	–	–
		25A-MHF2 (Low profile type)	P.110	●	–
		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 Equipment	Vacuum Ejector New	25A-ZK2 (Vacuum unit) Single unit only	P.115	–	–
		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.

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Description		Series 25A- Model (Type)	Page no.	25-	90-
Vacuum Equipment	Vacuum Pad	ZP□	*2	–	●
		ZP (Pad only)	*1	–	●
	Non-contact Gripper	XT661	*2	–	–
	Adsorption Plate	SP	*1	–	–
	Vacuum Regulator	IRV (Standard)	*2	–	–
Air Preparation Equipment	Membrane Air Dryer	25A-IDG	P.127	–	●
	Air Preparation Filter	25A-AFF (Main line filter)	P.129	–	●
		25A-AM (Mist separator)	P.130	–	●
		25A-AMD (Micro mist separator)	P.131	–	●
		25A-AMH (Micro mist separator with pre-filter)	P.132	–	–
Clean Air Filters	Clean Air Filter	SFD100	*1	–	–
		SFD200	*1	–	●
		25A-AMP (Exhaust cleaner for clean rooms)	P.133	–	●
		SFE (Exhaust cleaner for clean rooms)	*1	–	–
Air Filters/Pressure Control Equipment	Air Filter Separator	25A-AF	P.134	●	●
		25A-AFM (Mist separator)	P.135	–	●
		25A-AFD (Micro mist separator)	P.135	–	●
	Regulator	25A-AR	P.136	●	–
		25A-AR□□K (With backflow function)	P.136	●	●
		25A-AW	P.137	–	●
		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	–	–
		G46-X3 (Bourdon tube: Stainless steel) (With limit indicator)	*3	–	–
		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.

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Description		Series 25A- Model (Type)	Page no.	25-	90-
Fittings/Flow Control Equipment	Quick Exhaust Valve	25A-AQ240F, 340F (Built-in One-touch fittings)	P.142	–	●
	Check Valve	25A-AKH (With One-touch fittings)	P.143	–	●
	Stainless Steel Speed Controller	AS-FG (Elbow/Universal/In-line type)	∗1	–	–
	Speed Controller with Indicator	AS-FSG (Elbow type)	∗1	–	–
	Stainless Steel Fittings	KG (One-touch fittings)	∗1	●	●
		KPG (One-touch fittings)	∗1	–	●
		KQG2 (One-touch fittings)	∗1	–	–
		KFG2 (Insert fittings)	∗1	–	–
		MS (Miniature fittings)	∗1	–	–
		KKA (S Couplers stainless steel type)	∗1	–	–
Tubing	Tubing	T (Nylon)	∗1	–	–
		TS (Soft nylon)	∗1	–	–
		TU (Polyurethane)	∗1	–	–
		TA□ (Antistatic)	∗1	–	–
		TL (Fluoropolymer)	∗1	–	–
		TH (FEP)	∗1	–	–
		TD (Soft fluoropolymer)	∗1	–	–
		TPS (Soft polyolefin)	∗1	–	–
		IDK (Moisture control tubing)	∗1	–	–
Detection Switches	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	–	–
		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.

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Description		Series 25A- Model (Type)	Page no.	25-	90-
Auto Switches	Solid State Auto Switch	D-M9□□	P.161	●	●
		D-Y7□□	P.161	●	●
		D-K59	P.161	–	–
	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)	*2	–	–
		XLC (Double acting)	*2	–	–
Electric Actuators	Electric Actuator	New 25A-LEFS (Slider type/Ball screw drive/Step motor, Servo motor)	P.153	–	–
		New 25A-LEFS (Slider type/Ball screw drive/AC servo motor)	P.155	–	–
		New 25A-LEJS (High rigidity slider type/Ball screw drive/AC servo motor)	P.156	–	–
		New 25A-LEY (Rod type/Step motor, Servo motor)	P.157	–	–
		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.

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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

- Vacuum Pad ..... *Series ZP*

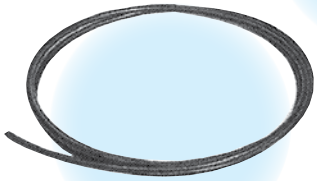
Fittings and Tubing

- 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*

Series KA



Series TA□

② Static Electricity Elimination Equipment

Static electricity

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

- Ionizer/Bar Type ..... *Series IZS4□*
- Ionizer ..... *Series IZS31*
- Ionizer/Nozzle Type ..... *Series IZN10*
- Ionizer/Fan Type ..... *Series IZF10*

Series IZF10

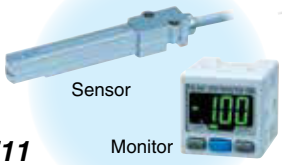
Series IZS4□

Series IZS31

Measurement Equipment

Measures the electrostatic potential.

- Electrostatic Sensor ..... *Series IZD10/IZE11*
- Handheld Electrostatic Meter ..... *Series IZH10*



Series IZD/IZE

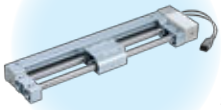
③ Temperature Control Equipment

- Thermo-chiller/Compact Type ..... *Series HRS*

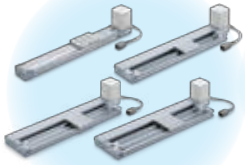
Series HRS

④ 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*



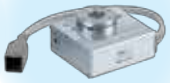
Series LEL



Series LEM

Series LES

Series LEPS/LEPY



Series LER

Series LEHZ

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Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

D-sub Connector

Series 25A-SY5000

CE

RoHS

How to Order Manifold

25A−SS5Y 5 − 10 F 1 − 05 U ☐ − C6 ☐

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

• **Series compatible with secondary batteries**

❶ Series

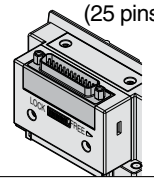
5	SY5000

❷ Type

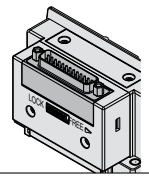
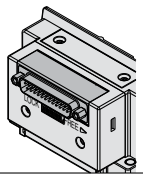
10	Side ported
11	Bottom ported

❸ Connector type

F: D-sub connector (25 pins)



❹ Connector entry direction

1: Upward	**2**: Lateral
	

❺ 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 solenoids)
⋮	⋮	
24	24 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.

❻ P, E port entry

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

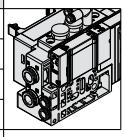
❼ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

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

❽ A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000
C4	Straight	ø4 One-touch fitting	●	●
C6	Straight	ø6 One-touch fitting	●	●
C8	Straight	ø8 One-touch fitting	●	●
CM∗	Straight	Straight port, mixed sizes	●	●
P, E port 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.

❾ Mounting

Symbol	Mounting
Nil	Direct mounting
D☐	DIN rail mounting

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.
⋮	⋮	
24	For 24 stations	

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

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

SMC

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How to Order Valves (With two mounting screws)

25A– SY 5 1 0 0 □□□ – 5 □□ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

- 25A: Series compatible with secondary batteries
- 0: Base mounted

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC
6	12 VDC

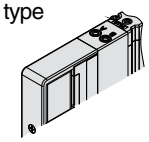
❽ Light/surge voltage suppressor and common specification

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)

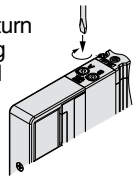
∗ Only "Z" and "NZ" types are available for the product with power saving circuit.

❾ Manual override

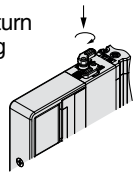
Nil: Non-locking push type



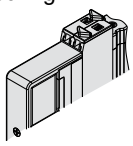
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



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

⚠ Protective class class III (Mark: ⊲III⊳)

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Plug-in Connector Connecting Base

D-sub Connector

Type 12
Top Ported

Series 25A-SY5000

RoHS

How to Order Manifold

25A – SS5Y 5 – 12 F 1 – 05 U □ – □

❶ ❷ ❸ ❹ ❺ ❻ ❼

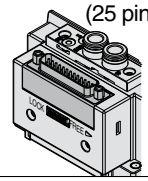
Series compatible with secondary batteries

❶ Series

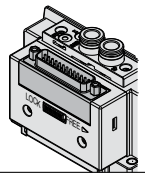
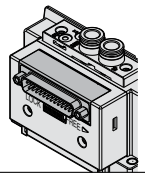
5	SY5000

❷ Connector type

F: D-sub connector (25 pins)



❸ Connector entry direction

1: Upward	**2**: Lateral
	

❹ 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 solenoids)
⋮	⋮	
24	24 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.

❺ P, E port entry

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

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

❻ 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.)

❼ 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 length.
⋮	⋮	
D24	For 24 stations	

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

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How to Order Valves (With two mounting screws)

25A-SY 5 1 3 0 □ □ □ - 5 □ □ 1 - C6

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- Series compatible with secondary batteries
- Top ported

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC
6	12 VDC

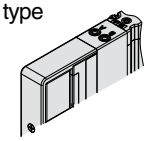
❽ Light/surge voltage suppressor and common specification

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)

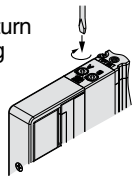
∗ Only "Z" and "NZ" types are available for the product with power saving circuit.

❾ Manual override

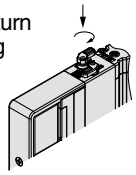
Nil: Non-locking push type



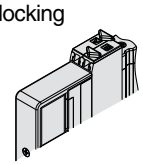
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ 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.

⚠ Protective class class III (Mark: ⟨III⟩)

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Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

Terminal Block Box

Series 25A-SY5000

RoHS

How to Order Manifold

25A- SS5Y 5 - 10 T - 05 U □ - C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼

- **Series compatible with secondary batteries**

❶ Series

5	SY5000

❷ Type

10	Side ported
11	Bottom ported

❸ 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.

❹ P, E port entry

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

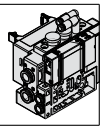
❺ SUP/EXH block assembly

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.

❻ A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported	Type 11/ Bottom ported
			SY5000	SY5000
C4	Straight	ø4 One-touch fitting	●	●
C6	Straight	ø6 One-touch fitting	●	●
C8	Straight	ø8 One-touch fitting	●	●
CM∗	Straight	Straight port, mixed sizes	●	●
P, E port 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.

❼ 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.
⋮	⋮	
24	For 24 stations	

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

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How to Order Valves (With two mounting screws)

25A- SY 5 1 0 0 □ □ □ - 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

- Base mounted
- Series compatible with secondary batteries

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC
6	12 VDC

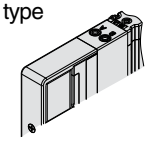
❽ Light/surge voltage suppressor and common specification

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)

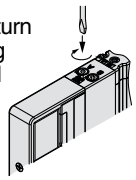
∗ Only "Z" and "NZ" types are available for the product with power saving circuit.

❾ Manual override

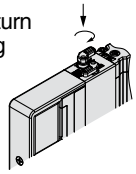
Nil: Non-locking push type



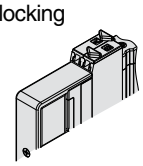
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



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

⚠ Protective class class III (Mark: ◇)

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Plug-in Connector Connecting Base

Terminal Block Box

Type 12
Top Ported

Series 25A-SY5000

RoHS

How to Order Manifold

25A- SS5Y 5 -12T- 05 U □ - □

❶ ❷ ❸ ❹ ❺

- **Series compatible with secondary batteries**

❶ Series

5	SY5000

❸ P, E port entry

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

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

❷ 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 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.

❹ 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.

❺ 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 length.
⋮	⋮	
D20	For 20 stations	

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

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How to Order Valves (With two mounting screws)

25A– SY 5 1 3 0 □ □ □ – 5 □ □ 1 – C6

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- Series compatible with secondary batteries
- Top ported

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC
6	12 VDC

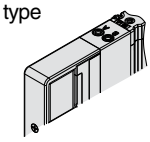
❽ Light/surge voltage suppressor and common specification

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)

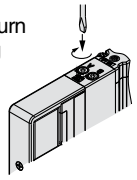
∗ Only "Z" and "NZ" types are available for the product with power saving circuit.

❾ Manual override

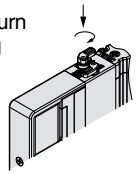
Nil: Non-locking push type



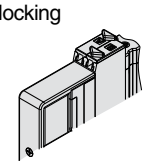
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ 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.

⚠ Protective class class III (Mark: ⊪)

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Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

Lead Wire

Series 25A-SY5000

RoHS

How to Order Manifold

25A – SS5Y 5 – 10 L1 1 – 05 U □ – C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

• Series compatible with secondary batteries

❶ Series

5	SY5000

❷ Type

10	Side ported
11	Bottom ported

❸ Number of cores (Lead wire)

L1	34 cores
L2	17 cores
L3	9 cores

❹ Lead wire length

1	0.6 m
2	1.5 m
3	3 m

❺ 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 32 solenoids)
⋮	⋮	
24	24 stations	

(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 solenoids)
⋮	⋮	
16	16 stations	

(L3□)

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

❻ P, E port entry

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

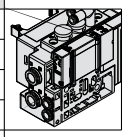
❼ SUP/EXH block assembly

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.

❽ A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000
C4	Straight	ø4 One-touch fitting	●	●
C6	Straight	ø6 One-touch fitting	●	●
C8	Straight	ø8 One-touch fitting	●	●
CM∗	Straight	Straight port, mixed sizes	●	●
P, E port 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.

❾ 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.
⋮	⋮	
24	For 24 stations	

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

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How to Order Valves (With two mounting screws)

25A – SY 5 1 0 0 □ □ □ – 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

- **Series compatible with secondary batteries**
- **Base mounted**

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

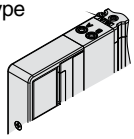
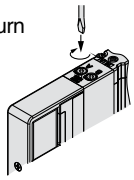
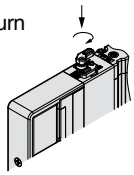
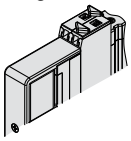
5	24 VDC
6	12 VDC

❽ 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.

❾ Manual override

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

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

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Plug-in Connector Connecting Base

Lead Wire

Type 12 Top Ported

Series 25A-SY5000

CE RoHS

How to Order Manifold

25A- SS5Y 5 -12 L1 1 -05 U □ - □

❶ ❷ ❸ ❹ ❺ ❻ ❼

- **Series compatible with secondary batteries**

❶ Series

5	SY5000

❷ Number of cores (Lead wire)

L1	34 cores
L2	17 cores
L3	9 cores

❸ Lead wire length

1	0.6 m
2	1.5 m
3	3 m

❹ 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 32 solenoids)
⋮	⋮	
24	24 stations	

(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 solenoids)
⋮	⋮	
16	16 stations	

(L3□)

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

❺ P, E port entry

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

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

❻ 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.

❼ 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 length.
⋮	⋮	
D24	For 24 stations	

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

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How to Order Valves (With two mounting screws)

25A – SY 5 1 3 0 □□□ – 5 □□ 1 – C6

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- 25A: Series compatible with secondary batteries
- 3: Top ported

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC
6	12 VDC

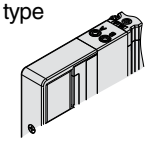
❽ Light/surge voltage suppressor and common specification

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)

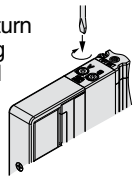
∗ Only "Z" and "NZ" types are available for the product with power saving circuit.

❾ Manual override

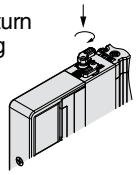
Nil: Non-locking push type



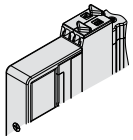
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ 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.

⚠ Protective class class III (Mark: ⊲III⊳)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

EX260

Series 25A-SY5000

RoHS

How to Order Manifold

25A-SS5Y 5 - 10 S NA N - 05 U □ - C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

- **Series compatible with secondary batteries**

❶ Series

5	SY5000

❷ Type

10	Side ported
11	Bottom ported

❸ SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector
0	Without SI unit		
QA	DeviceNet™	32	M12
QB		16	
NA	PROFIBUS DP	32	
NB		16	
VA	CC-Link	32	
VB		16	
DA	EtherCAT	32	
DB		16	
FA	PROFINET	32	
FB		16	
EA	EtherNet/IP™	32	
EB		16	

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

❹ 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.

❺ 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	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.

❻ P, E port entry

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

❼ 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.

❾ 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).

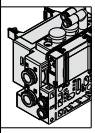
DIN rail option

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

❽ A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000
C4	Straight	ø4 One-touch fitting	●	●
C6	Straight	ø6 One-touch fitting	●	●
C8	Straight	ø8 One-touch fitting	●	●
CM∗	Straight	Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)			ø10	ø10



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

∗ 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

SMC

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How to Order Valves (With two mounting screws)

25A – SY 5 1 0 0 □ □ □ – 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

- Series compatible with secondary batteries
- Base mounted

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC

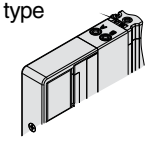
❽ Light/surge voltage suppressor and common specification

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)

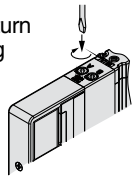
∗ Select a valve from “R”, “U”, “S” or “Z” when the SI unit output polarity is Nil (Positive common). Select a valve from “R”, “U”, “NS” or “NZ” when the SI unit output polarity is “N” (Negative common).
∗ Only “Z” and “NZ” types are available for the product with power saving circuit.

❾ Manual override

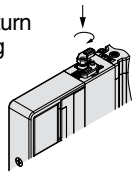
Nil: Non-locking push type



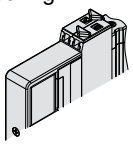
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



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

⚠ Protective class class III (Mark: ⊕)

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Plug-in Connector Connecting Base

EX260

Type 12
Top Ported

Series 25A-SY5000

RoHS

How to Order Manifold

25A – SS5Y 5 – 12S NA N – 05 U ☐ – ☐

❶ ❷ ❸ ❹ ❺ ❻ ❼

• Series compatible with secondary batteries

❶ Series

5	SY5000

❷ SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector
0	Without SI unit		
QA	DeviceNet™	32	M12
QB		16	
NA	PROFIBUS DP	32	
NB		16	
VA	CC-Link	32	
VB		16	
DA	EtherCAT	32	
DB		16	
FA	PROFINET	32	
FB		16	
EA	EtherNet/IP™	32	
EB		16	

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

❸ SI unit output polarity

Nil	Positive common (NPN)
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.

❹ 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	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.

❺ P, E port entry

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

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

❻ 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.

❼ 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 length.
⋮	⋮	
D24	For 24 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.

∗ 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

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How to Order Valves (With two mounting screws)

25A – SY 5 1 3 0 □ □ □ – 5 □ □ 1 – C6

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- Top ported
- Series compatible with secondary batteries

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC

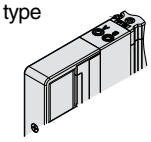
❽ Light/surge voltage suppressor and common specification

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)

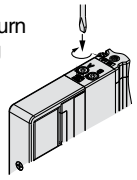
∗ Select a valve from "R", "U", "S" or "Z" when the SI unit output polarity is Nil (Positive common). Select a valve from "R", "U", "NS" or "NZ" when the SI unit output polarity is "N" (Negative common).
∗ Only "Z" and "NZ" types are available for the product with power saving circuit.

❾ Manual override

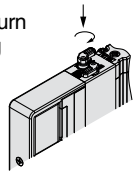
Nil: Non-locking push type



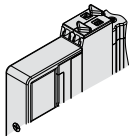
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ 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.

⚠ Protective class class III (Mark: ◇)

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

EX126

Series 25A-SY5000

RoHS

How to Order Manifold

25A–SS5Y 5 – 10 S4 V – 05 U □ – C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

• **Series compatible with secondary batteries**

❶ Series

5	SY5000

❷ Type

10	Side ported
11	Bottom ported

❸ 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.

❹ Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring Note 1)
⋮	⋮	
08	8 stations	
02	2 stations	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.

❺ P, E port entry

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

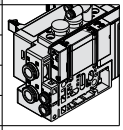
❻ SUP/EXH block assembly

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.

❼ A, B port (Metric)

Symbol		A, B port	Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000
C4	Straight	ø4 One-touch fitting	●	●
C6	Straight	ø6 One-touch fitting	●	●
C8	Straight	ø8 One-touch fitting	●	●
CM∗	Straight	Straight port, mixed sizes	●	●
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.

❽ 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.
⋮	⋮	
16	For 16 stations	

∗ 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

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How to Order Valves (With two mounting screws)

25A– SY 5 1 0 0 □ □ □ – 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

- Base mounted
- Series compatible with secondary batteries

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC

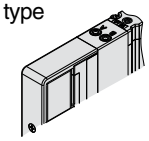
❽ Light/surge voltage suppressor and common specification

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)

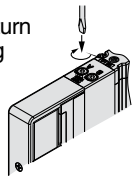
∗ Only "Z" type is available for the product with power saving circuit.

❾ Manual override

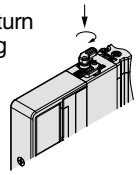
Nil: Non-locking push type



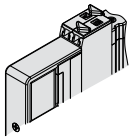
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



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

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Plug-in Connector Connecting Base

EX126

Type 12
Top Ported

Series 25A-SY5000

RoHS

How to Order Manifold

25A – SS5Y 5 – 12S4 V – 05 U □ – □

❶ ❷ ❸ ❹ ❺ ❻

• Series compatible with secondary batteries

❶ Series

5	SY5000

❷ 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.

❸ Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring Note 1)
⋮	⋮	
08	8 stations	
02	2 stations	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.

❹ P, E port entry

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

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

❺ 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.

❻ 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 length.
⋮	⋮	
D16	For 16 stations	

∗ 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

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How to Order Valves (With two mounting screws)

25A– SY 5 1 3 0 □ □ □ – 5 □ □ 1 – C6

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- Series compatible with secondary batteries
- Top ported

❶ Series

5	SY5000

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

❸ Seal type

0	Rubber seal

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

Nil	None
H	Built-in

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

❺ Pilot valve option

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

❻ Coil type

Nil	Standard
T	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.

❼ Rated voltage

5	24 VDC

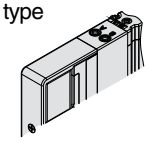
❽ Light/surge voltage suppressor and common specification

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)

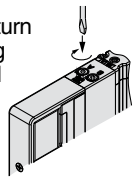
∗ Only "Z" type is available for models with a power saving circuit.

❾ Manual override

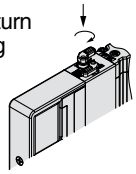
Nil: Non-locking push type



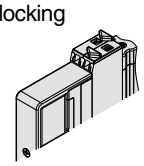
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ 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.

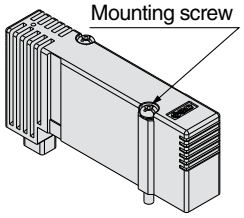
⚠ Caution

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.



25A-SY50M-26-1A

How to Order Blanking Plate Assembly

25A – SY 5 0M – 26 – 1 A

- Series

5	SY5000

- Base type

1	For plug-in connector connecting base

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

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SI Unit Part No.

Description	SI unit part no.	Note
EX260 SI unit	**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-SEC4-X117	EtherCAT M12 connector, 16 outputs, Positive common (NPN)
	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.	Note
	25A-SS5Y5	
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, B port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**
		ø6 One-touch fitting (Straight type)	**90-VVQ1000-51A-C6**
		ø8 One-touch fitting (Straight type)	**90-VVQ1000-51A-C8**
P, E port	Metric size	ø10 One-touch fitting (Straight type)	**90-VVQ2000-51A-C10**

Manifold Options

How to Order Individual SUP/EXH Spacer Assembly

One-touch fitting Straight type

25A – SY 5 0M – 38 – 1 A – C6

Series

5	SY5000

Spacer type

38	Individual SUP spacer
39	Individual EXH spacer

Port size (Metric)

Symbol	P, E port
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting

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

How to Order Individual SUP/EXH Block Assembly

One-touch fitting Straight type

25A – SY 5 0M – 78 – 1 A – C6

Series

5	SY5000

Block type

78	Individual SUP block
79	Individual EXH block

Port size (Metric)

Symbol	P, E port
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting

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5 Port Solenoid Valve
Body Ported/Single Unit
Series 25A-SY5000/7000

How to Order

25A – SY 5 1 20 ☐ – 5 L ☐ ☐ – 01

Series compatible with secondary batteries

Series

5	SY5000
7	SY7000

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

Coil specifications

Nil	Standard
T	With power saving circuit (24, 12 VDC only)

∗ Power saving circuit is not available in the case of "D" or "Y" type.

Rated voltage

For DC

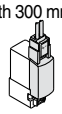
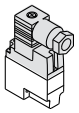
5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

For AC (50/60 Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

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

Electrical entry

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC				24, 12 VDC/ 100, 110, 200, 220 VAC
Grommet	L plug connector	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) 	**MN**: Without lead wire	**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

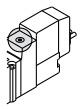
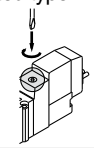
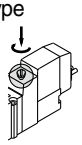
Thread piping

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

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SY5000
C6	One-touch fitting for ø6	
C8	One-touch fitting for ø8	
C8	One-touch fitting for ø8	SY7000
C10	One-touch fitting for ø10	

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

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ 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.

Electrical entry for D, Y

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

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

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.

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

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5 Port Solenoid Valve
Base Mounted/Single Unit
Series 25A-SY5000/7000

How to Order

25A – SY 5 2 40 ☐ ☐ – 5 L ☐ ☐ – ☐

Series compatible with secondary batteries

Series

5	SY5000
7	SY7000

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

Pilot type

Nil	Internal pilot
R	External pilot

Coil specifications

Nil	Standard
T	With power saving circuit (24, 12 VDC only)

∗ Power saving circuit is not available in the case of "D" or "Y" type.

Rated voltage

For DC

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

For AC (50/60 Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

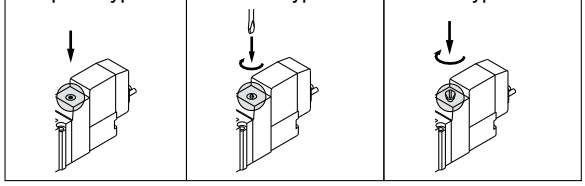
∗ DC specifications of type "D" and "Y" are only available with 12 and 24 VDC.

Port size

Symbol	Port size	Applicable series
Nil	Without sub-plate	
02	Rc 1/4 With sub-plate	SY5000 SY7000
03	Rc 3/8 With sub-plate	SY7000

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

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ 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.

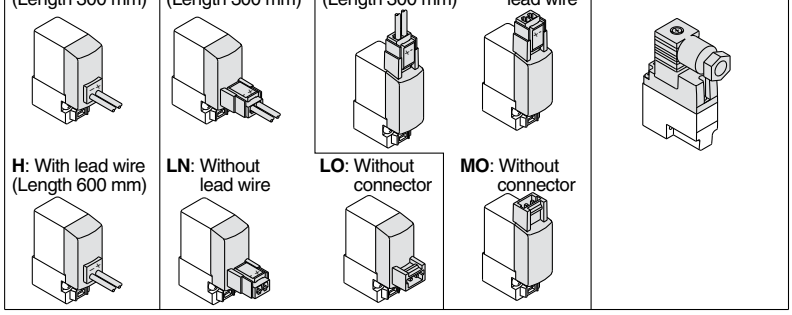
Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

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

Electrical entry

24, 12, 6, 5, 3 VDC / 100, 110, 200, 220 VAC				24, 12 VDC / 100, 110, 200, 220 VAC
Grommet	L plug connector	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)	MN: Without lead wire	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.

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

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

Type 20

Series 25A-SY5000/7000

How to Order Manifold

25A – SS5Y 5 – 20 – 05

- **25A**: **Series compatible with secondary batteries**
- **5**: **Manifold series**

5	SY5000
7	SY7000

- **05**: **Stations**

02	2 stations
⋮	⋮
20	20 stations

∗ This also includes the number of blanking 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.

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How to Order Valves

25A – SY 5 1 20 ☐ – 5 L ☐ ☐ – 01

Series compatible with secondary batteries

Series

5	SY5000
7	SY7000

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

Coil specifications

Nil	Standard
T	With power saving circuit (24 VDC, 12 VDC only)

∗ Power saving circuit is not available in the case of "D" or "Y" type.

Rated voltage

For DC

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

For AC (50/60 Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

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

Electrical entry

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC			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

∗ "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.

Light/surge voltage suppressor

Electrical entry for G, H, L, M

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ 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.

Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

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

Manual override

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

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)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SY5000
C6	One-touch fitting for ø6	
C8	One-touch fitting for ø8	
C8	One-touch fitting for ø8	SY7000
C10	One-touch fitting for ø10	

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

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Type 41
Type 42

5 Port Solenoid Valve Base Mounted Manifold Bar Stock Type/Individual Wiring

Series 25A-SY5000/7000

How to Order Manifold

Type 41/Compact style

25A – SS5Y 5 – 41 – 05 – C8

- **Series compatible with secondary batteries**
- **Manifold series**

5	SY5000

- **Stations**

02	2 stations
⋮	⋮
20	20 stations

∗ This also includes the number of blanking plate assemblies.

- **A, B port size**

Thread piping

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	

One-touch fitting (Inch size)

Symbol	Port size	Applicable series
N7	One-touch fitting for ø 1/4"	SY5000
N9	One-touch fitting for ø 5/16"	

Type 42/External pilot capable

25A – SS5Y 5 – 42 – 05 – C8

- **Series compatible with secondary batteries**
- **Manifold series**

5	SY5000
7	SY7000

- **Stations**

02	2 stations
⋮	⋮
20	20 stations

∗ This also includes the number of blanking plate assemblies.

- **A, B port size**

Thread piping

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

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C6	One-touch fitting for ø6	SY5000
C8	One-touch fitting for ø8	
C10	One-touch fitting for ø10	SY7000

One-touch fitting (Inch size)

Symbol	Port size	Applicable series
N7	One-touch fitting for ø 1/4"	SY5000
N9	One-touch fitting for ø 5/16"	
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.

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How to Order Valves

25A – SY 5 2 40 ☐ ☐ – 5 L ☐ ☐

Series compatible with secondary batteries

Series

5	SY5000
7	SY7000

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

Pilot type

Nil	Internal pilot
R	External pilot

Coil specifications

Nil	Standard
T	With power saving circuit (24 VDC, 12 VDC only)

∗ Power saving circuit is not available in the case of "D" or "Y" type.

Rated voltage

For DC

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

For AC (50/60 Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

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

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

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ 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.

Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

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

Electrical entry

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC			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

∗ "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.

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

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One-touch Fittings Part No. for Body Ported

Port size			25A-SY5000	25A-SY7000
Cylinder port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**	
		ø6 One-touch fitting (Straight type)	**90-VVQ1000-51A-C6**	
		ø8 One-touch fitting (Straight type)	**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**

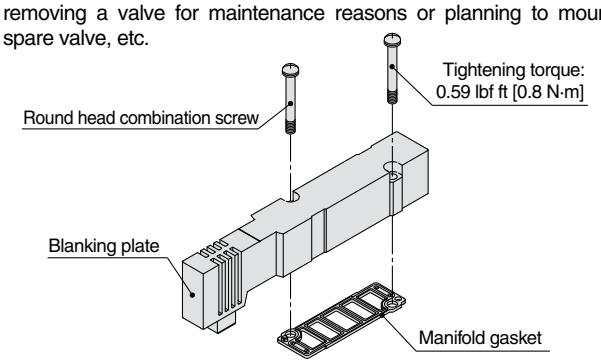
∗ The gasket assembly includes 10 sets of a gasket and mounting screws.

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

25A − SY 5 000 − 26 − 1A

● **Series**

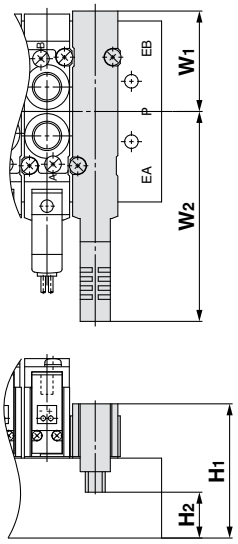
5	25A-SY5000
7	25A-SY7000

⚠ Caution

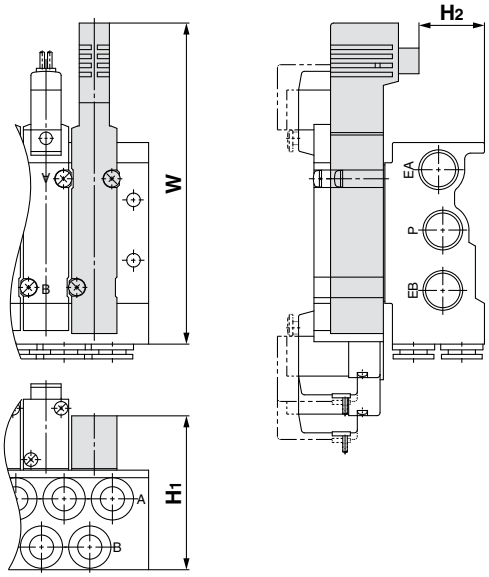
When mounted on a type 20 manifold, only the P port is plugged.

Dimensions

Manifold type/For type 20



Manifold type/For type 41/42



Dimensions (mm)

Series	Manifold type	W_1	W_2	H_1	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

Dimensions (mm)

Series	Manifold type	W	H_1	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

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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. CE [Option]

25A – VV5Q 2 1 – 08 C6 F U 1 – □ – □

Series compatible with secondary batteries

Series

2	VQ2000

Manifold

1	Plug-in unit

Stations

02	2 stations
⋮	⋮
24	24 stations

Cylinder port

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

Connector entry direction

U	Top entry
S	Side entry

Cable (Length)

0	Without cable
1	With cable (1.5 m)
2	With cable (3 m)
3	With cable (5 m)

Option

Symbol	Option
Nil	None
2	200/220 VAC models
B Note 2)	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□ Note 3)	DIN rail length specified (□: Stations 02 to 24)
K Note 4)	Special wiring specifications (Except double wiring)
N	With name plate
R Note 5)	External pilot
S	Direct EXH outlet with built-in silencer

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.

CE-compliant

Nil	—
Q	CE-compliant

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

How to Order Valves

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

25A – VQ 2 1 0 1 □ – 5 □ □ 1 – □

Series compatible with secondary batteries

Series

2	VQ2000

Seal type

1	Rubber seal

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
A	4-position dual port (N.C./N.C.)
B	4-position dual port (N.O./N.O.)
C	4-position dual port (N.C./N.O.)

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.4 W) ○	○
B	High speed response type	(0.95 W) ○	—
N	Negative common	○	—
R	External pilot	○	○

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

Coil voltage

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

Light/surge voltage suppressor

Nil	Yes
E	None

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
D	Slide locking type (Manual)

CE-compliant

Nil	—
Q	CE-compliant

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.

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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. CE [Option]

25A – VV5Q 2 1 – 08 C6 T 0 – □ – □

- **Series compatible with secondary batteries**
- **Series**

2	VQ2000

- **Manifold**

1	Plug-in unit

- **Stations**

02	2 stations
⋮	⋮
20	20 stations

- **Cylinder port**

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

- **Option**

Symbol	Option
Nil	None
B Note 2)	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□ Note 5)	DIN rail length specified (□: Stations 02 to 24)
K Note 5)	Special wiring spec. (Except double wiring)
N	With name plate
R Note 6)	External pilot
S	Direct EXH outlet with built-in silencer
W	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 mounting position by means of the manifold specification sheet.
Note 5) Specify the wiring specifications by means of the manifold specification sheet.
Note 6) Indicate "R" for the valve with external pilot.

- **CE-compliant**

Nil	—
Q	CE-compliant

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

How to Order Valves

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

25A – VQ 2 1 0 1 □ – 5 □ □ □ 1 – □

- **Series compatible with secondary batteries**
- **Series**

2	VQ2000

- **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
A	4-position dual port (N.C./N.C.)
B	4-position dual port (N.O./N.O.)
C	4-position dual port (N.C./N.O.)

- **Seal type**

1	Rubber seal

- **Function**

Symbol	Specifications	DC	AC
Nil	Standard	(0.4 W) ○	○
B	High speed response type	(0.95 W) ○	—
N	Negative common	○	—
R	External pilot	○	○

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

- **Coil voltage**

		CE-compliant
1	100 VAC (50/60 Hz)	—
3	110 VAC (50/60 Hz)	—
5	24 VDC	●
6	12 VDC	●

- **Light/surge voltage suppressor**

Nil	Yes
E	None

- **Manual override**

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
D	Slide locking type (Manual)

- **Enclosure**

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

- **CE-compliant**

Nil	—
Q	CE-compliant

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.

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Plug-in Unit/Base Mounted
L Kit (Lead wire)
Series 25A-VQ2000

How to Order Manifold

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

25A – VV5Q 2 1 – 06 C6 L 1 – □ – □

- **Series compatible with secondary batteries**
- **Series**

2	VQ2000

- **Manifold**

1	Plug-in unit

- **Stations**

01	1 station
⋮	⋮
08	8 stations

- **Cylinder port**

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

- **Cable (Length)**

0	Cable length 0.6 m
1	Cable length 1.5 m
2	Cable length 3 m

- **Option**

Symbol	Option
Nil	None
2	200/220 VAC models
B Note 2)	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□ Note 3)	DIN rail length specified (□: Stations 02 to 08)
N	With name plate
R Note 4)	External pilot
S	Direct EXH outlet with built-in silencer
W	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 a number of stations.
Note 4) Indicate "R" for the valve with external pilot.

- **CE-compliant**

Nil	—
Q	CE-compliant

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

How to Order Valves

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

25A – VQ 2 1 0 1 □ – 5 □ □ □ 1 – □

- **Series compatible with secondary batteries**
- **Series**

2	VQ2000

- **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
A	4-position dual port (N.C./N.C.)
B	4-position dual port (N.O./N.O.)
C	4-position dual port (N.C./N.O.)

- **Seal type**

1	Rubber seal

- **Function**

Symbol	Specifications	DC	AC
Nil	Standard	(0.4 W) ○	○
B	High speed response type	(0.95 W) ○	—
N	Negative common	○	—
R	External pilot	○	○

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

- **Coil voltage**

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

- **Light/surge voltage suppressor**

Nil	Yes
E	None

- **Manual override**

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
D	Slide locking type (Manual)

- **Enclosure**

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

- **CE-compliant**

Nil	—
Q	CE-compliant

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

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

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Plug-in Unit/Base Mounted
S Kit (Serial transmission)
Series 25A-VQ2000

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

How to Order Manifold

25A – VV5Q 2 1 – 08 C6 S V – □ – □

Series compatible with secondary batteries

Series

2	VQ2000

Manifold

1	Plug-in unit

Stations

02	2 stations
⋮	⋮
16 Note)	16 stations

Note) Max. 16 stations. (Specify a model with 9 to 16 stations by means of the manifold specification 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 stations
V	CC-Link	

Option

Symbol	Option
Nil	None
B Note 2)	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
S	Direct EXH outlet with built-in silencer
W Note 6)	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, Water-jet-proof).

CE-compliant

Nil	—
Q	CE-compliant

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

SI Unit Part No.

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

SI Unit Part No. (With option W)

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

How to Order Valves

CE [Option]

25A – VQ 2 1 0 1 □ – 5 □ □ 1 – □

Series compatible with secondary batteries

Series

2	VQ2000

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
A	4-position dual port (N.C./N.C.)
B	4-position dual port (N.O./N.O.)
C	4-position dual port (N.C./N.O.)

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC
Nil	Standard	(0.4 W) ○
B	High speed response type	(0.95 W) ○
N Note 1)	Negative common	○
R Note 1)	External pilot	○

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.

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
D	Slide locking type (Manual)

Coil voltage

5	24 VDC; With indicator light/ surge voltage suppressor

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE-compliant

Nil	—
Q	CE-compliant

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

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Sub-plate Single Unit

Series 25A-VQ2000

How to Order

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

CE [Option]

In the case of (Valve) + (Sub-plate)

25A – VQ2 [1] 0 [1] – [5] [W] 1 – 02 [ ] – [ ]

- **25A**: Series compatible with secondary batteries
- **VQ2 [1] 0 [1]**: Entry is the same as standard products.
- **[W]**: Enclosure

Nil	Dustproof
W Note 1)	Dust-tight/Water-jet-proof type (IP65)

Note 1) Valves are IP65 specifications.
Note 2) When the valve is a standard (dust-protected) specification, it is not compatible with 200 or 220 VAC.

- **02**: Port size

02	1/4

- **[ ]**: Thread type

Nil	Rc
N	NPT
T	NPTF
F	G

- **[ ]**: CE-compliant

Nil	—
Q	CE-compliant

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

In the case of (Sub-plate) alone

25A – VQ2000 – PW – 02

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

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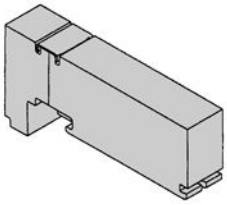
Manifold Options

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
	EX124D-SDN1-X220	DeviceNet™
EX120 SI unit	**EX120-SMJ1-X220**	CC-Link (VQ2000/Without option "W")
	EX120-SDN1-X220	DeviceNet™ (VQ2000/Without option "W")

One-touch Fittings Part No.

Port size			One-touch fitting part no.
Cylinder port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**
		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**

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Plug-in/Plug Lead: Single Unit Base Mounted

Series 25A-VQ4000

How to Order Valves

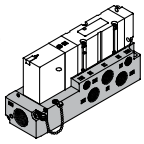
CE [Option]

Plug-in 25A–VQ4 1 0 1 □ – □ □ □ □ □ – □ □ – □

Plug lead 25A–VQ4 2 5 1 □ – □ □ □ □ □ – □ □ – □

Body

0: Plug-in sub-plate



Port size

Nil	Without sub-plate (For manifold)
02	Rc 1/4
03	Rc 3/8

Note) Thread standard is the same as standard products.

Porting specifications

Nil	Side ported
B	Bottom ported

Series compatible with secondary batteries

Type of actuation

1	2-position single
2	Rubber/2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
6 Note)	3-position double check

Note) For double check style, refer to the Best Pneumatics No. 1.

Enclosure

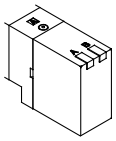
Nil	Dustproof
W	Dust-tight/ Water-jet-proof type (IP65)

CE-compliant

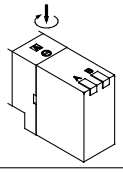
Nil	—
Q	CE-compliant

Manual override

Nil: Non-locking push type (Tool required)

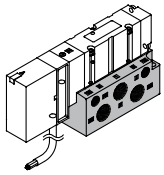


B: Slotted locking type (Tool required)



Body

5: Plug lead sub-plate



Seal type

1	Rubber seal

Function

Nil	Standard type (1 W)
Y (1)	Low wattage type (0.5 W)
R (2)	External pilot

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.

Light/Surge voltage suppressor

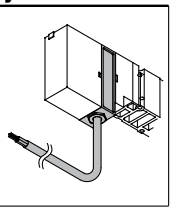
Nil	Yes
E	Without light, with surge voltage suppressor

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry

Grommet	G	Lead wire length 0.6 m
	H	Lead wire length 1.5 m



How to Order Sub-plates

CE [Option]

25A – VQ4000 – □ □ – □ □ – □

Series compatible with secondary batteries

Electrical entry

P	Plug-in conduit terminal
S	Plug lead

Enclosure

Nil	Dustproof
W Note)	Dust-tight/Water-jet-proof type

Note) It is not necessary for plug lead type.

Porting specifications

Nil	Side ported
B	Bottom ported (1)

Note 1) For bottom ported port size is Rc 1/4 only.
Note 2) Thread standard is the same as standard products.

CE-compliant

Nil	—
Q	CE-compliant

Port size

02	Rc1/4
03	Rc3/8

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

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Plug-in Unit/Base Mounted
F Kit (D-sub connector kit)
Series 25A-VQ4000

CE [Option]

How to Order Manifold

25A – VV5Q 4 1 – 08 C8 F U 1 – ☐ – ☐

- **25A**: Series compatible with secondary batteries

Series

4	VQ4000

Manifold

1	Plug-in unit

Stations

01	1 station
⋮	⋮
18	18 stations

Cylinder port

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

Note) As a semi-standard specification, the maximum number of stations can be increased by special wiring specifications.

Connector entry direction

D	D side entry
U	U side entry

Cable (Length)

0	Without cable
1	Cable length 1.5 m
2	Cable length 3 m
3	Cable length 5 m

Option

Symbol	Option
Nil	None
K (1)	Special wiring specifications (Except double wiring)

Note 1) Specify the wiring specifications on the manifold specification sheet.
Note 2) Refer to the standard products for with control unit.

CE-compliant

Nil	—
Q	CE-compliant

CE [Option]

How to Order Valves

25A – VQ 4 1 0 1 ☐ – 5 ☐ ☐ – ☐

- **25A**: Series compatible with secondary batteries

Series

4	VQ4000

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
6	3-position double check

Seal type

1	Rubber seal

Function

Nil	Standard (1 W)
Y (1)	Low wattage type (0.5 W)
R (2)	External pilot

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.

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

CE-compliant

Nil	—
Q	CE-compliant

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

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Plug-in Unit/Base Mounted
T Kit (Terminal block box kit)
Series 25A-VQ4000

[Option]

How to Order Manifold

25A – VV5Q 4 1 – 08 C8 T O – ☐ – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Manifold

1	Plug-in unit

Stations

03	3 stations
⋮	⋮
18	18 stations

Note) 2 stations are used for mounting the terminal block box. The number of 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.

Cylinder port

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

Note) As a semi-standard specification, the maximum number of stations can be increased by special wiring specifications.

Box mounting position

O	U side mounting
D	D side mounting

Option

Symbol	Option
Nil	None
K (2)	Special wiring specifications (Except double wiring, for 13 stations or more)
N (3)	Name plate
W	IP65 enclosure

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.

CE-compliant

Nil	—
Q	CE-compliant

[Option]

How to Order Valves

25A – VQ 4 1 0 1 ☐ – 5 ☐ ☐ ☐ – ☐

Series compatible with secondary batteries

Series

4	VQ4000

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
6	3-position double check

Seal type

1	Rubber seal

Function

Nil	Standard (1 W)
Y (1)	Low wattage type (0.5 W)
R (2)	External pilot

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.

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE-compliant

Nil	—
Q	CE-compliant

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

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Plug-in Unit/Base Mounted
L Kit (Lead wire cable)
Series 25A-VQ4000

How to Order Manifold

[Option]

25A – VV5Q 4 1 – 08 C8 L D □ – □ – □

- **25A**: Series compatible with secondary batteries
- **Series**

4	VQ4000

- **Manifold**

1	Plug-in unit

- **Stations**

01	1 station
⋮	⋮
16	16 stations

- **Cylinder port**

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

- **Connector locations**

D	D side entry
U	U side entry

- **Cable (Length)**

0	Cable length 0.6 m
1	Cable length 1.5 m
2	Cable length 3 m

- **Option**

Symbol	Option
Nil	None
W	IP65 enclosure

- **CE-compliant**

Nil	—
Q	CE-compliant

How to Order Valves

[Option]

25A – VQ 4 1 0 1 □ – 5 □ □ □ – □

- **25A**: Series compatible with secondary batteries
- **Series**

4	VQ4000

- **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
6	3-position double check

- **Seal type**

1	Rubber seal

- **Function**

Nil	Standard (1 W)
Y (1)	Low wattage type (0.5 W)
R (2)	External pilot

- **Coil voltage**

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

- **Light /Surge voltage suppressor**

Nil	Yes
E	Without light, with surge voltage suppressor

- **Manual override**

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

- **Enclosure**

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

- **CE-compliant**

Nil	—
Q	CE-compliant

Note 1) Applicable to DC specification. 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.

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Plug-in Unit/Base Mounted
S Kit (Serial transmission unit)
Series 25A-VQ4000

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

[Option]

How to Order Manifold

25A – VV5Q 4 1 – 08 C8 S D V – ☐ – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Manifold

1	Plug-in unit

Stations

03	3 stations
⋮	⋮
18	18 stations

Note) 2 stations are used for mounting SI unit. The number of stations is the number of manifold valves plus 2 stations for SI unit. For 11 stations or more, specify the wiring specifications by means of the manifold specification sheet.

Cylinder ports

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

SI unit mounting position

D	D side mounting
U	U side mounting

SI unit

0	Without SI unit
Q	DeviceNet™
V	CC-Link

Option

Symbol	Option
Nil	None
K (2)	Special wiring specifications (Except double wiring, for 11 stations or more)
W	IP65 enclosure

Note 1) When two or more symbols are specified, indicate them alphabetically. Example) -KW
Note 2) Specify the wiring specifications in the manifold specification sheet.
Note 3) With control unit is the same as standard products.
Note 4) The release valve and the pressure switch on the manifold with control unit are connected to another power supply. Cable length is 0.6 m for L kit.

CE-compliant

Nil	—
Q	CE-compliant

[Option]

How to Order Valves

25A – VQ 4 1 0 1 ☐ – 5 ☐ ☐ ☐ ☐

Series compatible with secondary batteries

Series

4	VQ4000

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
6	3-position double check

Seal type

1	Rubber seal

Function

Nil	Standard (1 W)
Y (1)	Low wattage type (0.5 W)
R (2)	External pilot

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.

Coil voltage

5	24 VDC

Light /Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE-compliant

Nil	—
Q	CE-compliant

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

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

CE [Option]

Series 25A-VQ4000

How to Order Manifold

25A – VV5Q 4 5 – 08 C8 C □□ – W – □

Series compatible with secondary batteries

Series

4	VQ4000

Manifold

5	Plug lead unit

Stations

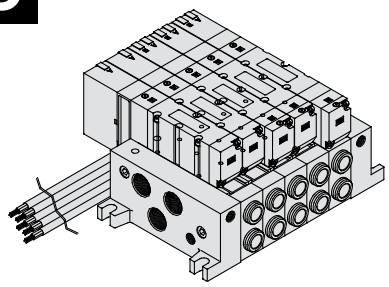
01	1 station
⋮	⋮
16	16 stations

Cylinder port

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

Kit type

C kit (Connector)



C	Connector kit	Max. 16 stations

Control unit
Refer to the standard products.

Option

Symbol	Option
Nil	None
W	IP65 enclosure

CE-compliant

Nil	—
Q	CE-compliant

Refer to the Best Pneumatics No. 1 for wiring specifications.

How to Order Valves

25A – VQ 4 1 5 1 □ – 5 G □ □ □ – □

Series compatible with secondary batteries

Series

4	VQ4000

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
6	3-position double check

Seal type

1	Rubber seal

Function

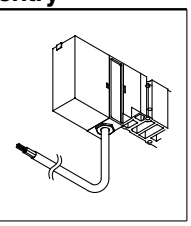
Nil	Standard (1 W)
Y (1)	Low wattage type (0.5 W)
R (2)	External pilot

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.

Coil voltage

1	100 VAC (50/60 Hz)	4	220 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)	5	24 VDC
3	110 VAC (50/60 Hz)	6	12 VDC

Electrical entry

Grommet	G Lead wire length 0.6 m	
	H Lead wire length 1.5 m	

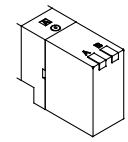
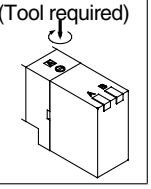
Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

Manual override

Nil:	B:
Non-locking push type (Tool required)	Locking type (Tool required)
	

CE-compliant

Nil	—
Q	CE-compliant

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

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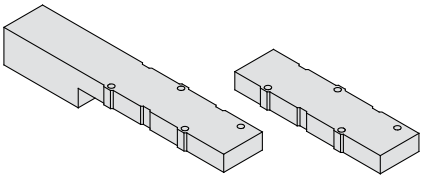
Manifold Options

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	SI unit part no.	Note
EX124 SI unit	**EX124D-SMJ1-X220**	CC-Link/D side mounting
	EX124D-SDN1-X220	DeviceNet™/D side mounting
	EX124U-SMJ1-X220	CC-Link/U side mounting
	EX124U-SDN1-X220	DeviceNet™/U side mounting

One-touch Fittings Part No.

Port size			One-touch fittings part no.
Cylinder port	Metric size	ø6 One-touch fitting (Straight type)	**90-VVQ4000-50B-C6**
		ø8 One-touch fitting (Straight type)	**90-VVQ4000-50B-C8**
		ø10 One-touch fitting (Straight type)	**90-VVQ4000-50B-C10**
		ø12 One-touch fitting (Straight type)	**90-VVQ4000-50B-C12**

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Plug-in Unit

Series 25A-SQ2000

CE [Option]

How to Order Manifold

25A – SS5Q23 – 08 FD2 – D □ – □ – □

- **Series compatible with secondary batteries**
- **Stations**

01	1 station
⋮	⋮
16 Note)	16 stations

Note) The maximum number of stations depends on the type of electrical entries.

- **Manifold mounting**

D	DIN rail mounting
E Note)	Direct mounting

- **Option**

Nil	None
02 to 16 (1)	DIN rail length specified
B (2)	Back pressure check valve
K (3)	Special wiring specifications (Except double wiring)
N	With name plate (Side ported only)
R	External pilot specifications

- **CE-compliant**

Nil	—
Q	CE-compliant

- **1(P), 3(R) port size**

Nil	1(P), 3(R) port One-touch fittings for ø10
00T	1(P), 3(R) port One-touch fittings for ø3/8"

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**

Kit type		Lead wire connector location	Cable specifications	Station	Max. number of stations for special wiring specifications	(2) Max. number of solenoids
F kit D-sub connector kit (The electric parts are made of copper. Mounting screw: Stainless steel. D side / U side. One-touch fitting Body: Stainless steel)	FD0	D side	D-sub connector (25P) kit, without cable	1 to 12 stations	16 stations	24
	FD1		D-sub connector (25P) kit, with 1.5 m cable			
	FD2		D-sub connector (25P) kit, with 3.0 m cable			
	FD3		D-sub connector (25P) kit, with 5.0 m cable			
T kit Terminal block box kit	TD0	D side	Terminal block box kit	1 to 10 stations	16 stations	16
L kit Lead wire kit (Mounting screw: Stainless steel. One-touch fitting Body: Stainless steel)	LD0	D side	Lead wire kit with 0.6 m cable	1 to 12 stations	—	—
	LU0	U side				
	LD1	D side	Lead wire kit with 1.5 m cable			
	LU1	U side				
	LD2	D side	Lead wire kit with 3.0 m cable			
	LU2	U side				
S kit Serial transmission kit EX140 integrated-type (for output) serial transmission system (3) (Mounting screw:Stainless steel. The electric parts are made of copper. One-touch fitting Body: Stainless steel)	SDQ	D side	DeviceNet™	1 to 8 stations	16 stations	16
	SDV		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	

Blanking plate assembly

25A-SSQ2000-10A-3

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

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How to Order Valves

[Option]

25A – SQ2 [1] 3 1 [ ] – 5 [ ] – C6 – [ ] – [ ] – [ ]

- **Series compatible with secondary batteries**

Type of actuation

1	2-position single
2	2-position double (Latching) (Metal seal, Rubber seal)
	2-position double (Double solenoid) (1) (Rubber seal)
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A (2)	4-position dual 3 port valve (N.C./N.C.)
B (2)	4-position dual 3 port valve (N.O./N.O.)
C (2)	4-position dual 3 port valve (N.C./N.O.)

Note 1) For double solenoid specification, the function symbol below is "D".
Note 2) Only rubber seal types are applicable.

Seal type

1	Rubber seal

Function

Nil	Standard (1.0 W DC)
D	2-position double (Double solenoid specifications) (Latching type: Nil)
N	Negative common
Y(1)(2)	Low wattage type (0.5 W DC)
R(3)	External pilot specifications

Note 1) Except double (latching) type.
Note 2) Please select when you expect to energize the unit for extended periods of time.
Note 3) Except dual 3 port valves.
Note 4) When two or more symbols are specified, indicate them alphabetically.

Coil voltage

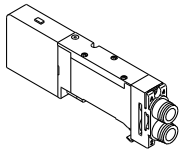
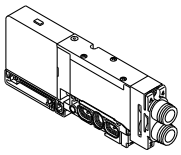
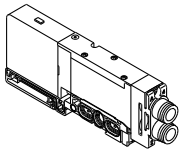
5	24 VDC
6	12 VDC

Note 1) Light/Surge voltage suppressor is built-in.
Note 2) S kit: 24 VDC only

CE-compliant

Nil	—
Q	CE-compliant

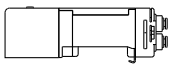
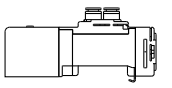
With/Without manifold block

Nil	M	MB
Without manifold block	With manifold block	With manifold block, built-in back pressure check valve
	 ∗ Lead wire is not included.	 ∗ Lead wire is not included.
• When ordering with manifolds • When only valves are required.	For adding stations	

Port plug mounting port

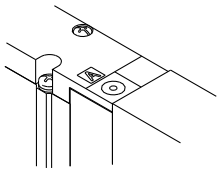
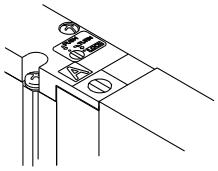
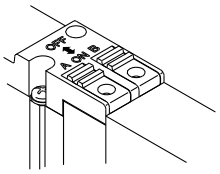
Nil	None
A	Port 4(A)
B	Port 2(B)

Cylinder port

C4	One-touch fittings for ø4	Side ported	
C6	One-touch fittings for ø6		
C8	One-touch fittings for ø8		
L4	One-touch fittings for ø4	Top (1) ported	
L6	One-touch fittings for ø6		
L8	One-touch fittings for ø8		

Note 1) Can be changed to side ported configuration.
Note 2) Refer to the standard products for the inch-size One-touch fittings.

Manual override

Nil	B Note)	D Note)
Non-locking push type (Tool required)	Locking type (Tool required)	Slide locking type (Manual type) ∗ Only side ported type applicable
		

Note) Except double (latching) type.

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

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Plug Lead Unit

Series 25A-SQ2000

CE [Option]

How to Order Manifold

25A – SS5Q24 – 08 FD2 – D □ – □ – □

- **Series compatible with secondary batteries**
- **Stations**

01	1 station
⋮	⋮
16 Note)	16 stations

Note) The maximum number of stations depends on the type of electrical entries.

- **Manifold mounting**

D	DIN rail mounting
E Note)	Direct mounting

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

- **Option**

Nil	None
02 to 16 (1)	DIN rail length specified
B	Back pressure check valve
K (2)	Special wiring specifications (Except double wiring)
N	With name plate (Side ported only)
R	External pilot specifications

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

- **1(P), 3(R) port size**

Nil	1(P), 3(R) port, One-touch fittings for ø10
00T	1(P), 3(R) port, One-touch fittings for ø3/8"

- **CE-compliant**

Nil	—
Q	CE-compliant

- **Electrical entry**

Kit type		Lead wire connector location	Cable specifications	Stations	Max. number of stations for special wiring specifications	(1) Max. number of solenoids
F kit The electric parts are made of copper. D side. U side. Mounting screw: Stainless steel. One-touch fitting Body: Stainless steel. D-sub connector kit	FD0	D side	D-sub connector (25P) kit, without cable	1 to 12 stations	16 stations	24
	FD1		D-sub connector (25P) kit, with 1.5 m cable			
	FD2		D-sub connector (25P) kit, with 3.0 m cable			
	FD3		D-sub connector (25P) kit, with 5.0 m cable			
C kit Mounting screw: Stainless steel. One-touch fitting Body: Stainless steel. Connector kit	C	—	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.)
∗ Refer to the Best Pneumatics No. 1 for manifold spare parts.

Blanking plate assembly

25A-SSQ2000-10A-4

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

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CE [Option]

How to Order Valves

25A–SQ2 [1] 4 1 [ ] – 5 [L] [ ] – C6 – [ ] – [ ] – [ ]

- **Series compatible with secondary batteries**
- **Type of actuation**
- **Seal type**
- **Function**
- **Coil voltage**
- **Electrical entry**
- **Manual override**
- **Cylinder port**
- **Port plug mounting port**
- **With/Without manifold block**
- **CE-compliant**

Type of actuation

1	2-position single
2	2-position double (Latching) (Metal seal, Rubber seal)
	2-position double (Double solenoid) (1) (Rubber seal)
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A (2)	4-position dual 3 port valve (N.C./N.C.)
B (2)	4-position dual 3 port valve (N.O./N.O.)
C (2)	4-position dual 3 port valve (N.C./N.O.)

Note 1) For double solenoid specification, the function symbol below is "D".
Note 2) Only rubber seal types are applicable.

Seal type

1	Rubber seal

Function

Nil	Standard (1.0 W DC)
D	2-position double (Double solenoid specifications) (Latching type: Nil)
N	Negative COM
Y(1)(2)	Low wattage type (0.5 W DC)
R(3)	External pilot specifications

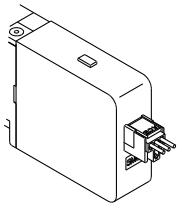
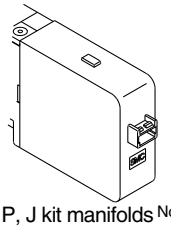
Note 1) Except double (latching) type.
Note 2) Please select when you expect to energize the unit for extended periods of time.
Note 3) Except dual 3 port valves.
Note 4) When two or more symbols are specified, indicate them alphabetically.

Coil voltage

5	24 VDC
6	12 VDC

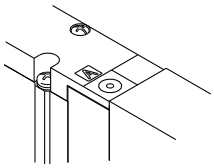
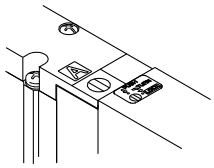
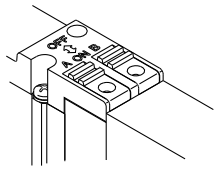
Note) Light/Surge voltage suppressor is built-in.

Electrical entry

L	LO
Plug connector type with 300 mm lead wire	Plug connector type without connector
	 For F, P, J kit manifolds Note)

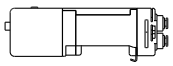
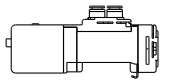
Note) Indicate "LO" when ordering centralized wiring type manifolds, F, P, and J kits, since the lead wire will be attached to the manifold side.

Manual override

Nil	B Note)	D Note)
Non-locking push type (Tool required)	Locking type (Tool required)	Slide locking type (Manual type) ∗ Only side ported type applicable
		

Note) Except double (latching) type.

Cylinder port

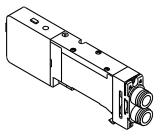
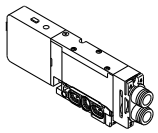
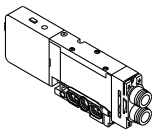
C4	One-touch fitting for ø4	Side ported	
C6	One-touch fitting for ø6		
C8	One-touch fitting for ø8		
L4	One-touch fitting for ø4	Top (1) ported	
L6	One-touch fitting for ø6		
L8	One-touch fitting for ø8		

Note 1) Can be changed to side ported configuration.
Note 2) Refer to the standard products for the inch-size One-touch fittings.

Port plug mounting port

Nil	None
A	Port 4(A)
B	Port 2(B)

With/Without manifold block

Nil	M	MB
Without manifold block	With manifold block	With manifold block, built-in back pressure check valve
	 ∗ Lead wire is not included.	 ∗ Lead wire is not included.
• When ordering with manifolds • When only valves are required.	For adding stations	

CE-compliant

Nil	—
Q	CE-compliant

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

SMC

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SI Unit Part No.

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

One-touch Fittings Part No.

Port size			One-touch fittings part no.
Cylinder port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**
		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**

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5 Port Solenoid Valve
Series 25A-VQZ1000
Single Unit

[Option]

How to Order Valves

25A – VQZ 1 1 5 1 □ – 5 M □ 1 – 01 – □

Series compatible with secondary batteries

Series

1	VQZ1000 body width 10 mm

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
8	3-port for mixture mounting N.C.
9	3-port for mixture mounting N.O.

Body type

5	Base mounted

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	—
R	External pilot type	○	○
BR	High speed response/External pilot type	(0.9 W) ○	—

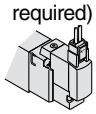
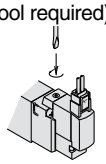
Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry

G: Grommet (DC specification)	L: L-type plug connector with lead wire	LO: L-type plug connector without connector	M: M-type plug connector with lead wire	MO: M-type plug connector without connector
	With light/ surge voltage suppressor	With light/ surge voltage suppressor	With light/ surge voltage suppressor	With light/ surge voltage suppressor

Manual override

Nil: Non-locking push type (Tool required)	B: Locking type (Tool required)
	

Port size

Symbol	Port size
Nil	Without sub-plate
01	Rc1/8

CE-compliant

Nil	—
Q	CE-compliant

Note) DC-type only.

⚠ Caution

Use standard (DC) specification for continuous duty.

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

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5 Port Solenoid Valve
Series 25A-VQZ1000
Manifold Connector Kit

CE [Option]

How to Order Manifold

25A – VV5QZ 1 5 – 08 C6 C – R – ☐

Series compatible with secondary batteries

Series

1	VQZ1000

Manifold type

5	Base mounted

Stations

02	2 stations
⋮	⋮
20	20 stations

Port size [4(A), 2(B) port]

Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
M5	M5 thread
CM Note)	Mixture of port sizes

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.

Kit type

C	Connector

Option

Nil	None
R	External pilot type

CE-compliant

Nil	—
Q	CE-compliant

How to Order Valves

25A – VQZ 1 1 5 1 ☐ – 5 M ☐ 1 – ☐

Series compatible with secondary batteries

Series

1	VQZ1000 body width 10 mm

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
8	3-port for mixture mounting N.C.
9	3-port for mixture mounting N.O.

Body type

5	Base mounted

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	—
R	External pilot type	○	○
BR	High speed response/ External pilot type	(0.9 W) ○	—

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry

Symbol	Electrical entry	Light/surge voltage suppressor
G	Grommet (DC specification)	None
L	L-type plug connector with lead wire	Yes
LO	L-type plug connector without connector	Yes
M	M-type plug connector with lead wire	Yes
MO	M-type plug connector without connector	Yes

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

CE-compliant

Nil	—
Q	CE-compliant

Note) DC-type only.

⚠ Caution

Use standard (DC) specification for continuous duty.

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

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Body Ported

Plug Lead Unit

5 Port Solenoid Valve
Series 25A-VQZ1000
Single Unit

[Option]

How to Order Valves

25A – VQZ 1 1 2 1 ☐ – 5 M ☐ 1 – C6 – ☐ – ☐

Series compatible with secondary batteries

Series

1	VQZ1000 body width 10 mm

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
8	3-port for mixture mounting N.C.
9	3-port for mixture mounting N.O.

Note) 3 port for mixture mounting is only available for port size C4 or C6.

Body type

2	Body ported

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	—

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry

G: Grommet (DC specification)	L: L-type plug connector with lead wire	LO: L-type plug connector without connector	M: M-type plug connector with lead wire	MO: M-type plug connector without connector
	With light/ surge voltage suppressor	With light/ surge voltage suppressor	With light/ surge voltage suppressor	With light/ surge voltage suppressor

Manual override

Nil: Non-locking push type (Tool required)	B: Locking type (Tool required)

Port size [4(A), 2(B) port]

Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
M5	M5 thread

Option

Nil: None
F: With bracket (2 position single type only)

Bracket

CE-compliant

Nil	—
Q	CE-compliant

Note) DC-type only.

⚠ Caution

Use standard (DC) specification for continuous duty.

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

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Body Ported

Plug Lead Unit

5 Port Solenoid Valve
Series 25A-VQZ1000
Manifold Connector Kit

CE [Option]

How to Order Manifold

25A – VV5QZ 1 2 – 08 C – ☐

Series compatible with secondary batteries

Series

1	VQZ1000

Manifold type

2	Body ported

Stations

02	2 stations
⋮	⋮
20	20 stations

Kit type

C	Connector

CE-compliant

Nil	—
Q	CE-compliant

How to Order Valves

25A – VQZ 1 1 2 1 ☐ – 5 M ☐ 1 – C6 – ☐

Series compatible with secondary batteries

Series

1	VQZ1000 body width 10 mm

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5 Note)	3-position pressure center
8 Note)	3-port for mixture mounting N.C.
9 Note)	3-port for mixture mounting N.O.

Note) 3 port for mixture mounting is only available for port size C4 or C6.

Body type

2	Body ported

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	—

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry

Symbol	Electrical entry	Light/surge voltage suppressor
G	Grommet (DC specification)	None
L	L-type plug connector with lead wire	Yes
LO	L-type plug connector without connector	
M	M-type plug connector with lead wire	
MO	M-type plug connector without connector	

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

Port size [4(A), 2(B) port]

Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
M5	M5 thread

CE-compliant

Nil	—
Q	CE-compliant

Note) DC-type only.

⚠ Caution

Use standard (DC) specification for continuous duty.

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

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Plug-in Unit
Base Mounted

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

How to Order

Double check block

25A – VQ1000 – FPG – C4 M5 – F

- **25A**: Series compatible with secondary batteries
- **C4**: IN side port size
- **M5**: OUT side port size
- **F**: Option

IN side port size

M5	M5 thread
C3	ø3.2 One-touch fitting
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting

OUT side port size

M5	M5 thread
C3	ø3.2 One-touch fitting
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting

Option

Nil	None
F	With bracket
D	DIN rail mounting (For manifold)
N	Name plate

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

Manifold (DIN rail mounting)

25A – VVQ1000 – FPG – 06

- **25A**: Series compatible with secondary batteries
- **06**: Stations

When ordering a double check block, order the DIN rail mounting [-D].

Stations

01	1 station
⋮	⋮
16	16 stations

<Ordering example>
25A-VVQ1000-FPG-06…6-station manifold
- ∗ **25A-VQ1000-FPG-C4M5-D; 3 sets**
- ∗ **25A-VQ1000-FPG-C6M5-D; 3 sets**

} **Double check block**

Bracket Assembly

Part no.	Tightening torque
25A-VQ1000-FPG-FB	0.16 to 0.18 lbf ft [0.22 to 0.25 N·m]

Double check block

25A – VQ2000 – FPG – 01 01 – F

- **25A**: Series compatible with secondary batteries
- **01**: IN side port size
- **01**: OUT side port size
- **F**: Option

IN side port size

01	Rc 1/8
02	Rc 1/4
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting

OUT side port size

01	Rc 1/8
02	Rc 1/4
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting

Option

Nil	None
D	DIN rail mounting (For manifold)
F	With bracket
N	Name plate

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

Manifold (DIN rail mounting)

25A – VVQ2000 – FPG – 06

- **25A**: Series compatible with secondary batteries
- **06**: Stations

When ordering a double check block, order the DIN rail mounting [-D].

Stations

01	1 station
⋮	⋮
16	16 stations

<Ordering Example>
25A-VVQ2000-FPG-06…6-station manifold
- ∗ **25A-VQ2000-FPG-C6C6-D; 3 sets**
- ∗ **25A-VQ2000-FPG-C8C8-D; 3 sets**

} **Double check block**

Bracket Assembly

Part no.	Tightening torque
25A-VQ2000-FPG-FB	0.59 to 0.74 lbf·ft [0.8 to 1.0 N·m]

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

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Rubber Seal
3 Port/Pilot Poppet Type
Series 25A-VP342/542/742

How to Order

Note) Only DIN and conduit terminal types are available for AC mode.
Refer to the electrical entry for details.

Body ported **25A – VP 3 4 2 □ □ □ – 5 D □ □ 1 – 01 □ A – □**

Series compatible with secondary batteries

Series

3	VP300
5	VP500
7	VP700

Pilot type

Nil	Internal pilot
R	External pilot

Pressure specification

Nil	Standard (102 psi [0.7 MPa])
K	High pressure type (145 psi [1.0 MPa])

Coil specification

Nil	Standard
T	With power saving circuit (DC only)

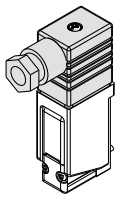
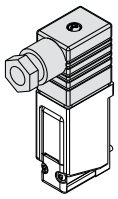
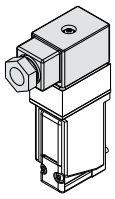
Note) Be sure to select the power saving circuit type when it is continuously energized for a long time.
∗ "T" type is only available for DC mode. When "T" is selected, only "Z" type of light/surge voltage suppressor is available.

Rated voltage

DC	
5	24 VDC
6	12 VDC

AC (50/60 Hz)	
1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]
7	240 VAC
B	24 VAC

Electrical entry

	DIN terminal	DIN (EN175301-803) terminal	Conduit terminal
	[IP65 compatible]	[IP65 compatible]	[IP65 compatible]
			
	D: With connector	**Y**: With connector	**T**: Conduit terminal
CE-compliant DC	CE	CE	CE
CE-compliant AC	CE	CE	CE

Thread type

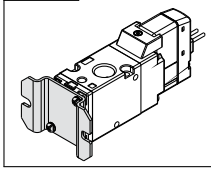
Nil	Rc
F	G
N	NPT
T	NPTF

Type of actuation

A	N.C. (Normally closed)
B	N.O. (Normally open)

Bracket

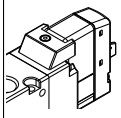
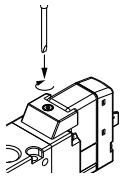
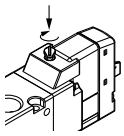
Nil	Without bracket
F	With bracket



Port size

Symbol	Port size	VP300	VP500	VP700
01	1/8	○	—	—
02	1/4	○	○	—
03	3/8	—	○	○
04	1/2	—	—	○

Manual override

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

Light/surge voltage suppressor

		DC	AC
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.

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

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Rubber Seal
3 Port/Pilot Poppet Type
Series 25A-VP344/544/744

How to Order

Note) Only DIN and conduit terminal types are available for AC mode. Refer to the electrical entry for details.

Base mounted **25A–VP 3 4 4 □ □ □ – 5 D □ □ 1– 01 □ A**

Series compatible with secondary batteries

Series

3	VP300
5	VP500
7	VP700

Pilot type

Nil	Internal pilot
R	External pilot

Pressure specifications

Nil	Standard (102 psi [0.7 MPa])
K	High pressure type (145 psi [1.0 MPa])

Coil specifications

Nil	Standard
T	With power saving circuit (DC only)

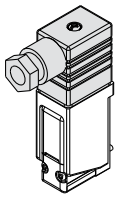
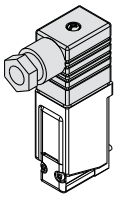
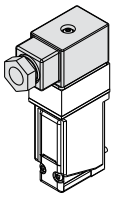
Note) Be sure to select the power saving circuit type when it is continuously energized for a long time.
∗ "T" type is only available for DC mode. When "T" is selected, only "Z" type of light/surge voltage suppressor is available.

Rated voltage

DC	
5	24 VDC
6	12 VDC

AC (50/60 Hz)	
1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]
7	240 VAC
B	24 VAC

Electrical entry

	DIN terminal	DIN (EN175301-803) terminal	Conduit terminal
	[IP65 compatible]	[IP65 compatible]	[IP65 compatible]
			
	D: With connector	**Y**: With connector	**T**: Conduit terminal
CE-compliant DC	CE	CE	CE
CE-compliant AC	CE	CE	CE

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Type of actuation

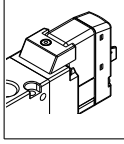
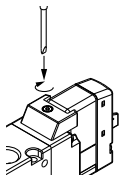
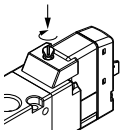
A	N.C. (Normally closed)
B	N.O. (Normally open)

Port size (Sub-plate)

Symbol	Port size	VP300	VP500	VP700
Nil	Without sub-plate∗			
01	1/8	○	—	—
02	1/4	○	○	—
03	3/8	—	○	○
04	1/2	—	—	○

∗ With a gasket and two mounting bolts.

Manual override

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

Light/surge voltage suppressor

		DC	AC
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.

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

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3 Port Solenoid Valve
Direct Operated Poppet Type

Series 25A-VT317
Rubber Seal

CE [Option]

Note) CE-compliant: For DIN terminal type.

How to Order

25A-V T 317 ☐ - 1 G ☐ - 02 ☐ - ☐

Body type

T	Body ported
O	Manifold

Series compatible with secondary batteries

Valve option

Nil	Standard
E *	Continuous duty type
V *	For vacuum

* Semi-standard

Rated voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3 *	110 VAC (50/60 Hz)
4 *	220 VAC (50/60 Hz)
5	24 VDC
6 *	12 VDC
7 *	240 VAC (50/60 Hz)

Note) Applicable only for DIN terminal type.
* Semi-standard

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

CE-compliant

Nil	—
Q	CE-compliant*

Note) Applicable only for DIN terminal type.

Port size

Nil	Without port (For manifold)
02	1/4 (8A)

Electrical entry

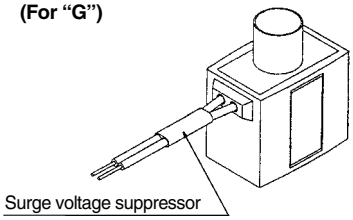
		CE-compliant
G	Grommet, 300 mm lead wire	—
H	Grommet, 600 mm lead wire	—
C	Conduit	—
T	Conduit terminal	—
D	DIN terminal	●

Light/Surge voltage suppressor

Symbol \ Electrical entry	G	H	C	T	D	CE-compliant D Only
Nil	—	—	—	—	—	●
S	● Note)	● Note)	● Note)	●	●	●
Z	—	—	—	●	●	●

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

Surge voltage suppressor mounting part (For "G")



Manifold

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.

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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)

How to Order

25A-VG342 [ ] - 5 D [ ] - 04 [ ] A - [ ]

- **25A-VG342**: Series compatible with secondary batteries
- **Valve option**

Nil	Internal pilot
R	External pilot

- **Rated voltage**

5	24 VDC
6*	12 VDC

* Semi-standard

- **Pilot valve option**

Nil	Standard type
Y*	Energy-saving type (DC only)
E*	Continuous duty type

* Semi-standard

- **Passage symbol**

Nil	External pilot
A	N.C. (Normally closed)
B	N.O. (Normally open)

- **Electrical entry**

D	DIN terminal

- **Thread type**

Nil	Rc

- **Light/Surge voltage suppressor**

Nil	None
Z	With light/surge voltage suppressor (Except grommet type)

- **Port size**

04	1/2
06	3/4
10	1

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

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5 Port Air Operated Valve

Series 25A-SYA5000/7000

How to Order

Body ported 25A – SYA 5 1 20 – C6

Base mounted 25A – SYA 5 1 40 – [ ]

Series compatible with secondary batteries

Series

5	SYA5000
7	SYA7000

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

A, B port size

Thread piping

Symbol	Port size	Applicable series
01	1/8	SYA5000
02	1/4	SYA7000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	ø4 One-touch fitting	SYA5000
C6	ø6 One-touch fitting	
C8	ø8 One-touch fitting	
C8	ø8 One-touch fitting	SYA7000
C10	ø10 One-touch fitting	

Port size

Symbol	Port size	Applicable series
Nil	Without sub-plate	
02	1/4 With sub-plate	SYA5000
02	1/4 With sub-plate	SYA7000
03	3/8 With sub-plate	

How to Order Manifold Base

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

25A-SS5YA $^{5}_{7}$- Fill the same as 25A-SS5Y $^{5}_{7}$.

(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.

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Finger Valve

Series 25A-VHK

RoHS

How to Order

25A−VHK 2 —— 04F − 04F ☐ ☐

Series compatible with secondary batteries

Valve model

2	2 port valve
3	3 port valve

1(P) port size

04F	ø4
06F	ø6
08F	ø8
01S	R1/8
02S	R1/4
03S	R3/8

2(A) port size

04F	ø4
06F	ø6
08F	ø8
01S	R1/8
02S	R1/4
03S	R3/8

Knob color

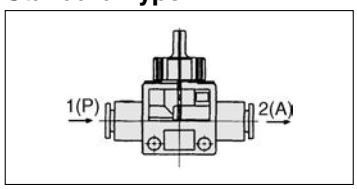
Nil (Standard)	2 port valve	Gray
	3 port valve	Blue
R (Option)	2 port valve	Red
	3 port valve	

Bracket

Nil	None
L	With L-bracket

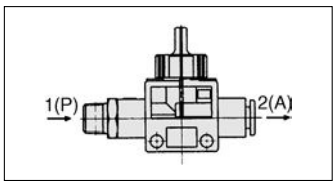
∗ Bracket and screws are attached.

Standard Type



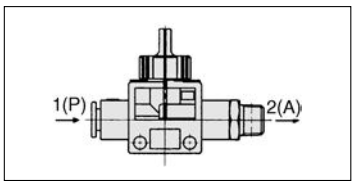
1(P): One-touch fitting
2(A): One-touch fitting

1(P) \ 2(A)		Applicable tubing O.D. (mm)		
		ø4	ø6	ø8
Applicable tubing O.D. (mm)	ø4	●		
	ø6	●	●	
	ø8		●	●



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

1(P) \ 2(A)		Applicable tubing O.D. (mm)		
		ø4	ø6	ø8
Port size R	1/8	●	●	●
	1/4		●	●
	3/8		●	●



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

1(P) \ 2(A)		Port size R		
		1/8	1/4	3/8
Applicable tubing O.D. (mm)	ø4	●		
	ø6	●	●	●
	ø8	●	●	●

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

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Air Cylinder: Standard Type
Double Acting, Single Rod

Series 25A-CJ2

ø10, ø16

How to Order

25A – C D J2 L 16 – 60 Z – M9BW – B

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

B	Basic
E	Double-side bossed
D	Double clevis
L	Single foot
M	Double foot
F	Rod flange
G	Head flange

* Mounting bracket is shipped together with the product, but not assembled.

Bore size

10	10 mm
16	16 mm

Cylinder standard stroke (mm)

10	15, 30, 45, 60, 75, 100, 125, 150
16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

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

Head cover port location

Symbol \ Bore size (mm)	ø10, ø16	
Nil	Perpendicular to axis	
R	Axial	

* Double clevis is only available for being perpendicular to axis.
* Double-side bossed type is only available for being perpendicular to axis.

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

Auto switch mounting type

B	Band mounting

* Refer to page 165 for auto switch mounting brackets.

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 bracket	Bore size (mm)	
	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.

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Air Cylinder: Standard Type
Double Acting, Single Rod

Series 25A-CJ2

ø10, ø16

How to Order

25A – C D J2 L 16 – 60 ☐ – 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

B	Basic
L	Axial foot
F	Rod flange
D	Double clevis

Bore size

10	10 mm
16	16 mm

Cylinder standard stroke (mm)

10	15, 30, 45, 60, 75, 100, 125, 150
16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

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

Head cover port location

Symbol \ Bore size (mm)	ø10, ø16
Nil	Perpendicular to axis
R	Axial

* Double clevis is only available for being perpendicular to axis.

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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-CDJ2B16-60-B

Mounting Bracket Part No. for Series 25A-

Mounting bracket	Bore size (mm)	
	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.

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Air Cylinder: Standard Type
Double Acting, Single Rod

Series 25A-CM2

ø20, ø25, ø32, ø40

How to Order

25A – C D M2 L 40 – 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

B	Basic
L	Axial foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
U	Rod trunnion

T	Head trunnion
E	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

Cylinder Stroke (mm)

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

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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-

Mounting bracket	Min. order	Bore size (mm)				Description (for min. order)
		20	25	32	40	
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.

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Air Cylinder: Standard Type
Double Acting, Single Rod

Series 25A-CG1

ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

How to Order

25A – C D G1 L N 25 – 100 – 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

B	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

N	Rubber bumper
A	Air cushion

Bore size

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

* 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	1500
25	25, 50, 75, 100, 125, 150, 200, 250, 300	301 to 400	
32		301 to 450	
40		301 to 800	
50, 63		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 bracket	Min. order	Bore size (mm) 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

Note) Order two foot brackets per cylinder.

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Air Cylinder: Single Rod

Series 25A-MB

ø32, ø40, ø50, ø63, ø80, ø100

How to Order

25A – M D B L 32 – 50 Z – 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

B	Basic
L	Axial foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
T	Center trunnion

Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

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

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

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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

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.

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Air Cylinder: Single Rod

Series 25A-MB

ø32, ø40, ø50, ø63, ø80, ø100

How to Order

25A – M D B L 32 – 50 – 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

B	Basic
L	Axial foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
T	Center trunnion

Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

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

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

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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

* 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	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.

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Air Cylinder: Standard Type
Double Acting, Single Rod

Series 25A-CA2

ø40, ø50, ø63, ø80, ø100

How to Order

25A – C D A2 L 50 – 100 Z – 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

B	Basic
L	Axial foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
T	Center trunnion

Bore size

40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Cylinder stroke (mm)

40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500
50, 63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 500, 600
80, 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700

* Intermediate strokes not listed above are produced upon receipt of order.

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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-

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

* 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.

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Air Cylinder: Standard Type
Double Acting, Single Rod

Series 25A-CS2

ø125, ø140, ø160

How to Order

25A – C D S2 L 125 ☐ – 300 – 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

B	Basic
L	Foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
T	Center trunnion

Bore size

125	125 mm
140	140 mm
160	160 mm

Port thread type

Nil	Rc
TN	NPT
TF	G

Cylinder stroke (mm)

Mounting bracket / Bore size	Maximum stroke: Basic, Head flange, Single clevis, Double clevis, Center trunnion	Maximum stroke: Foot, Rod flange
125	1000 or less	1600 or less
140		
160	1200 or less	

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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.

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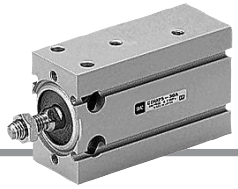
Free Mount Cylinder
Double Acting, Single Rod

Series 25A-CU

ø10, ø16, ø20, ø25, ø32



How to Order

25A – C D U 16 – 30 D – 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.

Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm

Standard stroke (mm)

10, 16	5, 10, 15, 20, 25, 30
20, 25, 32	5, 10, 15, 20, 25, 30, 40, 50

Action

D	Double acting

Auto switch

Nil	Without auto switch

* Refer to page 161 for applicable auto switches.

Number of auto switches

Nil	2 pcs.
S	1 pc.

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.

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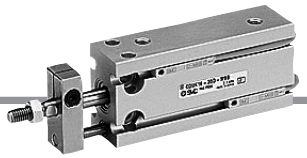
Free Mount Cylinder: Non-rotating Rod Type
Double Acting, Single Rod

Series 25A-CUK

ø10, ø16, ø20, ø25, ø32



How to Order

25A – C D UK 16 – 30 D – 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.

Non-rotating rod type

Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm

Standard stroke (mm)

10, 16	5, 10, 15, 20, 25, 30
20, 25, 32	5, 10, 15, 20, 25, 30, 40, 50

Action

D	Double acting

Auto switch

Nil	Without auto switch

* Refer to page 161 for applicable auto switches.

Number of auto switches

Nil	2 pcs.
S	1 pc.

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

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

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Compact Cylinder: Standard Type
Double Acting, Single Rod

Series 25A-CQS

ø12, ø16, ø20, ø25

How to Order

25A – C D QS B 20 – 30 D ☐ – 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

B	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

12	12 mm
16	16 mm
20	20 mm
25	25 mm

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, 35, 40, 45, 50	75, 100, 125, 150, 175, 200
25		75, 100, 125, 150, 175, 200, 250, 300

Action

D	Double acting

Body option

<Standard stroke>

Nil	Standard
C	With rubber bumper
M	Rod end male thread

* Combination of body options is available.

<Long stroke>

C	With rubber bumper Rod end female thread (Standard)
CM	With rubber bumper Rod end male thread

* Rubber bumper is standard equipment for long stroke type.

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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-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.

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Compact Cylinder: Anti-lateral Load Type

Series 25A-CQS□S

ø12, ø16, ø20, ø25

How to Order

25A-C D QS B S 20-30 D C-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

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

∗ Mounting brackets are shipped together, (but not assembled).
∗ Cylinder mounting bolts are not included.

Cushion

S	Anti-lateral load type

Bore size

12	12 mm
16	16 mm
20	20 mm
25	25 mm

Cylinder stroke (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

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.

Body option

C	With rubber bumper Rod end female thread (Standard)
CM	With rubber bumper Rod end male thread

Action

D	Double acting

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.

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

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

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Compact Cylinder: Standard Double Acting, Single Rod

Series 25A-CQ2

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

How to Order

25A – C D Q2 B 20 ☐ – 30 D ☐ Z – 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

B	Through-hole (Standard)
A	Both ends tapped
L	Foot
F	Rod flange
G	Head flange
D	Double clevis

* Mounting brackets are shipped together, (but not assembled).
* Cylinder mounting bolts are not included.

Bore size

12	12 mm	**40**	40 mm
16	16 mm	**50**	50 mm
20	20 mm	**63**	63 mm
25	25 mm	**80**	80 mm
32	32 mm	**100**	100 mm

Port thread type

Nil	M thread	ø12 to ø25
	Rc	ø32 to ø100
TN	NPT	
TF	G	

Cylinder stroke (mm)

12, 16	5, 10, 15, 20, 25, 30
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100
50 to 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

Action

D	Double acting

Body option

Nil	Standard (Rod end female thread)
C	With rubber bumper
M	Rod end male thread

* Combination of body options is available.

Auto switch mounting groove

Z	ø12 to ø25	2 surfaces
	ø32 to ø100	4 surfaces

* "Z" is not available for ø12 to ø25 without auto switches.

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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

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

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

Bore size (mm)	Foot (1)	Flange	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

Mounting Bracket Part No. for Series 25A-/With auto switch

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.

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

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Compact Cylinder: Large Bore Size
Double Acting, Single Rod

Series 25A-CQ2

ø125, ø140, ø160, ø180, ø200

How to Order

25A – C D Q2B 125 ☐ – 30 DC ☐ Z – 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

B	Through-hole/ Both ends tapped common (Standard)

* Cylinder mounting bolts are not included.

Bore size

125	125 mm
140	140 mm
160	160 mm
180	180 mm
200	200 mm

Port thread type

Nil	Rc
TN	NPT
TF	G

Cylinder stroke (mm)

Bore size	Standard stroke
125, 140, 160 180, 200	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300

Action

D	Double acting

Cushion

C	Rubber bumper

Body option

Nil	Standard (Rod end female thread)
M	Rod end male thread

Auto switch mounting groove

Z	ø125 to ø200	4 surfaces

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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

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

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Compact Cylinder: Long Stroke Double Acting, Single Rod

Series 25A-CQ2

ø32, ø40, ø50, ø63, ø80, ø100

How to Order

25A – C D Q2 A 32 ☐ – 200 DC ☐ Z – 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

A	Both ends tapped
L	Foot
F	Rod flange
G	Head flange
D	Double clevis

* Mounting brackets are shipped together, (but not assembled).

Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Port thread type

Nil	Rc
TN	NPT
TF	G

Cylinder stroke (mm)

Bore size	Standard stroke
32, 40, 50 63, 80, 100	125, 150, 175, 200, 250, 300

Action

D	Double acting

Cushion

C	Rubber bumper

Body option

Nil	Standard (Rod end female thread)
M	Rod end male thread

Auto switch mounting groove

Z	4 surfaces

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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

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

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Compact Cylinder: Anti-lateral Load

Series 25A-CQ2

ø32, ø40, ø50, ø63, ø80, ø100

How to Order

25A – C D Q2 B S 32 ☐ – 30 D C ☐ Z – 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

B	Through-hole (Standard)
A	Both ends tapped
L	Foot
F	Rod flange
G	Head flange
D	Double clevis

* Mounting brackets are shipped together, (but not assembled).
* Cylinder mounting bolts are not included.

Type

S	Anti-lateral load

Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Port thread type

Nil	Rc
TN	NPT
TF	G

Cylinder stroke (mm)

Bore size	Standard stroke
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100
50, 63, 80, 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

Action

D	Double acting

Cushion

C	Rubber bumper

Body option

Nil	Standard (Rod end female thread)
M	Rod end male thread

Auto switch mounting groove

Z	4 surfaces

Auto switch

Nil	Without auto switch

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

Number of auto switches

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

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

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

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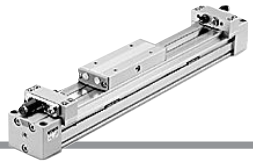
Mechanically Jointed Rodless Cylinder
Basic Type

Series 25A-MY1B

ø20, ø25, ø32, ø40, ø50, ø63



How to Order

25A – MY1B 20 ☐ – 300 ☐ – M9BW ☐

Series compatible with secondary batteries

Basic type

Bore size

20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Piping

Nil	Standard type
G	Centralized piping type

Cylinder stroke (mm)

20, 25, 32, 40, 50, 63	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000

∗ Strokes are manufacturable in 1 mm increments, up to the maximum stroke. However, contact SMC when exceeding a 2000 mm stroke.

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Applicable auto switches vary depending on the bore size. Select an applicable one referring to page 161.

Number of auto switches

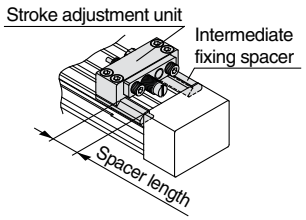
Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Stroke adjustment unit symbol

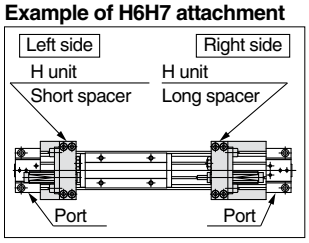
		Right side stroke adjustment unit									
		Without unit	A: With adjustment bolt			L: With low load shock absorber + Adjustment bolt			H: With high load shock absorber + Adjustment bolt		
				With short spacer	With long spacer		With short spacer	With long spacer		With short spacer	With long spacer
Left side stroke adjustment unit	Without unit	Nil	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
	A: With adjustment bolt	AS	A	AA6	AA7	AL	AL6	AL7	AH	AH6	AH7
	With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7	A6H	A6H6	A6H7
	With long spacer	A7S	A7A	A7A6	A7	A7L	A7L6	A7L7	A7H	A7H6	A7H7
	L: With low load shock absorber + Adjustment bolt	LS	LA	LA6	LA7	L	LL6	LL7	LH	LH6	LH7
	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7	L6H	L6H6	L6H7
	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7	L7H	L7H6	L7H7
	H: With high load shock absorber + Adjustment bolt	HS	HA	HA6	HA7	HL	HL6	HL7	H	HH6	HH7
	With short spacer	H6S	H6A	H6A6	H6A7	H6L	H6L6	H6L7	H6H	H6	H6H7
	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



Example of H6H7 attachment



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

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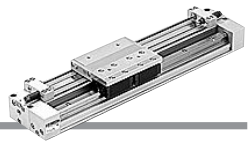
Mechanically Jointed Rodless Cylinder
Linear Guide Type

Series 25A-MY1H

ø16, ø20, ø25, ø32, ø40



How to Order

25A – MY1H 25 ☐ – 300 ☐ – M9BW ☐

Series compatible with secondary batteries

Linear guide type

Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm

Piping

Nil	Standard type
G	Centralized piping type

Cylinder stroke (mm)

16, 20, 25, 32, 40	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600

Auto switch

Nil	Without auto switch (Built-in magnet)

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

Number of auto switches

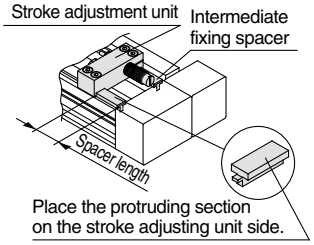
Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Stroke adjustment unit symbol

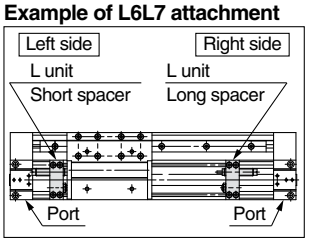
		Right side stroke adjustment unit									
		Without unit	A: With adjustment bolt			L: With low load shock absorber + Adjustment bolt			H: With high load shock absorber + Adjustment bolt		
				With short spacer	With long spacer		With short spacer	With long spacer		With short spacer	With long spacer
Left side stroke adjustment unit	Without unit	Nil	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
	A: With adjustment bolt	AS	A	AA6	AA7	AL	AL6	AL7	AH	AH6	AH7
	With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7	A6H	A6H6	A6H7
	With long spacer	A7S	A7A	A7A6	A7	A7L	A7L6	A7L7	A7H	A7H6	A7H7
	L: With low load shock absorber + Adjustment bolt	LS	LA	LA6	LA7	L	LL6	LL7	LH	LH6	LH7
	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7	L6H	L6H6	L6H7
	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7	L7H	L7H6	L7H7
	H: With high load shock absorber + Adjustment bolt	HS	HA	HA6	HA7	HL	HL6	HL7	H	HH6	HH7
	With short spacer	H6S	H6A	H6A6	H6A7	H6L	H6L6	H6L7	H6H	H6	H6H7
	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.
∗ H: With high load shock absorber + Adjustment bolt is not available for 25A-MY1H16.

Stroke adjustment unit mounting diagram



Example of L6L7 attachment



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

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Mechanically Jointed Rodless Cylinder
Linear Guide Type

Series 25A-MY2H

ø16, ø25

How to Order

25A – MY2 H 16 G – 300 ☐ – M9BW ☐

Series compatible with secondary batteries

Linear guide type

Bore size

16	16 mm
25	25 mm

Piping

G	Centralized piping type (Standard)

Cylinder stroke (mm)

16, 25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600

Stroke adjustment unit symbol

			Right side stroke adjustment unit						
			Without unit	L: With low load shock absorber			H: With high load shock absorber		
					With short spacer	With long spacer		With short spacer	With long spacer
Left side stroke adjustment unit	Without unit		Nil	SL	SL6	SL7	SH	SH6	SH7
	L: With low load shock absorber		LS	L	LL6	LL7	LH	LH6	LH7
		With short spacer	L6S	L6L	L6	L6L7	L6H	L6H6	L6H7
		With long spacer	L7S	L7L	L7L6	L7	L7H	L7H6	L7H7
	H: With high load shock absorber		HS	HL	HL6	HL7	H	HH6	HH7
		With short spacer	H6S	H6L	H6L6	H6L7	H6H	H6	H6H7
		With long spacer	H7S	H7L	H7L6	H7L7	H7H	H7H6	H7

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

Number of auto switches

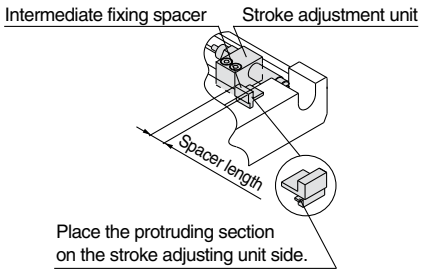
Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch

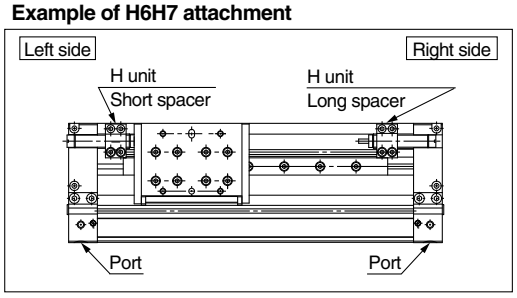
Nil	Without auto switch (Built-in magnet)

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

Stroke adjustment unit mounting diagram



Example of H6H7 attachment



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

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Magnetically Coupled Rodless Cylinder/ Basic Type

Series 25A-CY3B

ø15, ø20, ø25, ø32, ø40

How to Order

25A – CY3B 25 – 300

- **25A** – Series compatible with secondary batteries
- **CY3B** – Basic type
- **25** – Bore size

15	15 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm

- **300** – Standard stroke

Bore size	Standard stroke	Maximum available stroke
15	50, 100, 150, 200, 250, 300, 350 400, 450, 500	1000
20	100, 150, 200, 250, 300, 350 400, 450, 500, 600, 700, 800	1500
25		2000
32		
40	100, 150, 200, 250, 300, 350, 400 450, 500, 600, 700, 800, 900, 1000	

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.

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

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Magnetically Coupled Rodless Cylinder/ Direct Mount Type

Series 25A-CY3R

ø15, ø20, ø25, ø32, ø40

How to Order

25A – CY3R [ ] 25 – 300 [ ] – M9BW [ ]

Series compatible with secondary batteries

Direct mount type

Piping type

Nil	Standard type
G	Centralized piping type

Bore size

15	15 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm

Cylinder stroke (mm)

Bore size (mm)	Standard stroke (mm)	Max. stroke without switch (mm)	Max. stroke with switch (mm)
15	50, 100, 150, 200, 250, 300, 350, 400, 450, 500	1000	750
20	100, 150, 200, 250, 300, 350 400, 450, 500, 600, 700, 800	1500	1000
25			1200
32		2000	1500
40	100, 150, 200, 250, 300, 350 400, 450, 500, 600, 700, 800 900, 1000		

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.

Switch rail

Nil	With switch rail
N	Without switch rail

Note 1) A type with switch rail has built-in auto switch magnets.
Note 2) ø15 has built-in auto switch magnets even without switch rail.
Note 3) Centralized piping type "G" is not available without switch rail "N".

Auto switch type

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 161 for the applicable auto switch model.
Note) In case of ø20 with switch rail but without auto switch, the cylinder construction is for reed auto switch. Mounting a solid state auto switch causes malfunctions.

Number of auto switches

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

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

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Air Slide Table

Series 25A-MXS

ø6, ø8, ø12, ø16, ø20, ø25

How to Order

Air slide table **25A – MXS 16 [ ] [ ] – 50 AS – M9BW [ ]**

Series compatible with secondary batteries

Port thread type

Nil	M thread	ø6 to ø16
	Rc	ø20, ø25
TN	NPT	
TF	G	

Symmetric type

Nil	Standard type
L	Symmetric type

Bore size/Stroke (mm)

6	10, 20, 30, 40, 50
8	10, 20, 30, 40, 50, 75
12	10, 20, 30, 40, 50, 75, 100
16	10, 20, 30, 40, 50, 75, 100, 125
20	10, 20, 30, 40, 50, 75, 100, 125, 150
25	10, 20, 30, 40, 50, 75, 100, 125, 150

Adjuster option

Nil	Without adjuster
AS	Adjuster on extension end
AT	Adjuster on retraction end
A	Adjuster on both ends
BS	Absorber on extension end
BT	Absorber on retraction end
B	Absorber on both ends
ASBT	Adjuster on extension end + Absorber on retraction end
BSAT	Absorber on extension end + Adjuster on retraction end

∗ 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.

Number of auto switches

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

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 161 for applicable auto switches.

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

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Air Slide Table

Series 25A-MXQ

ø6, ø8, ø12, ø16, ø20, ø25

How to Order

25A – MXQ 16 [ ] [ ] – 50 AS – M9BW [ ]

Series compatible with secondary batteries

Number of auto switches

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

Port thread type

Nil	M thread	ø6 to ø16
	Rc	ø20, ø25
TN	NPT	
TF	G	

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 161 for applicable auto switches.

Symmetric type

Nil	Standard type
L	Symmetric type

Bore size/Stroke (mm)

6	10, 20, 30, 40, 50
8	10, 20, 30, 40, 50, 75
12	10, 20, 30, 40, 50, 75, 100
16	10, 20, 30, 40, 50, 75, 100, 125
20	10, 20, 30, 40, 50, 75, 100, 125, 150
25	10, 20, 30, 40, 50, 75, 100, 125, 150

Adjuster option

Nil	Without adjuster
AS	Extension end adjuster
AT	Retraction end adjuster
A	Double end adjuster
BS	Extension end absorber
BT	Retraction end absorber
B	Double absorber
CS	Extension end metal stopper
CT	Retraction end metal stopper
C	Double metal stopper
ASBT	Extension end adjustor + Retraction end absorber
ASCT	Extension end adjustor + Retraction end metal stopper
BSAT	Extension end absorber + Retraction end adjuster
BSCT	Extension end absorber + Retraction end metal stopper
CSAT	Extension end metal stopper + Retraction end adjuster
CSBT	Extension end metal stopper + Retraction end absorber

∗ With shock absorber is not available in 25A-MXQ6 series.
∗ When the adjuster option with shock absorber or metal stopper 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.

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Air Slide Table

Series 25A-MXW

ø8, ø12, ø16, ø20, ø25

How to Order

25A – MXW 16 [ ] – 100 B – M9BW [ ]

Series compatible with secondary batteries

Port thread type

Nil	M thread	ø8 to ø16
	Rc	ø20, ø25
TN	NPT	
TF	G	

Bore size/Stroke (mm)

8	25, 50, 75, 100, 125, 150
12	50, 75, 100, 125, 150
16	75, 100, 125, 150, 175, 200
20	100, 125, 150, 175, 200, 225, 250
25	100, 125, 150, 175, 200, 225, 250, 275, 300

Option

Nil	Standard (With urethane bumper)
B	With shock absorbers 2 pcs.

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

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 161 for applicable auto switches.

Number of auto switches

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

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

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Compact Guide Cylinder

Series 25A-MGP

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

How to Order

Slide bearing type **25A – MGP M 25 – 30 Z – M9BW ☐**

Series compatible with secondary batteries

Compact guide cylinder

Bearing type

M	Slide bearing

Bore size

12	12 mm	**40**	40 mm
16	16 mm	**50**	50 mm
20	20 mm	**63**	63 mm
25	25 mm	**80**	80 mm
32	32 mm	**100**	100 mm

Cylinder stroke (mm)

12, 16	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250
20, 25	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
32 to 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

Auto switch

Nil	Without auto switch (Built-in magnet)

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

Number of auto switches

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

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

Ball bushing bearing type **25A – MGP L 25 – 30 Z – M9BW ☐**

Series compatible with secondary batteries

Compact guide cylinder

Bearing type

L	Ball bushing bearing

Bore size

12	12 mm	**40**	40 mm
16	16 mm	**50**	50 mm
20	20 mm	**63**	63 mm
25	25 mm	**80**	80 mm
32	32 mm	**100**	100 mm

Cylinder stroke (mm)

12, 16	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250
20, 25	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
32 to 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

Auto switch

Nil	Without auto switch (Built-in magnet)

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

Number of auto switches

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

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

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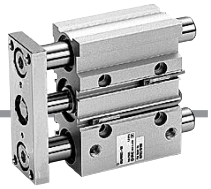
Compact Guide Cylinder

Series 25A-MGP

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100



How to Order

Slide bearing type

25A – MGP M 25 – 30 – M9BW ☐

Series compatible with secondary batteries

Compact guide cylinder

Bearing type

M	Slide bearing

Bore size

12	12 mm	40	40 mm
16	16 mm	50	50 mm
20	20 mm	63	63 mm
25	25 mm	80	80 mm
32	32 mm	100	100 mm

Cylinder stroke (mm)

12, 16	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250
20, 25	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
32 to 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

Auto switch

Nil	Without auto switch (Built-in magnet)

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

Number of auto switches

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

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

Ball bushing bearing type

25A – MGP L 25 – 30 – M9BW ☐

Series compatible with secondary batteries

Compact guide cylinder

Bearing type

L	Ball bushing bearing

Bore size

12	12 mm	40	40 mm
16	16 mm	50	50 mm
20	20 mm	63	63 mm
25	25 mm	80	80 mm
32	32 mm	100	100 mm

Cylinder stroke (mm)

12, 16	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250
20, 25	20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
32 to 100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

Auto switch

Nil	Without auto switch (Built-in magnet)

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

Number of auto switches

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

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

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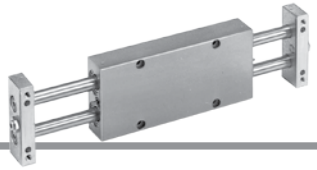
Slide Unit: Built-in Shock Absorber Slide Bearing Type

Series 25A-CXWM

ø10, ø16, ø20, ø25, ø32



How to Order

Port thread type

Nil	M thread	ø10 to ø20
	Rc 1/8	ø25, ø32
TN	NPT 1/8	
TF	G 1/8	

25A — C DB XWM 16 [ ] — 150 [ ] — J79W [ ]

Series compatible with secondary batteries

Cylinder with auto switch

Symbol	Specifications/Mounting
Nil	Without magnet for switch*
DB	With auto switch (Built-in magnet)/ Housing mounting
DP	With auto switch (Built-in magnet)/ Plate mounting

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

Bearing type

M	Slide bearing

Bore size/Stroke (mm)

10	(25), 50, 75, 100
16	(25), 50, 75, 100, 125, 150, 175, 200
20	(25), 50, 75, 100, 125, 150, 175, 200
25	(25), 50, 75, 100, 125, 150, 175, 200
32	(25), (50), 75, 100, 125, 150, 175, 200

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.

End lock

R	End lock
Nil	None

Auto switch

Nil	Without auto switch

* Refer to page 161 for applicable auto switches.

Number of auto switches

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

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

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

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Dual Rod Cylinder
Basic Type
Series 25A-CXS
ø6, ø10, ø15, ø20, ø25, ø32

How to Order

Slide bearing type

25A – CXS M 25 – 100 – Y7BW ☐

Series compatible with secondary batteries

Bearing type

M	Slide bearing

Bore size/Stroke (mm)

Bore size	Standard stroke (mm)
6	10, 20, 30, 40, 50
10	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75
15, 20 25, 32	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 161 for applicable auto switches.

Number of auto switches

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

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

Ball bushing bearing type

25A – CXS L 20 – 100 – Y7BW ☐

Series compatible with secondary batteries

Bearing type

L	Ball bushing bearing

Bore size/Stroke (mm)

Bore size	Standard stroke (mm)
6	10, 20, 30, 40, 50
10	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75
15, 20 25, 32	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 161 for applicable auto switches.

Number of auto switches

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

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

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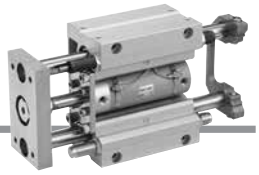
Guide Cylinder

Series 25A-MGG

ø20, ø25, ø32, ø40, ø50



How to Order

25A – MGG L B 32 – 100 – M9BW

Series compatible with secondary batteries

Guide cylinder

Bearing type

L	Ball bushing bearing

Mounting

B	Basic
F	Front mounting flange

Bore size

20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm

Cylinder stroke (mm)

Bore size (mm)	Standard stroke (mm)	Long stroke (mm)
20	75, 100, 125, 150, 200	250, 300, 350, 400
25	75, 100, 125, 150, 200, 250, 300	350, 400, 450, 500
32		350, 400, 450, 500, 600
40		350, 400, 450, 500, 600, 700, 800
50		350, 400, 450, 500, 600, 700, 800, 900, 1000

∗ Intermediate strokes and short strokes other than the above are produced upon receipt of order.

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 161 for applicable auto switches.

Number of auto switches

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

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

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Shock Absorber

Series 25A-RB/RBC

How to Order

25A – RB C 14 12 ☐

- **25A**: Series compatible with secondary batteries
- **RB**: Shock absorber
- **C**: Type

Nil	Basic type
C	With cap

- **14 12**: O.D. thread size/Stroke

Symbol	O.D. thread size	Stroke	Symbol	O.D. thread size	Stroke
0805	8 mm	5 mm	**1411**	14 mm	11 mm
0806	8 mm	6 mm	**1412**	14 mm	12 mm
1006	10 mm	6 mm	**2015**	20 mm	15 mm
1007	10 mm	7 mm	**2725**	27 mm	25 mm

- **☐**: Option

Symbol	Hexagon nut	Stopper nut
Nil	2 pcs.	—
J	3 pcs.	—
N	—	—
S	2 pcs.	1 pc.
SJ	3 pcs.	1 pc.
SN	—	1 pc.

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
Stopper nut	Basic type	25-RB08S	25-RB10S	25-RB14S	25-RB20S	25-RB27S
	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.

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Shock Absorber
Soft Type

Series 25A-RJ

How to Order

25A – RJ 0604

25A – RJ 0806 H U

Series compatible with secondary batteries

Shock absorber/Soft type

O.D. thread size/Stroke

Symbol	O.D. thread	Stroke
0604	6 mm	4 mm
0806	8 mm	6 mm
1007	10 mm	7 mm
1412	14 mm	12 mm
2015	20 mm	15 mm
2725	27 mm	25 mm

Collision speed range

H	0.05 to 2 m/s
L	0.05 to 1 m/s

∗ RJ0604: 0.05 to 1.0 m/s
∗ RJ2725H: 0.05 to 1.5 m/s

With cap

Nil	Basic type
U	With urethane cap

Option

Symbol	Hexagon nut	Stopper nut
Nil	2 pcs.	—
J	3 pcs.	—
N	—	—
S	2 pcs.	1 pc.
SJ	3 pcs.	1 pc.
SN	—	1 pc.

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
Stopper nut	Basic type	25-RB08S	25-RB10S	25-RB14S	25-RB20S	25-RB27S
	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.

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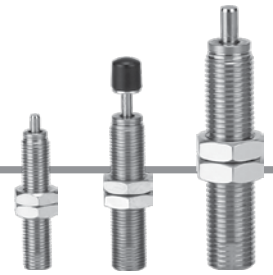
Shock Absorber
Short Stroke Type
Series 25A-RJ



How to Order

Short stroke type **25A – RJ 0805 U**

- **Series compatible with secondary batteries** (25A)
- **Shock absorber/Soft type** (RJ)
- **O.D. thread size/Stroke** (0805)

Symbol	O.D. thread	Stroke
0805	8 mm	5 mm
1006	10 mm	6 mm
1410	14 mm	10 mm

- **With cap** (U)

Nil	Basic type
U	With urethane cap

- **Option**

Symbol	Hexagon nut	Stopper nut
Nil	2 pcs.	—
J	3 pcs.	—
N	—	—
S	2 pcs.	1 pc.
SJ	3 pcs.	1 pc.
SN	—	1 pc.

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

		Thread size		
		M8	**M10**	**M14**
Hexagon nut		25-RB08J	25-RB10J	25-RB14J
Stopper nut	Basic type	25-RB08S	25-RB10S	25-RB14S
	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.

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Floating Joint

Series 25A-J□

RoHS

How to Order

Standard type

25A – JA 80 – 22-150

Series compatible with secondary batteries

Applicable bore size (mm)

Model	Symbol	Applicable bore size (mm)
Standard	**80**	80
	100	100

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

Thread nominal size (Standard)

Nominal thread size	Applicable cylinder 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 – J B 40 – 8-125

Series compatible with secondary batteries

For compact cylinders/Female thread

Applicable bore size (mm)

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

Thread nominal size

Nominal thread size	Applicable cylinder 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 bore size (mm)
10	10
16	10, 16
20	20
32	25, 32
40	40
63	50, 63

Thread nominal size

Nominal thread size	Applicable cylinder 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

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

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Rotary Table: Basic Type Vane Style

Series 25A-MSUB

RoHS

Size: 1, 3, 7, 20

How to Order

Bearing type

B	Basic type

Free mount type

Connection port location

Nil	Side ported
E	Axial ported

Available with side ported only, when equipped with auto switch unit.

Without auto switch 25A – M SUB 20 – 90 S ☐

With auto switch 25A – M D SUB 20 – 90 S – T79 L 1 ☐

Series compatible with secondary batteries

With auto switch (Built-in magnet)

Nominal size (Torque)

1	MSUB 1
3	MSUB 3
7	MSUB 7
20	MSUB20

Rotating angle

Application	Symbol	Rotating angle
Single vane	90	90°
	180	180°
Double vane	90	90°

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

Vane type

S	Single vane
D	Double vane

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for applicable auto switches.

Electrical entry/ Lead wire length

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

Number of auto switches

S	1 pc. ∗
Nil	2 pcs. ∗∗

∗ S (1 auto switch) is shipped with a right-hand auto switch.
∗∗ Nil (2 auto switches) is shipped with a right-hand and a left-hand switch.

∗ Specifications and dimensions for the 25A-series are the same as standard products.
∗ Zinc is used in part of deep groove ball bearing.

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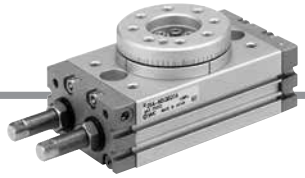
Rotary Table: Rack & Pinion Style

Series 25A-MSQ

Size: 10, 20, 30, 50, 70, 100

RoHS



How to Order

25A-MSQB 10 A - M9BW

- **25A**: Series compatible with secondary batteries
- **10**: Size

10
20
30
50
70
100

- **A**:

A	With adjustment bolt

- **M9BW**: Auto switch type

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for applicable auto switches.

- **Number of auto switches**

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

∗ 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.

With Vacuum Port

25A-MSQB 10 A X - M9BW -X251

- **X**: (Made to Order)
- **25A**: Series compatible with secondary batteries
- **10**: Size

10
20
30
50
70
100

- **A**:

A	With adjustment bolt

- **M9BW**: Auto switch type

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for applicable auto switches.

- **Number of auto switches**

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

∗ 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.

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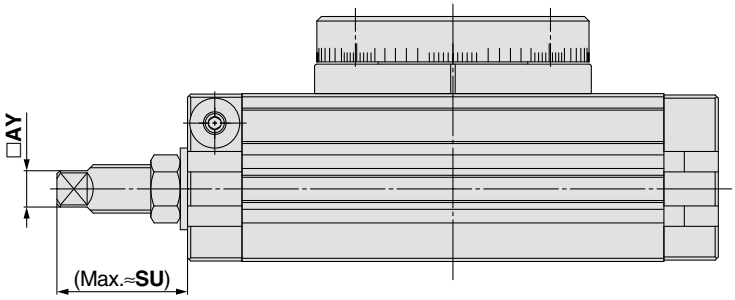
Dimensions

25A-MSQB□A

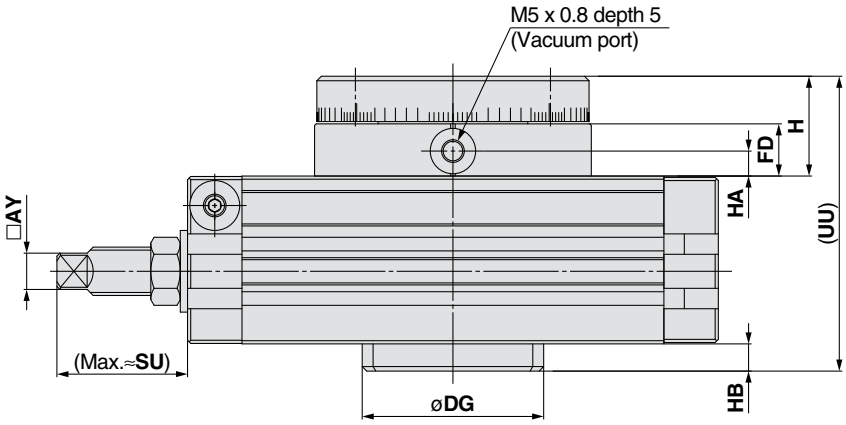


(mm)

Size	AY	SU
10	6	23.7
20	8	33
30	8	33
50	10	42.9
70	16	44.2
100	16	44.3

∗ Dimensions other than above are identical to the standard products.

25A-MSQB□AX-X251



(mm)

Size	AY	DG	FD	H	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.

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Parallel Style Air Gripper
Standard Type

Series 25A-MHZ2

ø10, ø16, ø20, ø25, ø32, ø40

RoHS

How to Order

Bore size

ø16 to ø25

25A – MHZ2 – 16 D □ – M9BW □

Series compatible with secondary batteries

Number of fingers

2	2 fingers

Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm

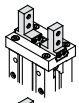
Action

D	Double acting

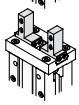
Finger position/option

Standard (MHQG2 compatible type)

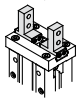
Nil: Basic type



1: Side tapped mounting

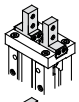


2: Through-holes in opening/ closing direction

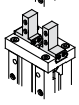


Narrow type (MHQ2 compatible type)

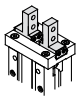
N: Basic type



N1: Side tapped mounting



N2: Through-holes in opening/ closing direction



3: Flat type fingers
The flat type fingers do not have standard and narrow options.

Bore size

ø32, ø40

25A – MHZ2 – 32 D □ – M9BW □

Series compatible with secondary batteries

Number of fingers

2	2 fingers

Bore size

32	32 mm
40	40 mm

Action

D	Double acting

Finger option

[Standard]

Nil: Basic type

1: Side tapped mounting

2: Through-holes in opening/ closing direction

3: Flat type fingers

Number of auto switches

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

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

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

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Parallel Style Air Gripper
Long Stroke Type

Series 25A-MHZL2

RoHS

How to Order

25A – MHZL2 – 16 D □ – M9BW □

Series compatible with secondary batteries

Number of fingers

2	2 fingers

Bore size

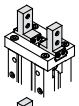
Symbol	Bore size (mm)
10	10 mm
16	16 mm
20	20 mm
25	25 mm

Action

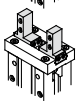
D	Double acting

Finger option

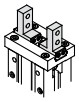
Nil: Basic type



1: Side tapped mounting



2: Through-holes in opening/closing direction



3: Flat type fingers

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

Number of auto switches

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

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

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Parallel Style Air Gripper with Dust Cover

Series 25A-MHZJ2

RoHS

Parallel Style Air Gripper with Dust Cover: Long Stroke Type

Series 25A-MHZL2 (Made to Order)

How to Order

25A – MHZJ2 – 16 D [ ] – M9BW [ ]

Series compatible with secondary batteries

Number of fingers

2	2 fingers

Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm

Action

D	Double acting

Dust cover type

Nil	Chloroprene rubber (CR)
F	Fluororubber (FKM)
S	Silicon rubber (Si)

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

Number of auto switches

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

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

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

25A – MHZL2 – 16 D F – M9BW [ ] – X5955

Series compatible with secondary batteries

Number of fingers

2	2 fingers

Bore size/Stroke

Symbol	Bore size (mm)
10	10 mm
16	16 mm
20	20 mm

Action

D	Double acting

Dust cover type

Nil	Chloroprene rubber (CR)
S	Silicon rubber (Si)
F	Fluororubber (FKM)

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

Number of auto switches

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

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

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Low Profile Air Gripper

Series 25A-MHF2

RoHS

How to Order

25A — MHF 2 — 12 D □ □ — M9BW □

Series compatible with secondary batteries

Number of fingers

2	2 fingers

Bore size (mm)

8	8
12	12
16	16
20	20

Action

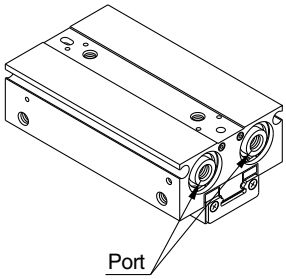
D	Double acting

Stroke

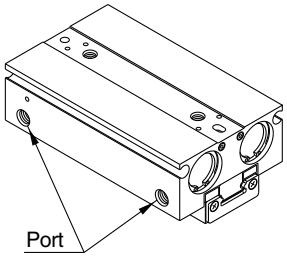
Nil	Short stroke
1	Medium stroke
2	Long stroke

Body option

Nil: Axial piping type



R: Side piping type



Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

Number of auto switches

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

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

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Parallel Style Air Gripper: Wide Type

Series 25A-MHL2

ø10, ø16, ø20, ø25, ø32

RoHS

How to Order

25A – MHL 2 – 20 D [ ] – M9BW [ ]

Series compatible with secondary batteries

Wide opening

Number of fingers

2	2 fingers

Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm

Action

D	Double acting

Opening/Closing stroke (mm)

Symbol	ø10	ø16	ø20	ø25	ø32	ø40
Nil	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	“n” pcs.

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

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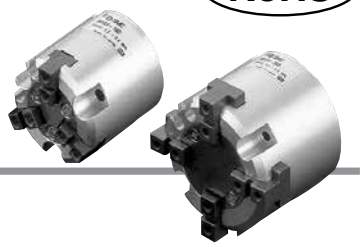
Parallel Style Air Gripper

Series 25A-MHS□

ø16, ø20, ø25

RoHS



How to Order

25A – MHS 3 – 20 D – M9BW □

Series compatible with secondary batteries

Number of fingers

3	3 fingers
4	4 fingers

Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm

Action

D	Double acting

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

Number of auto switches

Nil	2 pcs.
S	1 pc.

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

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Parallel Style Air Gripper
3-Finger Type with Dust Cover

Series 25A-MHSJ3

ø16, ø20, ø25

RoHS

How to Order

25A – MHSJ 3 – 20 D □ – M9BW □

Series compatible with secondary batteries

With dust cover

Number of fingers

3	3 fingers

Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm

Action

D	Double acting

Dust cover type

Nil	Chloroprene rubber (CR)
F	Fluororubber (FKM)
S	Silicon rubber (Si)

Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

Number of auto switches

Nil	2 pcs.
S	1 pc.

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

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180° Angular Style Air Gripper Cam Style

Series 25A-MHY2

ø10, ø16, ø20, ø25

RoHS

How to Order

25A – MHY 2 – 16 D 2 – M9BW

Series compatible with secondary batteries

Number of fingers

2	2 fingers

Bore size

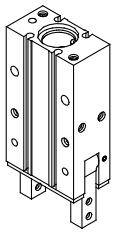
10	10 mm
16	16 mm
20	20 mm
25	25 mm

Action

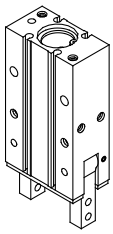
D	Double acting

Finger option

Nil: Standard tapped mounting



2: Through-holes in opening/closing direction



Auto switch

Nil	Without auto switch (Built-in magnet)

∗ Refer to page 163 for the applicable auto switch model.

Number of auto switches

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

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

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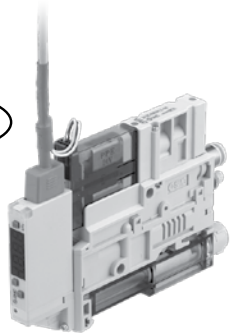
Vacuum Unit

Series 25A-ZK2



How to Order Single Unit

Ejector System (with Valve) 25A-ZK2 A 12 K 5 A L – 08 – □

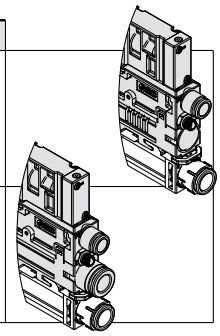
Ejector System (without Valve) 25A-ZK2 A 12 N 0 N N – 08 – □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Remains blank when option is not selected.

❶ System/Body type

Symbol	System	Body type	Exhaust type
A	Ejector system	Single unit	Silencer exhaust
B			Port exhaust Note 1)



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

❷ Nominal nozzle size

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

❹ Rated voltage Note 6)

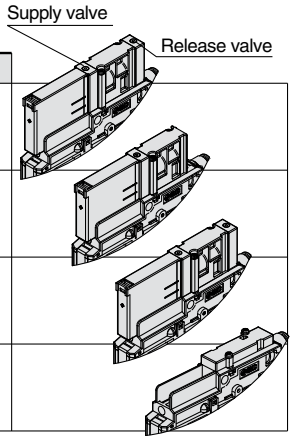
Symbol	Voltage
5	24 VDC
6	12 VDC
0	When ❸ is "N"

Note 6) Rated voltage for the supply and release valve

Manifold type is not available.

❸ Combination of supply valve and release valve Note 3)

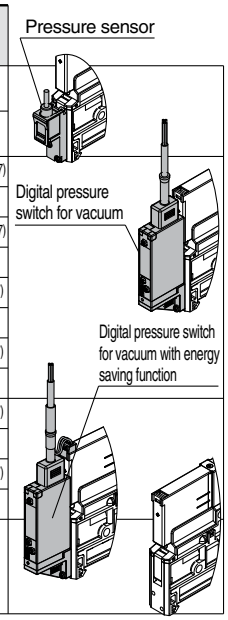
Symbol	Supply valve	Release valve
Note 5) K	N.C.	N.C.
J	N.C.	None
R	Self-holding release valve linked Note 4)	N.C.
N	None	None



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 ❺, select "K" for ❸ Combination of supply valve and release valve.

❺ Pressure sensor/Digital pressure switch for vacuum specifications

Symbol	Type	Pressure range psi [kPa]	Specifications		
P	Pressure sensor	0 to –14.6 [0 to –101]	Analog output 1 to 5 V		
T		–14.5 to 14.5 [–100 to 100]	Analog output 1 to 5 V		
A	Digital pressure switch for vacuum	0 to –14.6 [0 to –101]	NPN 2 outputs	Unit selection function Note 7)	
B				SI unit only Note 8)	
C			PNP 2 outputs	Unit selection function Note 7)	
D				SI unit only Note 8)	
E		–14.5 to 14.5 [–100 to 100]	NPN 2 outputs	Unit selection function Note 7)	
F				SI unit only Note 8)	
H			PNP 2 outputs	Unit selection function Note 7)	
J				SI unit only Note 8)	
K	Digital pressure switch for vacuum with energy saving function Note 9)	–14.5 to 14.5 [–100 to 100]	NPN 1 output	Unit selection function Note 7)	
Q				SI unit only Note 8)	
R			PNP 1 output	Unit selection function Note 7)	
S				SI unit only Note 8)	
N	Without pressure sensor/ Digital pressure switch for vacuum				



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 ❸ Combination of supply valve and release valve. Select "W" or "L3" for ❻.

SMC

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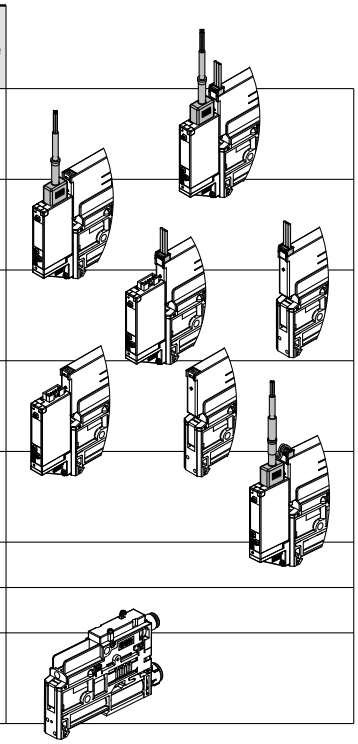
- PV: Air pressure supply port/Port for vacuum source (Vacuum pump)
- PS: Pilot pressure supply port ● PD: Individual release pressure supply port
- V: Vacuum port ● EXH: Exhaust port ● PE: Pilot pressure exhaust port

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

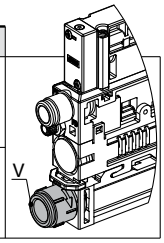
Symbol	❸For supply valve/release valve Note 10)		❺Lead wire with connector for pressure switch/ sensor Note 13)
	Connector type	Lead wire with connector	
L	L-type plug connector	○ Note 11)	○ Note 14)
L1		× Note 12)	○ Note 14)
L2		○ Note 11)	× Note 15)
L3		× Note 12)	× Note 15)
W		With lead wire for switch with energy saving function	
Y	Non-valve (without supply/release valve) When "N" is selected for ❸		○ Note 14)
Y1			×
N	When "N" is selected for both ❸ and ❺ (without supply/release valve, without switch, pressure sensor)		



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 ❺ 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.

❼ Vacuum (V) port Note 16)

Symbol	Type	Port size
06	Metric size	ø6 One-touch fitting
08		ø8 One-touch fitting



Note 16) Supply port size of single unit: ø6

Connector assembly

ZK2 − LV [W] [ ] − A

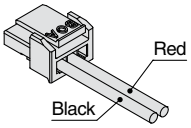
Applicable valve type

W	Valve type K/R (With supply valve and release valve)
S	Valve type J (Supply valve only)

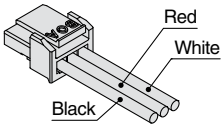
Lead wire length

Nil	300 mm
6	600 mm
10	1000 mm
20	2000 mm
30	3000 mm

For single



For double



Single Unit and Options Note 22)

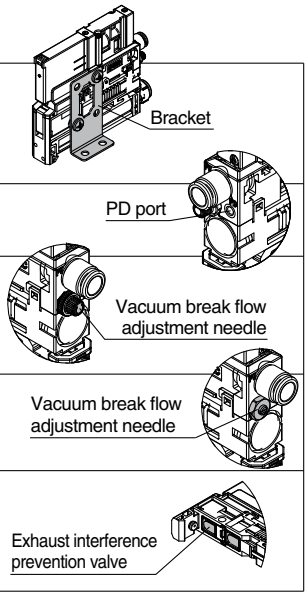
	❶	❷	❸	❹	❺	❻	❼	❽			
								B	D	J	K
ZK2	A	07·10·12·15	K·J·R·N	5·6·0	P to N	L to N	06·08	●	●	●	●
	B							●	●	●	●

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

For options not in the table, please contact SMC.

❽ Optional specifications/Functions/Applications Note 17)

Symbol	Type	Function/Application
Nil	Without option	—
B	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.)
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.
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.
K	Vacuum break flow adjustment needle Screwdriver operation type	· Slotted type improves fine adjustment performance when port exhaust type is used.
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.



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

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 ❸ Combination of supply valve and release valve and "W" (exhaust interference prevention valve type) is selected for ❽ Optional specifications/Functions/Applications, install a release valve or vacuum breaker.
Note 21) When "K", "Q", "R", or "S" is selected for ❺ Pressure sensor/Digital pressure switch for vacuum specifications, the exhaust interference prevention valve is provided. So, it is not necessary to select "W".

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

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Replacement Parts/How to Order

■ Vacuum pressure switch assembly

25A − ZK2 − ZS [E] [A] [M] [G] − A

❶ ❷ ❸ ❹

❶ Rated pressure range and function

E	0 to –14.6 psi [0 to –101 kPa]	Vacuum pressure switch	Open collector 2 outputs
F	–14.5 to 14.5 psi [–100 to 100 kPa]		
V	–14.5 to 14.5 psi [–100 to 100 kPa]	Pressure switch with energy saving function	Open collector 1 output

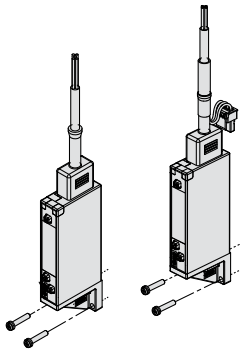
❷ Output specifications

A	NPN
B	PNP

❸ 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



❹ Lead wire with connector

Nil	None	
G	With lead wire	When ❶ is E or F···For vacuum pressure switch, Lead wire with connector (Length 2 m)
		When ❶ is V···For 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**

ZK2 − LW [A] 20 − A

Output specifications

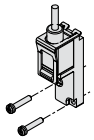
A	NPN open collector
B	PNP open collector

■ Pressure sensor assembly

25A − ZK2 − PS [1] − A

Rated pressure range and specifications

1	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



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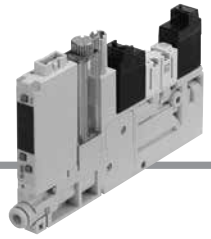
Space Saving Vacuum Ejector

Series 25A-ZQ

[Option]
Note) CE-compliant:
For DC only.



How to Order

Ejector Unit

25A – ZQ1 05 1U – K1 5 L – EA G

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

- **Series compatible with secondary batteries**

① Nozzle nominal size

05	ø0.5
07	ø0.7
10	ø1.0

② Exhaust type

1U	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).)

Nil	Standard (DC: 1 W) Note 2)
Y	DC low wattage type (0.5 W) Note 2)

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 no.	Solenoid valve combination symbol	Pilot valve symbol	Applicable power supply voltage (V)					
			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**	—	—	—	—	●	●

∗ Combinations ① to ⑩ in the above table are the only possible options.

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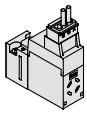
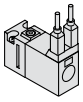
⑥ Electrical entry

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)	

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.

⑨ Vacuum pressure switch unit specifications

Nil	With unit switching function Note 6)
M	Fixed SI unit Note 7)
P	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

⑩ Vacuum pressure switch lead wire specifications

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

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

⑭ CE-compliant

Nil	—
Q	CE-compliant

Note) CE-compliant: For DC only.

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

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How to Order

Manifold **25A – ZZQ1 07 – B S C**

Number of stations Note)

01	1 station
02	2 stations
⋮	⋮
08	8 stations

Note) Number of stations varies according to nozzle nominal size during simultaneous operation.

Maximum Number of Stations in Simultaneous Operation

Nozzle nominal size	Maximum number of stations in simultaneous operation
ø0.5	8 stations
ø0.7	6 stations
ø1.0	4 stations

Air pressure supply (P) port position

B	Both sides

Exhaust

S	With silencers (Both sides)

Vacuum release pressure supply port (PD port)

B	None (Release pressure is supplied from the P port.)
C	Provided (Air can be alternatively supplied from the P port.)

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

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How to Order

Solenoid valve

25A– ZQ1-VQ1 1 0 □ –5 L □

25A– ZQ1-VQ1 2 0 □ –5 L □

Actuation

1	Normally closed

Actuation

2	Normally open

Pilot valve

Nil	Standard (1 W)

Pilot valve

Nil	Standard (DC: 1 W)
Y	DC low wattage type (0.5 W) ∗AC type: Not applicable
L	Latching positive common
N	Latching negative common

Solenoid valve rated voltage

5	24 VDC
6	12 VDC

Solenoid valve rated voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry Note)

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

Note) Mounting screws are attached.

Manual override Note)

Nil	Non-locking push type Latching type: Push-locking type
B	Locking type

Note) Latching type: Available in "Nil" only

Vacuum pressure switch

25A– ZQ1-ZS □□□□ – □ – A

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
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)
P	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.
0	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.

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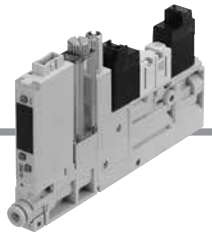
Space Saving Vacuum Pump System

Series 25A-ZQ

[Option]
Note) CE-compliant:
For DC only.



How to Order

Vacuum pump unit

25A- ZQ1000 U - K1 5 L - EA G - -

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

- **Series compatible with secondary batteries**

① Body type

U	For single unit
M	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)
Y	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 no.	Solenoid valve combination symbol	Pilot valve symbol	Applicable power supply voltage (V)					
			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**	—	—	—	—	●	●

∗ Combinations ① to ⑩ in the above table are the only possible options.

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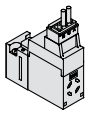
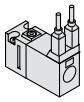
⑤ Electrical entry

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
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.

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)
P	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
G	Lead wire with connector (Lead wire length 2 m) With connector cover

⑩ Fitting (V port) Note 8)

Symbol	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".

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

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How to Order

Manifold **25A – ZZQ1 08 – □ 0 □**

Number of stations

01	1 station
02	2 stations
⋮	⋮
08	8 stations

Vacuum pressure supply port (PV port) Port location (Refer to Table (1).)

L	Left side
R	Right side

Table (1) Air Pressure Supply Port Location on the Manifold

PD port	Manifold / Port location	Left			Right		
		PS	PV	PD	PS	PV	PD
B	L (Left side)	—	●	—	● Note)	—	—
	R (Right side)	● Note)	—	—	—	●	—
C	L (Left side)	—	●	●	●	—	●
	R (Right side)	●	—	●	—	●	●

Note) The position of each port is shown as right and left sides viewed from the front side of the vacuum port.
Release pressure is commonly supplied from the PS port.

∗ PS: Pilot pressure supply port, PV: Vacuum pressure supply port, PD: Release pressure supply port

Release pressure supply port (PD port)

B	None (Release pressure is supplied from the PS port.)
C	Provided (Air can be alternatively supplied from the PS port.)

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

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How to Order

Solenoid valve

25A-ZQ1-VQ1 1 0 □ - 5 L □

25A-ZQ1-VQ1 2 0 □ - 5 L □

Pilot valve

Nil	Standard (DC: 1 W)
Y	DC low wattage type (0.5 W) ∗AC type: Not applicable
L	Latching positive common
N	Latching negative common

Actuation

1	Normally closed

Actuation

2	Normally open

Pilot valve

Nil	Standard (1 W)

Solenoid valve rated voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Solenoid valve rated voltage

5	24 VDC
6	12 VDC

Manual override Note)

Nil	Non-locking push type Latching type: Push-locking type
B	Locking type

Note) Latching type: Available in "Nil" only

Electrical entry Note)

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

Note) Mounting screws are attached.

Vacuum pressure switch

25A-ZQ1-ZS □ □ □ □ - □ - A

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
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)
P	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.
0	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.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Membrane Air Dryer

Series 25A-IDG

RoHS

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

How to Order

25A – IDG 50 L A – 03 – P

Series compatible with secondary batteries

Flow rate by size

Size	Outlet air flow rate scfm [L/min (ANR)]
30	2.65 [75]
50	3.88 [110]
60	6.00 [170]
75	8.47 [240]
100	10.6 [300]

Standard dew point temperature

Symbol	Standard dew point
L	–40°F (–40°C)

Semi-standard

Symbol	Contents
Nil	None
R	Flow direction (Right → Left)

Fitting for purge air discharge

Symbol	Contents
P	With fitting for purge air discharge

Accessory

Symbol	Description
Nil	None
B	With bracket

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

Port size

Symbol	Bore	Size				
		30	**50**	**60**	**75**	**100**
02	Rc1/4	●	●	—	—	—
03	Rc3/8	●	●	●	●	●
04	Rc1/2	—	—	●	●	●

Piping materials for low dew point air

If air of a low dew point (–40°F [–40°C] or less) is required, do not use a nylon tube piping and resin fittings (except fluoropolymer) for the outlet side of the membrane air dryer. Due to the nature of the nylon tube, it could be affected by the ambient air, and it might not be possible to achieve the prescribed low dew point at the end of the tube. Therefore, for low dew point air, use a stainless steel or fluoropolymer piping.

Bracket Assembly (Accessory) Part No.

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

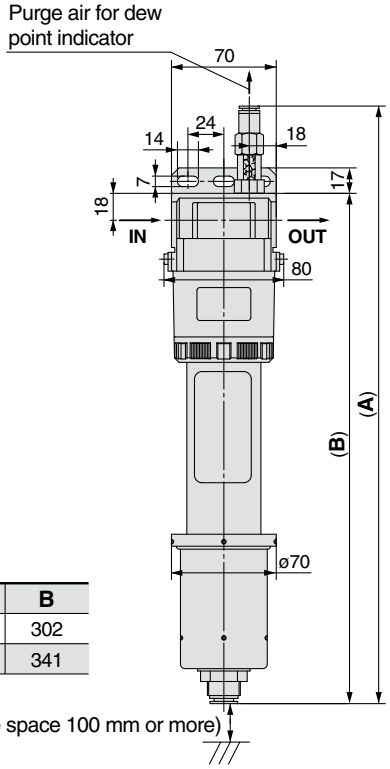
∗ With hexagon socket head bolts (2 pcs.) and spring washers (2 pcs.).

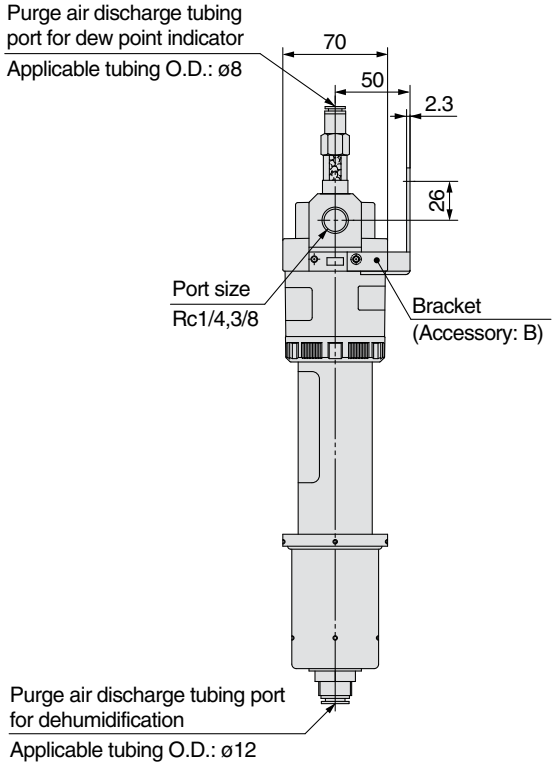
∗ Specifications for the 25A-series are the same as standard products.

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Dimensions

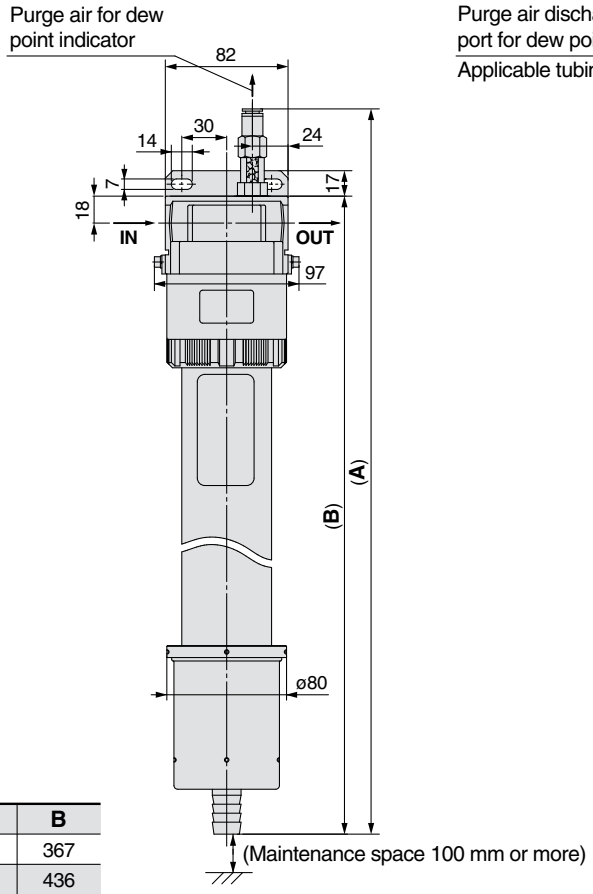
25A-IDG30LA
25A-IDG50LA

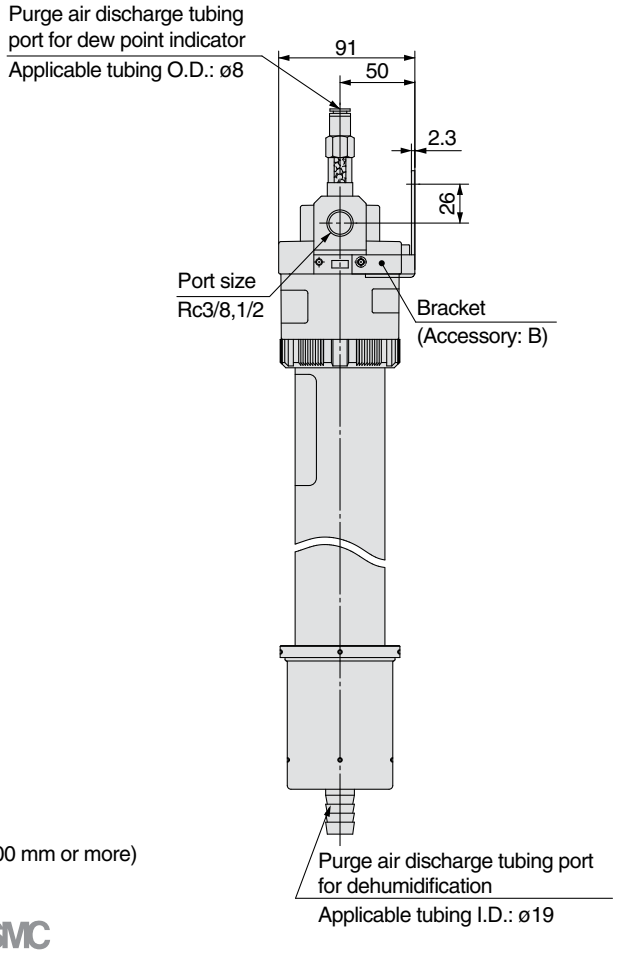




Model	A	B
25A-IDG30LA	360	302
25A-IDG50LA	399	341

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





Model	A	B
25A-IDG60LA	426	367
25A-IDG75LA	495	436
25A-IDG100LA	560	501

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Main Line Filter

RoHS

Series 25A-AFF

How to Order

25A-AFF2C to 25A-AFF22C

25A – AFF 22C – ☐ 10 ☐ ☐ – ☐

Series compatible with secondary batteries

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

*1 Conforms to ISO1179-1.

Port size

Symbol	Size	Applicable body size				
		2C	**4C**	**8C**	**11C**	**22C**
01	1/8	●	—	—	—	—
02	1/4	●	●	—	—	—
03	3/8	—	●	●	—	—
04	1/2	—	—	●	●	—
06	3/4	—	—	—	●	●
10	1	—	—	—	—	●

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.).

Option

Symbol	Description
Nil	—
J*4,*5	Drain guide 1/4 female threaded
R	IN-OUT reversal direction
T	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)
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 together.

Accessory

Symbol	Description
Nil	—
B	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 – ☐ 10 ☐ ☐ – ☐

Series compatible with secondary batteries

Body size

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

Thread type

Symbol	Type
Nil	Rc
F	G
N	NPT

Port size

Symbol	Size	Applicable body size	
		37B	**75B**
10	1	●	—
14	1 1/2	●	●
20	2	—	●

Bracket Assembly Part No.*3

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.).

Accessory

Symbol	Description
Nil	—
B	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).

Option

Symbol	Description
Nil	—
J*4,*5	Drain guide 1/4 female threaded (37B only)
R	IN-OUT reversal direction
T	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) *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.

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Mist Separator

Series 25A-AM

RoHS

How to Order

25A-AM150C to 25A-AM550C

25A – AM 550C – ☐ 10 ☐ ☐ – ☐

Series compatible with secondary batteries

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.

Port size

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

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 together.

Accessory

Symbol	Description
Nil	—
B	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).

Option

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

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

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.).

25A-AM650/850

25A – AM 650 – ☐ 10 ☐ ☐ – ☐

Series compatible with secondary batteries

Body size

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

Thread type

Symbol	Type
Nil	Rc
F	G
N	NPT

Port size

Symbol	Size	Applicable body size	
		650	850
10	1	●	—
14	1 1/2	●	●
20	2	—	●

Accessory

Symbol	Description
Nil	—
B	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.

Option

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

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

Bracket Assembly Part No.*3

Applicable model	Part no.
25A-AM650	**25A-BM56**
25A-AM850	**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.

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RoHS

Micro Mist Separator

Series 25A-AMD

How to Order

25A-AMD150C to 25A-AMD550C

25A – AMD 550C – [ ] 10 [ ] [ ] – [ ]

Series compatible with secondary batteries

Body size

150C
250C
350C
450C
550C

Thread type

Symbol	Type
Nil	Rc
F	G *1
N	NPT

*1 Conforms to ISO1179-1.

Port size

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

Bracket Assembly Part No.*3

Applicable model	Part no.
25A-AMD150C	**25A-AM-BM101**
25A-AMD250C	**25A-AM-BM102**
25A-AMD350C	**25A-AM-BM103**
25A-AMD450C	**25A-AM-BM104**
25A-AMD550C	**25A-AM-BM105**

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

Accessory

Symbol	Description
Nil	—
B	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).

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 together.

Option

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

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

25A-AMD650/850

25A – AMD 650 – [ ] 10 [ ] [ ] – [ ]

Series compatible with secondary batteries

Body size

650
850

Thread type

Symbol	Type
Nil	Rc
F	G
N	NPT

Port size

Symbol	Size	Applicable body size	
		650	850
10	1	●	—
14	1 1/2	●	●
20	2	—	●

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.).

Accessory

Symbol	Description
Nil	—
B	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.

Option

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

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

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

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RoHS

Micro Mist Separator with Pre-filter

Series 25A-AMH

How to Order

25A-AMH150C to 25A-AMH550C

25A – AMH 550C – □ 10 □ □ – □

Series compatible with secondary batteries

Body size

150C
250C
350C
450C
550C

Thread type

Symbol	Type
Nil	Rc
F	G *1
N	NPT

*1 Conforms to ISO1179-1.

Port size

Symbol	Size	Applicable body 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
T	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)
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 together.

Accessory

Symbol	Description
Nil	—
B	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).

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.).

25A-AMH650/850

25A – AMH 650 – □ 10 □ □ – □

Series compatible with secondary batteries

Body size

650
850

Thread type

Symbol	Type
Nil	Rc
F	G
N	NPT

Port size

Symbol	Size	Applicable body size	
		650	850
10	1	●	—
14	1 1/2	●	●
20	2	—	●

Option

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

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

Accessory

Symbol	Description
Nil	—
B	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.

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.).

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

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Exhaust Cleaner for Clean Room

Series 25A-AMP

RoHS

How to Order

25A – AMP [2] 2 0 – [03] [ ] – [ ] T

- **25A**: Series compatible with secondary batteries
- **T**: With element service indicator

Body size

Symbol	Size
2	1/4 standard
3	3/8 standard
4	1/2 standard

Element construction

Symbol	Stage
2	2 stage

Port size

Symbol	Port size	Body size		
		2	**2**	**2**
02	Rc1/4	●	—	—
03	Rc3/8	●	●	—
04	Rc1/2	—	●	●
06	Rc3/4	—	—	●

Semi-standard specifications

Symbol	Description
Nil	None
R	Flow direction Right→Down*3

*3 Flow direction when the nameplate is viewed from the front.

Accessories

Symbol	Name
Nil	None
B	With 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).

Bracket Assembly Part No.*2

Applicable model	Part no.
25A-AMP220	**25A-BM66**
25A-AMP320	**25A-BM67**
25A-AMP420	**25A-BM68**

*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.

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Air Filter

25A-AF20 to 25A-AF60

How to Order

25A – AF 30 – ☐ 03 B – ☐

❶ ❷ ❸ ❹ ❺

• **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

			Symbol	Description	❶ Body size 20	30	40	50	60
❷	Thread type		**Nil**	Rc	●	●	●	●	●
			N	NPT	●	●	●	●	●
			F	G	●	●	●	●	●
			+						
❸	Port size		**01**	1/8	●	—	—	—	—
			02	1/4	●	●	●	—	—
			03	3/8	—	●	●	—	—
			04	1/2	—	—	●	—	—
			06	3/4	—	—	●	●	—
			10	1	—	—	—	●	●
			+						
❹	Option	a Mounting	**Nil**	Without mounting option	●	●	●	●	●
			B Note 1)	With bracket	●	●	●	●	●
			+						
❺	Semi-standard	b Flow direction	**Nil**	Flow direction: Left to right	●	●	●	●	●
			R	Flow direction: Right to left	●	●	●	●	●
			+						
		c Pressure unit	**Nil**	Name plate and caution plate for bowl in imperial units: MPa	●	●	●	●	●
			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) ○ : 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.

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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

25A – AFM 30 – ☐ 03 B – ☐

25A – AFD 30 – ☐ 03 B – ☐

❶ ❷ ❸ ❹ ❺

• **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-AFM30-N03B-RZ

			Symbol	Description	⑰ Body size 20	30	40
❻	Thread type		**Nil**	Rc	●	●	●
			N	NPT	●	●	●
			F	G	●	●	●
			+				
❼	Port size		**01**	1/8	●	—	—
			02	1/4	●	●	●
			03	3/8	—	●	●
			04	1/2	—	—	●
			06	3/4	—	—	●
			+				
❽ Option	**a**	Mounting	**Nil**	Without mounting option	●	●	●
			B Note 1)	With bracket	●	●	●
			+				
❾ Semi-standard	**b**	Flow direction	**Nil**	Flow direction: Left to right	●	●	●
			R	Flow direction: Right to left	●	●	●
			+				
	c	Pressure unit	**Nil**	Name plate and caution plate for bowl in imperial units: MPa	●	●	●
			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) ○ : 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.

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Regulator

25A-AR20 to 25A-AR60

Regulator with Backflow Function

25A-AR20K to 25A-AR60K

How to Order

25A – AR [30] [K] – [ ] [03] [B] – [ ]

❶ ❷ ❸ ❹ ❺ ❻

• **Series compatible with secondary batteries**

- 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

		Symbol	Description	❶ Body size 20	25	30	40	50	60
❷	With backflow function	Nil	Without backflow function	●	●	●	●	●	—
		K	With backflow function	●	●	●	●	●	●
		+							
❸	Thread type	Nil	Rc	●	●	●	●	●	●
		N	NPT	●	●	●	●	●	●
		F	G	●	●	●	●	●	●
		+							
❹	Port size	01	1/8	●	—	—	—	—	—
		02	1/4	●	●	●	●	—	—
		03	3/8	—	●	●	●	—	—
		04	1/2	—	—	—	●	—	—
		06	3/4	—	—	—	●	●	—
		10	1	—	—	—	—	●	●
		+							
❺ Option Note 1)	a Mounting	Nil	Without mounting option	●	●	●	●	●	●
		B Note 2)	With bracket	●	●	●	●	●	●
		H	With set nut (For panel fitting)	●	●	●	●	—	—
		+							
❻ Semi-standard	b Set pressure	Nil	7.3 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	●	●	●	●	●	●
		+							
	c Exhaust mechanism	Nil	Relieving type	●	●	●	●	●	●
		N	Non-relieving type	●	●	●	●	●	●
		+							
	d Flow direction	Nil	Flow direction: Left to right	●	●	●	●	●	●
		R	Flow direction: Right to left	●	●	●	●	●	●
		+							
	e Pressure unit	Nil	Name plate and pressure gauge in imperial units: MPa	●	●	●	●	●	●
		Z Note 4)	Name plate and pressure gauge in imperial units: psi	○ Note 4)	○ Note 4)	○ 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) ○: 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-

Option \ Model	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).

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Filter Regulator

25A-AW20 to 25A-AW60

Filter Regulator with Backflow Function

25A-AW20K to 25A-AW60K

How to Order

25A – AW [30] [K] – [ ] [03] [B] – [ ]

❶ ❷ ❸ ❹ ❺ ❻

• Series compatible with secondary batteries

- 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

		Symbol	Description	❶ Body size 20	30	40	60
❷	With backflow function	Nil	Without backflow function	●	●	●	●
		K	With backflow function	●	●	●	●
		+					
❸	Thread type	Nil	Rc	●	●	●	●
		N	NPT	●	●	●	●
		F	G	●	●	●	●
		+					
❹	Port size	01	1/8	●	—	—	—
		02	1/4	●	●	●	—
		03	3/8	—	●	●	—
		04	1/2	—	—	●	—
		06	3/4	—	—	●	●
		10	1	—	—	—	●
		+					
❺ Option Note 1)	a Mounting	Nil	Without mounting option	●	●	●	●
		B Note 2)	With bracket	●	●	●	●
		H	With set nut (For panel fitting)	●	●	●	—
		+					
❻ Semi-standard	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	●	●	●	●
		+					
	c Exhaust mechanism	Nil	Relieving type	●	●	●	●
		N	Non-relieving type	●	●	●	●
		+					
	d Flow direction	Nil	Flow direction: Left to right	●	●	●	●
		R	Flow direction: Right to left	●	●	●	●
		+					
	e Pressure unit	Nil	Name plate, caution plate for bowl, and pressure gauge in imperial units: MPa	●	●	●	●
		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)

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) ○ : 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).

SMC

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Precision Regulator

RoHS

Series 25A-IR1000/2000/3000

How to Order

25A – IR 2 0 0 0 – 02

Series compatible with secondary batteries

Precision regulator

Body size

1	25A-IR1000
2	25A-IR2000
3	25A-IR3000

Port size

Symbol	size	Application		
		25A-IR1000	25A-IR2000	25A-IR3000
01	Rc1/8	●	—	—
02	Rc1/4	—	●	●
03	Rc3/8	—	—	●
04	Rc1/2	—	—	●

Regulating pressure range

For Series 25A-IR1000/2000

0	0.73 to 29 psi (0.005 to 0.2 MPa)
1	1.45 to 58 psi (0.01 to 0.4 MPa)
2	1.45 to 116 psi (0.01 to 0.8 MPa)

For Series 25A-IR3000

0	1.45 to 29 psi (0.01 to 0.2 MPa)
1	1.45 to 58 psi (0.01 to 0.4 MPa)
2	1.45 to 116 psi (0.01 to 0.8 MPa)

Accessory

Nil	None
B	With bracket

∗ Some assemblies other than the above models are available. Consult with SMC for availability.

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

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Electro-Pneumatic Regulator

Series 25A-ITV2000

How to Order

25A – ITV 2 0 1 0 – 0 1 2 S

Series compatible with secondary batteries

Model

1	1000 type
2	2000 type
3	3000 type

Pressure range

1	14.5 psi (0.1 MPa)
3	72.5 psi (0.5 MPa)
5	131 psi (0.9 MPa)

Power supply voltage

0	24 VDC
1	12 to 15 VDC

Input signal

0	Current type 4 to 20 mA DC (Sink type)
1	Current type 0 to 20 mA DC (Sink type)
2	Voltage type 0 to 5 VDC
3	Voltage type 0 to 10 VDC
40	4 points preset input

Monitor output

1	Analog output 1 to 5 VDC
2	Switch output/NPN output
3	Switch output/PNP output
4	Analog output 4 to 20 mA DC (Sink type)
Nil	None (For 4 points preset input)

Thread type

Nil	Rc
N	NPT
T	NPTF
F	G

Port size

1	1/8 (1000 type)
2	1/4 (1000, 2000, 3000 type)
3	3/8 (2000, 3000 type)
4	1/2 (3000 type)

Bracket

Nil	Without bracket
B	Flat bracket
C	L-bracket

Note) The dedicated brackets with Raydent treatment are used.

Cable connector type

S	Straight type 3 m
N	Without cable connector

Note) A dedicated cable connector whose material was changed is used.

Pressure display unit

Nil	MPa
2 Note)	kgf/cm²
3	bar
4 Note)	psi
5	kPa

Note) This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

∗ Since an electrical circuit is used, this product is not completely copper-free. Only the wetted parts are copper-free.

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

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Booster Regulator

RoHS

Series 25A-VBA

How to Order

25A – VBA 40A – □ 04 □

Series compatible with secondary batteries

Body size

10A	1/4", Handle-operated type	Pressure increase ratio: Twice
20A	3/8", Handle-operated type	
40A	1/2", Handle-operated type	

Thread type Note)

Symbol	Thread type
Nil	Rc
F	G
N	NPT
T	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.

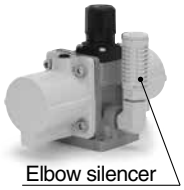
Port size

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

Body size	Thread type	Option					Semi-standard
		Nil	**N**	**S**	**LN**	**LS**	**Nil**
10A	**Nil**	●	●	●	●	●	●
	F	●	●	●	●	●	●
	N	●	●	—	●	—	●
	T	●	●	—	●	—	●
20A	**Nil**	●	●	●			●
	F	●	●	●			●
	N	●	●	●			●
	T	●	●	●			●
40A	**Nil**	●	●	●			●
	F	●	●	●			●
	N	●	●	●			●
	T	●	●	●			●

Air Tank Compatibility Chart

Air tank \ Booster regulator	25A-VBA10A	25A-VBA20A	25A-VBA40A
25A-VBAT05A1	●	—	—
25A-VBAT05S1			
25A-VBAT10A1	●	●	—
25A-VBAT10S1			
25A-VBAT20A1	—	●	●
25A-VBAT20S1			
25A-VBAT38A1	—	●	●
25A-VBAT38S1			

⚠ Caution

- Not compatible with a low dew point

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

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Air Tank

Series 25A-VBAT

RoHS

How to Order

- **Compact connections are possible with booster regulators.**
- **It can be used alone as a tank.**

Standard product
(For Japanese market)

Note) The thread type for each port is Rc.

25A – VBAT 10 A 1

Tank internal capacity

Symbol	Internal capacity
05	5 L
10	10 L
20	20 L
38	38 L

Material

Symbol	Material
A	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.

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Quick Exhaust Valve with One-touch Fittings

RoHS

Series 25A-AQ240F/340F

How to Order

IN, OUT port applicable tubing O.D.

04	ø4

Body size

2	M5

Exhaust port

04	Applicable tubing O.D. ø4

25A – AQ 2 4 0 F – 04 – 04

25A – AQ 3 4 0 F – 06 – 06

Series compatible with secondary batteries

Quick exhaust valve

Exhaust port

06	Applicable tubing O.D. ø6

IN, OUT port applicable tubing O.D.

06	ø6

Body size

3	1/8

With One-touch fittings

In-line type

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

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Check Valve with One-touch Fittings

Series 25A-AKH

RoHS

How to Order

Straight type **25A – AKH 04 – 00**

Series compatible with secondary batteries

Applicable tubing O.D.

Metric size

04	ø4
06	ø6
08	ø8
10	ø10
12	ø12

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

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2-Color Display High-Precision Digital Pressure Switch

Series 25A-ZSE30A(F)/25A-ISE30A

How to Order

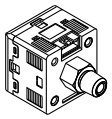
25A – ISE30A – 01 – N – M □ □ □

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

N	NPN open collector 1 output
P	PNP open collector 1 output
A	NPN open collector 2 outputs
B	PNP open collector 2 outputs
C*	NPN open collector 1 output + Analog voltage output
D*	NPN open collector 1 output + Analog current output
E*	PNP open collector 1 output + Analog voltage output
F*	PNP open collector 1 output + Analog current output

∗ Made to Order

Unit specifications

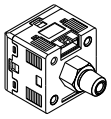
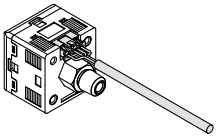
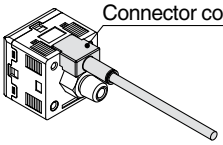
Nil	With display unit switching function Note 1)
M	Fixed SI unit Note 2)
P*	With display unit switching function (Initial value psi) Note 1)

∗ 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.

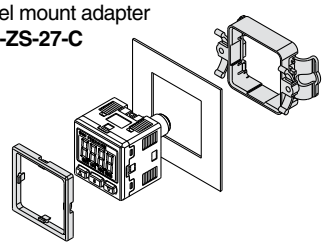
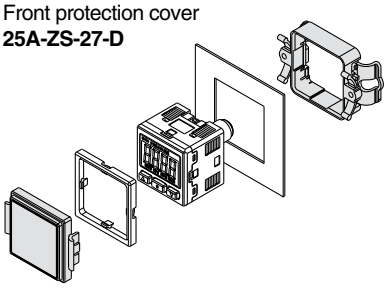
Note 2) Unit: kPa, MPa

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.

Option 2

Nil	None
B	Panel mount adapter **25A-ZS-27-C** 
D	Panel mount adapter + Front protection cover **25A-ZS-27-D** 

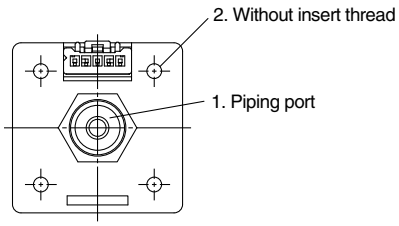
Option 3

Symbol	Operation manual Note)	Calibration certificate Note)
Nil	○	—
Y	—	—
K	○	○
T	—	○

Note) All texts in both English and Japanese

Secondary Batteries (25A) Specifications

1. Piping port material: Stainless steel
2. Without insert thread for bracket mounting
   Others are the same as standard products.



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2-Color Display High-Precision Digital Pressure Switch

Series 25A-ZSE40A(F)/25A-ISE40A

How to Order

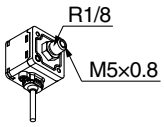
25A – ISE40A – 01 – X SDPC – M

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 (With M5 female thread)	

Output specifications

Symbol	Wiring specifications	
X	**SDPC**	NPN open collector 2 outputs
Y		PNP open collector 2 outputs
R		NPN open collector 1 output + Analog voltage output/Auto-shift switching
S		NPN open collector 1 output + Analog current output/Auto-shift switching
T		PNP open collector 1 output + Analog voltage output/Auto-shift switching
V		PNP open collector 1 output + Analog current output/Auto-shift switching
X	**Nil**	NPN open collector 2 outputs + Copy function
Y		PNP open collector 2 outputs + Copy function
R		NPN open collector 2 outputs + Analog voltage output/Auto-shift switching
S		NPN open collector 2 outputs + Analog current output/Auto-shift switching
T		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)

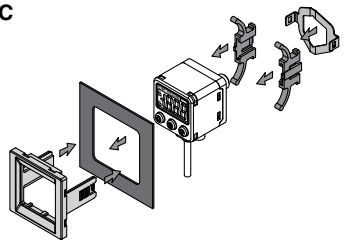
Unit specifications

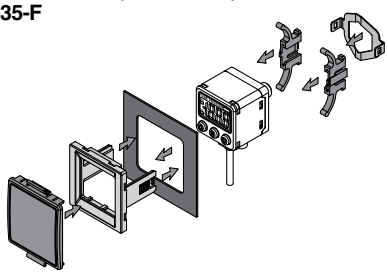
Nil	With unit switching function Note 1)
M	Fixed SI unit Note 2)
P	With unit switching function Note 1) (Initial value psi)

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

Option 1

Nil	None
E	Panel mount adapter **ZS-35-C**
F	Panel mount adapter + Front protective cover **ZS-35-F**





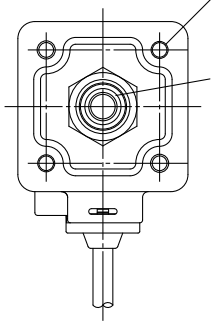
Option 2

Symbol	Calibration certificate Note)
Nil	—
K	○

Note) All texts in both English and Japanese

Secondary Batteries (25A) Specifications

1. Piping port material: Stainless steel
2. Without insert thread for bracket mounting
   Others are the same as standard products.



SMC

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2-Color Display
Digital Pressure Switch for General Fluids

Series 25A-ZSE80(F)/25A-ISE80

How to Order

25A – ISE80 – 02 – A SDPC – M □ □

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

Symbol	Wiring specifications	
A	SDPC	NPN open collector 2 outputs
B		PNP open collector 2 outputs
R		NPN open collector 1 output + Analog voltage output/Auto-shift switching
S		NPN open collector 1 output + Analog current output/Auto-shift switching
T		PNP open collector 1 output + Analog voltage output/Auto-shift switching
V		PNP open collector 1 output + Analog current output/Auto-shift switching
N	Nil	NPN open collector 1 output
P		PNP open collector 1 output
A		NPN open collector 2 outputs
B		PNP open collector 2 outputs
R		NPN open collector 2 outputs + Analog voltage output/Auto-shift switching
S		NPN open collector 2 outputs + Analog current output/Auto-shift switching
T		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 display switching function Note 1)
M	Fixed SI unit Note 2)
P	Initial value psi Note 1)

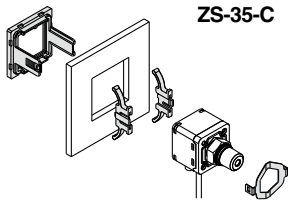
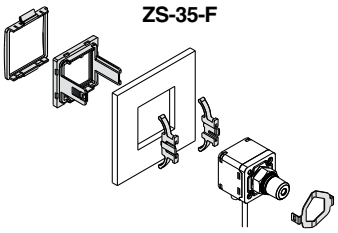
Note 1) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.
Note 2) Unit: kPa, MPa

Option 2

Symbol	Operation manual Note)	Calibration certificate Note)
Nil	●	—
Y	—	—
K	●	●
T	—	●

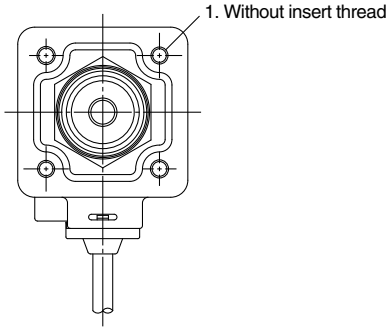
Note) All texts in both English and Japanese

Option 1

Nil	None
C	Panel mount adapter ZS-35-C  Rear ported
D	Panel mount adapter + Front protection cover ZS-35-F  Rear ported

Secondary Batteries (25A) Specifications

1. Without insert thread for bracket mounting
   Others are the same as standard products.



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2-Color Display Digital Flow Switch

Integrated display

Series 25A-PFM7

How to Order

Integrated display

25A – PFM 7 10 – C6 ☐ – A – M ☐ ☐ – W ☐

Series compatible with secondary batteries

Type

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: CO_2

Port size

Symbol	Description	Flow rate range			
		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

Nil	Straight
L	Bottom

Output specifications

A	2 NPN outputs
B	2 PNP outputs
C	1 NPN output + Analog output (1 to 5 V)
D	1 NPN output + Analog output (4 to 20 mA)
E	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)
H	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.)

Option 1

W	Lead wire with connector (2 m) + Rubber cover for connector (Silicon rubber)

Calibration certificate

Nil	None
A	With calibration certificate

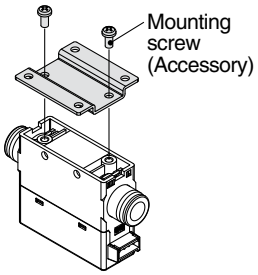
∗ The certificate is written in English and Japanese.
Other languages are available as specials.

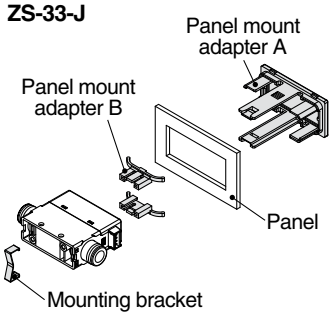
Operation manual

Nil	With operation manual (Japanese and English)
N	None

Option 2

Nil	None
R	Bracket (For without flow adjustment valve) **25A-ZS-33-M**
T	Panel mount adapter (For without flow adjustment valve) **ZS-33-J**





∗ 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.

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3-color display
Digital Flow Switch for Water
Series 25A-PF3W

CE RoHS

How to Order

Remote sensor unit

Output specification/Temperature sensor

Symbol	OUT1 Flow rate	OUT2 Temperature	Temperature sensor
1	Analog 1 to 5 V	—	None
2	Analog 4 to 20 mA	—	
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 □ - □ 03 - 1T □ - □ □ □

Integrated display 25A-PF3W 7 04 □ - □ 03 - AT □ - M □ □

Series compatible with secondary batteries

Type

5	Remote sensor unit
7	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]

Thread type

Nil	Rc
N	NPT
F	G

Port size

Symbol	Port size	Rated flow range 04	20	40	11
03	3/8	●	●	—	—
04	1/2	—	●	●	—
06	3/4	—	—	●	●
10	1/1	—	—	—	●

Flow adjustment valve

Symbol	With/without flow adjustment valve	Rated flow rate 04	20	40	11
Nil	None	●	●	●	●
S	Yes	●	●	●	—

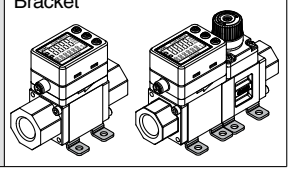
100 L/min type is not available with flow adjustment valve.

Calibration certificate (Only flow sensor)

Nil	None
A	With calibration certificate

∗ The certificate is written in both English and Japanese. Integrated display type with temperature sensor can only display flow rate.

Bracket (Option)

Nil	None
R	Bracket 

Integrated display

Output specification/Temperature sensor

Symbol	OUT1 Flow rate	OUT2 Flow rate		Temperature	Temperature sensor
A	NPN	NPN		—	None
B	PNP	PNP		—	
C	NPN	Analog 1 to 5 V		—	
D	NPN	Analog 4 to 20 mA		—	
E	PNP	Analog 1 to 5 V		—	
F	PNP	Analog 4 to 20 mA		—	
G	NPN	External input Note 1)		—	
H	PNP	External input Note 1)		—	
AT	NPN	(NPN)	Note 2) ⟷	NPN	With temperature sensor
BT	PNP	(PNP)	Note 2) ⟷	PNP	
CT	NPN	(Analog 1 to 5 V)	Note 2) ⟷	Analog 1 to 5 V	
DT	NPN	(Analog 4 to 20 mA)	Note 2) ⟷	Analog 4 to 20 mA	
ET	PNP	(Analog 1 to 5 V)	Note 2) ⟷	Analog 1 to 5 V	
FT	PNP	(Analog 4 to 20 mA)	Note 2) ⟷	Analog 4 to 20 mA	

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

Note 1) External input: The accumulated value, peak value, and bottom value can be reset.

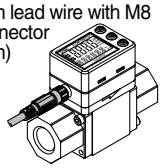
Note 2) For units with temperature sensor, OUT2 can be set as either temperature output or flow rate output. Setting when shipped is for temperature output.

Integrated display/Unit specification

Symbol	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]
°F = 9/5°C + 32

Lead wire (Option)

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.

Options/Part No.

When optional parts are required separately, use the following part numbers to place an order.

Description	Part no	Qty.	Note	
Bracket Note)	25A-ZS-40-K	1	For PF3W704/720/504/520	With 4 tapping screws (3 x 8)
	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 length (3 m)	

Note) For units with flow adjustment valve, 2 brackets are required.

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3-color display

Digital Flow Switch for PVC Piping

Series 25A-PF3W

CE RoHS

How to Order

Remote sensor unit

Output specification

Symbol	OUT1
1	Analog 1 to 5 V
2	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)

Nil	None
A	With calibration certificate

∗ The certificate is written in both English and Japanese.

Remote sensor unit 25A – PF3W 5 11 – U 25 – 1 □ – □ □ □

Integrated display 25A – PF3W 7 11 – U 25 – A □ – M □ □

Series compatible with secondary batteries

Type

5	Remote sensor unit
7	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

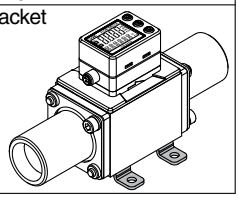
∗ JIS K6742 equivalent

Integrated display Output specification

Symbol	OUT1	OUT2
A	NPN	NPN
B	PNP	PNP
C	NPN	Analog 1 to 5 V
D	NPN	Analog 4 to 20 mA
E	PNP	Analog 1 to 5 V
F	PNP	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)

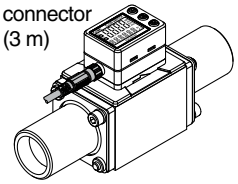
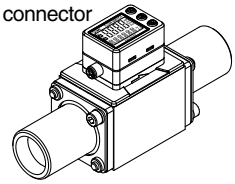
Nil	None
R	Bracket 

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

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.

Options/Part No.

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.

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Direct Operated 2 Port Solenoid Valve

For Air Single Unit

CE RoHS

Series 25A-VX21/22/23

How to Order (Single Unit)

25A – VX2 1 0 A A

Series compatible with secondary batteries

Fluid

0	For air

Common Specifications

Valve type	N.C.
Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Size/Valve type

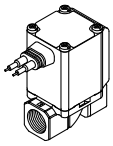
Symbol	Size	Valve type
1	Size 1	Single unit N.C.
2	Size 2	Single unit N.C.
3	Size 3	Single unit N.C.

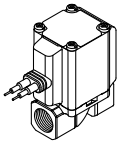
Body material/Port size/Orifice diameter

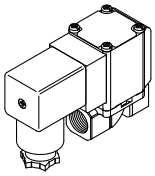
Symbol	Body material	Port size	Orifice diameter
A	Aluminum	1/8	2
B			3
C			5
D		1/4	2
E			3
F			5
H	Resin	ø6 One-touch fitting	2
J			3
K			5
L		ø8 One-touch fitting	2
M			3
N			5
A	Aluminum	1/4	4
B			7
D		3/8	4
E			7
H	Resin	ø8 One-touch fitting	4
J			7
L		ø10 One-touch fitting	4
M			7
A	Aluminum	1/4	5
B			8
C			10
D		3/8	5
E			8
F			10
G		1/2	10
H	Resin	ø10 One-touch fitting	5
J			8
K			10
L		ø12 One-touch fitting	5
M			8
N			10

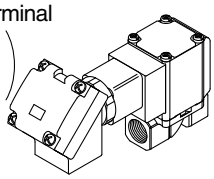
Voltage/Electrical entry

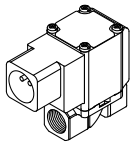
Symbol	Voltage	Electrical entry
A	24 VDC	Grommet
B	100 VAC	Grommet (With surge voltage suppressor)
C	110 VAC	
D	200 VAC	
E	230 VAC	
F	24 VDC	
G	24 VDC	DIN terminal (With surge voltage suppressor)
H	100 VAC	
J	110 VAC	
K	200 VAC	
L	230 VAC	
M	24 VDC	Conduit terminal (With surge voltage suppressor)
N	100 VAC	
P	110 VAC	
Q	200 VAC	
R	230 VAC	
S	24 VDC	Conduit (With surge voltage suppressor)
T	100 VAC	
U	110 VAC	
V	200 VAC	
W	230 VAC	
Y	24 VDC	Faston terminal
Z	Other voltages and electrical options	

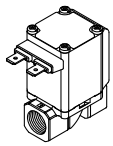












For other special options, refer to the standard products.

Special voltage	48 VAC
	220 VAC
	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	

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

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Direct Operated 2 Port Solenoid Valve

For Water | Single Unit
For Oil | Single Unit
For Medium Vacuum | Single Unit

Series 25A-VX21/22/23

CE RoHS

How to Order (Single Unit)

25A – VX2 [1] 4 [A] [A]

Series compatible with secondary batteries

Fluid

2	For water
3	For oil
4	For medium vacuum

Common Specifications

Valve type	N.C.
Seal material	FKM
Coil insulation type	Class B
Thread type	Rc

Size/Valve type

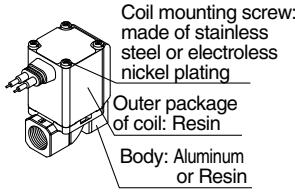
Symbol	Size	Valve type
1	Size 1	Single unit N.C.
2	Size 2	Single unit N.C.
3	Size 3	Single unit N.C.

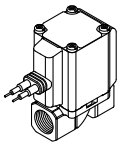
Body material/Port size/Orifice diameter

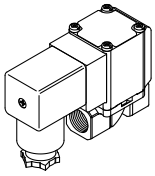
Symbol	Body material	Port size	Orifice diameter
H	Stainless steel	1/8	2
J			3
K			5
L		1/4	2
M			3
N			5
H	Stainless steel	1/4	4
J			7
L		3/8	4
M			7
H	Stainless steel	1/4	5
J			8
K			10
L		3/8	5
M			8
N			10
P		1/2	10

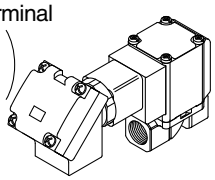
Voltage/Electrical entry

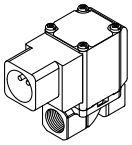
Symbol	Voltage	Electrical entry
A	24 VDC	Grommet
B	100 VAC	Grommet (With surge voltage suppressor)
C	110 VAC	
D	200 VAC	
E	230 VAC	
F	24 VDC	
G	24 VDC	DIN terminal (With surge voltage suppressor)
H	100 VAC	
J	110 VAC	
K	200 VAC	
L	230 VAC	
M	24 VDC	Conduit terminal (With surge voltage suppressor)
N	100 VAC	
P	110 VAC	
Q	200 VAC	
R	230 VAC	
S	24 VDC	Conduit (With surge voltage suppressor)
T	100 VAC	
U	110 VAC	
V	200 VAC	
W	230 VAC	
Y	24 VDC	Faston terminal
Z	Other voltages and electrical options	

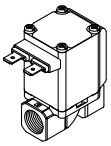












* Specifications and dimensions for the 25A-series are the same as standard products.

For other special options, refer to the standard products.

Special voltage	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
G thread	
NPT thread	
Bracket interchangeable with old type	

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Electric Actuator/Slider Type
Ball Screw Drive

Step Motor (Servo/24 VDC) | Servo Motor (24 VDC)

Series 25A-LEFS

LEFS16, 25, 32, 40

RoHS

How to Order

25A-LEFS 25 R B – 200 – S 1 6N 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫

Series compatible with secondary batteries

❶ Size

16
25
32
40

❷ Motor mounting position

Nil	In-line
R	Right side parallel
L	Left side parallel

❸ Motor type

Symbol	Type	Applicable size				Compatible controllers/ driver
		LEFS16	LEFS25	LEFS32	LEFS40	
Nil	Step motor (Servo/24 VDC)	●	●	●	●	LECP6 LECP1 LECPA LECPMJ
A	Servo motor (24 VDC)	●	●	—	—	LECA6

❹ Lead [mm]

Symbol	LEFS16	LEFS25	LEFS32	LEFS40
A	10	12	16	20
B	5	6	8	10

❺ Stroke [mm]

50	50
to	to
1000	1000

∗ Refer to the applicable stroke table.

⚠ Caution

[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

● Standard

Model \ 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.

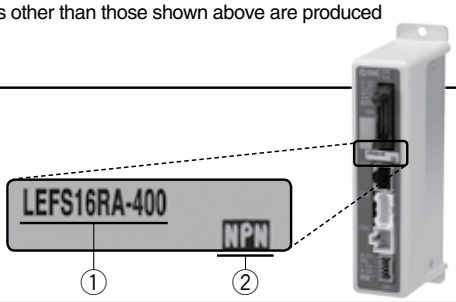
The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and the actuator is correct.

<Check the following before use.>

①Check the actuator label for model number (after "25A-"). This matches the controller/driver.

②Check 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

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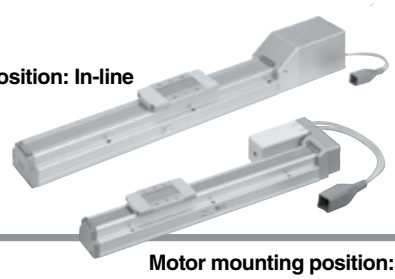

❻ Motor option

Nil	Without option
B	With lock

❼ 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".

❽ Actuator cable length [m]

Nil	Without cable
1	1.5
3	3
5	5
8	8*
A	10*
B	15*
C	20*

* Produced upon receipt of order (Robotic cable only)

❾ Controller/Driver type *1

Nil	Without controller/driver	
6N	**LECP6/LECA6** (Step data input type)	NPN
6P		PNP
1N	**LECP1** *2 (Programless type)	NPN
1P		PNP
MJ	**LECPMJ** (CC-Link direct input type)	—
AN	**LECPA** *2 (Pulse input type)	NPN
AP		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".

❿ 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
T	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.

⓫ Controller/Driver mounting

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

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 data) input Standard controller		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 points		14 points	64 points	—
Power supply voltage	24 VDC				

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

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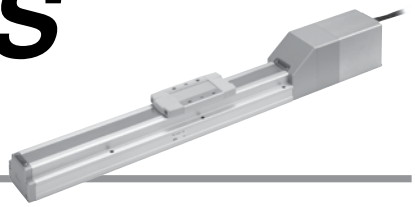
Electric Actuator/Slider Type
Ball Screw Drive

AC Servo Motor

CE RoHS

Series 25A-LEFS

LEFS25, 32, 40



How to Order

25A-LEFS 32 R S3 B – 200 □ – S 2 A2 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

Series compatible with secondary batteries

❶ Size

25
32
40

❷ Motor mounting position

Nil	In-line
R	Right side parallel
L	Left side parallel

❸ Motor type

Symbol	Type	Output [W]	Actuator size	Compatible drivers
S2*1	AC servo motor (Incremental encoder)	100	25	LECSA□-S1
S3		200	32	LECSA□-S3
S4		400	40	LECSA2-S4
S6*1	AC servo motor (Absolute encoder)	100	25	LECSB□-S5 LECSC□-S5 LECSS□-S5
S7		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**.

❹ Lead [mm]

Symbol	LEFS25	LEFS32	LEFS40
A	12	16	20
B	6	8	10

❺ Stroke [mm]

50	50
to	to
1000	1000

* Refer to the applicable stroke table.

❻ Motor option

Nil	Without option
B	With lock

❼ 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

❽ Cable length *[m]

Nil	Without cable
2	2
5	5
A	10

* The length of the encoder, motor and lock cables are the same.

❾ Driver type

	Compatible drivers	Power supply voltage (V)	Size 25	Size 32	Size 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)
S2 : Standard cable (2 m)
Nil : Without cable and driver

❿ I/O connector

Nil	Without connector
H	With connector

Applicable stroke table

● Standard

Model \ 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]
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.

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

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	○	○	—	—
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.

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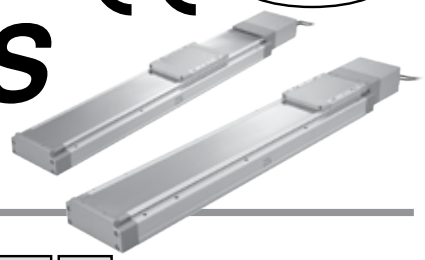
Electric Actuator/High Rigidity Slider Type
Ball Screw Drive

AC Servo Motor

CE RoHS

Series 25A-LEJS
LEJS40, 63



How to Order

25A-LEJS 40 S2 A – 500 ☐ – ☐ ☐ ☐ ☐

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

Series compatible with secondary batteries

❶ Size

40
63

❷ Motor type *1

Symbol	Type	Output [W]	Actuator size	Compatible drivers *2
S2	AC servo motor (Incremental encoder)	100	40	LECSA☐-S1
S3	AC servo motor (Incremental encoder)	200	63	LECSA☐-S3
S6	AC servo motor (Absolute encoder)	100	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.
*2 For details about the driver, refer to **the WEB catalog**.

❸ Lead [mm]

Symbol	LEJS40	LEJS63
A	16	20
B	8	10

❹ Stroke [mm] *3

200
to
1500

*3 Refer to the table below for details.

❺ Motor option

Nil	Without option
B	With lock

❻ Cable type *5, *6, *7

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 side".

❼ Cable length [m] *5, *8

Nil	Without cable
2	2
5	5
A	10

*8 The length of the motor, encoder and lock cables are the same.

❽ 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

❾ I/O connector

Nil	Without connector
H	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)
S2 : Standard cable (2 m)
Nil : Without cable and driver

Applicable stroke table *4

●Standard ○Produced upon receipt of order

Model \ Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
LEJS40	●	●	○	●	●	○	●	○	○	○	—
LEJS63	—	●	○	●	●	○	●	○	●	○	○

*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	○	○	—	—
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.

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Electric Actuator/Rod Type

Step Motor (Servo/24 VDC) | Servo Motor (24 VDC)

Series 25A-LEY

LEY16, 25, 32, 40

RoHS

How to Order

25A-LEY [16] [ ] [ ] [B] – [100] [C] [ ] [ ] – [S] [1] [6N] [1] [ ]

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭

❶ Size

16
25
32
40

❷ Motor mounting position

Nil	Top mounting
R	Right side parallel
L	Left side parallel
D	In-line

❸ Motor type

Symbol	Type	Size LEY16	Size LEY25	Size LEY32/40	Compatible controllers/driver
Nil	Step motor (Servo/24 VDC)	●	●	●	LECP6 LECP1 LECPA LECPMJ
A	Servo motor (24 VDC)	●	●	—	LECA6

❹ Lead [mm]

Symbol	LEY16	LEY25	LEY32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

❺ Stroke [mm]

30	30
to	to
500	500

∗ Refer to the applicable stroke table.

❻ Motor option

C	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.

❼ Rod end thread

Nil	Female rod end
M	Male rod end (1 rod end nut is included.)

⚠ Caution

[CE-compliant products]

①EMC compliance was tested by combining the electric actuator LEY 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.

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.
∗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

● Standard

Model \ Stroke [mm]	30	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.

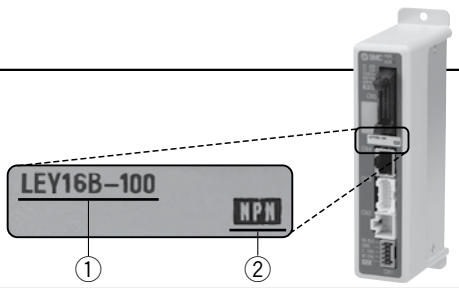
Applicable auto switches
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

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

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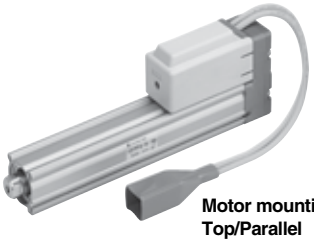

Motor mounting position: Top/Parallel

Motor mounting position: In-line

❽ Mounting *1

Symbol	Type	Motor mounting position	
		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.

❾ 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".

❿ Actuator cable length [m]

Nil	Without cable
1	1.5
3	3
5	5
8	8*
A	10*
B	15*
C	20*

* Produced upon receipt of order (Robotic cable only)

⓫ Controller/Driver type *1

Nil	Without controller/driver	
6N	LECP6/LECA6 (Step data input type)	NPN
6P		PNP
1N	LECP1 *2 (Programless type)	NPN
1P		PNP
MJ	LECPMJ (CC-Link direct input type)	—
AN	LECPA *2 (Pulse input type)	NPN
AP		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".

⓬ 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
T	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.

⓭ Controller/Driver mounting

Nil	Screw mounting
D	DIN rail mounting *1

*1 DIN rail is not included. Order it separately.

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

Compatible Controllers/Driver

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 data) input Standard controller		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 points		14 points	64 points	—
Power supply voltage	24 VDC				

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

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Electric Actuator/Rod Type

AC Servo Motor

Series 25A-LEY

LEY25, 32

Size 25, 32

CE RoHS

How to Order

25A-LEY 25 ❶ ❷ S2 ❸ B ❹ – 100 ❺ ❻ ❼ ❽ – S ❾ 2 ❿ A1 ⓫ ⓬

Series compatible with secondary batteries

❶ Size

25
32

❷ Motor mounting position

Nil	Top mounting
R	Right side parallel
L	Left side parallel
D	In-line

❸ Motor type *1

Symbol	Type	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
S7	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**.

❹ Lead [mm]

Symbol	LEY25	LEY32 ∗
A	12	16 (20)
B	6	8 (10)
C	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])

❺ Stroke [mm]

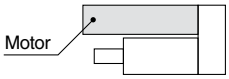
30	30
to	to
500	500

∗ Refer to the table below for details.

❻ Motor option

Nil	Without option
B	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.



❼ Rod end thread

Nil	Female rod end
M	Male rod end (1 rod end nut is included.)

❽ Mounting *1

Symbol	Type	Motor mounting position	
		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

● Standard

Model \ Stroke [mm]	30	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

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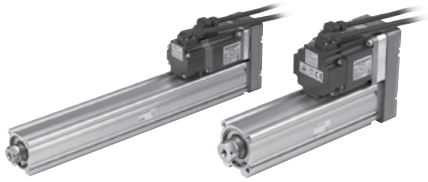

Motor mounting position: Top/Parallel

Motor mounting position: In-line

❾ Cable type *

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

❿ Cable length * [m]

Nil	Without cable
2	2
5	5
A	10

* The length of the encoder, motor and lock cables are the same.

⓫ 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)
  Nil : Without cable and driver

⓬ I/O connector

Nil	Without connector
H	With connector

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

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	○	○	—	—
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.

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Applicable Auto Switches

Applicable Cylinder Series

Auto switches												Cylinders									
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m] 0.5 Nil	1 M	3 L	5 Z	Pre-wired connector SDPC	CDJ2 ø10, ø16	CDM2 ø20 to ø40	CDG1 ø20 to ø63	CDG1 ø80, ø100	MDB ø32 to ø100	CDA2 ø40 to ø100	CDS2 ø125 to ø160	CDU ø10 to ø32	CDUK ø16 to ø32	CDQS ø12 to ø25
Reed auto switch	—	Grommet	None	2-wire	In-line	D-A90-900	—	—	●	—	—	●	●	●	—	—	●	●	●	●	●
						D-Z80-900	—	—	●	—	—	—	—	—	—	—	—	—	—	—	—
	—		Yes	3-wire (NPN equiv.)	In-line	D-E76A	●	—	●	—	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-E73A	●	—	●	—	—	—	—	—	—	—	—	—	—	—	—
			None			D-E80A	●	—	●	—	—	—	—	—	—	—	—	—	—	—	—
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●	●	—	●	●	●	●	●	●
				3-wire (PNP)		D-M9P-900	●	●	●	○	—	●	●	●	—	●	●	●	●	●	●
				2-wire		D-M9B-900	●	●	●	○	—	●	●	●	—	●	●	●	●	●	●
				3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	—	—	—	—	●	●	●	●	●	●
				3-wire (PNP)		D-M9PV-900	●	●	●	○	—	—	—	—	—	●	●	●	●	●	●
				2-wire		D-M9BV-900	●	●	●	○	—	—	—	—	—	●	●	●	●	●	●
	Diagnostic indication (2-color display)			3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	●	●	—	●	●	●	●	●	●
				3-wire (PNP)		D-M9PW-900	●	●	●	○	—	●	●	●	—	●	●	●	●	●	●
				2-wire		D-M9BW-900	●	●	●	○	○	●	●	●	—	●	●	●	●	●	●
				3-wire (NPN)	Perpendicular	D-M9NWV-900	●	●	●	○	—	—	—	—	—	●	●	●	●	●	●
				3-wire (PNP)		D-M9PWV-900	●	●	●	○	—	—	—	—	—	●	●	●	●	●	●
				2-wire		D-M9BWV-900	●	●	●	○	○	—	—	—	—	●	●	●	●	●	●
	—			3-wire (NPN)	In-line	D-Y59A-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-Y7P-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-Y59B-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (NPN)	Perpendicular	D-Y69A-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-Y7PV-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-Y69B-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
	Diagnostic indication (2-color display)			3-wire (NPN)	In-line	D-Y7NW-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-Y7PW-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-Y7BW-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (NPN)	Perpendicular	D-Y7NWV-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-Y7PWV-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-Y7BWV-900	●	●	●	○	—	—	—	—	—	—	—	—	—	—	—
	—			3-wire (NPN)	In-line	D-G59-900	●	—	●	○	—	—	—	—	●	—	●	—	—	—	—
				3-wire (PNP)		D-G5P-900	●	—	●	○	—	—	—	—	●	—	●	—	—	—	—
				2-wire		D-K59-900	●	—	●	○	—	—	—	—	●	—	●	—	—	—	—
	Diagnostic indication (2-color display)			3-wire (NPN)		D-G59W-900	●	—	●	○	—	—	—	—	●	—	●	—	—	—	—
				3-wire (PNP)		D-G5PW-900	●	—	●	○	—	—	—	—	●	—	●	—	—	—	—
				2-wire		D-K59W-900	●	—	●	○	○	—	—	—	●	—	●	—	—	—	—
	—			3-wire (NPN)	In-line	D-F79-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-F7P-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-J79-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (NPN)	Perpendicular	D-F7NV-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-F7PV-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-F7BV-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
	Diagnostic indication (2-color display)			3-wire (NPN)	In-line	D-F79W-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-F7PW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-J79W-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				3-wire (NPN)	Perpendicular	D-F7NWV-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-F7BWV-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—

∗ Solid state auto switches marked "○" 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
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWZ

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Cylinders																			
CDQ2		MY1B			MY1H		MY2H	CY3R		MXS	MXQ	MXW	MGP	MGG	CXS	CDBXW		CDBPXW
ø12 to ø100	ø125 to ø200	ø20	ø25 to ø40 ø63	ø50	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 ø32
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Applicable Rotary Actuator, Air Gripper Series

Auto switches												Rotary actuators			Air grippers							
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	MSQ	MDSUB		MHZ2	MHZL2	MHZJ2	MHL2	MHF2	MHS3	MHSJ3	MHY2
							0.5 Nil	1 M	3 L	5 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	—	—	●	—	—	●	—	—	—	—	—	—	—	—	—	—
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	—	—	●	●	●	●	●	●	●	●
				3-wire (PNP)		D-M9P-900	●	●	●	○	—	●	—	—	●	●	●	●	●	●	●	●
				2-wire		D-M9B-900	●	●	●	○	—	●	—	—	●	●	●	●	●	●	●	●
				3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	●	—	—	●	●	●	●	●	●	●	●
				3-wire (PNP)		D-M9PV-900	●	●	●	○	—	●	—	—	●	●	●	●	●	●	●	●
				2-wire		D-M9BV-900	●	●	●	○	—	●	—	—	●	●	●	●	●	●	●	●
	Diagnostic indication (2-color display)			3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	—	—	●	●	●	●	●	—	●	●
				3-wire (PNP)		D-M9PW-900	●	●	●	○	—	●	—	—	●	●	●	●	●	—	●	●
				2-wire		D-M9BW-900	●	●	●	○	○	●	—	—	●	●	●	●	●	—	●	●
				3-wire (NPN)	Perpendicular	D-M9NWV-900	●	●	●	○	—	●	—	—	●	●	●	●	●	—	●	●
				3-wire (PNP)		D-M9PWV-900	●	●	●	○	—	●	—	—	●	●	●	●	●	—	●	●
				2-wire		D-M9BWV-900	●	●	●	○	○	●	—	—	●	●	●	●	●	—	●	●
	—			3-wire (NPN)	In-line	D-Y59A-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				3-wire (PNP)		D-Y7P-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				2-wire		D-Y59B-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				3-wire (NPN)	Perpendicular	D-Y69A-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				3-wire (PNP)		D-Y7PV-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				2-wire		D-Y69B-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
	Diagnostic indication (2-color display)			3-wire (NPN)	In-line	D-Y7NW-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				3-wire (PNP)		D-Y7PW-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				2-wire		D-Y7BW-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				3-wire (NPN)	Perpendicular	D-Y7NWV-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				3-wire (PNP)		D-Y7PWV-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
				2-wire		D-Y7BWV-900	●	●	●	○	—	—	—	—	●	●	—	●	—	—	—	—
	—			3-wire (NPN)	In-line	D-S991-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
						D-S992-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-S9P1-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
						D-S9P2-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
				2-wire		D-T991-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
						D-T992-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
				3-wire (NPN)	Perpendicular	D-S99V1-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
						D-999V2-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-S9PV1-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
						D-S9PV2-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
				2-wire		D-T99V1-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
						D-T99V2-901*	●	—	●	○	—	—	●	—	—	—	—	—	—	—	—	—
				3-wire (NPN)	In-line	D-S791-901*	●	—	●	○	—	—	—	●	—	—	—	—	—	—	—	—
						D-S792-901*	●	—	●	○	—	—	—	●	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-S7P1-901*	●	—	●	○	—	—	—	●	—	—	—	—	—	—	—	—
						D-S7P2-901*	●	—	●	○	—	—	—	●	—	—	—	—	—	—	—	—
				2-wire		D-T791-901*	●	—	●	○	—	—	—	●	—	—	—	—	—	—	—	—
						D-T792-901*	●	—	●	○	—	—	—	●	—	—	—	—	—	—	—	—

∗ Solid state auto switches marked "○" are produced upon receipt of order.
∗ 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, MHL2-10 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.

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:
- 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.)

∗ 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

∗ 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.

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Applicable Electric Actuator Series

Auto switches												Electric actuators		
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m] 0.5 Nil	1 M	3 L	5 Z	Pre-wired connector SDPC	LEFS 16 to 40	LEJS 40 to 63	LEY 16 to 40
Solid state auto switch	—	Grommet	None	2-wire	In-line	**D-A90-900**	—	—	●	—	—	—	—	—
				3-wire (NPN)	In-line	**D-M9N-900**	●	●	●	○	—	●	●	●
				3-wire (PNP)		**D-M9P-900**	●	●	●	○	—	●	●	●
				2-wire		**D-M9B-900**	●	●	●	○	—	●	●	●
				3-wire (NPN)	Perpendicular	**D-M9NV-900**	●	●	●	○	—	●	●	●
				3-wire (PNP)		**D-M9PV-900**	●	●	●	○	—	●	●	●
				2-wire		**D-M9BV-900**	●	●	●	○	—	●	●	●
	Diagnostic indication (2-color display)			3-wire (NPN)	In-line	**D-M9NW-900**	●	●	●	○	—	●	●	●
				3-wire (PNP)		**D-M9PW-900**	●	●	●	○	—	●	●	●
				2-wire		**D-M9BW-900**	●	●	●	○	○	●	●	●
				3-wire (NPN)	Perpendicular	**D-M9NWV-900**	●	●	●	○	—	●	●	●
				3-wire (PNP)		**D-M9PWV-900**	●	●	●	○	—	●	●	●
				2-wire		**D-M9BWV-900**	●	●	●	○	○	●	●	●

∗ Solid state auto switches marked "○" 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

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Auto Switch Mounting

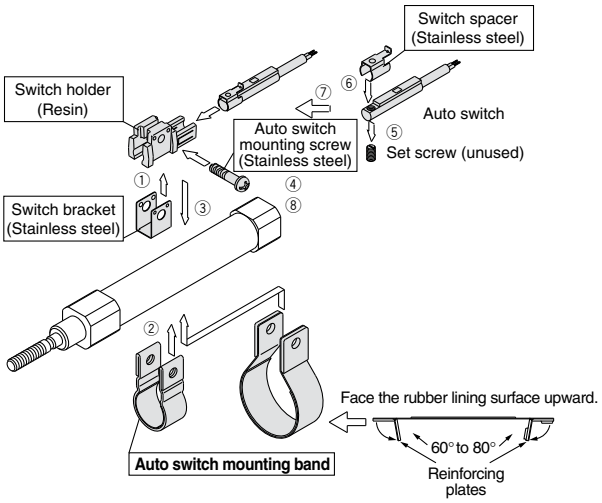
Band Mounting Style

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 series	Applicable bore size (mm)									
	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).

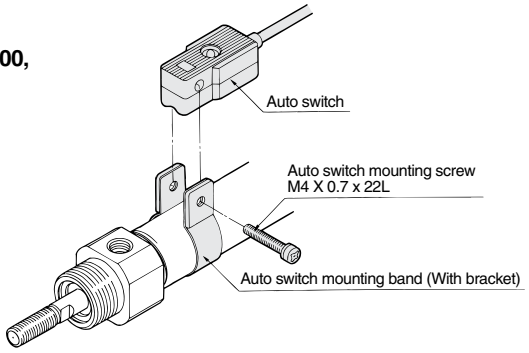


25A-BM6, 25A-BMA4

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.

Cylinder series	Applicable bore size (mm)	
	80	100
25A-CDG1	BA-08S	BA-10S

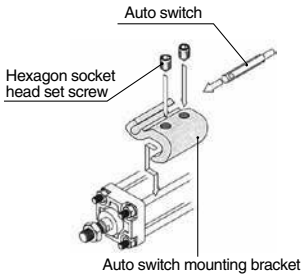


Tie-rod Mounting Style

Applicable cylinder series : 25A-MDB, 25A-CDA2, 25A-CDS2
Applicable auto switches : D-M9□-900, D-M9□V-900, D-M9□W-900, D-M9□WV-900, M9BWSDPC-900, M9BWVSDPC-900
: D-A90L-900

Auto Switch Mounting Bracket Part No.

Cylinder series	Applicable bore size (mm)								
	32	40	50	63	80	100	125	140	160
25A-MDB	90-BMB5-032	90-BMB5-032	90-BA7-040	90-BA7-040	90-BA7-063	90-BA7-063	—	—	—
25A-CDA2	—	90-BA7-040	90-BA7-040	90-BA7-063	90-BA7-080	90-BA7-080	—	—	—
25A-CDS2	—	—	—	—	—	—	25A-BS6-125	25A-BS6-125	25A-BS6-160



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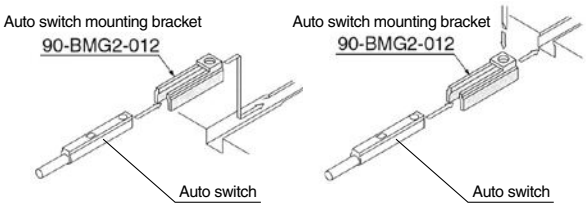
Direct Mounting Style

Applicable cylinder series : **25A-MY1B, 25A-MY1H, 25A-CY3R, 25A-MGP**
Applicable air gripper series : **25A-MHZ(L) 2, 25A-MHL2, 25A-MHS3**
Applicable auto switches : **D-M9□-900, D-M9□V-900, D-M9□W-900, D-M9□WV-900, M9BWSDPC-900, M9BWVSDPC-900**
: **D-A90L-900**



Auto Switch Mounting Bracket Part No.

Cylinder series / Air gripper series	Applicable bore size (mm)											
	10	**12**	**15**	**16**	**20**	**25**	**32**	**40**	**50**	**63**	**80**	**100**
25A-MY1B	—	—	—	—	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	90-BMG2-012	—	90-BMG2-012
25A-MY1H	—	—	—	Not required	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—	—	—
25A-CY3R	—	—	Not required	—	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—	—	—
25A-MGP	—	90-BMG2-012	—	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012
25A-MHZ2	90-BMG2-012	—	—	Note 4)	Note 4)	Note 4)	Note 4)	Note 4)	—	—	—	—
25A-MHZL2	90-BMG2-012	—	—	Note 4)	Note 4)	Note 4)	—	—	—	—	—	—
25A-MHL2	90-BMG2-012	—	—	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—	—	—
25A-MHS3	—	—	—	Not required	Not required	Not required	90-BMG2-012	—	—	—	—	—

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.

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Precautions

Be sure to read before handling.

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.

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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

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Series Compatible with Secondary Batteries

Series 25A-

Copper (Cu) and Zinc (Zn) **Free**

Compatible with a low dew point **-94°F (-70°C)**

Using grease compatible with a low dew point **Longer life**

A wide range of lineup **Number of models is expanded**

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SV-RRD-1M

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