

Series Compatible with Secondary Batteries

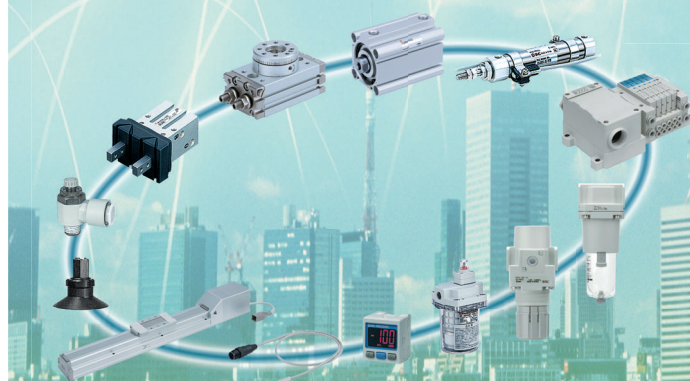
25A-Series

Copper (Cu)
and Zinc (Zn)
Restrictions

Compatible with
dew points as low as
-70°C

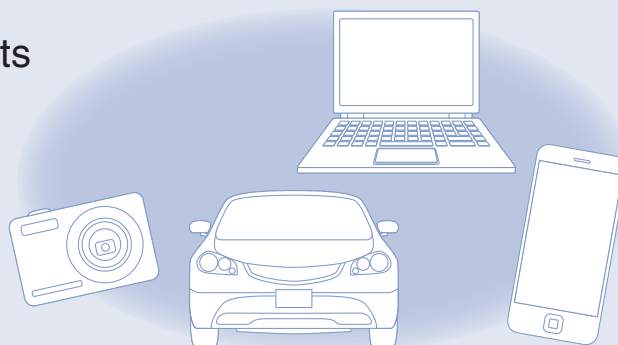
Longer life
due to use of grease
compatible with
low dew points

A wide range
of products!
Now with a
greater number
of models!



**Compatible with the various environments
of each manufacturing process**

Products compatible with the environments of the secondary battery manufacturing process are available, contributing to the improvement of productivity and reduced defects.



Series Compatible with Secondary Batteries 25A- Series

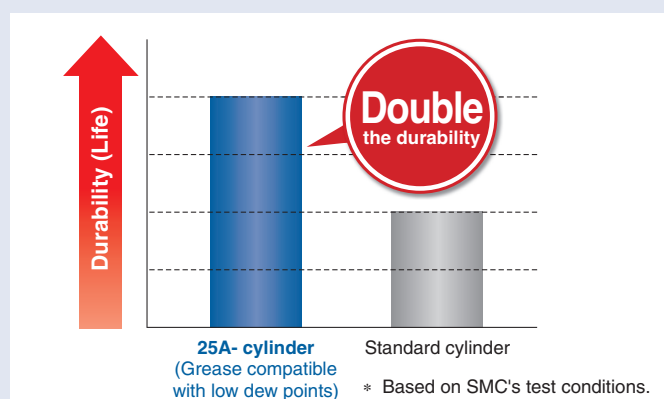


Improved performance in environments with low dew points

- Uses grease compatible with low dew points

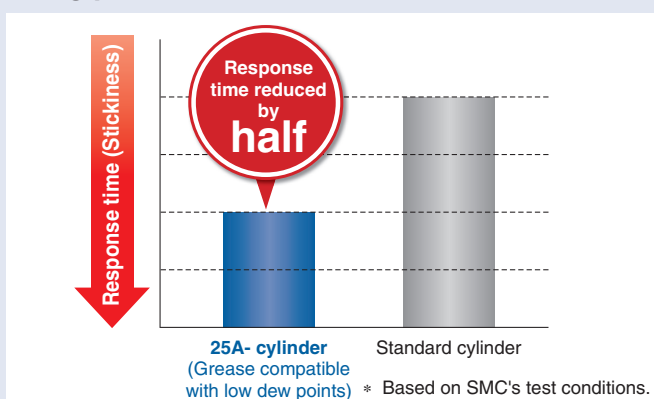
Double the durability

Durability comparison (Air cylinder)



Response time reduced by half

Comparison of cylinder response times after being pressurized and stored



Material Restrictions

The following materials are not used in order to reduce the number of defective products produced during the secondary battery manufacturing process:

- **Metal materials whose main component is either copper or zinc are not used.**
 - * Some of the Aluminium alloy and Aluminium die-cast materials contain traces of copper or zinc as an additive element. If a product with restrictions on the amounts of these additive elements is required, we can accommodate your needs via a special product. Please contact your local sales representative for further details.
- **Electrolytic nickel plating with a copper layer or zinc plating**
 - * Electroless nickel plating is used.
- **Parts of the piston rod, clevis pin, split pin, etc., of the cylinder are made of carbon steel with hard chrome plating. Therefore, as the processed parts aren't coated, an anti-rust oil coating is applied to these parts before shipment.**
 - * Rust may be generated due to the operating environment. If the generation of rust is a problem, made-to-order options using stainless steel, etc., are available. Please contact your local sales representative for further details.
- **The coils of solenoid valves, the circuit boards of electrical equipment, the motors of electric actuators, etc., use copper materials.**
 - * Parts whose materials cannot be easily changed to alternative ones and parts whose functions would be compromised by changing to alternative materials use copper and/or zinc materials. Please contact your local sales representative for further details.

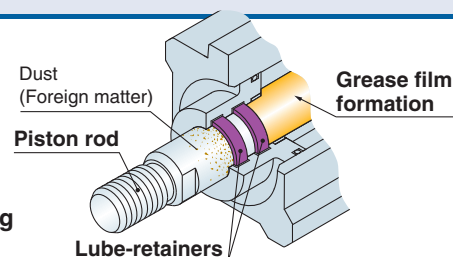
Dustproof Products

- **Durability is 4 times stronger than the standard model in micro-powder (10 to 100 μm) environments.**
(The durability test was conducted in accordance with SMC test conditions.)

Cylinder with Stable Lubrication Function (Lube-retainer)

- **Double Lube-retainer**
- **Lube-retainers are mounted at two locations to form a grease film, preventing the entry of dust and foreign matter.**

* Not compatible with the secondary battery specifications



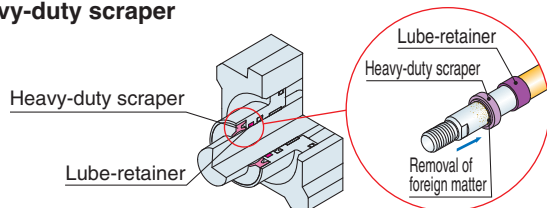
Applicable Cylinders

Air Cylinder CM2 Series \varnothing 20 to \varnothing 40	Air Cylinder CG1 Series \varnothing 20 to \varnothing 100	Air Cylinder CA2 Series \varnothing 40 to \varnothing 100	Compact Cylinder CQS Series \varnothing 20 to \varnothing 25
Compact Cylinder CQ2 Series \varnothing 32 to \varnothing 100	Air Slide Table MXQ□A Series \varnothing 6 to \varnothing 25	Compact Guide Cylinder MGP Series \varnothing 20 to \varnothing 100	Dual Rod Cylinder CXS Series \varnothing 6 to \varnothing 32

Special Products (Please contact your local sales representative for more details.)

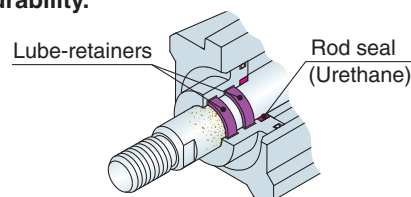
■ Lube-retainer + Heavy-duty scraper

- **Improved dust prevention due to the lube-retainer and heavy-duty scraper**



■ Double Lube-retainer + Urethane seal

- **Material of rod seal has been changed to urethane to improve durability.**



Explosion-proof Products

■ Explosion-proof Solenoid Valves

For Europe (CE marking, ATEX directive)

- Intrinsically Safe Explosion-proof System
- 5-Port Solenoid Valve/52-SY5000/7000/9000



II 2G Ex ia IIC T4...T5 Gb Ta: -10 °C to +50 °C
II 2G Ex ia IIC T6 Gb Ta: -10 °C to +45 °C

[Certification no.: DEKRA 11ATEX0273 X]

- Explosion-proof (Flameproof) 3/5-Port Solenoid Valve
- 50-VFE/VPE-X60 Series



II 2G Ex db IIC T5 Gb Ta: -10 °C TO +50 °C
II 2G Ex db IIC T6 Gb Ta: -10 °C TO +40 °C
II 2D Ex tb IIC T100 °C Db Ta: -10 °C TO +50 °C
II 2D Ex tb IIC T85 °C Db Ta: -10 °C TO +40 °C

[Certification no.: KEMA 09ATEX0024X]

For Korea (KOSHA certification)

- Explosion-proof (Flameproof) 3/5-Port Solenoid Valve
- 50-VFE/VPE-X100 Series

Ex d IIB T4

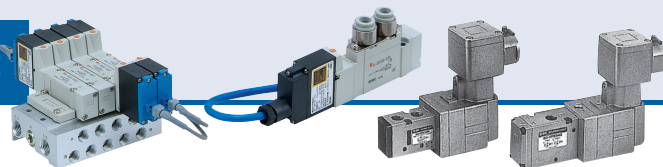
For North America (UL 913/CSA C22.2 No. 157)

- Intrinsically Safe Explosion-proof
- Pilot Operated 5-Port Solenoid Valve: 53-SY5000/7000/9000 Series

Electrical Entry TT
Hazardous Location
Class I, II, III
Division 1
Groups A, B, C, D, E, F, G

Electrical Entry L and LL
Hazardous Location
Class I
Division 1
Groups A, B, C, D

* Not compatible with the secondary battery specifications



Restrictions

Material

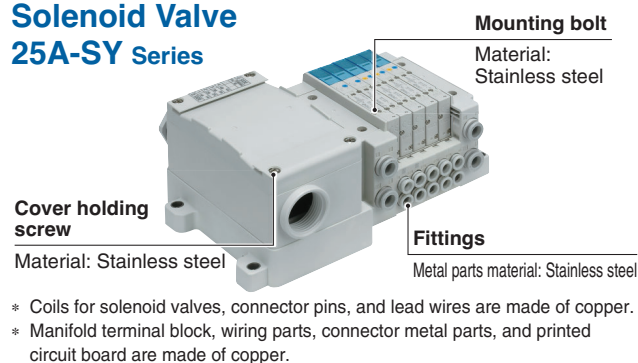
Copper (Cu)

Zinc (Zn)

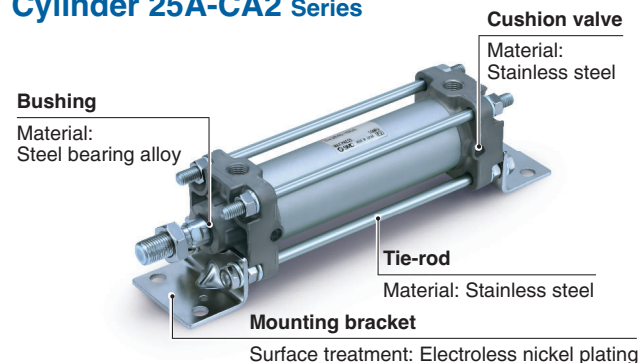
Surface treatment

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

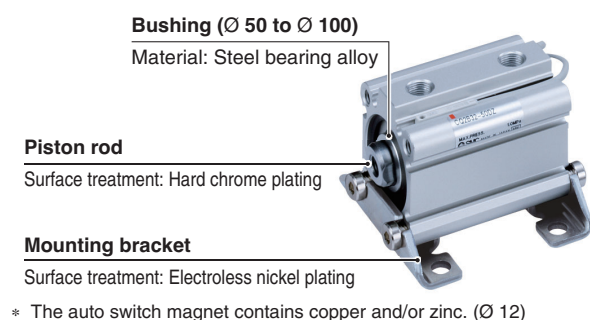
Solenoid Valve 25A-SY Series



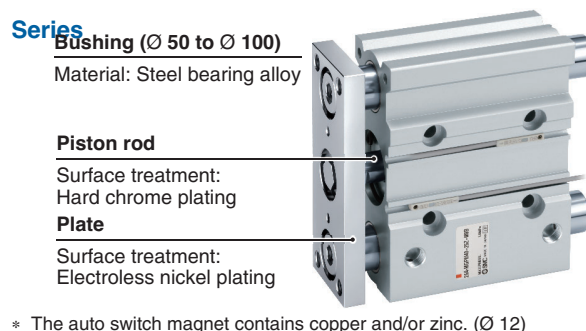
Cylinder 25A-CA2 Series



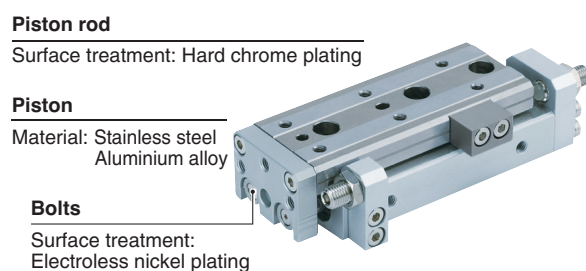
Compact Cylinder 25A-CQ2 Series



Compact Guide Cylinder 25A-MGPM Series

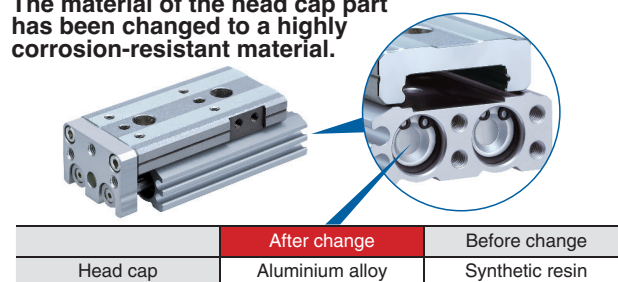


Air Slide Table 25A-MXQ Series

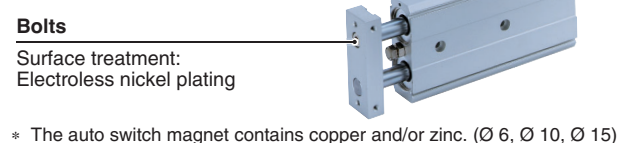


Corrosion-resistant Air Slide Table (Made to Order: 25A-MXQ□-X771, 25A-MXS□-X1949)

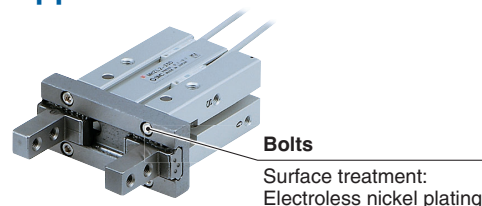
The material of the head cap part has been changed to a highly corrosion-resistant material.



Dual Rod Cylinder/Compact Type 25A-CXSJ Series



Air Gripper 25A-MH22 Series



* Cylinder mounting brackets made of steel are either electroless nickel plated, treated with RAYDENT®, or coated with electrodeposition paint.

Air Filter 25A-AF Series

Rod (AF50 to 60-D)
Material: Stainless steel

Drain plug (AF30 to 60-A, AF30 to 60-D)
Material: Stainless steel



Regulator 25A-AR Series

Valve, Stem
Material: Stainless steel

Adjusting spring, Screw
Surface treatment: Electroless nickel plating



Precision Regulator 25A-IR□-A Series

Screw
Surface treatment: Electroless nickel plating

Screws
Material: Stainless steel



Vacuum Regulator 25A-IRV Series

Stem, Valve, Screws
Material: Stainless steel

Seal, O-ring
Material: EPDM

Fittings
Metal material: Stainless steel



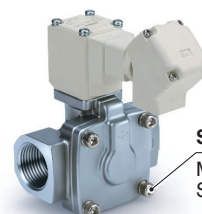
3-Colour Display High-Precision Digital Pressure Switch ZSE20□(F)/SE20□ Series



Port thread
Material: Stainless steel

* A copper material is used for the lead wires.

Pilot Operated 2-Port Solenoid Valve 25A-VXD Series



Screw
Material: Stainless steel

* A copper material is used for the solenoid coils and lead wires.

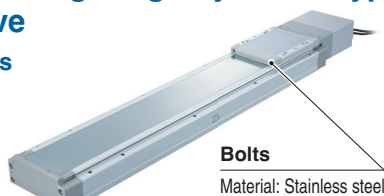
Solid State Auto Switch D-M9□-900 Series

Mounting screw
Material: Stainless steel



* A copper material is used for the lead wires.

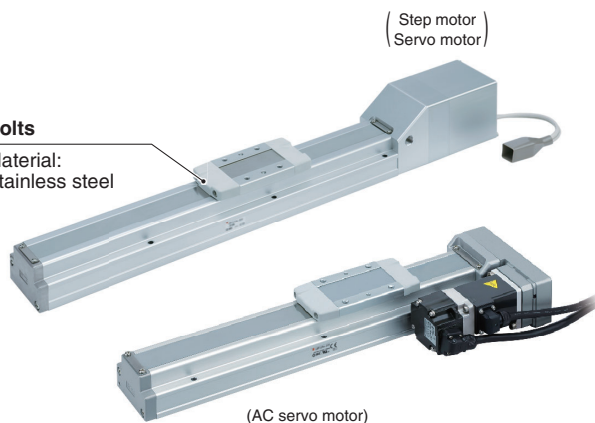
Electric Actuator/High Rigidity Slider Type Ball Screw Drive 25A-LEJS Series



Bolts
Material: Stainless steel

* Copper and zinc materials are used for the motors, cables, controllers/drivers.
* The motor magnet contains copper and/or zinc.

Electric Actuator/Slider Type Ball Screw Drive 25A-LEFS Series



Bolts
Material: Stainless steel

* Copper and zinc materials are used for the motors, cables, controllers/drivers.
* The motor magnet contains copper and/or zinc.

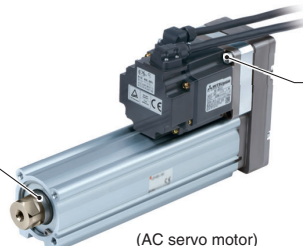
Electric Actuator/Rod Type 25A-LEY Series

Bushing
Material: Steel bearing alloy

Bolts
Material: Stainless steel

Bushing
Material: Steel bearing alloy

Bolts
Material: Stainless steel



* Copper and zinc materials are used for the motors, cables, controllers/drivers. * The motor magnet contains copper and/or zinc.

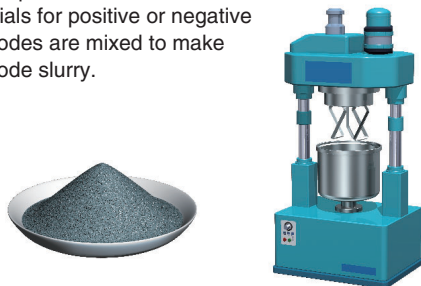
Secondary Battery Manufacturing Process

Electrode Production Process

Same for both can types and laminate types

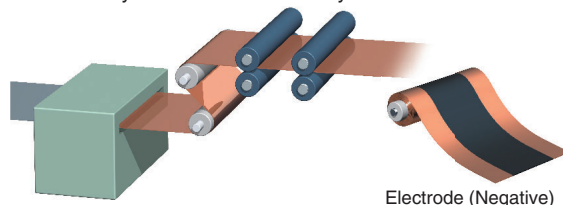
① Mixing and kneading machine

The proper amount of raw materials for positive or negative electrodes are mixed to make electrode slurry.



② Coating and rolling

Positive or negative electrode slurry is coated with a metallic foil made from Aluminium, copper, etc. The coated slurry is then compressed with rollers continuously to enhance the density of the electrode sheet.



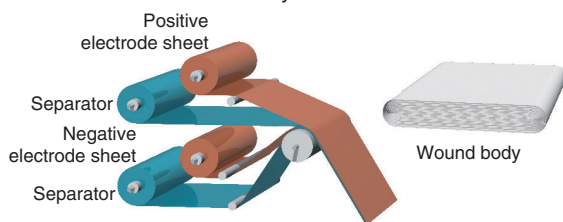
Electrode (Negative)

Cell Assembly Process

Can type

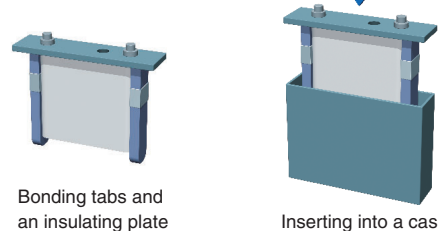
④ Winder (Winding)

The positive electrode sheet, negative electrode sheet, and separator sheets are laid on top of each other and wound to form a wound body.



⑤ Attaching tabs and an insulating plate and inserting into a case

Current collecting tabs and an insulating plate are bonded to the wound body. It is then inserted into a case.



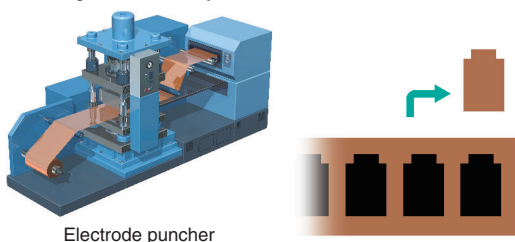
Bonding tabs and an insulating plate

Inserting into a case

Laminate type

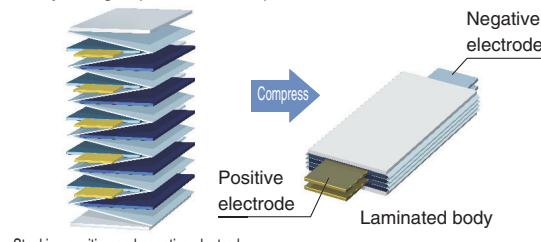
④ Punching electrodes

The rolled positive and negative electrodes are punched according to the battery size.



⑤ Stacking (Layering)

Positive and negative electrodes are stacked alternately and accurately at high speed with a separator inserted between them.



Stacking positive and negative electrodes

Laminated body

Inspection/Packaging Process

Same for both can types and laminate types

⑧ Charging/discharging and aging

Standard products are applicable.

Charging and discharging are repeated to activate batteries. Charged battery cells are then left for a certain period of time, and the initial deterioration of batteries is checked to detect defective products.



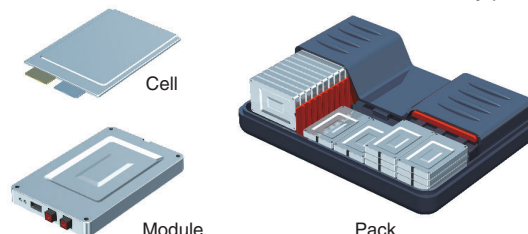
Activation of batteries

Aging

⑨ Packaging

Standard products are applicable.

Connected multiple cells are enclosed in a metallic case, and terminals are attached to form a module. Then, the connected multiple modules with a sensor and a controller are enclosed in a case to form a battery pack.



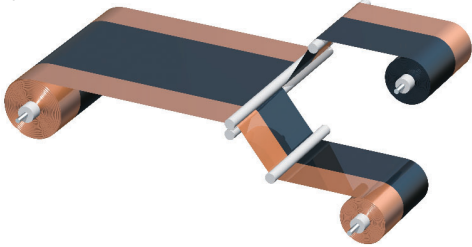
Cell

Module

Pack

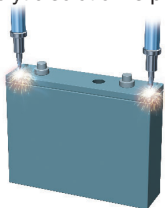
3 Slitting

The electrode sheet and separator are cut to the cell width.

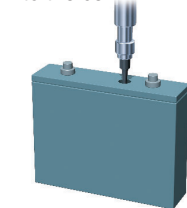


6 Welding cell lid and pouring electrolytic solution

The electrode and lid are laser-welded, and then the entire periphery of the cell case and lid is welded. Electrolytic solution is poured into the cell.



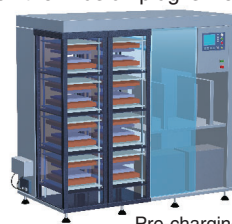
Welding cell lid



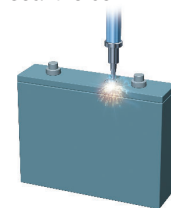
Pouring electrolytic solution

7 Pre-charging and welding infusion plug

Pre-charging (formation charging) is performed to remove the gas generated in the initial charging process, and then the infusion plug is welded to seal the cell.



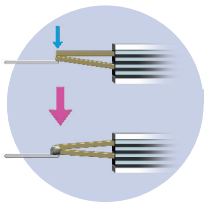
Pre-charging



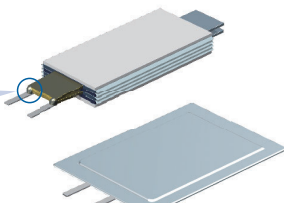
Welding infusion plug

6 Tab welding and lamination

Current collecting tabs are welded to the laminated body. The laminated body is wrapped with armoring material.



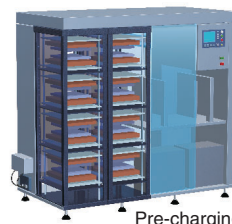
Tab welding



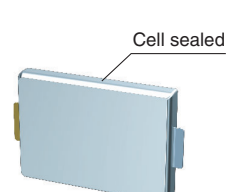
Lamination

7 Pre-charging and sealing cell

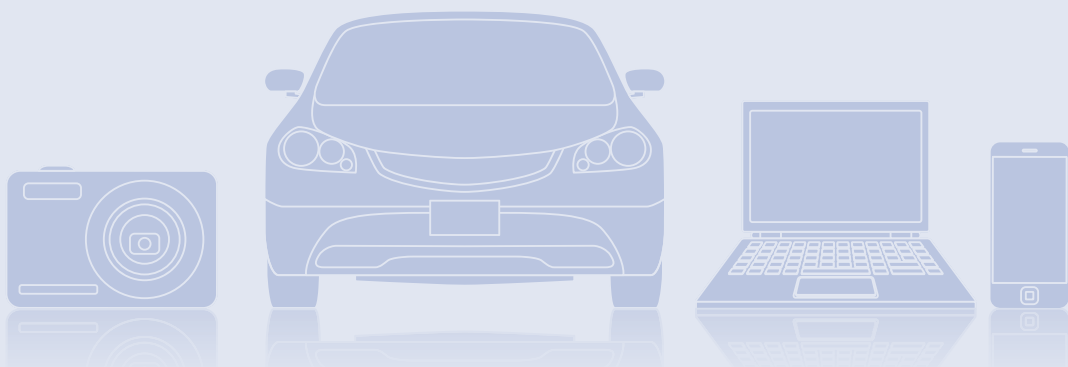
Pre-charging (formation charging) is performed to remove the gas generated in the initial charging process, and then heat is applied to seal the cell.




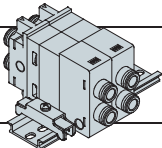
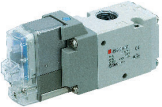







Pre-charging



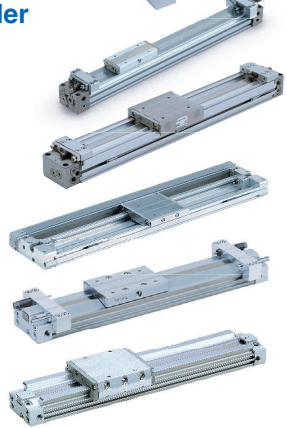
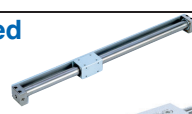

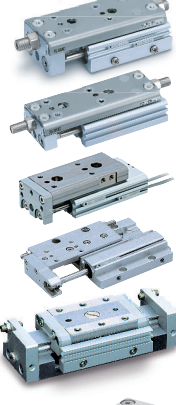


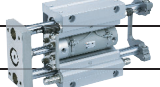


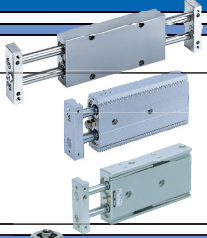

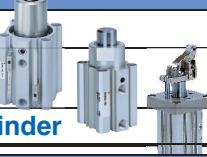





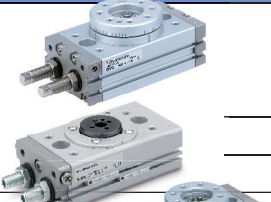

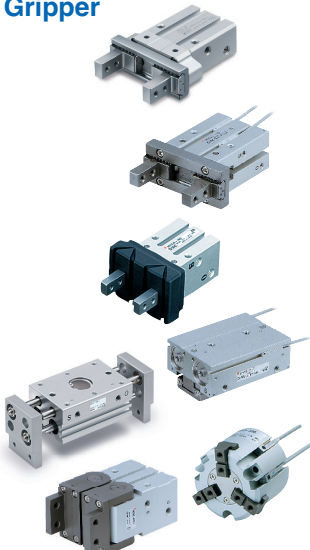
Sealing cell






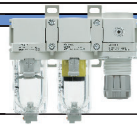


25A- Series Applicable Products

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		25A-MXQ□ (Recirculating linear guide/Height interchangeable type)	142
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		25A-MXF (Cross roller guide)	144
		25A-MXW (Recirculating linear guide)	145
		25A-MXP (Recirculating linear guide)	146
Guide Cylinders	Miniature Guide Rod Cylinder 	25A-MGJ	146-1
	Compact Guide Cylinder 	25A-MGPM (Slide bearing)	147
		25A-MGPL (Ball bushing bearing)	147
		25A-MGPM (Slide bearing, Air cushion type)	148
		25A-MGPL (Ball bushing bearing, Air cushion type)	148
		25A-MGPK	148-1
	Guide Cylinder 	25A-MGGL (Ball bushing bearing)	152









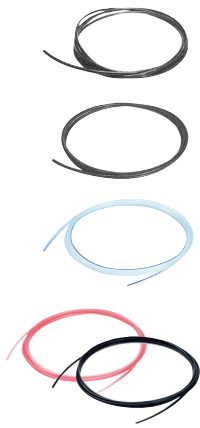

Description		25A- Series	
		Model (Type)	Page
Guide Cylinders	Slide Unit Dual Rod Cylinder 	25A-CXWM (Slide bearing)	149
		25A-CXSJM (Slide bearing)	150
		25A-CXSJL (Ball bushing bearing)	150
		25A-CXSM (Slide bearing)	151
		25A-CXSL (Ball bushing bearing)	151
Clamp/ Stopper Cylinders	Rotary Clamp Cylinder Stopper Cylinder/ Fixed Mounting Height Heavy Duty Stopper Cylinder 	25A-MK (Standard)	153
		25A-RSQ (Standard)	154
		25A-RSH (Standard)	155
ISO Cylinders	(ISO Standards) Air Cylinder 	25A-C85 (Standard) (ISO Standard (6432))	155-1
		25A-CP96 (Standard) (ISO Standard (15552))	155-2
		25A-C96 (Standard) (ISO Standard (15552))	155-3
		25A-C95 (Standard) (ISO Standard (15552))	155-4
	(ISO Standards) Compact Cylinder 	25A-C55 (Standard) ISO Standard (21287)	155-5
Related Products	Shock Absorber 	25A-RJ (Soft type)	156
		25A-RJ (Short stroke type)	157
		25A-RB (Standard)	158
		25A-RBC (Standard)	158
	Floating Joint 	25A-JA (Standard/80, 100 only)	159
		25A-JB (For compact cylinders)	159
		25A-JS (Stainless steel type)	159
	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 type)	160
		25A-MSQ (Rack & Pinion type)	160-1
		25A-MSQ-X251 (Rack & Pinion type, With vacuum port)	160-1
		25A-MSQA, MSQB (Rack & Pinion type)	161
		25A-MSQA, MSQB-X251 (Rack & Pinion type, With vacuum port)	161
	3-Position Rotary Table 	25A-MSZA (High precision type)	163
		25A-MSZB (Basic type)	163
Air Grippers	Parallel Type Air Gripper 	25A-JMHZ2 (Compact type)	164
		25A-JMHZ2-X6900(A, B) (With positioning pins on the lateral mounting surface)	164
		25A-JMHZ2-X7460 (Lateral auto switch mounting)	164
		25A-MHZ2 (Standard)	165
		25A-MHZL2 (Long stroke)	166
		25A-MHZJ2 (With dust cover)	167
		25A-MHZJ2-X6100 (With dust cover)	167
		25A-MHZL2-X5955 (Long stroke, With dust cover)	167
		25A-MHF2 (Low profile type)	168
		25A-MHL2-Z (Wide type)	169
		25A-MHL2 (Wide type)	169
		25A-MHS□ (3-finger, 4-finger)	170
		25A-MHSJ3 (3-finger, With dust cover)	171
		25A-MHY2 (180° Angular type, Cam type)	172
		25A-MHW2 (180° Angular type, Rack & Pinion type)	173

*1 Standard products: Standard products are copper (Cu) and zinc (Zn) free. Refer to the **Web Catalogue** for details.



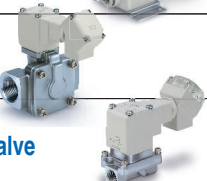





Description		25A- Series		
		Model (Type)	Page	
Vacuum Equipment		Vacuum Ejector	25A-ZK2□A (Vacuum unit) Single unit only	175
		Space Saving Vacuum Ejector	25A-ZQ□A (Ejector system) Single unit/Manifold	180-1
			25A-ZQ□A (Vacuum pump system) Single unit/Manifold	180-4
			25A-ZQ (Ejector unit) Single unit/Manifold	181
			25A-ZQ (Vacuum pump unit) Single unit/Manifold	185
			ZH□□DA (Body ported) (Only the models without connection threads)	*1
			ZH□□BA (Box type) (Only the models without connection threads)	*1
	In-line Type Vacuum Ejector	ZU□□A (In-line type) (Only the models without connection threads)	*1	
	In-line Air Filter	ZFC (With One-touch fittings)	*1	
	Vacuum Pad	ZP (Pad only)	*1	
	ZPS (With stainless steel adapter)	*1		
Vacuum Regulator	25A-IRV	189		
Adsorption Plate	SP	*1		
Air Preparation Equipment		Membrane Air Dryer	25A-IDG (Single unit/Standard dew point -40 °C/-60 °C specifications)	190
		Air Preparation Filter	25A-AFF (Main line filter)	192
			25A-AM (Mist separator)	193
			25A-AMD (Micro mist separator)	194
			25A-AMH (Micro mist separator with pre-filter)	195
Clean Air Filters		Clean Air Filter	SFD100	*1
			SFD200	*1
			25A-AMP (Exhaust cleaner for clean room)	196
			SFE (Clean exhaust filter)	*1
Modular F.R.L./ Pressure Control Equipment		Modular F.R.L. Units	25A-AC□B-D, AC□C-D, AC□D-D	*2
			25A-AC□B-B, AC□C-B, AC□D-B	*2
		Air Filter Separator	25A-AF-D (Air filter)	197
			25A-AFM-D (Mist separator)	199
			25A-AFD-D (Micro mist separator)	199
			25A-AF-A (Air filter)	198
			25A-AFM-A (Mist separator)	200
			25A-AFD-A (Micro mist separator)	200
		Regulator	25A-AR-D (Regulator)	201
			25A-AR□K-D (Regulator with backflow function)	201
			25A-AW-D (Filter regulator)	203
			25A-AW□K-D (Filter regulator with backflow function)	203
			25A-AWM-D (Mist separator regulator)	205
			25A-AWD-D (Micro mist separator regulator)	205
			25A-AR-B (Regulator)	202
			25A-AR□K-B (Regulator with backflow function)	202
			25A-AW-B (Filter regulator)	204
			25A-AW□K-B (Filter regulator with backflow function)	204
			25A-IR□-A (Precision regulator)	206
			25A-ITV (Electro-pneumatic regulator)	207

*1 Standard products: For the standard model, copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Refer to the **Web Catalogue** for details.

*2 Available as simple specials. Please contact your local sales representative for more details.

Description		25A- Series	
		Model (Type)	Page
Modular FR./L/ Pressure Control Equipment	Booster Regulator 	25A-VBA*4	208
	Pressure Gauge 	G43-10-01-X300 (Stud, Bourdon tube, Internal parts: Stainless steel)	*2
		G46-SRB (Only external parts and wetted parts are made of stainless steel.)	*3
Flow Control Equipment/Fittings	Stainless Steel Speed Controller 	AS-FG (Elbow/Universal/In-line type)	*1
	Speed Controller with Indicator 	AS-FSG (Elbow type)	*1
		AS-FPG (Elbow type)	*1
	Quick Exhaust Valve 	25A-AQ240F, 340F (Built-in One-touch fittings)	210
	Check Valve 	25A-AKH (With One-touch fittings)	211
	One-touch Fittings 	KQ2 (One-touch fittings) (Only the type without a connection thread)	*1
	Rectangular Multi-connector	25A-KDM (Rectangular multi-connector)	212
	Stainless Steel Fittings 	KG (One-touch fittings)	*1
		KPG (One-touch fittings)	*1
		KQG2 (One-touch fittings)	*1
		KQ2-G (Stainless steel)	*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 tube)	*1
Detection Switches	Pressure Switch 	25A-ZSE20(F)/ISE20 (3-screen display high-precision)	213
		25A-ZSE20A(F)/ISE20A (3-screen display high-precision)	214
		25A-ZSE20B(F)/ISE20B (3-screen display high-precision)	215
		25A-ZSE20C(F)/ISE20C(H) (3-screen display high-precision, for general fluids)	216

- *1 Standard products: For the standard model, copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Refer to the **Web Catalogue** for details.
- *2 Copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Please contact your local sales representative for more details.
- *3 Standard products: Aside from the external parts and wetted parts, copper (Cu) and zinc (Zn) are used as main components in the metal materials. Refer to the **Web Catalogue** for details.
- *4 Pressure gauge mounting: The G43-10-01-X300/G46-SRB pressure gauge cannot be mounted directly to the booster regulator as it will interfere with the booster regulator (25A-VBA10A) handle or the other pressure gauge (for the 25A-VBA20A/40A). In order to mount the pressure gauge, piping which does not cause any interference must be prepared separately.

Description		25A- Series	
		Model (Type)	Page
Detection Switches	Flow Switch 	25A-PF2M7 (For air, Integrated display type)	217
		25A-PFM7 (For air, Integrated display type)	218
		25A-PFM5 (For air, Remote type)	219
		25A-PFM3 (For air, Flow monitor)	220
		25A-PFMB7 (For air, Integrated display type)	221
		25A-PF3W7-Z (For water, Integrated display type)	223
		25A-PF3W5-Z (For water, Remote type)	224
		25A-PF3W (For water, Integrated display/Remote type)	225
		25A-PF3W (PVC piping, Integrated display/Remote type)	226
		25A-PF3W (For water, Flow monitor)	227
Fluid Control Equipment	Direct Operated 2-Port Solenoid Valve 	25A-VX2 (For air)	229
		25A-VX2 (For water/medium vacuum)	230
	Pilot Operated 2-Port Solenoid Valve 	25A-VXD (For air)	231
		25A-VXD (For water)	232
	Zero Differential Pressure Type Pilot Operated 2-Port Solenoid Valve 	25A-VXZ (For air)	233
		25A-VXZ (For water)	234
Process Gas Equipment	Diaphragm Valve for Ultra High Purity 	AZ3542 & 4542□25A (Air operated type)	235
		AK3542 & 4542□25A (Air operated type)	237
Electric Actuators	Electric Actuator 	25A-LEFS (Slider type/Step motor, Servo motor: Applicable to the JXC□/LEC□)	239
		25A-LEFS (Slider type/AC servo motor: Applicable to the LECS□)	243
		25A-LEFS (Slider type/AC servo motor: Applicable to the LECY□)	244
		25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECS□)	245
		25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECY□)	246
		25A-LEY (Rod type/Step motor, Servo motor: Applicable to the JXC□/LEC□)	247
		25A-LEY (Rod type/AC servo motor: Applicable to the LECS□)	251
		25A-LEY (Rod type/AC servo motor: Applicable to the LECY□)	253
Auto Switches	Solid State Auto Switch 	D-M9□□-900	255 and onward
		D-F8□-900	
		D-Y□□-900	
		D-G59, G5P, K59-900	
		D-F79, F7P, J79-900	
		D-F7□V-900	
	Reed Auto Switch 	D-A90-900	255 and onward
		D-Z80-900	
		D-E73A, E76A, E80A	

25A- series grease pack*1 applicable models

*1 Air cylinders (Except guide unit). For other models, please contact your local sales representative.

Grease pack part no.	Quantity
GR-D-005	5 g
GR-D-010	10 g
GR-D-100	100 g

Contained in a plastic container.

Special Products (Please contact your local sales representative for more details.)

Description		Model (Type)
Directional Control Valves	3-Port Solenoid Valve/ Residual Pressure Release Valve with Detection of Main Valve Position <small>(Safety Standard ISO 13849-1 Certified)</small> 	VG342-X87
Air Cylinders	Air Cylinder With End Lock 	CBM2
		MBB
	Cylinder with Lock 	CNG□N
		CNA2□N
	Compact Cylinder with Lock 	CLQ
	Stopper Cylinder 	RSQ
	Heavy Duty Stopper Cylinder 	RS2H
Vacuum Equipment	Vacuum Pad 	ZP□
	Non-contact Gripper 	XT661
	Vacuum Regulator 	IRV (Standard)
High Vacuum Equipment	Aluminium High Vacuum Angle Valve 	XLA (Normally closed)
		XLC (Double acting)

Related Products

Consult with SMC for "Copper (Cu) and Zinc (Zn) Restrictions" 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) *CM2-X1051 Series*

Vacuum Equipment · Vacuum Pad *ZP Series*

Fittings and Tubing

- Antistatic One-touch Fittings *KA Series*
- Miniature Fittings/Stainless Steel 316 *MS Series* (Some types only)
- Miniature Fittings *M Series* (Some types only)
- Antistatic Tubing *TA□ Series*

Flow Control Equipment

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



2 Static Neutralization Equipment

Static electricity

Ions generated by corona discharge neutralize static electricity.

- Ionizer/Bar Type *IZS4□ Series*
- Bar Type Ionizer **Separate Controller** *IZT4□ Series*
- Ionizer *IZS31 Series*
- Nozzle Type Ionizer *IZN10E Series*
- Fan Type Ionizer *IZF□ Series*

Measurement Equipment Measures the electrostatic potential.

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



3 Temperature Control Equipment

- Thermo-chiller/Standard Type *HRS Series*



4 Electric Actuators

- Electric Actuator/Slider Type *LEFB Series*
- Electric Actuator/Low Profile Slider Type *LEM Series*
- Electric Actuator/Guide Rod Slider *LEL Series*
- Electric Slide Table *LES Series*
- Electric Actuator/Miniature Rod Type /Miniature Slide Table Type *LEPY/LEPS Series*
- Electric Rotary Table *LER Series*
- Electric Gripper *LEH□ Series*
- Motorless Type Electric Actuator *LE□ Series*



5 High Purity Chemical Liquid Valves

- High Purity Chemical Liquid Valve/Air Operated Type *LVC/LVA/LVH Series*



Plug-in Connector Connecting Base

D-sub Connector

Type 10
Side Ported

25A-JSY1000/3000 Series



Internal Pilot

How to Order Manifolds

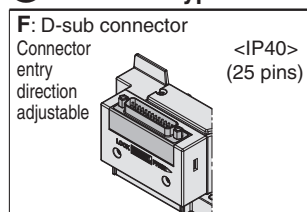
25A-JJ5SY **3** - **10** **F** **1** - **05** **D** **□** - **C6** **□**

Series compatible with secondary batteries

1 Series

1	JSY1000
3	JSY3000

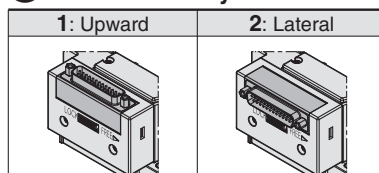
3 Connector type



2 Type

10	Side ported
----	-------------

4 Connector entry direction



5 Valve stations

F: D-sub connector (25 pins)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
12	12 stations	Specified layout*2 (Up to 16 solenoids available)
02	2 stations	
⋮	⋮	
16	16 stations	

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

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

* This also includes the number of blanking plates.

6 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)

7 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

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

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

Symbol	A, B port	JSY1000	JSY3000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	—	●
CM*1	Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)		Ø 8	Ø 10

*1 Indicate the sizes on the manifold specification sheet for "CM."

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

9 Mounting and Option

Symbol	Mounting
—	Direct mounting
D□	DIN rail mounting

DIN Rail Option

—	DIN rail mounting (With DIN rail)
0	DIN rail mounting (Without DIN rail)
3	For 3 stations
⋮	⋮
16	For 16 stations

* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown above.)

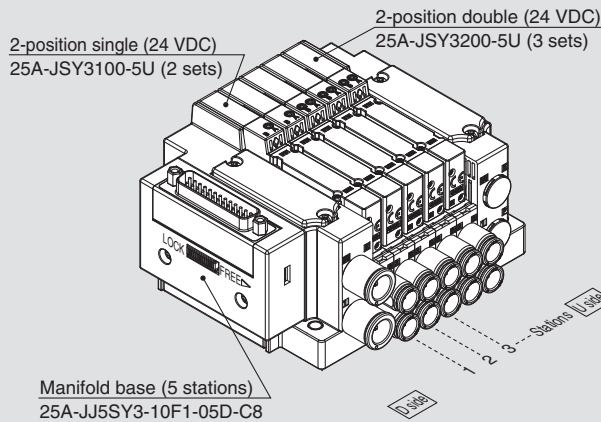
* Refer to the **Web Catalogue** for details on securing the DIN rail mounting type manifold.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Manifold Assembly

Example (25A-JJ5SY3-10F1-□)



25A-JJ5SY3-10F1-05D-C8 ...1 set (Type 10 5-station manifold base part no.)
 * 25A-JSY3100-5U 2 sets (2-position single part no.)
 * 25A-JSY3200-5U 3 sets (2-position double part no.)

→ The asterisk denotes the symbol for the assembly.
 Prefix it to the part numbers of the valve, etc.

- For the valve arrangement, the valve closest to the D side is considered the 1st station.
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the [Web Catalogue](#) for valve specifications.

25A-JSY1000 Series

25A-JSY 1 1 0 0 T-5 Z

25A-JSY3000 Series

25A-JSY 3 1 0 0 -5 Z

Series compatible with secondary batteries

With power-saving circuit



Made to Order

Specification

With power-saving circuit
 (Continuous duty type):
 0.1 W (JSY3000)

Base mounted

1 Series

1	JSY1000
3	JSY3000

3 Pilot valve exhaust method

0	Pilot valve individual exhaust
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4 Rated voltage

5	24 VDC
---	--------

2 Type of actuation

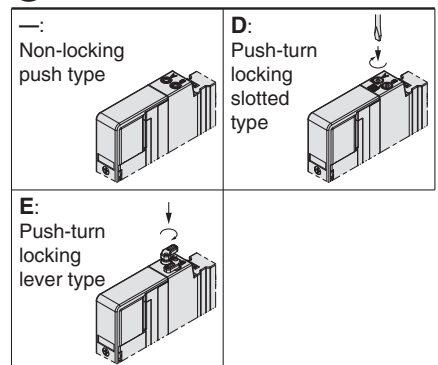
1	2-position	Single
2		Double
3	3-position	Closed centre
4		Exhaust centre
5		Pressure centre
A	4-position dual 3-port	N.C./N.C.
B		N.O./N.O.
C		N.C./N.O.

5 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
U	●	●	Non-polar
Z	●	●	Positive common
NZ	●	●	Negative common

- * Only "Z" and "NZ" types are available for the JSY1000 series.
- * When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to the [Web Catalogue](#).

6 Manual override



* Push-turn locking lever type "E" is not available for the JSY1000.

- * **When ordering a valve individually, the base gasket is not included.**
 Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to the [Web Catalogue](#) for base gasket part numbers. Refer to page 24 for mounting screw part numbers.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalogue](#).

Protective class class III (Mark: ⚡)

⚠ Caution

If the JSY3000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order."
 For the JSY1000 series, only the power-saving circuit specification is available.

Plug-in Connector Connecting Base

Terminal Block Box

Type 10
Side Ported

25A-JSY1000/3000 Series



Internal Pilot

How to Order Manifolds

25A-JJ5SY 3 - 10 T - 05 D - C6

1 2 3 4 5 6 7 8

Series compatible with
secondary batteries

1 Series

1	JSY1000
3	JSY3000

2 Type

10	Side ported
----	-------------

3 Wiring

T	Terminal block box
---	--------------------

4 Valve stations

T: Terminal block box

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
10	10 stations	
02	2 stations	Specified layout*2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

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

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

*3 This also includes the number of blanking plates.

5 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)

6 SUP/EXH block assembly

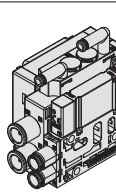
—	Internal pilot
S	Internal pilot, Built-in silencer

* The 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 into direct contact with water or other liquids.

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

Symbol	A, B port	JSY1000	JSY3000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	—	●
CM*1	Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)		Ø 8	Ø 10



*1 Indicate the sizes on the manifold specification sheet for "CM."

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

8 Mounting and Option

Symbol	Mounting
—	Direct mounting
D□	DIN rail mounting

* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)

* Refer to the **Web Catalogue** for details on securing the DIN rail mounting type manifold.

DIN Rail Option

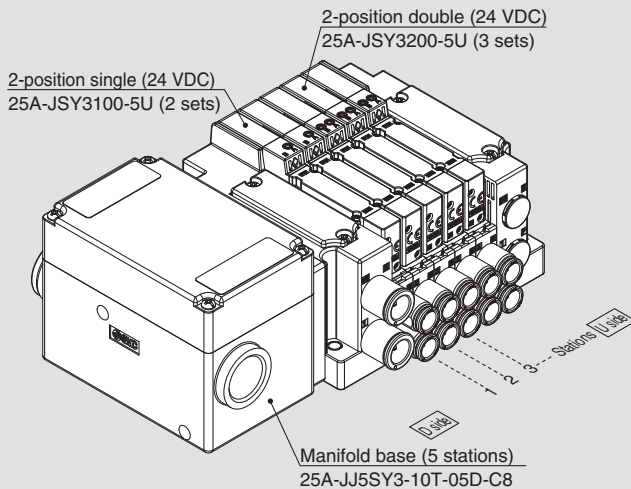
—	DIN rail mounting (With DIN rail)	
0	DIN rail mounting (Without DIN rail)	
3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
16	For 16 stations	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Manifold Assembly

Example (25A-JJ5SY3-10T-□)



25A-JJ5SY3-10T-05D-C8 1 set (Type 10 5-station manifold base part no.)
 * 25A-JSY3100-5U 2 sets (2-position single part no.)
 * 25A-JSY3200-5U 3 sets (2-position double part no.)

→ The asterisk denotes the symbol for the assembly.
 Prefix it to the part numbers of the valve, etc.

- For the valve arrangement, the valve closest to the D side is considered the 1st station.
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the **Web Catalogue** for valve specifications.

25A-JSY1000 Series

25A-JSY3000 Series

Series compatible with secondary batteries

25A-JSY 1 1 0 0 T - 5 Z □

25A-JSY 3 1 0 0 - 5 Z □

1 2 3 4 5 6

With power-saving circuit

Base mounted



Made to Order

Specification

With power-saving circuit
 (Continuous duty type):
 0.1 W (JSY3000)

1 Series

1	JSY1000
3	JSY3000

3 Pilot valve exhaust method

0	Pilot valve individual exhaust
---	--------------------------------

4 Rated voltage

5	24 VDC
---	--------

2 Type of actuation

1	2-position	Single
2		Double
3	3-position	Closed centre
4		Exhaust centre
5		Pressure centre
A	4-position dual 3-port	N.C./N.C.
B		N.O./N.O.
C		N.C./N.O.

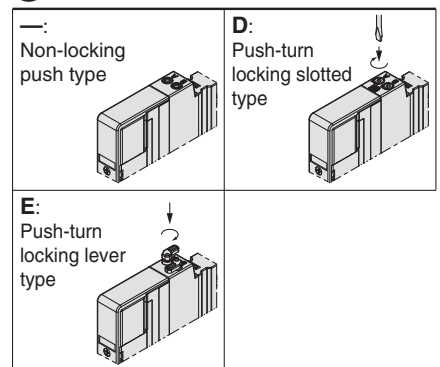
5 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
U			Non-polar
Z	●	●	Positive common
NZ			Negative common

* Only "Z" and "NZ" types are available for the JSY1000 series.

* When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to the **Web Catalogue**.

6 Manual override



* Push-turn locking lever type "E" is not available for the JSY1000.

* **When ordering a valve individually, the base gasket is not included.**
 Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance.

Refer to the **Web Catalogue** for base gasket part numbers.
 Refer to page 24 for mounting screw part numbers.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Protective class class III (Mark: ⚡)

⚠ Caution

If the JSY3000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order."
 For the JSY1000 series, only the power-saving circuit specification is available.

Plug-in Connector Connecting Base

EX260

Type 10
Side Ported

25A-JSY1000/3000 Series



Internal Pilot

How to Order Manifolds

25A-JJ5SY 3-10 S QA-05 D - C6

Series compatible with secondary batteries

1 Series

1	JSY1000
3	JSY3000

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

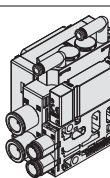
Symbol (Output polarity)		Protocol	Number of outputs	Communication connector
Positive common (NPN)	Negative common (PNP)			
0*1		Without SI unit		
QA	QAN	DeviceNet™	32	M12
QB	QBN		16	
NA	NAN	PROFIBUS DP	32	M12
NB	NBN		16	
VA	VAN	CC-Link	32	M12
VB	VBN		16	
DA	DAN	EtherCAT	32	M12
DB	DBN		16	
FA	FAN	PROFINET	32	M12
FB	FBN		16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	

*1 Without SI unit, the output polarity is decided by the SI unit used. Ensure a match with the common specification of the valves to be used.

* DIN rail cannot be mounted without SI unit.

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

Symbol	A, B port		JSY1000	JSY3000
C4	Straight	Ø 4	●	—
C6		Ø 6	●	●
C8		Ø 8	—	●
CM*1		Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)			Ø 8	Ø 10



*1 Indicate the sizes on the manifold specification sheet for "CM."

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

2 Type

10	Side ported
----	-------------

5 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)

6 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

* The 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 into direct contact with water or other liquids.

4 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
16	16 stations	

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
08	8 stations	
02	2 stations	Specified layout*2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

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

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

* This also includes the number of blanking plates.

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

8 Mounting and Option

Symbol	Mounting
—	Direct mounting
D□	DIN rail mounting

* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)

* Refer to the **Web Catalogue** for details on securing the DIN rail mounting type manifold.

* DIN rail mounting (D□) is not available for the product without the SI unit (S0).

DIN Rail Option

—	DIN rail mounting (With DIN rail)	
0	DIN rail mounting (Without DIN rail)	
3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
16	For 16 stations	

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

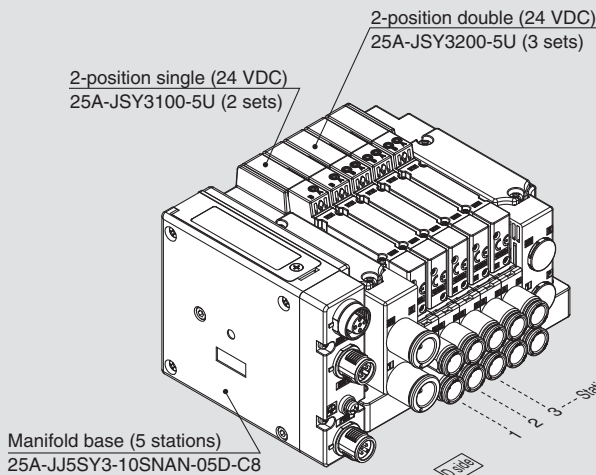
* The 25A-series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

For details on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalogue** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to the **Web Catalogue**. Please download the Operation Manual via the SMC website: <https://www.smc.eu>

How to Order Manifold Assembly

Example (25A-JJ5SY3-10SNAN-□)



25A-JJ5SY3-10SNAN-05D-C8...1 set (Type 10 5-station manifold base part no.)
 * 25A-JSY3100-5U 2 sets (2-position single part no.)
 * 25A-JSY3200-5U 3 sets (2-position double part no.)

→ The asterisk denotes the symbol for the assembly.
 Prefix it to the part numbers of the valve, etc.

- For the valve arrangement, the valve closest to the D side is considered the 1st station.
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the [Web Catalogue](#) for valve specifications.

25A-JSY1000 Series

25A-JSY3000 Series

25A-JSY 1 1 0 0 T - 5 Z □
 25A-JSY 3 1 0 0 - 5 Z □

1 2 3 4 5 6

With power-saving circuit

Base mounted



Made to Order

Specification

With power-saving circuit
 (Continuous duty type):
 0.1 W (JSY3000)

Series compatible with
 secondary batteries

1 Series

1	JSY1000
3	JSY3000

3 Pilot valve exhaust method

0	Pilot valve individual exhaust
---	--------------------------------

4 Rated voltage

5	24 VDC
---	--------

2 Type of actuation

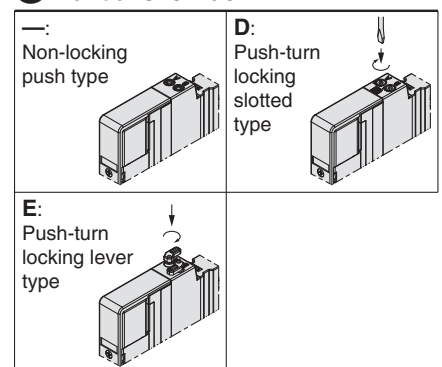
1	2-position	Single
2		Double
3		Closed centre
4	3-position	Exhaust centre
5		Pressure centre
A	4-position	N.C./N.C.
B		N.O./N.O.
C	dual 3-port	N.C./N.O.

5 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
U	●	●	Non-polar
Z			Positive common
NZ			Negative common

- * Select "U" or "Z" for the valve when the SI unit output polarity is — (positive common). Select "U" or "NZ" for the valve when the SI unit output polarity is N (negative common).
- * Only "Z" and "NZ" types are available for the JSY1000 series.
- * When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to the [Web Catalogue](#).

6 Manual override



* Push-turn locking lever type "E" is not available for the JSY1000.

- * **When ordering a valve individually, the base gasket is not included.** Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to the [Web Catalogue](#) for base gasket part numbers. Refer to page 24 for mounting screw part numbers.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalogue](#).

Protective class
 class III (Mark: ⚡)

⚠ Caution

If the JSY3000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order."
 For the JSY1000 series, only the power-saving circuit specification is available.

Plug-in Connector Connecting Base

EX120

Type 10
Side Ported

25A-JSY1000/3000 Series



Internal Pilot

How to Order Manifolds

25A-JJ5SY **3** - **10** S**3** **Q** - **05** **D** **□** - **□** **□**

1 2 3 4 5 6 7 8

Series compatible with secondary batteries

1 Series

1	JSY1000
3	JSY3000

2 Type

10	Side ported
----	-------------

3 SI unit

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

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

4 Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
08	8 stations	Specified layout*2 (Up to 16 solenoids available)
02	2 stations	
⋮	⋮	
16	16 stations	

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

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

* This also includes the number of blanking plates.

5 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)

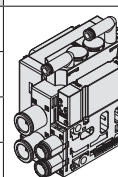
6 SUP/EXH block

—	Internal pilot
S	Internal pilot, Built-in silencer

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

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

Symbol	A, B port		JSY1000	JSY3000
C4	Straight	Ø 4	●	—
C6		Ø 6	●	●
C8		Ø 8	—	●
CM*1		Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)			Ø 8	Ø 10



*1 Indicate the sizes on the manifold specification sheet for "CM."

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

8 Mounting and Option

Symbol	Mounting
—	Direct mounting
D□	DIN rail mounting

* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)

* Refer to the **Web Catalogue** for details on securing the DIN rail mounting type manifold.

DIN Rail Option

—	DIN rail mounting (With DIN rail)
0	DIN rail mounting (Without DIN rail)
3	For 3 stations
⋮	⋮
16	For 16 stations

Specify a length longer than that of the standard rail.

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

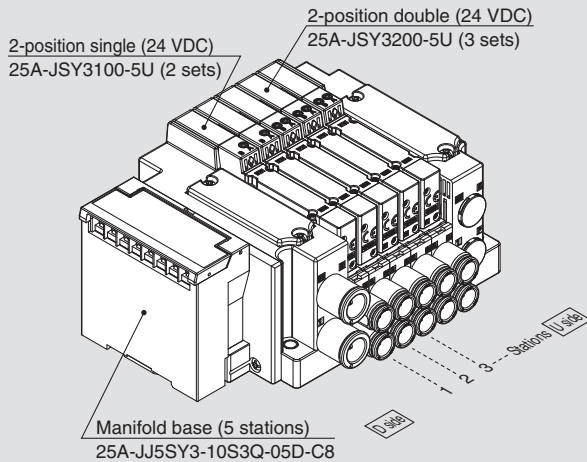
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

For details on the EX120 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalogue** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to the **Web Catalogue**. Please download the Operation Manual via the SMC website: <https://www.smc.eu>

How to Order Manifold Assembly

Example (25A-JJ5SY3-10S3Q-□)



25A-JJ5SY3-10S3Q-05D-C8 ..1 set (Type 10 5-station manifold base part no.)

* 25A-JSY3100-5U2 sets (2-position single part no.)

* 25A-JSY3200-5U3 sets (2-position double part no.)

→ The asterisk denotes the symbol for the assembly.
Prefix it to the part numbers of the valve, etc.

· For the valve arrangement, the valve closest to the D side is considered the 1st station.

· Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the Web Catalogue for valve specifications.

25A-JSY1000 Series

25A-JSY 1 1 0 0 T-5 Z

25A-JSY3000 Series

25A-JSY 3 1 0 0 -5 Z

Series compatible with secondary batteries

With power-saving circuit



Made to Order

Specification

With power-saving circuit
(Continuous duty type):
0.1 W (JSY3000)

Base mounted

1 Series

1	JSY1000
3	JSY3000

3 Pilot valve exhaust method

0	Pilot valve individual exhaust
---	--------------------------------

4 Rated voltage

5	24 VDC
---	--------

2 Type of actuation

1	2-position	Single
2		Double
3	3-position	Closed centre
4		Exhaust centre
5		Pressure centre
A	4-position dual 3-port	N.C./N.C.
B		N.O./N.O.
C		N.C./N.O.

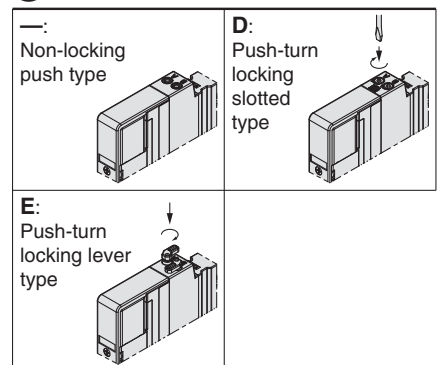
5 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
U	●	●	Non-polar
Z			Positive common

* Only "Z" and "NZ" types are available for the JSY1000 series.

* When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to the Web Catalogue.

6 Manual override

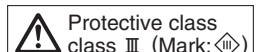


* Push-turn locking lever type "E" is not available for the JSY1000.

* **When ordering a valve individually, the base gasket is not included.**
Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance.
Refer to the Web Catalogue for base gasket part numbers.
Refer to page 24 for mounting screw part numbers.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.



Caution

If the JSY3000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification.
For the JSY1000 series, only the power-saving circuit specification is available.

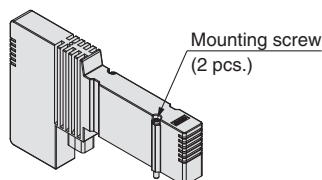
25A-JSY1000/3000 Series Manifold Options

Blanking plate assembly

(With two mounting screws)

Used when valve additions are expected or for maintenance.

A structure is in place on the blanking plate to prevent the mounting screws from sliding.



How to Order Blanking Plate Assembly

25A-JSY **3** 1M-26P-1A

Series

1	JSY1000
3	JSY3000

SI Unit Part Nos.

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)
EX120 SI unit	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)
	EX120-SMJ1-X220	CC-Link (Terminal block, 16 outputs, Positive common (NPN))
	EX120-SDN1-X220	DeviceNet® (Terminal block, 16 outputs, Positive common (NPN))

One-touch Fittings Part Nos.

Series		25A-JSY1000		25A-JSY3000	Note
Port size		6.5 mm pitch	9 mm pitch		
A, B port	Ø 4	25A-KQSY10-C4-X1336	—	—	The part number is for 1 piece. (Sales unit: 10 pcs.)
	Ø 6	—	25A-KQSY11-C6-X1336	25A-KQSY30-C6	
	Ø 8	—	—	25A-KQSY30-C8-X1336	
P, E port	Ø 8	25A-KQSY30-C8-X1336	—	—	
	Ø 10	—	—	25A-KQSY31-C10-X1336	

How to Order Individual SUP/EXH Spacer Assembly

One-touch fitting
Straight type

25A-JSY **3** 1M-**38** P-1A-**C6**

Series

1	JSY1000
3	JSY3000

Spacer type

38	Individual SUP spacer
39	Individual EXH spacer

Port size (Metric)

Symbol	P, E port	JSY1000	JSY3000
C4	Ø 4 One-touch fitting	●	—
C6	Ø 6 One-touch fitting	—	●

Part numbers of mounting screw
(2 pcs. of each)

JSY1000: 25A-JSY11V-23-5A
JSY3000: 25A-JSY31V-23-2A

Manifold Parts Nos./For the 25A-JJ5SY1-10, 25A-JJ5SY3-10

Description	25A-JSY1000		25A-JSY3000
	6.5 mm pitch	9 mm pitch	
Tie-rod for additional stations	JSY11M-49P-4-1-A (6.5 mm pitch)	JSY11M-49P-3-1-A (9 mm pitch)	JSY31M-49P-2-1-A (11.5 mm pitch)
Tie-rod	JSY11M-49P-4-□-A (6.5 mm pitch)	JSY11M-49P-3-□-A (9 mm pitch)	JSY31M-49P-2-□-A (11.5 mm pitch)
Valve mounting screw	25A-JSY11V-23-4A (M1.4 x 21.5)		25A-JSY31V-23-1A (M2 x 25)
Clamp bracket (for connector connecting base)	25A-JSY11M-15P-1A (Refer to the table below.) 25A-JSY11M-15P-2A (Refer to the table below.)		25A-SY30M-15-1A

Table. 25A-JSY1000 series clamp bracket

Wiring (JSY1000 series)		25A-JSY11M-15P-1A	25A-JSY11M-15P-2A
F	D-sub connector	●	—
T	Terminal block box	—	●
S□□	EX260	●	—
S3	EX120	●	—

Manifold Parts Nos.
Ⓐ Manifold block assembly
25A – JSY 3 1M – 2P – 1 D A – C8
Series

1	JSY1000
3	JSY3000

Manifold pitch

1	JSY1000 (6.5 mm pitch) JSY3000 (11.5 mm pitch)
2	JSY1000 (9 mm pitch)

A, B port size (One-touch fittings)

Symbol	A, B port	JSY1000		JSY3000
		6.5 mm pitch	9 mm pitch	
C4	Ø 4 One-touch fitting	●	—	—
C6	Ø 6 One-touch fitting	—	●	●
C8	Ø 8 One-touch fitting	—	—	●

Wiring type

S	Single wiring
D	Double wiring

25A-JSY1000/3000 Series

Manifold Parts Nos.

③ SUP/EXH end block assembly

25A-JSY **3** 1M-3P-1A **C10**

Series

1	JSY1000
3	JSY3000

Pilot, Silencer type

Symbol	Pilot type Internal	Built-in silencer
—	●	—
S	●	●

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000
C8	Ø 8 One-touch fitting	●	—
C10	Ø 10 One-touch fitting	—	●
00	Plug	●	●

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)
D00*1	DIN rail mounting (Without DIN rail)

*1 Part number only for the 25A-JSY1000
Part number is different depending on the wiring.
Refer to Table 1.

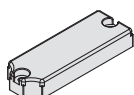
Table 1. JSY1000 series DIN rail mounting

Symbol	Wiring
D0	D-sub connector (F type) EX260 (S□□ type) EX120 (S3 type)
D00	Terminal block box (T type)

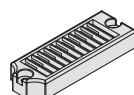
Clamp bracket

Series	Part no.
25A-JSY1000	For D0 25A-JSY11M-15P-1A
	For D00 25A-JSY11M-15P-2A
25A-JSY3000	25A-SY30M-15-1A

■ Cover, Silencer cover for SUP/EXH (end) block assembly



Cover
(Internal pilot)



Silencer cover
(Internal pilot, Built-in silencer)

25A-JSY **3** 1M-4P-1A

25A-JSY **3** 1M-5P-1A

Series

1	JSY1000
3	JSY3000

Manifold Parts Nos.

◎SUP/EXH block assembly

For D-sub connector

25A-JSY 3 **1M-1P-3A** **1** - **C10**

Series

1	JSY1000
3	JSY3000

Pilot, Silencer type

Symbol	Pilot type	Built-in silencer
	Internal	
—	●	—
S	●	●

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000
C8	Ø 8 One-touch fitting	●	—
C10	Ø 10 One-touch fitting	—	●
00	Plug	●	●

Connector entry direction

1	Upward
2	Lateral

For the terminal block box or EX260

25A-JSY 3 **1M-1P-1A** - **C10**

Series

1	JSY1000
3	JSY3000

Pilot, Silencer type

Symbol	Pilot type	Built-in silencer
	Internal	
—	●	—
S	●	●

Mounting

Symbol	Mounting	JSY1000		JSY3000
		Terminal block	EX260	
—	Mounting	●	●	●
D00	Direct mounting	●	—	—
D0	DIN rail mounting (Without DIN rail)	—	●	●

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000
C8	Ø 8 One-touch fitting	●	—
C10	Ø 10 One-touch fitting	—	●
00	Plug	●	●

For EX120

25A-JSY 3 **1M-1P-14A** - **C10**

Series

1	JSY1000
3	JSY3000

Pilot, Silencer type

Symbol	Pilot type	Built-in silencer
	Internal	
—	●	—
S	●	●

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000
C8	Ø 8 One-touch fitting	●	—
C10	Ø 10 One-touch fitting	—	●
00	Plug	●	●

* Refer to page 25 for clamp bracket part numbers.

25A-JSY1000/3000 Series

How to Order Pilot Valves

25A – V112 – 5 A

• Rated voltage

5	24 VDC
---	--------

• Coil type

–	Standard
T	With power-saving circuit (Made to Order)

Pilot cover

25A – SY30V – 25AS (For 25A-JSY3000)

* The pilot valve of the 25A-JSY1000 series cannot be replaced.

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular E.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Type 40
Side Ported

Non Plug-in Metal Base

25A-JSY1000/3000 Series



Internal Pilot

How to Order Manifolds

25A-JJ5SY 3-40-05 D-C6

Series compatible with
secondary batteries

1 Series

1	JSY1000
3	JSY3000

2 Type

40	Side ported
----	-------------

3 Valve stations

Symbol	Stations
02	2 stations
⋮	⋮
20	20 stations

4 P, E port entry

U	U side*1
D	D side*1
B	Both sides

*1 Plugs are mounted on the opposite side of the selected ports.

5 A, B port size

Thread piping

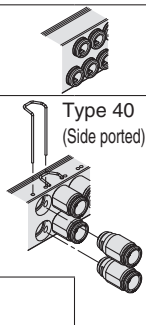
Symbol	A, B port	JSY1000	JSY3000
M3	M3 x 0.5	●	—
M5	M5 x 0.8	●	●
01	1/8	—	●

6 Thread type

—	Rc
---	----

One-touch fitting (Metric)

Symbol	A, B port	JSY1000	JSY3000
C4	Ø 4	●	—
C6	Ø 6	—	●
KC4	Ø 4	●	—
KC6	Ø 6	●	●
KC8	Ø 8	—	●
M*1	A, B ports mixed	—	●
P, E port size (Thread piping)		1/8	1/4



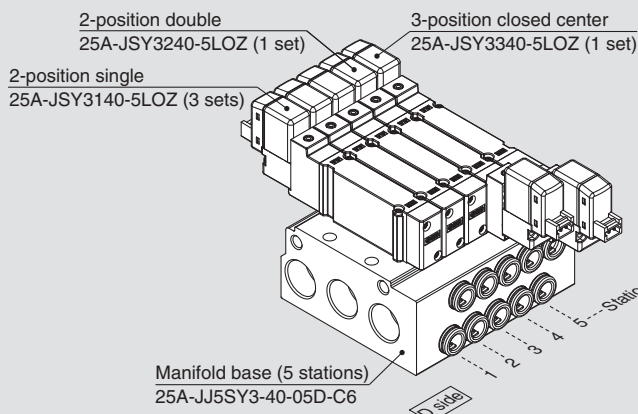
*1 When ports are mixed sizes, indicate the piping specifications on the manifold specification sheet.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Manifold Assembly

Example (25A-JJ5SY3-40-□)



25A-JJ5SY3-40-05D-C6 .. 1 set (Type 40 5-station manifold base part no.)

* 25A-JSY3140-5LOZ 3 sets (2-position single part no.)

* 25A-JSY3240-5LOZ 1 set (2-position double part no.)

* 25A-JSY3340-5LOZ 1 set (3-position closed centre part no.)

→ The asterisk denotes the symbol for the assembly.
Prefix it to the part numbers of the valve, etc.

- For the valve arrangement, the valve closest to the D side is considered the 1st station.
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

Internal Pilot

How to Order Valves (With two mounting screws)

25A-JSY1000 Series

25A-JSY3000 Series

25A-JSY 1 1 4 0 T-5 L Z

25A-JSY 3 1 4 0 -5 L Z

1 2 3 4 5 6 7

• Series compatible with secondary batteries

• With power-saving circuit



Made to Order

Specification

With power-saving circuit
(Continuous duty type):
0.1 W (JSY3000)

1 Series

1	JSY1000
3	JSY3000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
A	Dual 3-port (N.C./N.C.)
B	Dual 3-port (N.O./N.O.)
C	Dual 3-port (N.C./N.O.)

3 Pilot valve exhaust method

0	Pilot valve individual exhaust
---	--------------------------------

4 Rated voltage

5	24 VDC
---	--------

6 Light/surge voltage suppressor

Z	With light/surge voltage suppressor
---	-------------------------------------

5 Electrical entry

	L plug connector		M plug connector	
	L	LO	M	MO
JSY1000	L: With lead wire (300 mm) 	LO: Without connector 	M: With lead wire (300 mm) 	MO: Without connector
JSY3000	L: With lead wire (300 mm) 	LO: Without connector 	M: With lead wire (300 mm) 	MO: Without connector

* Refer to the **Web Catalogue** for the lead wire length of L and M plug connectors.

7 Manual override

JSY1000	—: Non-locking push type 	D: Push-turn locking slotted type 	E: Push-turn locking lever type
JSY3000	—: Non-locking push type 	D: Push-turn locking slotted type 	E: Push-turn locking lever type

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

⚠ Caution

If the JSY3000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order."

For the JSY1000 series, only the power-saving circuit specification is available.

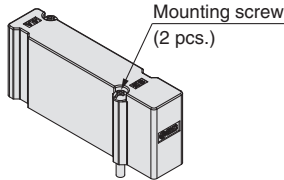
25A-JSY1000/3000 Series Manifold Options

Blanking plate assembly

(With two mounting screws)

Used when valve additions are expected or for maintenance.

A structure is in place on the blanking plate to prevent the mounting screws from sliding.



How to Order Blanking Plate Assembly

25A-JSY **3** 1M-26-1A

Series

1	JSY1000
3	JSY3000

Valve Mounting Screw Part No.

Description	Part no.		Note
	25A-JJ5SY1	25A-JJ5SY3	
Round head combination screw	25A-JSY11V-23-4A	25A-JSY31V-23-4A	Part numbers shown on the left are for 10 valves. (20 pcs.)

One-touch Fittings Part Nos.

Port size		25A-JSY1000	25A-JSY3000
A, B port	Metric size		
	Ø 4 One-touch fitting (Straight type)	25A-KQSY10-C4-X1336	—
	Ø 6 One-touch fitting (Straight type)	25A-KQSY11-C6-X1336	25A-KQSY30-C6
	Ø 8 One-touch fitting (Straight type)	—	25A-KQSY30-C8-X1336

How to Order Individual SUP/EXH Spacer Assembly

One-touch fitting Straight type 25A-JSY **3** 1M-**38**-1A-**C6**

Series

1	JSY1000
3	JSY3000

Spacer type

38	Individual SUP spacer
39	Individual EXH spacer

Port size (Metric)

Symbol	P, E port	JSY1000	JSY3000
C4	Ø 4 One-touch fitting	●	—
C6	Ø 6 One-touch fitting	—	●

Part numbers of mounting screw
(2 pcs. of each)

JSY1000: 25A-JSY11V-23-5A

JSY3000: 25A-JSY31V-23-5A

How to Order Pilot Valves

For 25A-JSY3000

25A-V111 **5** **L** **Z**

Coil type

—	Standard
T	With power-saving circuit (Made to Order)

Light/surge voltage suppressor

Z	With light/surge voltage suppressor
---	-------------------------------------

Electrical entry

L	L plug connector	With lead wire
LO		Without connector
M	M plug connector	With lead wire
MO		Without connector

Rated voltage	
5	24 VDC

* For the 25A-JSY1000, the pilot valve is the same as that of the standard model.

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular E.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
------------------	-----------------------	--------------------------	----------------------------	-----------------------	--	---	----------------------	------------------------------	---------------------	--------------	---------------------	---------------------	---------------	-------------------------------

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

D-sub Connector

25A-SY5000/7000 Series



How to Order Manifolds

25A-SS5Y **5** - **10** **F** **1** - **05** **U** **□** - **C6** **□**

1 2 3 4 5 6 7 8 9

• Series compatible with secondary batteries

1 Series

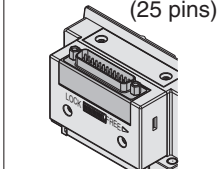
5	SY5000
7	SY7000

2 Type

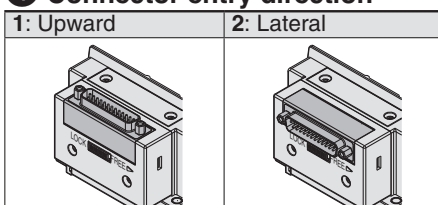
10	Side ported
11	Bottom ported

3 Connector type

F: D-sub connector (25 pins)



4 Connector entry direction



5 Valve stations

F: D-sub connector (25 pins)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
12	12 stations	
02	2 stations	Specified layout*2 (Up to 24 solenoids available)
⋮	⋮	
24	24 stations	

*1 Double wiring: 2-position single, 2-position double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If

this is not desired, order with a specified layout.

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

* The blanking plate assembly is included in this number.

6 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)

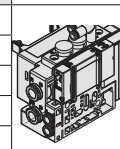
7 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

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

8 A, B port size (Metric)

Symbol	A, B port	Type 10/ Side ported		Type 11/ Bottom ported	
		SY5000	SY7000	SY5000	SY7000
C4 C6 C8 C10 C12 CM*1	Straight	Ø 4	—	—	—
		Ø 6	●	●	●
		Ø 8	●	●	●
		Ø 10	—	—	●
		Ø 12	—	—	●
	Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)		Ø 10	Ø 12	Ø 10	Ø 12



*1 Indicate the sizes on the manifold specification sheet for "CM."

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

9 Mounting

Symbol	Mounting	Option	
		Name plate	Station number
—	Direct mounting	—	—
AA		●	●
BA		●	—
D□	DIN rail mounting	—	—
A□		●	●
B□		●	—

DIN Rail Option

—	Direct mounting
0	Without DIN rail (with bracket)
3	For 3 stations
⋮	⋮
24	For 24 stations

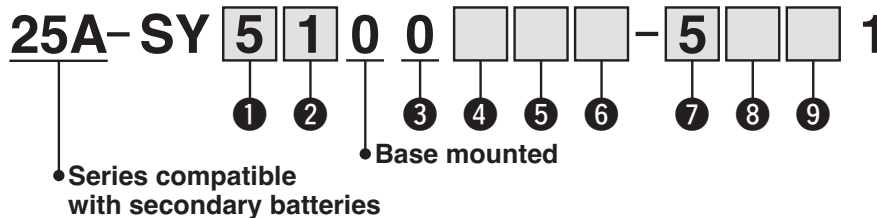
* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" above.)

* Only direct mounting is available for the type 11 bottom-port type.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

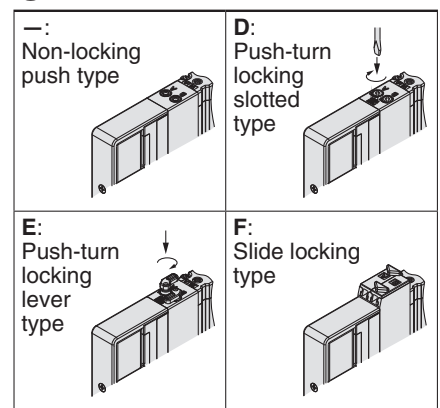
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

—	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)

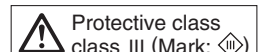
* Only "Z" and "NZ" types are available with a power-saving circuit.

9 Manual override



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Plug-in Connector Connecting Base

D-sub Connector



Type 12
Top Ported

25A-SY5000/7000 Series

How to Order Manifolds

25A-SS5Y **5** -12 F **1** - **05** **U** -

1
2
3
4
5
6
7

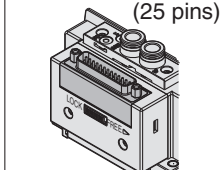
• Series compatible with secondary batteries

1 Series

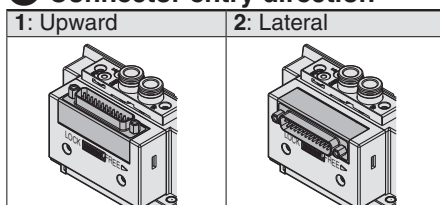
5	SY5000
7	SY7000

2 Connector type

F: D-sub connector (25 pins)



3 Connector entry direction



4 Valve stations

F: D-sub connector (25 pins)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
12	12 stations	Specified layout*2 (Up to 24 solenoids available)
02	2 stations	
⋮	⋮	
24	24 stations	

*1 Double wiring: 2-position single, 2-position double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If this is not

desired, order with a specified layout.

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

* The blanking plate assembly is included in this number.

5 P, E port entry

U*1	U side (2 to 10 stations)
D*1	D side (2 to 10 stations)
B	Both sides (2 to 24 stations)

*1 For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

6 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

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

7 Mounting

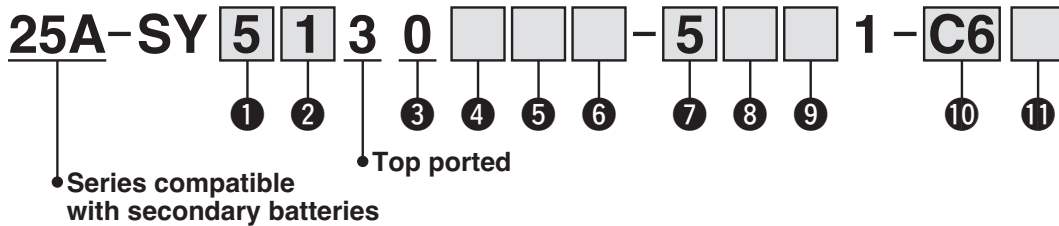
—	Direct mounting
D	DIN rail mounting (With DIN rail)
D0	DIN rail mounting (Without DIN rail)
D3	For 3 stations
⋮	⋮
D24	For 24 stations

Specify a length longer than that of the standard rail.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

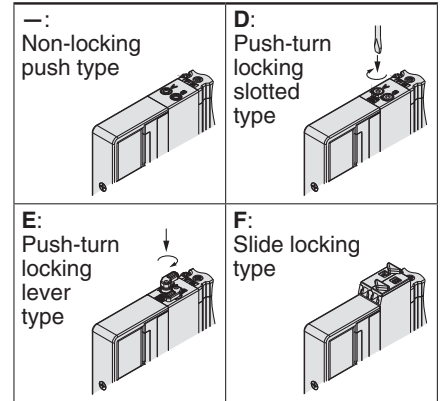
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

—	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 with a power-saving circuit.

9 Manual override



10 A, B port size

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

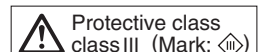
Symbol	A, B port	SY5000	SY7000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	●	●
C10	Ø 10	—	●
C12	Ø 12	—	●

11 Thread type

—	Rc
F	G
N	NPT
T	NPTF

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

Terminal Block Box

25A-SY5000/7000 Series



How to Order Manifolds

25A-SS5Y **5** - **10** T - **05** **U** **□** - **C6** **□**

1 2 3 4 5 6 7

• Series compatible with secondary batteries

1 Series

5	SY5000
7	SY7000

2 Type

10	Side ported
11	Bottom ported

3 Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring*1
10	10 stations	
02	2 stations	Specified layout*2 (Up to 20 solenoids available)
20	20 stations	

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

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

* The blanking plate assembly is included in this number.

4 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)

5 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

* The 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 into direct contact with water or other liquids.

7 Mounting

Symbol	Mounting	Option	
		Name plate	Station number
—	Direct mounting	—	—
AA		●	●
BA		●	—
D□	DIN rail mounting	—	—
A□		●	●
B□		●	—

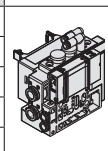
* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" below.)
* Only direct mounting is available for the type 11 bottom-port type.

DIN Rail Option

—	Direct mounting	
0	Without DIN rail (with bracket)	
3	For 3 stations	Specify a longer rail than the total length of specified stations.
10	For 10 stations	
24	For 24 stations	

6 A, B port size (Metric)

Symbol	A, B port	Type 10/ Side ported		Type 11/ Bottom ported	
		SY5000	SY7000	SY5000	SY7000
C4	Ø 4	●	—	●	—
C6	Ø 6	●	●	●	●
C8	Ø 8	●	●	●	●
C10	Ø 10	—	●	—	●
C12	Ø 12	—	●	—	●
CM*1	Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)		Ø 10	Ø 12	Ø 10	Ø 12

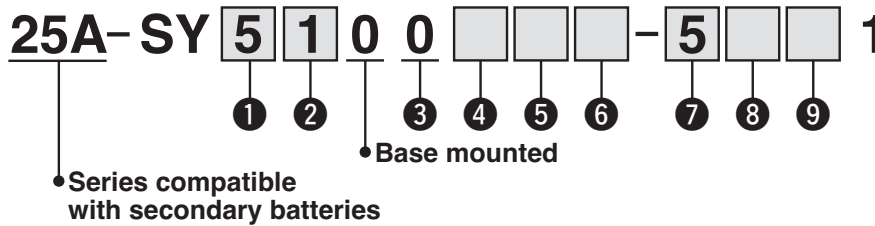


*1 Indicate the sizes on the manifold specification sheet for "CM."
* The direction of P, E port fittings is the same as for the A, B port.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

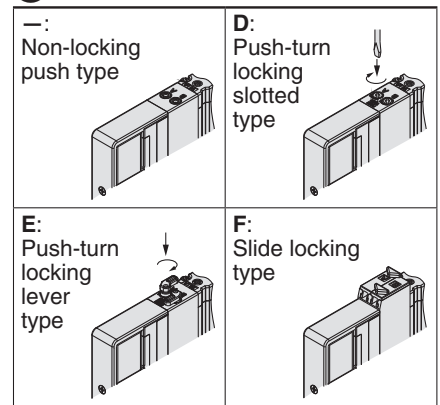
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

—	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)

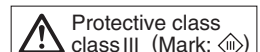
* Only "Z" and "NZ" types are available with a power-saving circuit.

9 Manual override



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Type 12
Top Ported

Plug-in Connector Connecting Base

Terminal Block Box

CE UK
CA

25A-SY5000/7000 Series

cUL US

RoHS

How to Order Manifolds

25A-SS5Y **5** - 12T - **05** **U** **□** - **□**

1 2 3 4 5

• Series compatible
with secondary batteries

1 Series

5	SY5000
7	SY7000

3 P, E port entry

U*1	U side (2 to 10 stations)
D*1	D side (2 to 10 stations)
B	Both sides (2 to 20 stations)

*1 4 For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

2 Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
10	10 stations	
02	2 stations	Specified layout*2 (Up to 20 solenoids available)
⋮	⋮	
20	20 stations	

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

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

* The blanking plate assembly is included in this number.

4 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

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

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

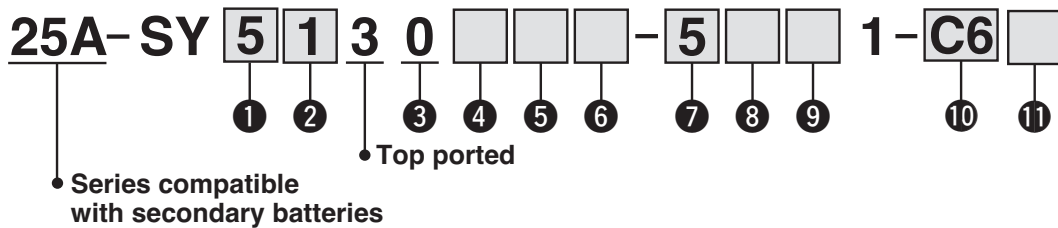
5 Mounting

—	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
D20	For 20 stations	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

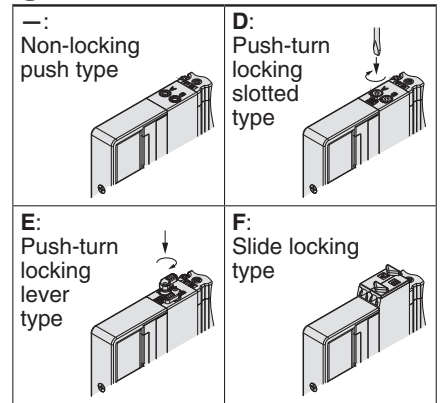
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

—	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 with a power-saving circuit.

9 Manual override



10 A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

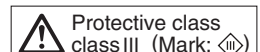
Symbol	A, B port	SY5000	SY7000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	●	●
C10	Ø 10	—	●
C12	Ø 12	—	●

11 Thread type

—	Rc
F	G
N	NPT
T	NPTF

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

Lead Wire

25A-SY5000/7000 Series



How to Order Manifolds

25A-SS5Y **5** - **10** **L1** **1** - **05** **U** **□** - **C6** **□**

1 2 3 4 5 6 7 8 9

• Series compatible with secondary batteries

1 Series

5	SY5000
7	SY7000

3 Number of cores (Lead wire)

L1	34 cores
L2	17 cores
L3	9 cores

2 Type

10	Side ported
11	Bottom ported

4 Lead wire length

1	0.6 m
2	1.5 m
3	3 m

6 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)

7 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

- * The 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 into direct contact with water or other liquids.

5 Valve stations

(L1□)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
16	16 stations	Specified layout*2 (Up to 32 solenoids available)
02	2 stations	
⋮	⋮	
24	24 stations	

(L3□)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
04	4 stations	Specified layout*2 (Up to 8 solenoids available)
02	2 stations	
⋮	⋮	
08	8 stations	

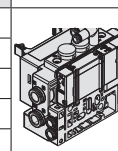
(L2□)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
08	8 stations	Specified layout*2 (Up to 16 solenoids available)
02	2 stations	
⋮	⋮	
16	16 stations	

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

8 A, B port size (Metric)

Symbol	A, B port	Type 10/Side ported		Type 11/Bottom ported	
		SY5000	SY7000	SY5000	SY7000
C4	Ø 4	●	—	●	—
C6	Ø 6	●	●	●	●
C8	Ø 8	●	●	●	●
C10	Ø 10	—	●	—	●
C12	Ø 12	—	●	—	●
CM*1	Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)		Ø 10	Ø 12	Ø 10	Ø 12



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

9 Mounting

Symbol	Mounting	Option	
		Name plate	Station number
—	Direct mounting	—	—
AA		●	●
BA	DIN rail mounting	●	—
D□		—	—
A□		●	●
B□		●	—

- * Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" below.)
- * Only direct mounting is available for the type 11 bottom-porting type.

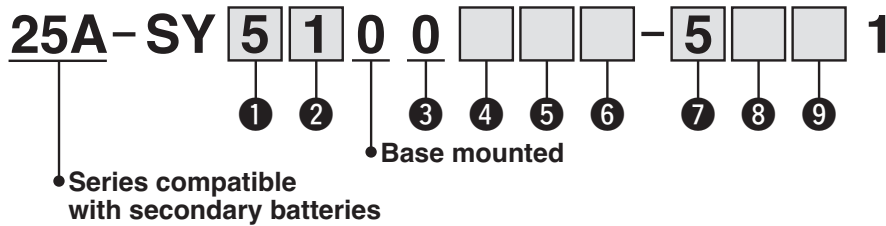
DIN Rail Option

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

- * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

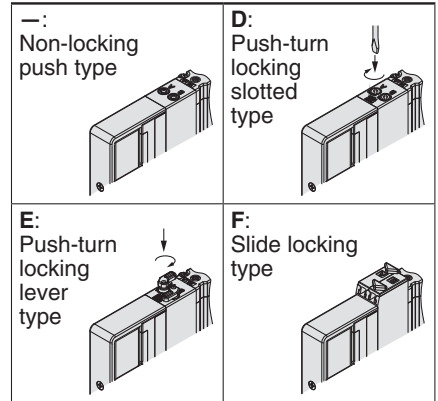
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

—	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 with a power-saving circuit.

9 Manual override



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Plug-in Connector Connecting Base

Lead Wire



Type 12
Top Ported

25A-SY5000/7000 Series

How to Order Manifolds

25A- SS5Y **5** - 12 **L1** **1** - **05** **U** -

1
2
3
4
5
6
7

• Series compatible with secondary batteries

1 Series

5	SY5000
7	SY7000

2 Number of cores (Lead wire)

L1	34 cores
L2	17 cores
L3	9 cores

3 Lead wire length

1	0.6 m
2	1.5 m
3	3 m

4 Valve stations

(L1□)

Symbol	Stations	Note
02	2 stations	Double wiring*1
16	16 stations	
02	2 stations	Specified layout*2 (Up to 32 solenoids available)
16	16 stations	
24	24 stations	

(L3□)

Symbol	Stations	Note
02	2 stations	Double wiring*1
04	4 stations	
02	2 stations	Specified layout*2 (Up to 8 solenoids available)
04	4 stations	
08	8 stations	

(L2□)

Symbol	Stations	Note
02	2 stations	Double wiring*1
08	8 stations	
02	2 stations	Specified layout*2 (Up to 16 solenoids available)
08	8 stations	
16	16 stations	

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

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

* The blanking plate assembly is included in this number.

5 P, E port entry

U*1	U side (2 to 10 stations)
D*1	D side (2 to 10 stations)
B	Both sides (2 to 24 stations)

*1 6 For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

6 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

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

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

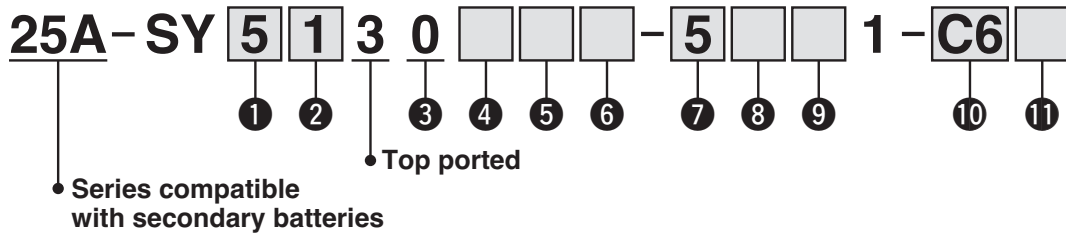
7 Mounting

—	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	Specify a length longer than that of the standard rail.
16	16 stations	
D24	For 24 stations	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

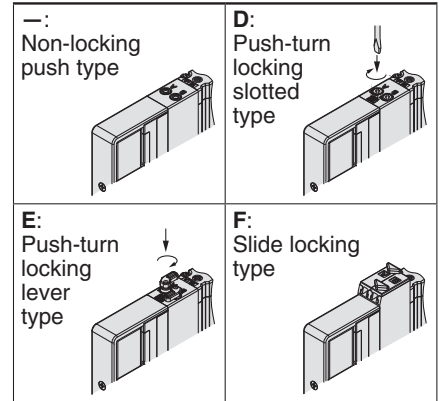
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

—	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 with a power-saving circuit.

9 Manual override



10 A, B port size

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

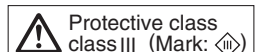
Symbol	A, B port	SY5000	SY7000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	●	●
C10	Ø 10	—	●
C12	Ø 12	—	●

11 Thread type

—	Rc
F	G
N	NPT
T	NPTF

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

EX260

25A-SY5000/7000 Series



How to Order Manifolds

25A-SS5Y **5** - **10** S **NAN** - **05** **U** **□** - **C6** **□**

1 2 3 4 5 6 7 8

• Series compatible with secondary batteries

1 Series

5	SY5000
7	SY7000

2 Type

10	Side ported
11	Bottom ported

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

Symbol (Output polarity)		Protocol	Number of outputs	Communication connector
Positive common (NPN)	Negative common (PNP)			
0		Without SI unit		
QA	QAN	DeviceNet®	32	M12
QB	QBN		16	
NA	NAN	PROFIBUS DP	32	M12
NB	NBN		16	
VA	VAN	CC-Link	32	M12
VB	VBN		16	
DA	DAN	EtherCAT	32	M12
DB	DBN		16	
FA	FAN	PROFINET	32	M12
FB	FBN		16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	
—	KAN	IO-Link	32	M12

- * Without SI unit, the output polarity is decided by the SI unit used. Ensure a match with the common specification of the valves to be used.
- * DIN rail cannot be mounted without SI unit.
- * For IO-Link, only the negative common (PNP) type and the 32 outputs type are available.

4 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring*1
16	16 stations	
02	2 stations	Specified layout*2 (Up to 32 solenoids available)
16	16 stations	
24	24 stations	

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring*1
08	8 stations	
02	2 stations	Specified layout*2 (Up to 16 solenoids available)
16	16 stations	
16	16 stations	

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

- * The blanking plate assembly is included in this number.
- * For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

5 P, E port entry

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

6 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

- * The 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 into direct contact with water or other liquids.

8 Mounting

Symbol	Mounting	Option	
		Name plate	Station number
—	Direct mounting	—	—
AA		●	●
BA		●	—
D□	DIN rail mounting	—	—
A□		●	●
B□		●	—

- * Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" below.)
- * Only direct mounting is available for the type 11 bottom-mounted type.

DIN Rail Option

—	Direct mounting	
0	Without DIN rail (with bracket)	
3	For 3 stations	Specify a longer rail than the total length of specified stations.
16	For 16 stations	
24	For 24 stations	

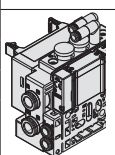
- * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

For details on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalogue** and the **Operation Manual**. For the part numbers of the SI units to be mounted, refer to page 53 in this catalogue. Please download the **Operation Manual** via the SMC website: <https://www.smc.eu>

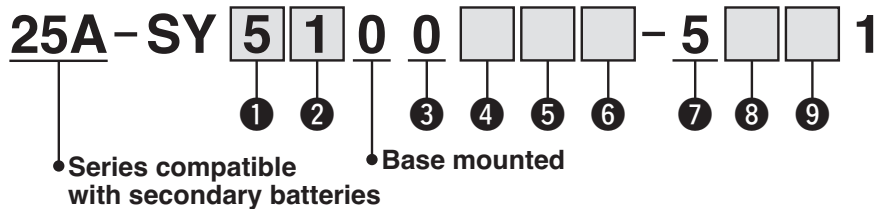
7 A, B port size (Metric)

Symbol	A, B port	Type 10/Side ported		Type 11/Bottom ported	
		SY5000	SY7000	SY5000	SY7000
C4	Ø 4	●	—	●	—
C6	Ø 6	●	●	●	●
C8	Ø 8	●	●	●	●
C10	Ø 10	—	●	—	●
C12	Ø 12	—	●	—	●
CM*1	Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)		Ø 10	Ø 12	Ø 10	Ø 12



*1 Indicate the sizes on the manifold specification sheet for "CM."

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
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4 Back pressure check valve (Built-in valve type)

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

5	24 VDC
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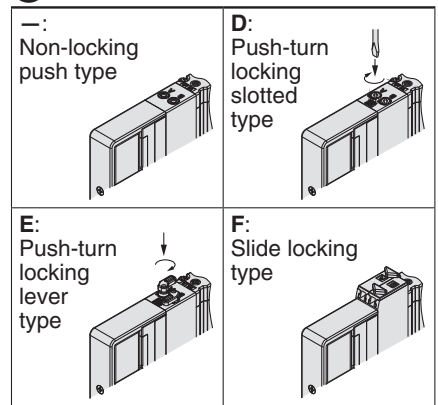
8 Light/surge voltage suppressor and common specification

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

* Select "R," "U," "S," or "Z" for the valve when the SI unit output polarity is — (positive common). Select "R," "U," "NS," or "NZ" for the valve when the SI unit output polarity is N (negative common).

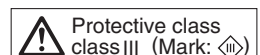
* Only "Z" and "NZ" types are available with a power-saving circuit.

9 Manual override



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Plug-in Connector Connecting Base

EX260



Type 12
Top Ported

25A-SY5000/7000 Series

How to Order Manifolds

25A-SS5Y **5** - 12S **NAN** - **05** **U** **□** - **□**

• Series compatible with secondary batteries

1 Series

5	SY5000
7	SY7000

2 SI unit specifications

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

Symbol (Output polarity)		Protocol	Number of outputs	Communication connector
Positive common (NPN)	Negative common (PNP)			
0		Without SI unit		
QA	QAN	DeviceNet®	32	M12
QB	QBN		16	
NA	NAN	PROFIBUS DP	32	M12
NB	NBN		16	
VA	VAN	CC-Link	32	M12
VB	VBN		16	
DA	DAN	EtherCAT	32	M12
DB	DBN		16	
FA	FAN	PROFINET	32	M12
FB	FBN		16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	
—	KAN	IO-Link	32	M12

- * Without SI unit, the output polarity is decided by the SI unit used. Ensure a match with the common specification of the valves to be used.
- * DIN rail cannot be mounted without SI unit.
- * For IO-Link, only the negative common (PNP) type and the 32 outputs type are available.

3 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring*1
16	16 stations	
02	2 stations	Specified layout*2 (Up to 32 solenoids available)
24	24 stations	

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring*1
08	8 stations	
02	2 stations	Specified layout*2 (Up to 16 solenoids available)
16	16 stations	

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

4 P, E port entry

U*1	U side (2 to 10 stations)
D*1	D side (2 to 10 stations)
B	Both sides (2 to 24 stations)

- *1 For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

5 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

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

6 Mounting

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

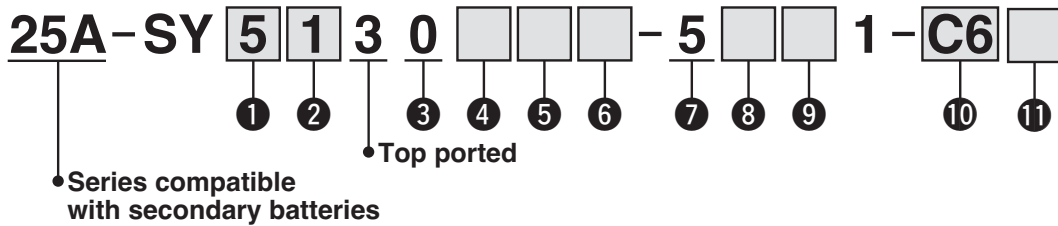
- * If the DIN rail must be mounted without an SI unit, select D0. Then, refer to L3 of the dimensions for the DIN rail length and order separately.

- * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

For details on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalogue** and the **Operation Manual**. For the part numbers of the SI units to be mounted, refer to page 53 in this catalogue. Please download the **Operation Manual** via the SMC website: <https://www.smc.eu>

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

5	24 VDC
---	--------

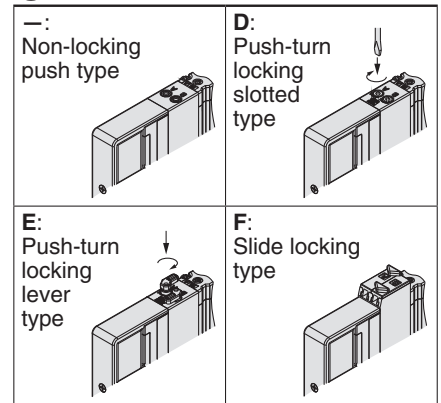
8 Light/surge voltage suppressor and common specification

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

* Select "R," "U," "S," or "Z" for the valve when the SI unit output polarity is — (positive common). Select "R," "U," "NS," or "NZ" for the valve when the SI unit output polarity is N (negative common).

* Only "Z" and "NZ" types are available with a power-saving circuit.

9 Manual override



10 A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

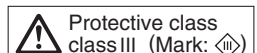
Symbol	A, B port	SY5000	SY7000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	●	●
C10	Ø 10	—	●
C12	Ø 12	—	●

11 Thread type

—	Rc
F	G
N	NPT
T	NPTF

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

EX126

25A-SY5000/7000 Series



How to Order Manifolds

25A-SS5Y **5** - **10** S4 **V** - **05** **U** **□** - **C6** **□**

1 2 3 4 5 6 7 8

• Series compatible with secondary batteries

1 Series

5	SY5000
7	SY7000

2 Type

10	Side ported
11	Bottom ported

3 SI unit

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

* Only a terminal block plate is mounted for the valve without SI unit.
For SI unit part numbers, refer to page 53.

4 Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
08	8 stations	Specified layout*2 (Up to 16 solenoids available)
02	2 stations	
⋮	⋮	
16	16 stations	

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

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

* The blanking plate assembly is included in this number.

5 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)

6 SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

* The 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 into direct contact with water or other liquids.

8 Mounting

Symbol	Mounting	Option	
		Name plate	Station number
—	Direct mounting	—	—
AA		●	●
BA		●	—
D□	DIN rail mounting	—	—
A□		●	●
B□		●	—

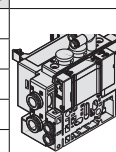
* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" below.)
* Only direct mounting is available for the type 11 bottom-port type.

DIN Rail Option

—	Direct mounting
0	Without DIN rail (with bracket)
3	For 3 stations
⋮	⋮
24	For 24 stations

7 A, B port (Metric)

Symbol	A, B port	Type 10/ Side ported		Type 11/ Bottom ported	
		SY5000	SY7000	SY5000	SY7000
C4	Ø 4	●	—	●	—
C6	Ø 6	●	●	●	●
C8	Ø 8	●	●	●	●
C10	Ø 10	—	●	—	●
C12	Ø 12	—	●	—	●
CM*1	Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)		Ø 10	Ø 12	Ø 10	Ø 12



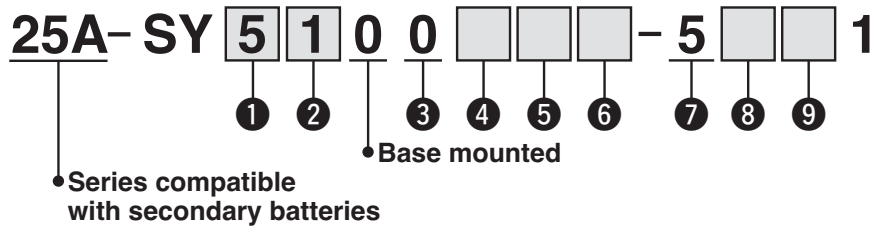
*1 Indicate the sizes on the manifold specification sheet for "CM."
* The direction of P, E port fittings is the same as for the A, B port.

* The 25A-series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

For details on the EX126 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalogue** and the **Operation Manual**. For the part numbers of the SI units to be mounted, refer to page 53 in this catalogue. Please download the Operation Manual via the SMC website: <https://www.smc.eu>

How to Order Valves (With two mounting screws)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

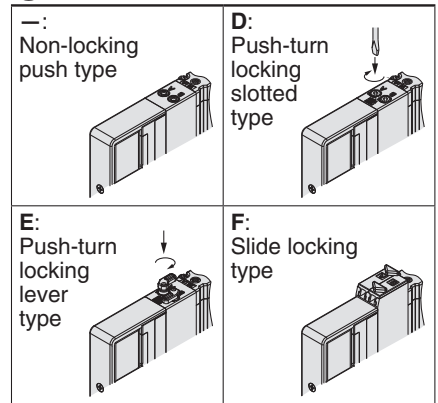
5	24 VDC
---	--------

8 Light/surge voltage suppressor and common specification

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

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

9 Manual override



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Plug-in Connector Connecting Base

EX126



Type 12
Top Ported

25A-SY5000/7000 Series

How to Order Manifolds

25A - SS5Y **5** - 12S4 **V** - **05** **U** **□** - **□**

①
②
③
④
⑤
⑥

• Series compatible with secondary batteries

① Series

5	SY5000
7	SY7000

② 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 numbers, refer to page 53.

③ Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
08	8 stations	
02	2 stations	Specified layout*2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

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

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

* The blanking plate assembly is included in this number.

④ P, E port entry

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

*1 ⑤ For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

⑤ SUP/EXH block assembly

—	Internal pilot
S	Internal pilot, Built-in silencer

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

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

⑥ Mounting

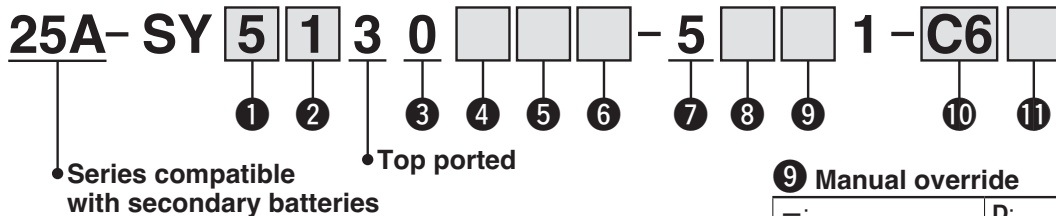
—	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
D16	For 16 stations	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

For details on the EX126 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalogue** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 53 in this catalogue. Please download the Operation Manual via the SMC website: <https://www.smc.eu>

How to Order Valves (With mounting screw)



1 Series

5	SY5000
7	SY7000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

3 Seal type

0	Rubber seal
---	-------------

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

—	None
H	Built-in

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

5 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

6 Coil type

—	Standard
T	With power-saving circuit (Continuous duty type)

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

* Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalogue.

7 Rated voltage

5	24 VDC
---	--------

8 Light/surge voltage suppressor and common specification

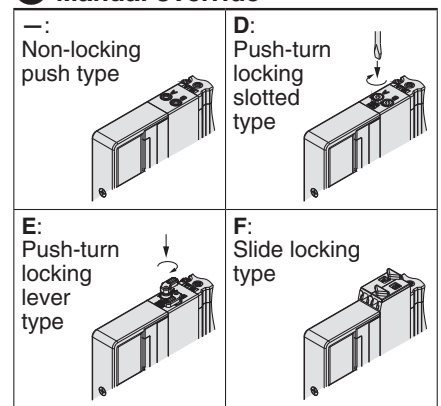
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)

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

Caution

Tightening torque for mounting screw
M3: 0.8 N·m

9 Manual override



10 A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

Symbol	A, B port	SY5000	SY7000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	●	●
C10	Ø 10	—	●
C12	Ø 12	—	●

11 Thread type

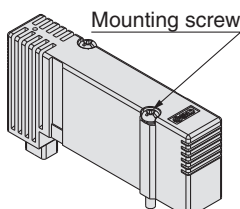
—	Rc
F	G
N	NPT
T	NPTF

Manifold Options

Blanking plate assembly

(With mounting screw)

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
7	SY7000

Base type

1	For plug-in connector connecting base
---	---------------------------------------

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

25A-SY5000/7000 Series

SI Unit Part Nos.

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)
EX126 SI unit	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)
	EX260-SIL1-X117	IO-Link M12 connector, 32 outputs, Negative common (PNP)
	EX126D-SMJ1-X220	CC-Link (Terminal block, 16 outputs, Positive common (NPN))

Valve Mounting Screw Part No.

Description	Part no.		Note
	SY5000	SY7000	
Round head combination screw	SY5000-223-1A	SY7000-224-1A	Part numbers shown on the left are for 10 valves. (20 pcs.)

One-touch Fittings Part Nos.

Port size		25A-SY5000	25A-SY7000
A, B port	Metric size		
	Ø 4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4	—
	Ø 6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6	25A-KJH06-17-X1607
	Ø 8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8	90-VVQ2000-51A-C8
	Ø 10 One-touch fitting (Straight type)	—	90-VVQ2000-51A-C10
P, E port	Metric size		
	Ø 10 One-touch fitting (Straight type)	90-VVQ2000-51A-C10	—
	Ø 12 One-touch fitting (Straight type)	—	90-VVQ4000-50B-C12

Manifold Options

How to Order Individual SUP/EXH Spacer Assembly

One-touch fitting
Straight type

25A-SY 5 OM-38-1 A-C6

Series	
5	SY5000
7	SY7000
Spacer type	
38	Individual SUP spacer
39	Individual EXH spacer

Port size (Metric)			
Symbol	P, E port	SY5000	SY7000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	●	●
C10	Ø 10	—	●
C12	Ø 12	—	●

Part numbers of mounting screw
SY5000: SY5000-223-2A (2 pcs. of each)
SY7000: SV1000-136-12A (3 pcs. of each)

How to Order Individual SUP/EXH Block Assembly

One-touch fitting
Straight type

25A-SY 5 OM-78-1 A-C6

Series	
5	SY5000
7	SY7000
Block type	
78	Individual SUP block
79	Individual EXH block

Port size (Metric)			
Symbol	P, E port	SY5000	SY7000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	●	●
C10	Ø 10	—	●
C12	Ø 12	—	●

Manifold Parts Nos.

A Manifold block assembly

25A-SY **5** **0M-2-** **1** **D** **A-** **C6**

Series

5	SY5000
7	SY7000

Piping direction

1	Side/Top ported
2	Bottom ported

Wiring type

S	Single wiring
D	Double wiring

A, B port size (One-touch fittings)

Symbol	A, B port	SY5000	SY7000	Note
C4	Ø 4	●	—	Side/Bottom ported Metric size
C6	Ø 6	●	●	
C8	Ø 8	●	●	
C10	Ø 10	—	●	
C12	Ø 12	—	●	Top ported
00	Plug	●	●	

B SUP/EXH block assembly

① D-sub connector <IP40>

25A-SY **5** **0M-1-11** **A** **1** **-** **C10** **-**

Series

5	SY5000
7	SY7000

SUP/EXH block assembly

11	D-sub connector <IP40>
----	------------------------

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Built-in silencer	Piping direction
—	●	—	Side
S	●	●	
V	●	—	
VP	●	●*1	Top
B	●	—	
BS	●	●	Bottom

*1 For silencer (supply side)
E port is plugged.

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-port type, the symbol is —.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	Ø 10	●	—	Side/Bottom/Top ported Metric size
C12	Ø 12	—	●	
00*2	Plug	●	●	P/E port entry on one side or Top ported

*2 It can be selected only if no symbol or "S" or "V" or "B" is selected
for the pilot and the piping.

Connector entry direction

1	Upward
2	Lateral

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

* Part number is for one assembly.

② Terminal block box

25A-SY **5** **0M-1-1A** **-** **C10** **-**

Series

5	SY5000
7	SY7000

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Built-in silencer	Piping direction
—	●	—	Side
S	●	●	
V	●	—	
VP	●	●*3	Top
B	●	—	
BS	●	●	Bottom

*3 For silencer (supply side)
E port is plugged.

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-port type, the symbol is —.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	Ø 10	●	—	Side/Bottom/Top ported Metric size
C12	Ø 12	—	●	
00*4	Plug	●	●	P/E port entry on one side or Top ported

*4 It can be selected only if no symbol or "S" or "V" or "B" is selected
for the pilot and the piping.

Terminal block box housing assembly

25A-VVQC1000-T0-1

Clamp bracket assembly for terminal block box

25A-SY30M-15-6A

* Part number is for one assembly.

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

* Part number is for one assembly.

25A-SY5000/7000 Series

Manifold Parts Nos.

③ Lead wire

25A-SY 5 0M-1-1A - C10 -

Series

5	SY5000
7	SY7000

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Built-in silencer	Piping direction
—	●	—	Side
S	●	●	
V	●	—	Top
VP	●	●*1	
B	●	—	Bottom
BS	●	●	

*1 For silencer (supply side)
E port is plugged.

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-ported type, the symbol is —.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	Ø 10	●	—	Side/Bottom/Top ported Metric size
C12	Ø 12	—	●	
00*2	Plug	●	●	P/E port entry on one side or Top ported

*2 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

* Part number is for one assembly.

Lead wire connector block assembly

25A-SY30M-14-4A -

Number of cores

1	34
2	17
3	9

Lead wire length [m]

1	0.6
2	1.5
3	3

④ EX126

25A-SY 5 0M-1-1A - C10 -

Series

5	SY5000
7	SY7000

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Built-in silencer	Piping direction
—	●	—	Side
S	●	●	
V	●	—	Top
VP	●	●*3	
B	●	—	Bottom
BS	●	●	

*3 For silencer (supply side)
E port is plugged.

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-ported type, the symbol is —.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	Ø 10	●	—	Side/Bottom/Top ported Metric size
C12	Ø 12	—	●	
00*4	Plug	●	●	P/E port entry on one side or Top ported

*4 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Terminal block plate assembly

25A-VVQC1000-74A-2

Clamp bracket assembly for EX126 SI unit

25A-SY30M-15-6A

* Part number is for one assembly.

⑤ EX260

25A-SY 5 0M-1-1A - C10 -

Series

5	SY5000
7	SY7000

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Built-in silencer	Piping direction
—	●	—	Side
S	●	●	
V	●	—	Top
VP	●	●*5	
B	●	—	Bottom
BS	●	●	

*5 For silencer (supply side)
E port is plugged.

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-ported type, the symbol is —.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	Ø 10	●	—	Side/Bottom/Top ported Metric size
C12	Ø 12	—	●	
00*6	Plug	●	●	P/E port entry on one side or Top ported

*6 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

* Part number is for one assembly.

Manifold Parts Nos.

■ SUP/EXH block assembly

25A – SY **5** 0M – 3 – 1A **C10** –

Series

5	SY5000
7	SY7000

Mounting

—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-ported type, the symbol is —.

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Built-in silencer	Piping direction
—	●	—	Side
S	●	●	
V	●	—	Top
VP	●	●*1	
B	●	—	Bottom
BS	●	●	

*1 For silencer (supply side)
E port is plugged.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	Ø 10	●	—	Side/Bottom/Top ported Metric size
C12	Ø 12	—	●	
00*2	Plug	●	●	P/E port entry on one side or Top ported

*2 It can be selected only if no symbol or “S” or “V” or “B” is selected
for the pilot and the piping.

■ Cover assembly/Silencer cover assembly/Port block assembly for SUP/EXH (end) block assembly

Cover assembly
(Internal pilot)

25A – SY **5** 0M – 4 – 1 A

Silencer cover assembly
(Internal pilot, Built-in silencer)

25A – SY **5** 0M – 5 – 1 A

Port block assembly
(Top ported, Internal pilot, for
silencer (supply side))

25A – SY **5** 0M – 6 – 3 AV – **C10**

Port block assembly
(Top ported, Internal pilot)

25A – SY **5** 0M – 6 – 1 A **V** – **C10**

Series

5	SY5000
7	SY7000

Pilot type

—	Internal pilot
---	----------------

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000
C10	Ø 10	●	—
C12	Ø 12	—	●

■ Name plate bracket assembly (For SY5000 only)

25A – SY50M – 85 – 1A

Directional
Control Valves

Air Cylinders

Related
Products

Rotary
Actuators

Air Grippers

Vacuum
Equipment

Air Preparation
Equipment

Clean
Air Filters

Modular E.R.L./
Pressure Control
Equipment

Flow Control
Equipment/
Fittings

Detection
Switches

Fluid Control
Equipment

Process Gas
Equipment

Electric
Actuators

Auto
Switches

25A-SY5000/7000 Series

How to Order Pilot Valves

Pilot cover

25A-V112 - **5** A

25A-SY50V-25A

Pilot valve option	
—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

Rated voltage	
5	24 VDC
6	12 VDC

● Coil type	
—	Standard
T	With power-saving circuit (Made to Order)

How to Order Port Block Assembly

25A-SY 0V-6A - -

Series	
5	5000
7	7000

Pilot type	
—	Internal pilot

—	Standard (Valve mounting screw without drop prevention)
1	Drop prevention type valve mounting screw

● Thread type	
—	Rc
F	G
N	NPT
T	NPTF

- **A, B port size**
Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

Metric size (One-touch fitting)

Symbol	Port size	Applicable series	
		SY5000	SY7000
C4	Ø 4	●	—
C6	Ø 6	●	●
C8	Ø 8	●	●
C10	Ø 10	—	●
C12	Ø 12	—	●

Body Cover Assembly

* Used when the top-ported type is changed to the side or bottom-ported type

Series		Part no.	
		Standard (Valve mounting screw without drop prevention)	Drop prevention type valve mounting screw
SY5000	Internal pilot	25A-SY50V-16A	25A-SY50V-16A-1
SY7000	Internal pilot	25A-SY70V-16A	25A-SY70V-16A-1

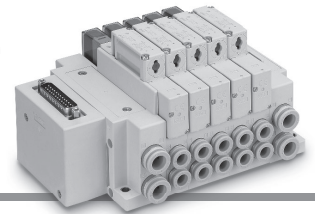
* The part number is not indicated on the product.

25A-SY5000/7000 Series

With Residual Pressure Release Valve



RoHS



How to Order (With mounting screw)

25A-SY **5** **3** **0** **0** **1** **2** **3** - **5** **4** **5** **6** **1** - **E**

Series

5	SY5000
7	SY7000

Type of actuation

3	3-position closed center*1
---	----------------------------

*1 Only the closed center type is available.

Base mounted

(The top-ported type is not available.)

With residual pressure release valve

E

With residual pressure release valve*2

*2 Mounting screw types, hexagon socket head cap screw B and drop prevention type K, H are not available.



Protective class class X (Mark: )

1 Seal type

0	Rubber seal
---	-------------

2 Pilot valve option

—	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

3 Coil type

—	Standard
T	With power saving circuit (Continuous duty type)

- * Be sure to select the power saving circuit type if the valve is to be continuously energized for long periods of time.
- * Be careful of the energizing time when the power saving circuit is selected. Refer to the **Web Catalog** for details.

4 Rated voltage

5	24 VDC
6	12 VDC

* The applicable rated voltage varies depending on the manifold wiring type. Refer to the "How to Order Manifolds" pages.

5 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
—	—	—	Non-polar
R	—	●	
U	●		
S	—		
Z	●		
NS	—		
NZ	●		Positive common
			Negative common

* Only "Z" and "NZ" types are available with a power saving circuit.

6 Manual override

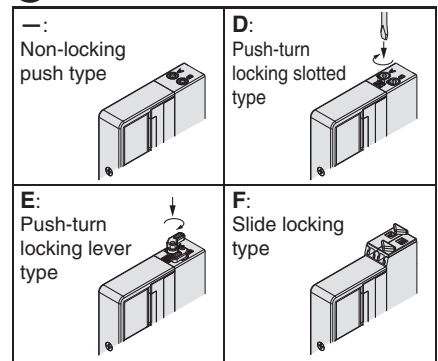


Table 1. Valve mounting screw

SY5000	SY7000
SY5000-221-9A (2 pcs.)	SY7000-221-14A (3 pcs.)

25A-SY5000/7000 Series

Made to Order

Please contact SMC for detailed dimensions, specifications, and lead times.

1 With Safety Slide Locking Manual Override

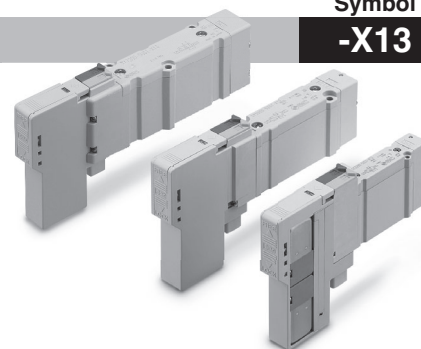
Symbol

-X13

A safety lock is added to the slide locking manual override.

25A-SY $\frac{5}{7}$ $\frac{00}{3}$ $\square\square\square$ - $\square\square$ G1-X13

- Entry is the same as 25A-standard products. Specifications and performance are the same as standard products.



2 2-Position Single Solenoid Valve with Built-in Return Spring

Symbol

-X350

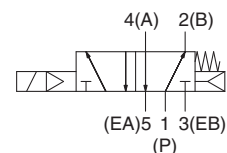
A 2-position single solenoid valve with a spring built into the main valve

The main valve returns to origin (the OFF position) via the spring when it is not pressurized.

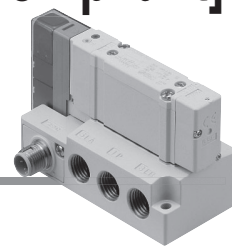
25A-SY $\frac{5}{7}$ 1 $\frac{0}{3}$ 0 $\square\square\square$ - $\square\square$ 1-X350

- Entry is the same as 25A-standard products. Specifications and performance are the same as standard products.

Internal pilot type



* The manual option is only applicable to the non-locking push type.



25A-SY5000/7000 Series

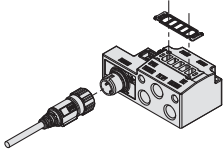
How to Order

In the case of **Sub-plate** (Sub-plate single unit part no.)

* Without valve

25A-SY **5** **0M-27-1-** **W5-** **02**

Series compatible with secondary batteries



* Base gasket is included.
* Valve mounting screws are not included.

1 Series

5	SY5000
7	SY7000

2 Wiring specifications

WO	Without M12 connector cable
W5	With M12 connector cable (3000 mm)

* Refer to the table below for connector cable part numbers.
* When ordering a product with M12 connector cable, the connector cable is included.

3 Port location (Sub-plate)

—	Side ported
B	Bottom ported
V	Top ported [1(P), 5(EA), 3(EB) port: Side ported]

5 Sub-plate thread type

—	Rc
F	G

4 Port size (Sub-plate)

Symbol	Port size	Applicable series
02	1/4	SY5000
03	3/8	SY7000

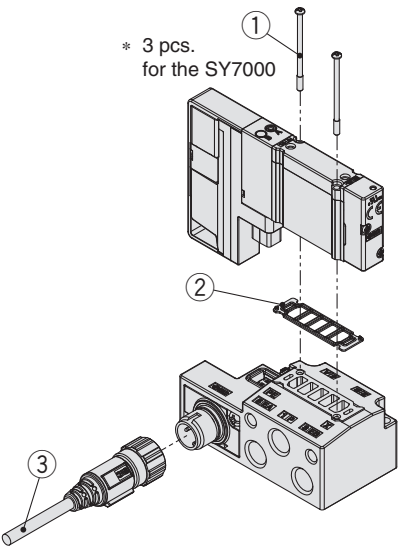
How to Order when mounting a special order (including Made-to-Order specification) valve on the sub-plate (Ordering example: X350)

25A-SY50M-27-1-W5-02	1 set (Sub-plate single unit part no.)
*25A-SY5100-5U1-X350	1 set (Built-in return spring specification)

Ordering example when mounting a manifold option (spacer, etc.)

25A-SY50M-27-1-W5-02	1 set (Sub-plate single unit part no.)
*25A-SY5400-5U1	1 set (3-position exhaust center part no.)
*25A-SY50M-39-1A-C6	1 set (Individual EXH spacer part no.)

Sub-plate Parts Nos.



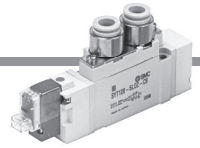
No.	Description	Part no.		Note
		SY5000	SY7000	
①	Round head combination screw	SY5000-223-1A (M3 x 32.5)	SY7000-224-1A (M3 x 36.5)	Part numbers shown on the left are for 10 valves (20 pcs.). (30 pcs. for the SY7000)
②	Base gasket (for sub-plate)	SY50M-11-1A	SY70M-11-1A	Part numbers shown on the left are for 10 valves (10 pcs.).
③	M12 waterproof connector cable	90-ZS-37-A-X258		Cable length: 3000 mm

5-Port Solenoid Valve Body Ported/Single Unit



25A-SY5000/7000 Series

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 centre
4	3-position exhaust centre
5	3-position pressure centre

Coil specifications

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

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

For DC

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

Rated voltage

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.

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

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	MN: Without lead wire	D, Y: With connector
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.

CE/UKCA-compliant

-	-
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

Bracket

-	Without bracket
F1	With foot bracket (2-position single only)
F2	With side bracket

Thread type

-	Rc
F	G

A, B port size Thread piping

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

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for Ø 4	SY5000
C6	One-touch fitting for Ø 6	
C8	One-touch fitting for Ø 8	
C8	One-touch fitting for Ø 8	SY7000
C10	One-touch fitting for Ø 10	

Manual override

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

Light/surge voltage suppressor

Electrical entry for G, H, L, M

-	Without light/surge 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)

Electrical entry for D, Y

-	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.

- * 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.

- * 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.

* The 25A- series specifications and dimensions are the same as those of the standard model.

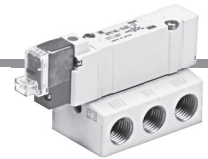
For details, refer to the Web Catalogue.

5-Port Solenoid Valve Base Mounted/Single Unit



25A-SY5000/7000 Series

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 centre
4	3-position exhaust centre
5	3-position pressure centre

Pilot type

—	Internal pilot
R	External pilot

Coil specifications

—	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 (50/60Hz)

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.

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

—	—
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

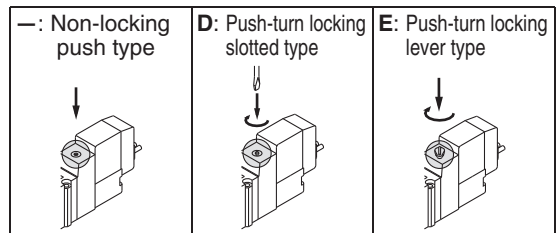
Thread type

—	Rc
F	G

Port size

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

Manual override



Light/surge voltage suppressor

Electrical entry for G, H, L, M

—	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

—	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.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

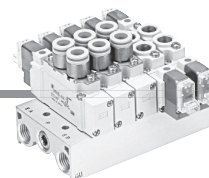
5-Port Solenoid Valve Body Ported Manifold Bar Stock Type/Individual Wiring

25A-SY5000/7000 Series



Type **20**

How to Order Manifolds



25A – SS5Y **5** – 20 – **05** – **□** – **□**

• Series compatible with secondary batteries

Manifold series

5	SY5000
7	SY7000

• CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

• Thread type

—	Rc
00F	G

• Stations

02	2 stations
⋮	⋮
20	20 stations

* The blanking plate assembly is included in this number.

* The 25A- series specifications and dimensions are the same as those of the standard model. However, the blanking plate assembly has different dimensions. Refer to page 67.

For details, refer to the **Web Catalogue**.

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 centre
4	3-position exhaust centre
5	3-position pressure centre

• Coil specifications

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

* DC specifications of type “D” and “Y” are only available with 12 and 24 VDC.
* AC-type models that are CE/UKCA-compliant have DIN terminals only.

• CE/UKCA-compliant

–	CE/UKCA-compliant
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

• Thread type

–	Rc
F	G

• A, B port size Thread piping

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

• One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for Ø 4	SY5000
C6	One-touch fitting for Ø 6	
C8	One-touch fitting for Ø 8	
C8	One-touch fitting for Ø 8	SY7000
C10	One-touch fitting for Ø 10	

• Manual override

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

• Light/surge voltage suppressor

Electrical entry for G, H, L, M

–	Without light/surge 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

–	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			
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)	D: With connector
H: With lead wire (Length 600 mm)	LN: Without lead wire	MN: Without lead wire	Y: With connector
	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.

* The 25A- series specifications and dimensions are the same as those of the standard model.

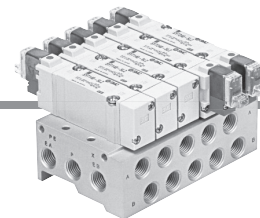
For details, refer to the Web Catalogue.

Type **41**
Type **42**

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



How to Order Manifolds



Type 41/Compact type

25A – SS5Y 5 – 41 – 05 – C8 [] – []

- Series compatible with secondary batteries

Manifold series

5	SY5000
---	--------

Stations

02	2 stations
⋮	⋮
20	20 stations

* The blanking plate assembly is included in this number.

Thread type

—	Rc
F	G

A, B port size
Thread piping

Symbol	Port size	Applicable series
01	1/8	SY5000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C6	One-touch fitting for Ø 6	SY5000
C8	One-touch fitting for Ø 8	

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"	

CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

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

* The blanking plate assembly is included in this number.

Thread type

—	Rc
F	G

A, B port size
Thread piping

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

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C6	One-touch fitting for Ø 6	SY5000
C8	One-touch fitting for Ø 8	
C10	One-touch fitting for Ø 10	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

CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

* The 25A- series specifications and dimensions are the same as those of the standard model. However, the blanking plate assembly has different dimensions. Refer to page 67.

For details, refer to the **Web Catalogue**.

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 centre
4	3-position exhaust centre
5	3-position pressure centre

Pilot type

—	Internal pilot
R	External pilot

Coil specifications

—	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 (50/60Hz)

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.

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

- CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

Manual override

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

Light/surge voltage suppressor

Electrical entry for G, H, L, M

—	Without light/surge 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

—	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)	D : With connector
H : With lead wire (Length 600 mm)	LN : Without lead wire	MN : Without lead wire	Y : With connector
	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.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

25A-SY5000/7000 Series

How to Order Pilot Valve Assembly (With two mounting screws)

25A - V111 - 5 G

Coil specifications

—	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

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC
1	100 VAC $50/60$ Hz
2	200 VAC $50/60$ Hz
3	110 VAC $50/60$ Hz [115 VAC $50/60$ Hz]
4	220 VAC $50/60$ Hz [230 VAC $50/60$ Hz]

* CE/UKCA-compliant:
For DC only.

Light/Surge voltage suppressor

—	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)

* For AC voltage valves there is no "S" option.
It is already built-in to the rectifier circuit.
* For "R" and "U", DC voltage is only available.
* Power-saving circuit is only available in the "Z" type.

Electrical entry

G	Grommet, 300 mm lead wire	
H	Grommet, 600 mm lead wire	
L	L plug connector	With lead wire
LN		Without lead wire
LO		Without connector
M	M plug connector	With lead wire
MN		Without lead wire
MO		Without connector

DIN terminal type

25A - V115 - 5 D

Rated voltage

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

* DC specifications of type D and Y is only available with 12 and 24 VDC.

Light/Surge voltage suppressor

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

* DOZ and YOZ are not available.
* For AC voltage valves there is no "S" option.
It is already built-in to the rectifier circuit.

Electrical entry

D	DIN terminal	With connector
DO	(Type D)	Without connector
Y	DIN terminal	With connector
YO	(Type Y)	Without connector

* Do not replace V111 (G, H, L, M) to V115 (DIN terminal) and vice versa when replacing pilot valve assembly only.

* Since V111 and V115 are CE/UKCA-compliant as standard, the suffix "-Q" is not necessary.

Bar Stock Type/Individual Wiring **25A-SY5000/7000 Series**

One-touch Fittings Part Nos. for Body Ported

Port size		25A-SY5000	25A-SY7000
Cylinder port	Metric size	Ø 4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
		Ø 6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6
		Ø 8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8
		Ø 10 One-touch fitting (Straight type)	90-VVQ2000-51A-C8 90-VVQ2000-51A-C10

Gasket Assembly Part Nos.

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 (-Q)	SY7000-GS-4 (-Q)

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

Bracket Assembly Part Nos.

Description	Part no.
Bracket (For F1)	25A-SX ⁵ 000-16-2A (With mounting screw)
Bracket (For F2)	25A-SX ⁵ 000-16-1A (With mounting screw)

Port Block Assembly Part Nos.

25A-SY **5** 000-6A- **01**

Series

5	SY5000
7	SY7000

Thread type

—	Rc
F	G

A, B port size

Thread piping

Symbol	Port size	Applicable series
01	1/8	25A-SY5000
02	1/4	25A-SY7000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for Ø 4	25A-SY5000
C6	One-touch fitting for Ø 6	
C8	One-touch fitting for Ø 8	
C8	One-touch fitting for Ø 8	25A-SY7000
C10	One-touch fitting for Ø 10	

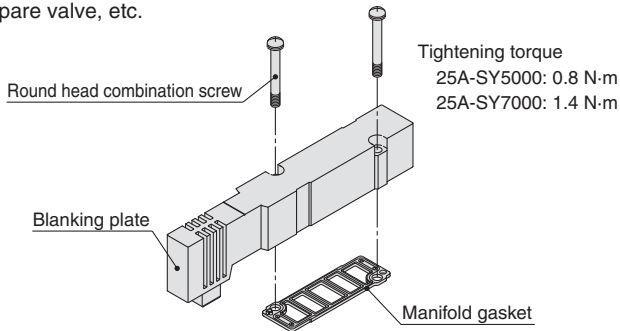
25A-SY5000/7000 Series

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

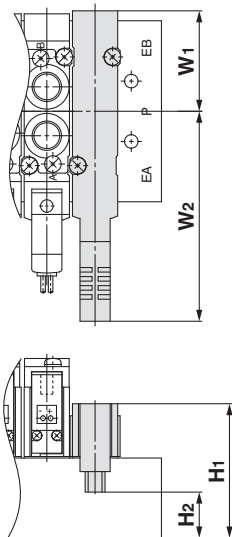
5	SY5000
7	SY7000

Caution

When mounted on a type 20 manifold, only the P port is plugged. In addition, it cannot be used for the type 20 CE/UKCA-compliant manifold.

Dimensions

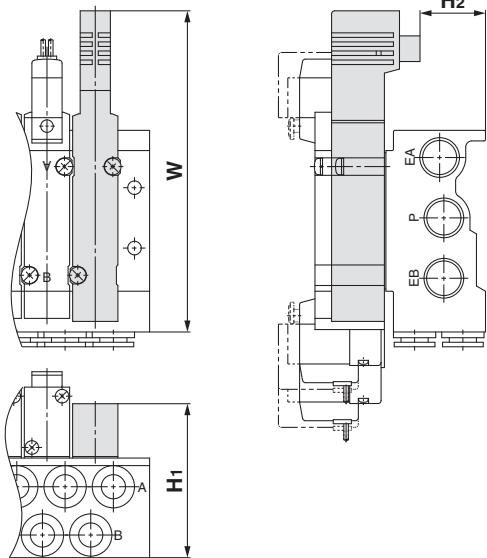
Manifold type/For type 20



Dimensions [mm]

Series	Manifold type	W1	W2	H1	H2
25A-SY5000	Type 20	33.3	69.6	44.5	15.2
25A-SY7000	Type 20	39.4	76.4	41.1	18.3

Manifold type/For type 41/42



Dimensions [mm]

Series	Manifold type	W	H1	H2
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

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular E.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Plug-in Unit/Base Mounted F Kit (D-sub connector kit) 25A-VQ2000 Series



* For CE/UKCA-compliant models, DC-type only.

[Option]

How to Order Manifolds

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**
- 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)

Symbol	Port size
C4	With Ø 4 One-touch fitting
C6	With Ø 6 One-touch fitting
C8	With Ø 8 One-touch fitting
L4	Top ported elbow with Ø 4 One-touch fitting
L6	Top ported elbow with Ø 6 One-touch fitting
L8	Top ported elbow with Ø 8 One-touch fitting

Symbol	Option
-	None
2	200/220 VAC models
B*1	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□*2	DIN rail length specified (□: Stations 02 to 24)
K*3	Special wiring specifications (Except double wiring)
N	With name plate
R*4	External pilot
S	Direct EXH outlet with built-in silencer

CE/UKCA-compliant
Q CE/UKCA-compliant

* For CE/UKCA-compliant models, DC-type only.

*1 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.

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

*3 Specify the wiring specifications by means of the manifold specification sheet.

*4 Indicate "R" for the valve with external pilot.

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



* For CE/UKCA-compliant models, DC-type only.

[Option]

How to Order Valves

25A-VQ 2 1 0 1 - 5 - - 1 -

- Series compatible with secondary batteries**
- Series**
2 VQ2000
- Seal type**
1 Rubber seal
- Function**
- Type of actuation**
- CE/UKCA-compliant**
Q CE/UKCA-compliant
- Manual override**
- Light/surge voltage suppressor**
- Coil voltage**

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

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

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

Symbol	Option
-	Yes
E	None

Coil voltage	CE/UKCA-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	●

⚠ Caution

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Plug-in Unit/Base Mounted T Kit (Terminal block box kit) 25A-VQ2000 Series



How to Order Manifolds

* For CE/UKCA-compliant models, DC-type only.

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 Ø 4 One-touch fitting
C6	With Ø 6 One-touch fitting
C8	With Ø 8 One-touch fitting
L4	Top ported elbow with Ø 4 One-touch fitting
L6	Top ported elbow with Ø 6 One-touch fitting
L8	Top ported elbow with Ø 8 One-touch fitting

• **Option**

Symbol	Option
—	None
B*1	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□*2	DIN rail length specified (□: Stations 02 to 20)
K*3	Special wiring spec. (Except double wiring)
N	With name plate
R*4	External pilot
S	Direct EXH outlet with built-in silencer
W	Enclosure: Dust-tight, Water-jet-proof (IP65)

• **CE/UKCA-compliant**

—	—
Q	CE/UKCA-compliant

* For CE/UKCA-compliant models, DC-type only.

*1 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.

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

*3 Specify the wiring specifications by means of the manifold specification sheet.

*4 Indicate "R" for the valve with external pilot.

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

* Specify the mounting position by means of the manifold specification sheet.

How to Order Valves

* For CE/UKCA-compliant models, DC-type only.



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 centre
4	3-position exhaust centre
5	3-position pressure centre
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
—	Standard	(0.4 W) ○	○
B	High speed response type	(0.95 W) ○	—
N	Negative common	○	—
R	External pilot	○	○

• **CE/UKCA-compliant**

—	—
Q	CE/UKCA-compliant

* For CE/UKCA-compliant models, DC-type only.

• **Enclosure**

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

• **Manual override**

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

• **Light/surge voltage suppressor**

—	Yes
E	None

• **Coil voltage**

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

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

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

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



* For CE/UKCA-compliant models, DC-type only.

[Option]

How to Order Manifolds

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 Ø 4 One-touch fitting
C6	With Ø 6 One-touch fitting
C8	With Ø 8 One-touch fitting
L4	Top ported elbow with Ø 4 One-touch fitting
L6	Top ported elbow with Ø 6 One-touch fitting
L8	Top ported elbow with Ø 8 One-touch fitting

Cable (Length)

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

CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* For CE/UKCA-compliant models, DC-type only.

Option

Symbol	Option
—	None
2	200/220 VAC models
B*1	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□*2	DIN rail length specified (□: Stations 02 to 08)
N	With name plate
R*3	External pilot
S	Direct EXH outlet with built-in silencer
W	Enclosure: Dust-tight, Water-jet-proof (IP65)

*1 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.

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

*3 Indicate "R" for the valve with external pilot.

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



* For CE/UKCA-compliant models, DC-type only.

[Option]

How to Order Valves

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 centre
4	3-position exhaust centre
5	3-position pressure centre
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 (0.4 W)	AC (0.95 W)
—	Standard	○	○
B	High speed response type	○	—
N	Negative common	○	—
R	External pilot	○	○

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

CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* For CE/UKCA-compliant models, DC-type only.

Enclosure

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

Manual override

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

Light/surge voltage suppressor

—	Yes
E	None

Coil voltage

	CE/UKCA-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	●

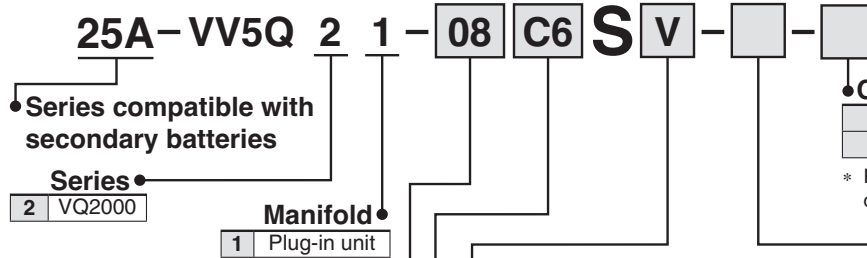
* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

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

* Refer to "SI Unit Part Nos." when ordering the CE/UKCA-compliant SI unit.



How to Order Manifolds



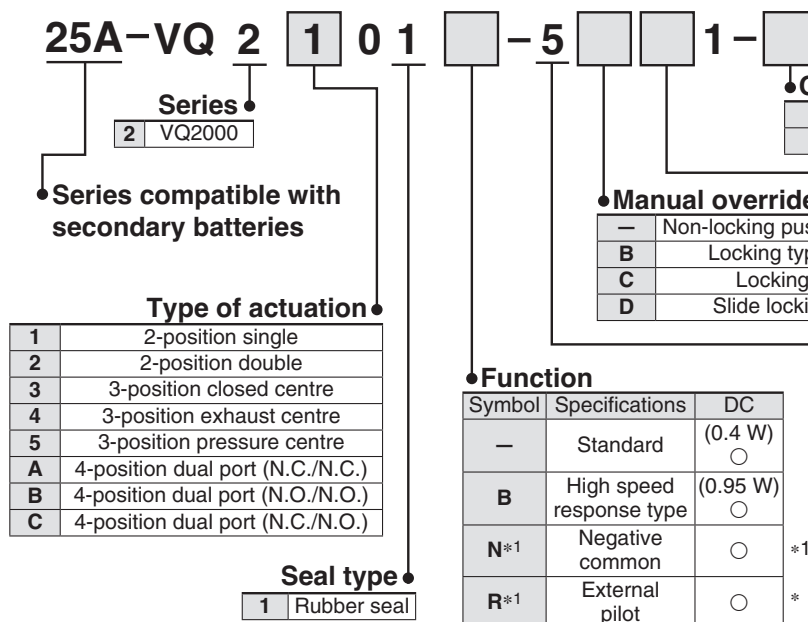
SI Unit Part Nos.

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

SI Unit Part Nos. (With option W)

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

How to Order Valves



* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

Sub-plate Single Unit

25A-VQ2000 Series

How to Order

* For CE/UKCA-compliant models, DC-type only.



In the case of **Valve** + **Sub-plate**

25A-VQ2 **1** **0** **1**-**5** **W** 1-02 **□**-**□**

Series compatible with secondary batteries

The entry is the same as that of the standard model.

Enclosure

—	Dustproof
W*1	Dust-tight/Water-jet-proof type (IP65)

*1 Valves are IP65 specifications.

* When the valve is a standard (dust-protected) specification, it is not compatible with 200 or 220 VAC.

CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* For CE/UKCA-compliant models, DC-type only.

Thread type

—	Rc
N	NPT
T	NPTF
F	G

Port size

02	1/4
----	-----

In the case of **Sub-plate** alone

25A-VQ2000-PW-02

* The 25A- series specifications and dimensions are the same as those of the standard model.

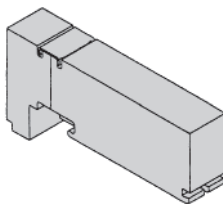
For details, refer to the **Web Catalogue**.

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.



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

SI Unit Part Nos.

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 Nos.

Port size		One-touch fitting part no.
Cylinder port	Metric size	Ø 4 One-touch fitting (Straight type)
		90-VVQ1000-51A-C4
		Ø 6 One-touch fitting (Straight type)
1 (P), 3 (R) port	Metric size	Ø 8 One-touch fitting (Straight type)
		90-VVQ1000-51A-C6
		90-VVQ1000-51A-C8
1 (P), 3 (R) port	Metric size	Ø 10 One-touch fitting (Straight type)
		90-VVQ2000-51A-C10

Plug-in/Plug Lead: Single Unit Base Mounted 25A-VQ4000 Series



How to Order Valves

Body

0: Plug-in sub-plate

Porting specifications

—	Side ported
B	Bottom ported

Port size

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

* Thread standard is the same as standard products.

Plug-in 25A-VQ4 1 0 1

Plug lead 25A-VQ4 2 5 1

Series compatible with secondary batteries

Type of actuation

1	2-position single
2	Rubber/2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
6*1	3-position double check

*1 For double check type, refer to the **Web Catalogue**.

Body

5: Plug lead sub-plate

Seal type

1	Rubber seal
---	-------------

Function

—*1	Standard type (0.95 W)
Y*2	Low wattage type (0.4 W)
R*3	External pilot

*1 When the unit is energised continuously, refer to "Specific Product Precautions 1" in the **Web Catalogue** (VQ4000 series).
*2 Only DC is available with Y.
*3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
* When two or more symbols are specified, indicate them alphabetically.

Enclosure

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

CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

Manual override

—: Non-locking push type (Tool required)

B: Slotted locking type (Tool required)

C: Locking type (Manual)

Light/Surge voltage suppressor

—	Yes
E	Without light, with surge voltage suppressor

Electrical entry

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

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

How to Order Sub-plates



25A-VQ4000 — — — — —

Series compatible with secondary batteries

Electrical entry

P	Plug-in conduit terminal
S	Plug lead

Enclosure

—	Dustproof
W*1	Dust-tight/Water-jet-proof type

*1 It is not necessary for plug lead type.

CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

Porting specifications

—	Side ported
B	Bottom ported*1

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

Port size

02	Rc1/4
03	Rc3/8

* The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalogue.**

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



How to Order Manifolds

25A – VV5Q 4 1 – 08 C8 F U 1 – –

- 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 Ø 6
C8	With One-touch fitting for Ø 8
C10	With One-touch fitting for Ø 10
C12	With One-touch fitting for Ø 12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

* As a semi-standard specification, the maximum number of stations can be increased by special wiring specifications.
- CE/UKCA-compliant**
Q CE/UKCA-compliant
- Option**

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

*1 Specify the wiring specifications on the manifold specification sheet.
- Cable (Length)**

0	Without cable
1	Cable length 1.5 m
2	Cable length 3 m
3	Cable length 5 m
- Connector entry direction**

D	D side entry
U	U side entry

How to Order Valves

25A – VQ 4 1 0 1 – 5 – – 1 –

- Series compatible with secondary batteries**
- Series**
4 VQ4000
- Type of actuation**

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
6	3-position double check
- Seal type**
1 Rubber seal
- Function**

–*1	Standard (0.95 W)
Y*2	Low wattage type (0.4 W)
R*3	External pilot

*1 When the unit is energised continuously, refer to "Specific Product Precautions 1" in the **Web Catalogue** (VQ4000 series).
*2 Only DC is available with Y.
*3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
* When two or more symbols are specified, indicate them alphabetically.
- CE/UKCA-compliant**
Q CE/UKCA-compliant
* CE/UKCA-compliant: For DC only.
- Manual override**

–	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
- Light/Surge voltage suppressor**

–	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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

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



How to Order Manifolds

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

* 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 Ø 6
C8	With One-touch fitting for Ø 8
C10	With One-touch fitting for Ø 10
C12	With One-touch fitting for Ø 12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

* 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
- CE/UKCA-compliant**

–	–
Q	CE/UKCA-compliant
- Option**

Symbol	Option
–	None
K*1	Special wiring specifications (Except double wiring, for 13 stations or more)
N*2	Name plate
W	IP65 enclosure

*1 Specify the wiring specifications on the manifold specification sheet.
*2 Name plate is inlaid in the terminal block cover.
* When two or more symbols are specified, indicate them alphabetically.
Example) -KM



How to Order Valves

25A – VQ 4 1 0 1 – 5 – – – 1 –

- Series compatible with secondary batteries**
- Series**
4 VQ4000
- Type of actuation**

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
6	3-position double check
- Seal type**
1 Rubber seal
- Function**

–*1	Standard (0.95 W)
Y*2	Low wattage type (0.4 W)
R*3	External pilot

*1 When the unit is energised continuously, refer to "Specific Product Precautions 1" in the **Web Catalogue** (VQ4000 series).
*2 Only DC is available with Y.
*3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
* When two or more symbols are specified, indicate them alphabetically.
- CE/UKCA-compliant**

–	–
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.
- Enclosure**

–	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)
- Manual override**

–	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
- Light/Surge voltage suppressor**

–	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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

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



How to Order Manifolds

25A – VV5Q 4 1 – 08 C8 L D – –

- 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 Ø 6
C8	With One-touch fitting for Ø 8
C10	With One-touch fitting for Ø 10
C12	With One-touch fitting for Ø 12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed
- CE/UKCA-compliant**

–	–
Q	CE/UKCA-compliant
- Option**

Symbol	Option
–	None
W	IP65 enclosure
- Cable (Length)**

0	Cable length 0.6 m
1	Cable length 1.5 m
2	Cable length 3 m
- Connector locations**

D	D side entry
U	U side entry

How to Order Valves



25A – VQ 4 1 0 1 – 5 – – – 1 –

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

4	VQ4000
---	--------
- Type of actuation**

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
6	3-position double check
- Seal type**

1	Rubber seal
---	-------------
- Function**

–*1	Standard (0.95 W)
Y*2	Low wattage type (0.4 W)
R*3	External pilot
- CE/UKCA-compliant**

–	–
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.
- Enclosure**

–	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)
- Manual override**

–	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
- Light /Surge voltage suppressor**

–	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

- *1 When the unit is energised continuously, refer to "Specific Product Precautions 1" in the **Web Catalogue** (VQ4000 series).
- *2 Only DC is available with Y.
- *3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
- * When two or more symbols are specified, indicate them alphabetically.

* The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalogue.**

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

* Refer to "SI Unit Part Nos."
when ordering the CE/
UKCA-compliant SI unit.



How to Order Manifolds

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

* 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 Ø 6
C8	With One-touch fitting for Ø 8
C10	With One-touch fitting for Ø 10
C12	With One-touch fitting for Ø 12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

• **CE/UKCA-compliant**

–	–
Q	CE/UKCA-compliant

• **Option**

Symbol	Option
–	None
K*1	Special wiring specifications (Except double wiring, for 11 stations or more)
W	IP65 enclosure

*1 Specify the wiring specifications on the manifold specification sheet.
* When two or more symbols are specified, indicate them alphabetically. Example) -KW

• **SI unit**

0	Without SI unit
Q	DeviceNet®
V	CC-Link

• **SI unit mounting position**

–	U side mounting
D	D side mounting



How to Order Valves

25A – VQ 4 1 0 1 – 5 – – – 1 –

• **Series compatible with secondary batteries**

• **Series**
4 VQ4000

• **Type of actuation**

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
6	3-position double check

• **Seal type**
1 Rubber seal

• **Function**

–*1	Standard (0.95 W)
Y*2	Low wattage type (0.4 W)
R*3	External pilot

*1 When the unit is energised continuously, refer to "Specific Product Precautions 1" in the **Web Catalogue** (VQ4000 series).
*2 Only DC is available with Y.
*3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
* When two or more symbols are specified, indicate them alphabetically.

• **CE/UKCA-compliant**

–	–
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

• **Enclosure**

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

• **Manual override**

–	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)

• **Light /Surge voltage suppressor**

–	Yes
E	Without light, with surge voltage suppressor

• **Coil voltage**
5 24 VDC

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

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



25A-VQ4000 Series

How to Order Manifolds

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 Ø 6
C8	With One-touch fitting for Ø 8
C10	With One-touch fitting for Ø 10
C12	With One-touch fitting for Ø 12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed
- Kit type**
C kit (Connector)
- CE/UKCA-compliant**
Q CE/UKCA-compliant
- Option**

Symbol	Option
–	None
W	IP65 enclosure

C Connector kit Max. 16 stations

Refer to the **Web Catalogue** 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 centre
4	3-position exhaust centre
5	3-position pressure centre
6	3-position double check
- Seal type**
1 Rubber seal
- Function**

–*1	Standard (0.95 W)
Y*2	Low wattage type (0.4 W)
R*3	External pilot
- Enclosure**

–	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)
- Light/Surge voltage suppressor**

–	Yes
E	Without light, with surge voltage suppressor
- Electrical entry**

G	Lead wire length 0.6 m
H	Lead wire length 1.5 m
- 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
- Manual override**

–	Non-locking push type (Tool required)	B	Locking type (Tool required)	C	Locking type (Manual)
---	---------------------------------------	---	------------------------------	---	-----------------------
- CE/UKCA-compliant**
Q CE/UKCA-compliant
- * CE/UKCA-compliant: For DC only.**

*1 When the unit is energised continuously, refer to "Specific Product Precautions 1" in the **Web Catalogue** (VQ4000 series).
 *2 Only DC is available with Y.
 *3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
 * When two or more symbols are specified, indicate them alphabetically.

* The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalogue.**

25A-VQ4000 Series

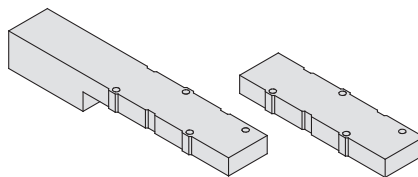
Manifold Options

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.



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

SI Unit Part Nos.

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 Nos.

Port size		One-touch fittings part no.
Cylinder port	Metric size	Ø 6 One-touch fitting (Straight type)
		Ø 8 One-touch fitting (Straight type)
		Ø 10 One-touch fitting (Straight type)
		Ø 12 One-touch fitting (Straight type)

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular E.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Plug-in Unit

25A-SQ2000 Series

How to Order Manifolds

25A-SS5Q23-08 FD2-D

• **Series compatible with secondary batteries**

• **Stations**

01	1 station
⋮	⋮
16*1	16 stations

*1 The maximum number of stations depends on the type of electrical entries.

• **Option**

—	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
S	Built-in silencer, direct exhaust

*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: -D09

*2 When "B" is selected, a back pressure check valve is included in all stations of the manifold. If the back pressure check valve is used only for the station that need it, then specify the station location in the manifold specification. ("B" is not necessary)

*3 Specify "K" for wiring specification for cases below. (Except L kit)

- All single wiring
- Single and double mixed wiring
- When there are stations which do not require wiring (e.g. single SUP spacer)

Specify the wiring specification in the manifold specification so that the number of solenoids is the maximum number of solenoids or less. (Standard wiring specification is double wiring)

* For specifying two or more options, enter them alphabetically. Example: -BKN

• **CE/UKCA-compliant**

—	—
Q	CE/UKCA-compliant

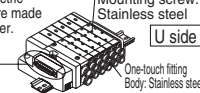
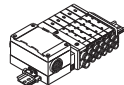
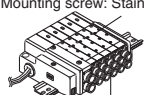
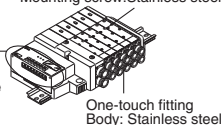
• **1(P), 3(R) port size**

—	1(P), 3(R) port One-touch fittings for Ø 10
00T	1(P), 3(R) port One-touch fittings for Ø 3/8"

• **Manifold mounting**

D	DIN rail mounting
E	Direct mounting

• **Electrical entry**

Kit type		Lead wire connector location	Cable specifications	Station	Max. number of stations for special wiring specifications	Max. number of solenoids
F kit The electric parts are made of copper. D-sub connector kit  Mounting screw: Stainless steel 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 Mounting screw: Stainless steel  One-touch fitting Body: Stainless steel Lead wire kit	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 The electric parts are made of copper. Serial transmission kit EX140 integrated-type (for output) serial transmission system*2  Mounting screw: Stainless steel 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

*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.)

*2 Refer to the **Web Catalogue** for the details of EX140 integrated-type (for output) serial transmission system. Refer to "SI unit part nos." below when ordering the CE/UKCA-compliant SI unit.

SI unit part nos.

Symbol	Protocol type	SI unit part no.	Page
SDQ	DeviceNet®	EX140-SDN1-X220	84
SDV	CC-Link	EX140-SMJ1-X220	

Blanking plate assembly

25A-SSQ2000-10A-3

How to Order Valves

25A—SQ2 **1** **3** **1** **5** **1** **C6** **CE/UKCA-compliant**

• **Series compatible with secondary batteries**

• **Type of actuation**

1	2-position single
2	2-position double (Double solenoid)*1
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

*1 For double solenoid specification, the function symbol below is "D."

• **Seal type**

1	Rubber seal
---	-------------

• **Function**

—	Standard (0.4 W DC)
B	Quick response type (0.95 W)
D*1	2-position double (Double solenoid specifications)
N*2	Negative common
R*3	External pilot specifications

*1 "D" is specified for 2-position double.
*2 For L kit, when the manifold specifies negative common, the valve common should also be negative.
*3 Except dual 3-port valves.
* When two or more symbols are specified, indicate them alphabetically.

• **Coil voltage**

5	24 VDC
6	12 VDC

* Light/Surge voltage suppressor is built-in.
* S kit: 24 VDC only

• **CE/UKCA-compliant**

—	—
Q	CE/UKCA-compliant

• **With/Without manifold block**

—	M	MB
Without manifold block	With manifold block	With manifold block, built-in back pressure check valve
• When ordering with manifolds	For adding stations	
• When only valves are required.		

* Lead wire is not included. * Lead wire is not included.

• **Port plug mounting port**

—	None
A	Port 4(A)
B	Port 2(B)

• **Cylinder port**

C4	One-touch fittings for Ø 4	Side ported	
C6	One-touch fittings for Ø 6		
C8	One-touch fittings for Ø 8		
L4	One-touch fittings for Ø 4	Top ported *1	
L6	One-touch fittings for Ø 6		
L8	One-touch fittings for Ø 8		

*1 Can be changed to side ported configuration.

• **Manual override**

—	B	D
Non-locking push type (Tool required)	Locking type (Tool required)	Slide locking type (Manual type) * Only side ported type applicable

SI Unit Part Nos.

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

One-touch Fittings Part Nos.

Port size		One-touch fittings part no.	
Cylinder port	Metric size	Ø 4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
		Ø 6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6
		Ø 8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8
1 (P), 3 (R) port	Metric size	Ø 10 One-touch fitting (Straight type)	90-VVQ2000-51A-C10

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Plug Lead Unit

25A-SQ2000 Series

How to Order Manifolds

25A – SS5Q24 – 08 FD2 – D – – –

• Series compatible with secondary batteries

Stations

01	1 station
⋮	⋮
16*1	16 stations

*1 The maximum number of stations depends on the type of electrical entries.

Manifold mounting

D	DIN rail mounting
E*1	Direct mounting

*1 Type "E" is only available with a C kit.

CE/UKCA-compliant

–	–
Q	CE/UKCA-compliant

1(P), 3(R) port size

–	1(P), 3(R) port, One-touch fittings for Ø 10
00T	1(P), 3(R) port, One-touch fittings for Ø 3/8"

Option

–	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
S	Built-in silencer, direct exhaust

*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: -D09

*2 When "-B" is selected, a back pressure check valve is included in all stations of the manifold. If the back pressure check valve is used only for the station that need it, then specify the station location in the manifold specification. ("-B" is not necessary)

*3 Specify "-K" for wiring specification for cases below. (Except C kit)

- All single wiring - Single and double mixed wiring
Specify the wiring specification in the manifold specification so that the number of solenoids is the maximum number of solenoids or less. (Standard wiring specification is double wiring)

* For specifying two or more options, enter them alphabetically. Example: -BKN

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-sub connector kit	D side	FD0	1 to 12 stations	16 stations	24
		FD1			
		FD2			
		FD3			
C kit Connector kit	C	—	1 to 16 stations	—	—

*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 **Web Catalogue** for manifold spare parts.

How to Order Valves

25A-SQ2 **1** **4** **1** **5** **L** **1** **C6**

• **Series compatible with secondary batteries**

Type of actuation

1	2-position single
2	2-position double (Double solenoid)*1
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
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.)

*1 For double solenoid specification, the function symbol below is "D."

Seal type

1	Rubber seal
----------	-------------

Function

—	Standard (0.4 W DC)
B	Quick response type (0.95 W)
D *1	2-position double (Double solenoid specifications)
N	Negative COM
R *2	External pilot specifications

*1 "D" is specified for 2-position double.

*2 Except dual 3-port valves.

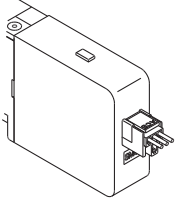
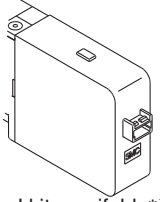
* When two or more symbols are specified, indicate them alphabetically.

Coil voltage

5	24 VDC
6	12 VDC

* 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*1

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

One-touch Fittings Part Nos.

Port size			One-touch fittings part no.
Cylinder port	Metric size	Ø 4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
		Ø 6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6
		Ø 8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8
	Metric size	Ø 10 One-touch fitting (Straight type)	90-VVQ2000-51A-C10

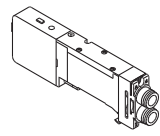
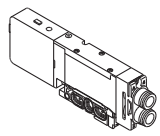
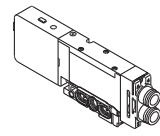
* The 25A-series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

• **CE/UKCA-compliant**

—	—
Q	CE/UKCA-compliant

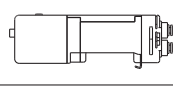
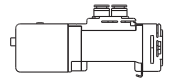
With/Without manifold block

—	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

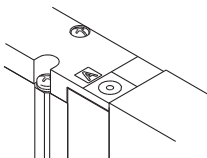
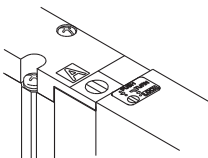
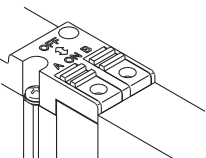
—	None
A	Port 4(A)
B	Port 2(B)

Cylinder port

C4	One-touch fitting for Ø 4	Side ported	
C6	One-touch fitting for Ø 6		
C8	One-touch fitting for Ø 8		
L4	One-touch fitting for Ø 4	Top ported *1	
L6	One-touch fitting for Ø 6		
L8	One-touch fitting for Ø 8		

*1 Can be changed to side ported configuration.

Manual override

—	B	D
Non-locking push type (Tool required)	Locking type (Tool required)	Slide locking type (Manual type) * Only side ported type applicable
		

Base Mounted
Plug Lead Unit

5-Port Solenoid Valve

25A-VQZ1000 Series

Single Unit



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 centre
4	3-position exhaust centre
5	3-position pressure centre
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
—	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) ○	—

• **CE/UKCA-compliant**

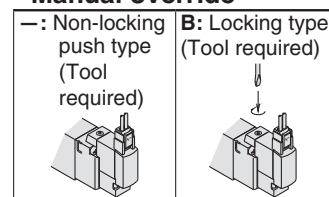
—	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

• **Port size**

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

• **Manual override**



• **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

• **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

Caution

Use standard (DC) specification for continuous duty.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Base Mounted
Plug Lead Unit

5-Port Solenoid Valve

25A-VQZ1000 Series

Manifold Connector Kit



How to Order Manifolds

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	Ø 4 One-touch fitting
C6	Ø 6 One-touch fitting
M5	M5 thread
CM*1	Mixture of port sizes

CE/UKCA-compliant

Q	CE/UKCA-compliant

Option

	None
R	External pilot type

Kit type
C Connector

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

How to Order Valves

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 centre
4	3-position exhaust centre
5	3-position pressure centre
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
—	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)	—

CE/UKCA-compliant

Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

Manual override

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

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	

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



Caution
Use standard (DC) specification for continuous duty.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Body Ported
Plug Lead Unit

5-Port Solenoid Valve

25A-VQZ1000 Series

Single Unit



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 centre
4	3-position exhaust centre
5	3-position pressure centre
8	3-port for mixture mounting N.C.
9	3-port for mixture mounting N.O.

* 3-port for mixture mounting is only available for port size C4 or C6.

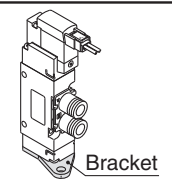
• **CE/UKCA-compliant**

—	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

• **Option**

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



• **Port size [4(A), 2(B) port]**

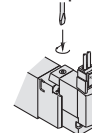
Symbol	Port size
C4	Ø 4 One-touch fitting
C6	Ø 6 One-touch fitting
M5	M5 thread

• **Manual override**

—: Non-locking push type
(Tool required)



B: Locking type
(Tool required)



• **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

• **Body type**

2 Body ported

• **Seal type**

1 Rubber seal

• **Function**

Symbol	Specifications	DC	AC
—	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



Caution

Use standard (DC) specification for continuous duty.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Body Ported
Plug Lead Unit

5-Port Solenoid Valve

25A-VQZ1000 Series

Manifold Connector Kit



How to Order Manifolds

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/UKCA-compliant**
Q CE/UKCA-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 centre
4	3-position exhaust centre
5*1	3-position pressure centre
8*1	3-port for mixture mounting N.C.
9*1	3-port for mixture mounting N.O.

*1 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
-	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	-
- CE/UKCA-compliant**
Q CE/UKCA-compliant
* CE/UKCA-compliant: For DC only.
- Port size [4(A), 2(B) port]**

Symbol	Port size
C4	Ø 4 One-touch fitting
C6	Ø 6 One-touch fitting
M5	M5 thread
- Manual override**

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



Caution

Use standard (DC) specification for continuous duty.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Plug-in Unit Base Mounted

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

How to Order

Double check block

25A-VQ1000-FPG-C4 M5-F

- Series compatible with secondary batteries

IN side port size

M5	M5 thread
C3	Ø 3.2 One-touch fitting
C4	Ø 4 One-touch fitting
C6	Ø 6 One-touch fitting

OUT side port size

M5	M5 thread
C3	Ø 3.2 One-touch fitting
C4	Ø 4 One-touch fitting
C6	Ø 6 One-touch fitting

Option

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

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

Manifold (DIN rail mounting)

25A-VVQ1000-FPG-06

- Series compatible with secondary batteries

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

<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	0.22 to 0.25 N·m

Double check block

25A-VQ2000-FPG-01 01-F

- Series compatible with secondary batteries

IN side port size

01	Rc 1/8
02	Rc 1/4
C6	Ø 6 One-touch fitting
C8	Ø 8 One-touch fitting

OUT side port size

01	Rc 1/8
02	Rc 1/4
C6	Ø 6 One-touch fitting
C8	Ø 8 One-touch fitting

Option

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

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

Manifold (DIN rail mounting)

25A-VVQ2000-FPG-06

- Series compatible with secondary batteries

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

<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	0.8 to 1.0 N·m

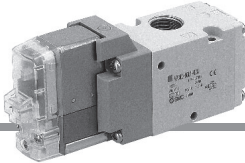
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Rubber Seal

3-Port/Pilot Poppet Type

25A-VP342/542/742 Series



How to Order



* 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

—	Internal pilot
R	External pilot

Pressure specification

—	Standard (0.7 MPa)
K	High pressure type (1.0 MPa)

Coil specification

—	Standard
T	With power-saving circuit (DC only)

* Be sure to select the power-saving circuit type if it is to be continuously energised for long periods of 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		AC (50/60 Hz)	
5	24 VDC	1	100 VAC
6	12 VDC	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/UKCA-compliant	DC	DC	DC
	AC	AC	AC

Thread type

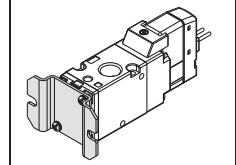
—	Rc
F	G
N	NPT
T	NPTF

Type of actuation

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

Bracket

—	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

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

Light/surge voltage suppressor

		DC	AC
—	Without light/surge voltage suppressor	○	○
S	With surge voltage suppressor	○	—*1
Z	With light/surge voltage suppressor	○	○
R	With surge voltage suppressor (Non-polar)	○	—
U	With light/surge voltage suppressor (Non-polar)	○	—

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Rubber Seal

3-Port/Pilot Poppet Type

25A-VP344/544/744 Series



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

How to Order

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

—	Internal pilot
R	External pilot

Pressure specifications

—	Standard (0.7 MPa)
K	High pressure type (1.0 MPa)

Coil specifications

—	Standard
T	With power-saving circuit (DC only)

* Be sure to select the power-saving circuit type if it is to be continuously energised for long periods of 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		AC (50/60 Hz)	
5	24 VDC	1	100 VAC
6	12 VDC	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/UKCA-compliant	DC	DC	DC
	AC	AC	AC

Thread type

—	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
—	Without sub-plate*1			
01	1/8	○	—	—
02	1/4	○	○	—
03	3/8	—	○	○
04	1/2	—	—	○

*1 With a gasket and two mounting bolts.

Manual override

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

Light/surge voltage suppressor

		DC	AC
—	Without light/surge voltage suppressor	○	○
S	With surge voltage suppressor	○	—*1
Z	With light/surge voltage suppressor	○	○
R	With surge voltage suppressor (Non-polar)	○	—
U	With light/surge voltage suppressor (Non-polar)	○	—

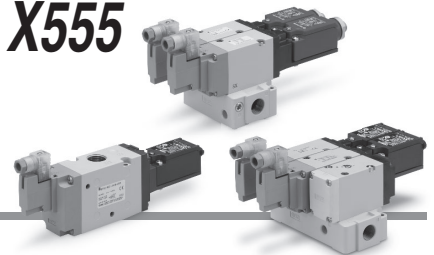
*1 There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

3-Port Solenoid Valve/Residual Pressure Release Valve with Detection of Main Valve Position

25A-VP500/700-X536, X538, X555



How to Order

Residual pressure release valve

25A-VP 5 4 2 R - 5 D Z 1 - 03 - M - X536

Dual residual pressure release valve

25A-VP 5 4 4 R - 5 D Z 1 - 03 - M A - X538

Dual residual pressure release valve with soft start-up function

25A-VP 5 4 4 - 5 D Z 1 - 03 - M - X555

Series	
5	VP500
7	VP700

Body	
2	Body ported
4	Base mounted

Pilot	
—	Internal pilot
R	External pilot

Voltage	
5	24 VDC

Electrical entry	
D	DIN terminal

Light/surge voltage suppressor	
Z	With light/surge voltage suppressor

Port size	Port size	VP500	VP700
03	3/8"	●	—
04	1/2"	—	●

Thread	
—	Rc
F	G
N	NPT

Safety limit switch/Wiring

—	G1/2 (Made by OMRON)
M	M12 connector (Made by OMRON)
S1	M12 connector (Made by Rockwell Automation)

With check valve (Only external pilot)

	Check valve	Applicable tube O.D.	Thread		
			Rc	G	NPT
—	None	—	●	●	●
A	Yes	Ø 6	●	—	—
B		Ø 1/4"	—	—	●

* For the internal pilot, the symbol is —.

Throttle

—	Variable throttle
10	Ø 1 fixed orifice
15	Ø 1.5 fixed orifice
20*1	Ø 2 fixed orifice

*1 VP700 only

Internal Pilot Type

Caution

Valve may not operate properly when air supply to P port is not adequate and the supply pressure to the valve is lower than 0.25 MPa, the minimum operating pressure. Be careful with insufficient supply pressure.

Piping for External Pilot Type

Caution

The product may not operate when the external pilot pressure is insufficient due to simultaneous operation or restricted air piping. In this case, use the check valve (AKH series) with the external pilot port, change the piping size or adjust the set pressure to provide a constant pressure of 0.25 MPa or more.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

3-Port Solenoid Valve Direct Operated Poppet Type

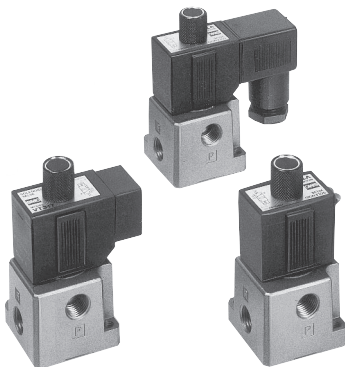
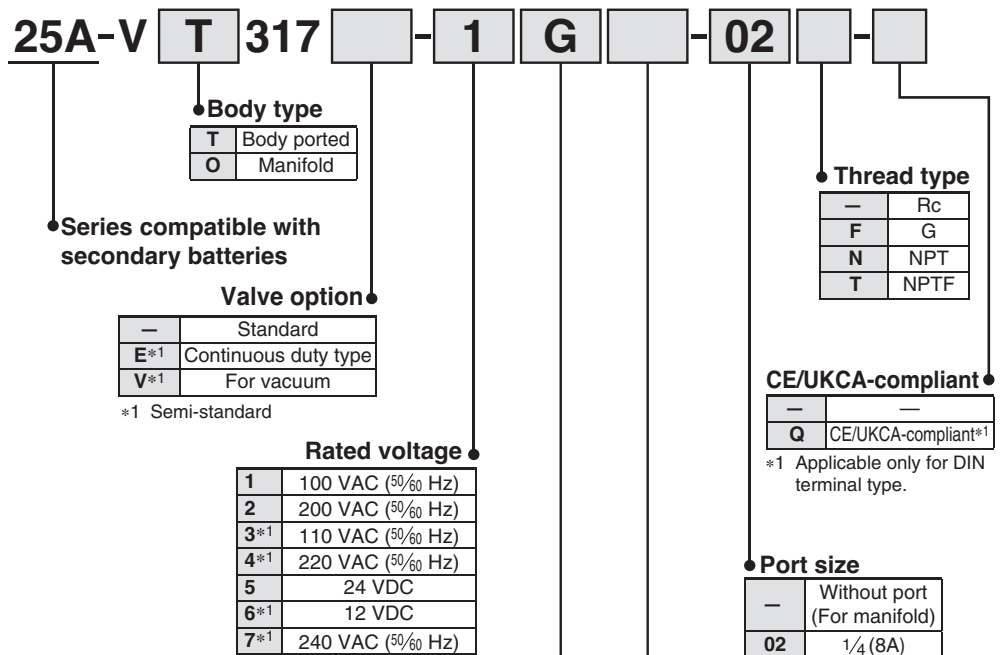
25A-VT317 Series

Rubber Seal



* CE/UKCA-compliant:
For DIN terminal type.

How to Order



		CE/UKCA-compliant
Electrical entry		
G	Grommet, 300 mm lead wire	—
H	Grommet, 600 mm lead wire	—
C	Conduit	—
D	DIN terminal	●

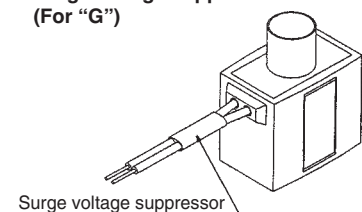
		CE/UKCA-compliant				
		Light/Surge voltage suppressor				
Electrical entry	Symbol	G	H	C	D	D Only
		●	●	●	●	●
S	●*1	●*1	●*1	●	●	●
Z	—	—	—	●	●	●

S: With surge voltage suppressor

*1 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.)*1 Bolts (XT012-25C#1, 2 pcs.)

*1 It is not applied to "Continuous duty type." Refer to the accessories in the **Web Catalogue**.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

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

Low power consumption

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

No lubrication required

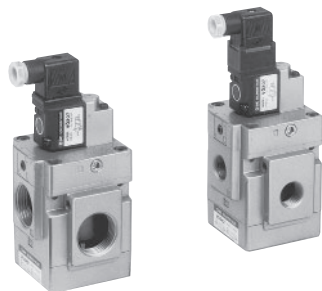
Possible to use in vacuum or under low pressures

External pilot
Vacuum: Up to -101.2 kPa
Low pressure: 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**

• Series compatible with secondary batteries

Valve option

—	Internal pilot
R	External pilot

Rated voltage

5	24 VDC
6*1	12 VDC

*1 Semi-standard

Electrical entry

D	DIN terminal
----------	--------------

Light/Surge voltage suppressor

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

Pilot valve option

—	Standard type
Y*1	Energy-saving type (DC only)
E*1	Continuous duty type

*1 Semi-standard

Passage symbol

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

Thread type

—	Rc
---	----

Port size

04	1/2
06	3/4
10	1

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

5-Port Air Operated Valve

25A-SYA5000/7000 Series

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

Series

5	SYA5000
7	SYA7000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre

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	Ø 4 One-touch fitting	SYA5000
C6	Ø 6 One-touch fitting	
C8	Ø 8 One-touch fitting	
C8	Ø 8 One-touch fitting	SYA7000
C10	Ø 10 One-touch fitting	

Port size

Symbol	Port size	Applicable series
–	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 the SY series (Non plug-in type) are prepared.
(For 20, 41 and 42 Types)

25A-SS5YA⁵₇-

Fill the same as 25A-SS5Y⁵₇.

(Refer to pages 61 and 63.)

* 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 the assembly part no.)

↳ The asterisk denotes the symbol for the assembly.

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

* 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 66.)

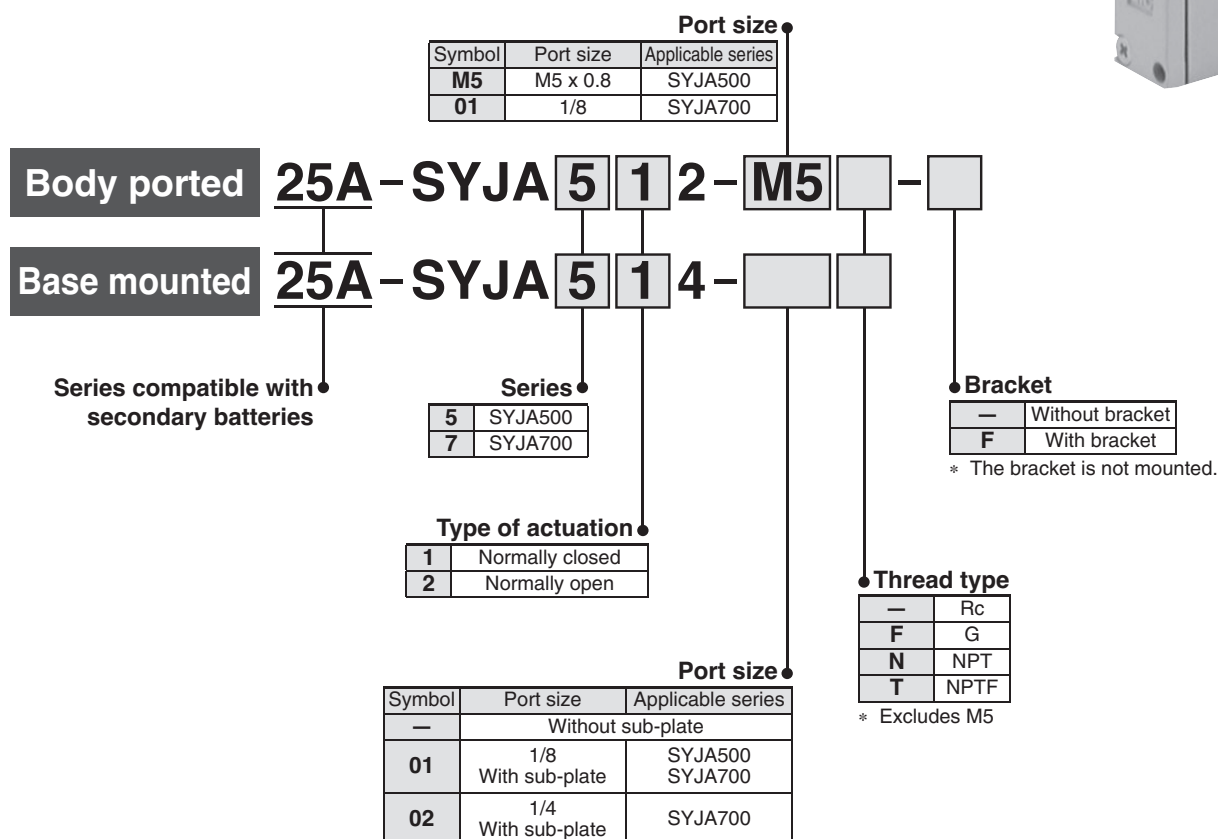
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

3-Port Air Operated Valve

25A-SYJA500/700 Series

How to Order



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

25A-SYJA500/700 Series

Manifold Type for the SYJA500

Type 20

How to Order

25A - SS3YJA5 - 20 - **05**

Stations

02	2 stations
:	:
20	20 stations

Applicable valve
25A-SYJA5□2

Applicable blanking
plate assembly
25A-SYJ500-10-1A

* For more than 6 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Type 40

How to Order

25A - SS3YJA5 - 40 - **05** **M5**

Stations

02	2 stations
:	:
20	20 stations

A port size

M5	M5 x 0.8
01	1/8

Applicable valve
25A-SYJA5□4

Applicable blanking
plate assembly
25A-SYJ500-10-3A

* For more than 9 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Type 41

How to Order

25A - SS3YJA5 - 41 - **05** - **C6**

Stations

02	2 stations
:	:
20	20 stations

A port size

M5	M5 x 0.8
01	1/8
C4	Ø 4 One-touch fitting
C6	Ø 6 One-touch fitting

Applicable valve
25A-SYJA5□4

Applicable blanking
plate assembly
25A-SYJ500-10-3A

* For more than 9 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Manifold Type for the SYJA700

Type 20/21

How to Order

25A - SS3YJA7 - **20** - **05**

Manifold type

20	Type 20
21	Type 21

Stations

02	2 stations
:	:
20	20 stations

Applicable valve
25A-SYJA7□2

Applicable blanking
plate assembly
25A-SYJ700-10-1A

* If there are more than 6 stations for type 20, or more than 9 stations for type 21, supply air to both sides of P port and exhaust air from both sides of R port.

Type 40/41

How to Order

25A - SS3YJA7 - **40** - **05** - **01**

Manifold type

40	Type 40
41	Type 41

A port size

01	1/8
----	-----

Stations

02	2 stations
:	:
20	20 stations

Applicable valve
25A-SYJA7□4

Applicable blanking
plate assembly
25A-SYJ700-10-2A

* If there are more than 6 stations for type 40, or more than 9 stations for type 41, supply air to both sides of P port and exhaust air from both sides of R port.

Type 42

How to Order

25A - SS3YJA7 - 42 - **05** - **C6**

Stations

02	2 stations
:	:
20	20 stations

A port size

01	1/8
C6	Ø 6 One-touch fitting
C8	Ø 8 One-touch fitting

Applicable valve
25A-SYJA7□4

Applicable blanking
plate assembly
25A-SYJ700-10-2A

* For more than 9 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Finger Valve

RoHS

25A-VHK□A Series

How to Order

25A-VHK **2** **A** - **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	R 1/8
02S	R 1/4
03S	R 3/8

Bracket

Nil	None
L	With L-bracket

* Bracket and screws are attached.

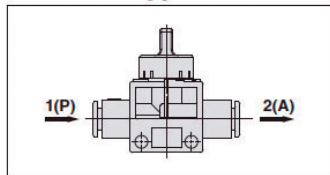
Knob color

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

2(A) port size

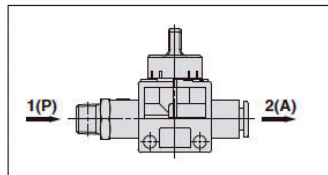
04F	ø4
06F	ø6
08F	ø8
01S	R 1/8
02S	R 1/4
03S	R 3/8

Standard Type



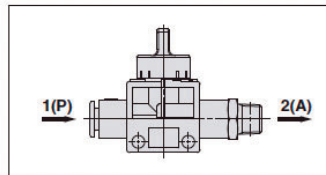
1(P): One-touch fitting
2(A): One-touch fitting

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



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

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



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

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

OSHA Standard Compliant Pressure Relief 3-Port Valve with Locking Holes

Single Action

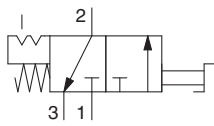
25A-VHS20/30/40/50-D Series

Double Action

25A-VHS20W/30W/40W/50W-D Series

RoHS

Symbol



How to Order

25A-VHS **30** **03** **D**

1 2 3 4 5 6

• Series compatible with secondary batteries

• Option/Semi-standard: Select one each for a to f.

• Option/Semi-standard symbol:

When more than one specification is required, indicate in alphanumeric order.

Example) 25A-VHS30-N03-BS-RZ-D

	Symbol	Description	1			
			Body size			
			20	30	40	50
2	—	Single action	●	●	●	●
	W	Double action	●	●	●	●
3	—	Rc*1	●	●	●	●
	N	NPT	●	●	●	●
	F	G	●	●	●	●
4	01	1/8	●	—	—	—
	02	1/4	●	●	●	—
	03	3/8	—	●	●	—
	04	1/2	—	—	●	—
	06	3/4	—	—	●	●
	10	1	—	—	—	●
5	a	—	●	●	●	●
		B	●	●	●	●
	b	—	●	●	●	●
		S	●	●	●	●
6	c	—	●	●	●	●
		K	●	●	●	●
	d	—	●	●	●	●
		M	●	●	●	●
	e	—	●	●	●	●
		R	●	●	●	●
f	—	Product label in SI units: MPa	●	●	●	●
		Z*2	○*3	○*3	○*3	○*3

*1 The pipe thread type for the EXH port is G.

*2 For the pipe thread type: NPT only.

*3 ○: For the pipe thread type: NPT only

Option/Part Nos.

Optional specifications	Model				
	25A-VHS20-D	25A-VHS30-D	25A-VHS40-D	25A-VHS40-06-D	25A-VHS50-D
Bracket assembly*1	25A-VHS24P-180AS	25A-VHS34P-180AS	25A-VHS44P-180AS	25A-VHS44P-180AS	25A-VHS54P-180AS
Silencer assembly*2	VHS24P-190AS	VHS34P-190AS	VHS44P-190AS	VHS54P-190AS	VHS54P-190AS

*1 The assembly consists of a bracket A/B and 2 mounting screws.

*2 The assembly consists of the element assembly and an O-ring.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Conforming to OSHA Standard

Pressure Relief 3-Port Valve with Locking Holes (Single Action)

25A-VHS20/30/40/50 Series

RoHS

How to Order

Single action

25A-VHS 40 - 04 A-B -

Series compatible with secondary batteries

Pressure relief 3-port valve

Body size

Symbol
20
30
40
50

Thread type

—	Rc
N	NPT
F	G

Port size

Symbol	Port size	Body size			
		20	30	40	50
01	1/8	●	—	—	—
02	1/4	●	●	●	—
03	3/8	—	●	●	—
04	1/2	—	—	●	—
06	3/4	—	—	●	●
10	1	—	—	—	●

Handle/Bonnet material

Symbol	Material
A	Flame-resistant PBT
B	Aluminium

Made to order

Symbol	Description
X1	Body: Red

Semi-standard specifications

Symbol	Description
—	—
K	Handle colour: Black
R	Flow direction: Right → Left
Z*1	psi as unit displayed on label

*1 Only for the NPT thread

Options

Symbol	Description
—	—
B	With bracket

Option Part Nos.

Model	Bracket assembly part no.*1
25A-VHS20	VHS20PW-180AS-6
25A-VHS30	VHS30PW-180AS-6
25A-VHS40	VHS40PW-180AS-6
25A-VHS40-06	VHS40PW-180-06AS-6
25A-VHS50	VHS50PW-180AS-6

*1 Bracket/1 pc., Mounting screw/2 pcs.

OSHA standard (Occupational Safety and Health Administration Department of Labor)

For safety control, OSHA rule requires energy sources for certain equipment be turned off or disconnected and that the device either be locked or labelled with a warning tag.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Conforming to OSHA Standard

Pressure Relief 3-Port Valve with Locking Holes (Double Action)

25A-VHS2510/3510/4510/5510 Series

RoHS

How to Order

Double action **25A-VHS** **4** **510** - **04** **A** - **B** - **X1** - **K** - **R** - **Z**

Series compatible with secondary batteries
Pressure relief 3-port valve
Body size
Double action
Thread type
Port size
Handle/Bonnet material
Options
Made to order
Semi-standard specifications

Symbol	Description
2	Body size 2
3	Body size 3
4	Body size 4
5	Body size 5

Symbol	Description
—	Rc
N	NPT
F	G

Symbol	Port size	Body size			
		2	3	4	5
01	1/8	●	—	—	—
02	1/4	●	●	●	—
03	3/8	—	●	●	—
04	1/2	—	—	●	—
06	3/4	—	—	●	●
10	1	—	—	—	●

Symbol	Material
A	Flame-resistant PBT
B	Aluminium

Symbol	Description
—	—
B	With bracket

Symbol	Description
X1	Body: Red

Symbol	Description
—	—
K	Handle colour: Black
R	Flow direction: Right → Left
Z*1	psi as unit displayed on label

*1 Only for the NPT thread.

Option Part Nos.

Model	Bracket assembly part no.*1
25A-VHS2510	VHS20PW-180AS-6
25A-VHS3510	VHS30PW-180AS-6
25A-VHS4510	VHS40PW-180AS-6
25A-VHS4510-06	VHS40PW-180-06AS-6
25A-VHS5510	VHS50PW-180AS-6

*1 Bracket/1 pc., Mounting screw/2 pcs.

OSHA standard (Occupational Safety and Health Administration Department of Labor)

For safety control, OSHA rule requires energy sources for certain equipment be turned off or disconnected and that the device either be locked or labelled with a warning tag.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

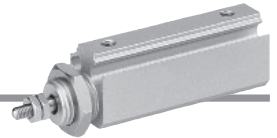
Pin Cylinder: Double Acting, Single Rod

25A-CJP2 Series

∅ 4, ∅ 6, ∅ 10, ∅ 16

RoHS

How to Order



25A - C**CDJP2** **F** **10** - **15** **D** - **□** - **M9BW** **S**

Series compatible
with secondary
batteries

With auto switch
(Built-in magnet)

Mounting

Symbol	Mounting	Standard	Built-in magnet
B	Basic	●	●
F	Flange	●	●
L	Foot	●	●
D	Clevis	●	●
T	Trunnion	●	●

- * Bore size of 4 mm is available with basic mounting only.
- * Mounting brackets are shipped together with the product but do not come assembled.
- * Trunnion mounting type is shipped after assembled.

Bore size

4	4 mm
6	6 mm
10	10 mm
16	16 mm

Number of
auto switches

—	2
S	1

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 255 for applicable auto switch models.

Rod end thread

—	With thread
B	Without thread

Double acting

Cylinder standard stroke

Bore size [mm]	Stroke [mm]
4	5, 10, 15, 20*1
6	5, 10, 15, 20, 25
10, 16	5, 10, 15, 20, 25, 30, 35, 40

*1 20 stroke of bore size 4 mm is standard type only.

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-CDJP2F10-15D

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Flange	Foot	Trunnion
6	25A-CP-F006A	25A-CP-L006A	25A-CP-T006A
10	25A-CP-F010A	25A-CP-L010A	25A-CP-T010A
16	25A-CP-F016A	25A-CP-L016A	25A-CP-T016A

Accessory Bracket Part Nos. for the 25A- Series

Bore size [mm]	Single knuckle joint	Double knuckle joint	Knuckle joint pin	Trunnion pin	Mounting nut	Rod end nut
4	—	—	—	—	25A-SNPS-004	25A-NTJ-004
6	25A-I-P006A	25A-Y-P006A	25A-IY-P006	25A-CT-P006	25A-SNP-006	25A-NTP-006
10	25A-I-P010A	25A-Y-P010A	25A-IY-P010	25A-CT-P010	25A-SNP-010	25A-NTP-010
16	25A-I-P016A	25A-Y-P016A	25A-IY-P016	25A-CT-P016	25A-SNP-016	25A-NTP-016

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Air Cylinder: Standard Type Double Acting, Single Rod

25A-CJ2 Series

Ø 10, Ø 16

RoHS



How to Order

25A-C D J2 L 16 - 60 A Z - M9BW - B

Series compatible
with secondary
batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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 brackets are
shipped together with the
product but do not come
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

* The manufacturing of intermediate strokes in 1 mm
increments is possible. (Spacers are not used.)

Auto switch mounting type

B	Band mounting
---	---------------

* Refer to page 263
for auto switch
mounting brackets.

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 255 for applicable auto
switch models.

* Enter the auto switch mounting type (B)
even when a built-in magnet cylinder
without an auto switch is required.

Head cover port location

Bore size [mm]	Symbol	Ø 10, Ø 16
—	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.

Cushion

—	Rubber bumper
A	Air cushion

Mounting Bracket Part Nos. for the 25A- Series

Mounting bracket	Bore size [mm]	
	10	16
Foot bracket	25A-CJ-L010B	CJ-L016SUS
Flange bracket	25A-CJ-F010B	CJ-F016SUS

* The 25A- series specifications and dimensions
are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Air Cylinder: Non-rotating Rod Type Double Acting, Single Rod

25A-CJ2K Series

Ø 10, Ø 16

RoHS



How to Order

25A - C D J2K L 16 - 60 Z - M9BW - B

Series compatible
with secondary
batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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 brackets are
shipped together with the
product but do not come
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

* The manufacturing of intermediate strokes in 1 mm
increments is possible. (Spacers are not used.)

Auto switch mounting type

B Band mounting

* Refer to page 263
for auto switch
mounting brackets.

Number of auto switches

—	2
S	1
n	n

Auto switch

— Without auto switch

* Refer to page 255 for applicable auto
switch models.

* Enter the auto switch mounting type (B)
even when a built-in magnet cylinder
without an auto switch is required.

Head cover port location

Bore size [mm]	Symbol	Ø 10, Ø 16
—	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.

Mounting Bracket Part Nos. for the 25A- Series

Mounting bracket	Bore size [mm]	
	10	16
Foot bracket	CJ-L016SUS	CJK-L016SUS
Flange bracket	CJ-F016SUS	CJK-F016SUS

* The 25A- series specifications and dimensions
are the same as those of the standard model.
(Excluding the foot and flange plate thickness)

For details, refer to the **Web Catalogue**.

Air Cylinder: With End Lock

25A-CBJ2 Series

Ø 16

RoHS

How to Order



25A - CBJ2 L 16-60-H N

With auto switch **25A - CDBJ2 L 16-60-H N - M9BW**

Series compatible with secondary batteries

With auto switch (Built-in magnet)

Mounting

B	Basic
L	Axial foot
F	Rod flange
D	Double clevis*1

*1 Rod end lock only
* Foot/Flange brackets are shipped together with the product but do not come assembled.

Cylinder standard stroke [mm]

Bore size	Standard stroke
16	15, 30, 45, 60, 75, 100, 125, 150, 175, 200

* The manufacturing of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)

Lock position

H	Head end lock
R	Rod end lock

Manual release

N	Non-locking type
---	------------------

Auto switch

—	Without auto switch
---	---------------------

* For applicable auto switches, refer to page 255.

How to order built-in magnet type (Without auto switch)

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

Example	25A-CDBJ2B16-60-HN-B
---------	----------------------

Mounting Bracket Part Nos. for the 25A- Series

Mounting bracket	Bore size [mm]
	16
Foot bracket	CJ-L016SUS
Flange bracket	CJ-F016SUS

Number of auto switches

—	2
S	1
n	n

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Air Cylinder: Standard Type Double Acting, Single Rod

25A-CM2 Series

Ø 20, Ø 25, Ø 32, Ø 40

RoHS



How to Order

25A-C D M2 L 40 - 150 A Z-M9BW

Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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	Integrated clevis
V	Integrated clevis (90°)
BZ	Boss-cut/Basic
FZ	Boss-cut/Rod flange
UZ	Boss-cut/Rod trunnion

Bore size

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

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 255 for applicable auto switch models.

Auto switch

—	Without auto switch
---	---------------------

Rod end thread

—	Male rod end
F	Female rod end

Cushion

—	Rubber bumper
A	Air cushion

Cylinder Stroke [mm]

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

*1 Other intermediate strokes can be manufactured upon receipt of order. The manufacturing of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)

* When exceeding 300 strokes, the allowable maximum stroke length is determined by the stroke selection table (Web Catalogue).

Port thread type

—	Rc
TN	NPT
TF	G

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-CDM2F32-100AZ

Mounting Bracket Part Nos. for the 25A- Series

Mounting bracket	Min. order	Bore size [mm]				Description (for min. order)
		20	25	32	40	
Axial foot*1	2	CM-L020B-XB12	CM-L032B-XB12	CM-L040B-XB12		2 foots, 1 mounting nut
Flange	1	CM-F020BSUS	CM-F032BSUS	CM-F040BSUS		1 flange
Single clevis*2	1	CM-C020B	CM-C032B	CM-C040B		1 single clevis, 3 liners
Double clevis*2*3 (with pin)	1	25A-CM-D020B	25A-CM-D032B	25A-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

*1 Order 2 foot brackets for each cylinder unit.

*2 3 liners are attached with a clevis bracket for adjusting the mounting angle.

*3 A clevis pin and retaining rings (split pins for Ø 40) are attached.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Air Cylinder: Standard Type Double Acting, Single Rod

RoHS

25A-CG1 Series

Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100



How to Order

25A-C D G1 L N 25 - 100 Z-M9BW

Series compatible with
secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

Mounting

B	Basic
Z*1	Basic (without trunnion mounting female thread)
L	Axial foot
F	Rod flange
G	Head flange
U*1	Rod trunnion
T*1	Head trunnion
D	Clevis

*1 Not available for Ø 80 or Ø 100.

* Mounting brackets are shipped together with the product but do not come assembled.

* The cylinder for F, G, L, D mounting types is Z: Basic (without trunnion mounting female thread).

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

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-CDG1FN32-100Z

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 255 for applicable auto switch models.

Rod end thread

—	Rod end male thread
F	Rod end female thread

Cylinder stroke [mm]

Bore size [mm]	Standard stroke*1 [mm]	Long stroke*2 [mm]
20	25, 50, 75, 100, 125, 150, 200	201 to 1500
25	25, 50, 75, 100, 125, 150, 200, 250, 300	301 to 1500
32		
40		
50, 63		
80		
100		

*1 Other intermediate strokes can be manufactured upon receipt of order. The manufacturing of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)

*2 For details on the maximum stroke that can be used for each mounting bracket, refer to the stroke selection table (Web Catalogue).

Port thread type

Rubber bumper

—	Rc	Ø 20 to Ø 100
TN	NPT	Ø 20 to Ø 100
TF	M5 x 0.8	Ø 20, Ø 25
	G	Ø 32 to Ø 100

Air cushion

M5 x 0.8	Ø 20, Ø 25
Rc	Ø 32 to Ø 100
NPT*1	Ø 32 to Ø 100
G*1	Ø 32 to Ø 100

*1 Not available for Ø 20 and Ø 25.

Mounting Bracket Part Nos. for the 25A- Series

Mounting bracket	Min. order	Bore size [mm]								Description
		20	25	32	40	50	63	80	100	
Foot	2*1	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

*1 Order two foot brackets per cylinder.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Air Cylinder: With End Lock

RoHS

25A-CBG1 Series

Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

How to Order



25A - CBG1 L N 25 - 100 - H N

25A - CDBG1 L N 25 - 100 - H N - M9BW

Series compatible
with secondary
batteries

With auto switch (Built-in magnet)

Mounting

B	Basic
L	Axial foot
F	Rod flange
G	Head flange
U*1	Rod trunnion
T*1	Head trunnion
D	Clevis

*1 The trunnion cannot be attached on the side to which an end lock is attached.

* Mounting brackets are shipped together with the product but do not come assembled.

Type

N	Rubber bumper
---	---------------

Bore size

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

Cylinder stroke [mm]

Bore size	Standard stroke*1	Long stroke*2
20	25, 50, 75, 100, 125, 150, 200	201 to 1500
25	25, 50, 75, 100, 125, 150, 200, 250, 300	301 to 1500
32		
40		
50, 63		

*1 Other intermediate strokes can be manufactured upon receipt of order. The manufacturing of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)

*2 For details on the maximum stroke that can be used for each mounting bracket, refer to the stroke selection table (Web Catalogue).

Mounting Bracket Part Nos. for the 25A- Series

Mounting bracket	Min. order	Bore size [mm]						Description
		20	25	32	40	50	63	
Foot	2*1	90-CG-L020	90-CG-L025	90-CG-L032	90-CG-L040	90-CG-L050	25-CG-L063	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	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	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	Pivot bracket x 1

*1 Order two foot brackets per cylinder. * The 25A- series specifications and dimensions (excluding the cap) are the same as those of the standard model.

For details, refer to the Web Catalogue.

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* For applicable auto switches, refer to page 255.

Manual release

N	Non-locking type
---	------------------

Lock position

H	Head end lock
R	Rod end lock
W	Double end lock

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.

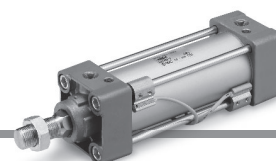
(Example) 25A-CDBG1FN32-100-RN

Air Cylinder: Single Rod

25A-MB Series

Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

RoHS



How to Order

25A-M D B L 32-50 Z-M9BW

Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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	Centre trunnion

Bore size

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

Number of auto switches

—	2
S	1
3	3
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 255 for applicable auto switch models.

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.)

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	32	40	50	63	80	100
Foot*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

*1 Two foot brackets required for one cylinder.

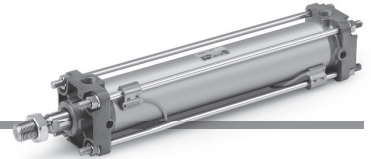
* Accessories for each mounting bracket are as follows: Foot, flange, single clevis/body mounting bolt, double clevis/body mounting bolt, clevis pin, flat washers and split pins.

Air Cylinder: Standard Type Double Acting, Single Rod

25A-CA2 Series

Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

RoHS



How to Order

25A-CDA2L50-100Z-M9BW

Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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	Centre trunnion

Bore size

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

Number of auto switches

—	2
S	1
3	3
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 255 for applicable auto switch models.

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.

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	40	50	63	80	100
Axial foot*1	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*2	25A-CA2-D04	25A-CA2-D05	25A-CA2-D06	25A-CA2-D08	25A-CA2-D10

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

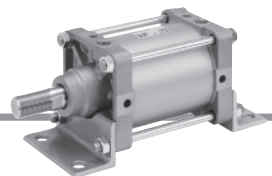
*2 A clevis pin, flat washers and split pins are shipped together with double clevis.

Air Cylinder: Standard Type Double Acting, Single Rod

25A-CS2 Series

Ø 125, Ø 140, Ø 160

RoHS



How to Order

25A - C D S2 L 125 - 300 - M9BW

Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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	Centre trunnion

Bore size

125	125 mm
140	140 mm
160	160 mm

Port thread type

—	Rc
TN	NPT
TF	G

Number of auto switches

—	2
3	3
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 256 for applicable auto switch models.

Cylinder stroke [mm]

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

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	125	140	160
Axial foot*1	CS2-L12	CS2-L14	CS2-L16
Flange	CS2-F12	CS2-F14	CS2-F16
Single clevis	CS2-C12	CS2-C14	CS2-C16
Double clevis*2	25A-CS2-D12	25A-CS2-D14	25A-CS2-D16

*1 Order two foot brackets per cylinder.

*2 A clevis pin and split pins are shipped together with double clevis.

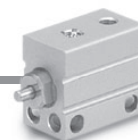
Mini Free Mount Cylinder

25A-CUJ Series

Ø 6, Ø 8, Ø 10

RoHS

How to Order



25A CUJ B 6 - 10 D

With auto switch **25A - CDUJ B 6 - 10 D - F8N**

Series compatible with secondary batteries

With auto switch (Built-in magnet)

Mounting

B	Basic (Through-hole)
---	----------------------

Bore size

6	6 mm
8	8 mm
10	10 mm

Standard stroke [mm]

Bore size	Standard stroke
6, 8, 10	4, 6, 8, 10, 15, 20, 25, 30

Number of auto switches

—	2
S	1

* M9□: With 1 pc.

Auto switch

—	Without auto switch
---	---------------------

* For applicable auto switches, refer to page 256.

Rod end thread

—	Rod end female thread
M	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-CDUJB8-15DM

* The 25A- series specifications are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Dimensions

(Dimensions other than those shown below are the same as the standard model.)

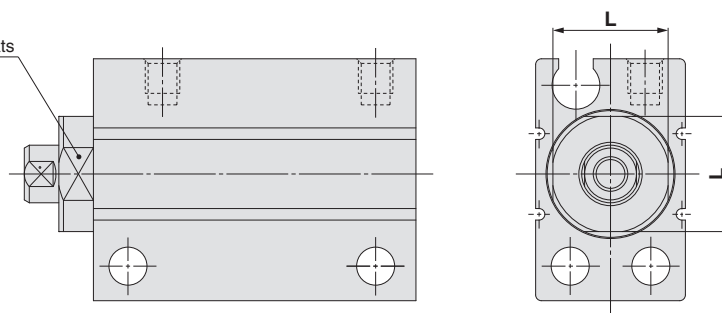
For details, refer to the **Web Catalogue**.

25A-C□UJB⁶₈₁₀

* The position of the width across flats may not be parallel to the cylinder tube

[mm]	
Bore size	L dimension
6	8
8	10
10	11

Width across flats



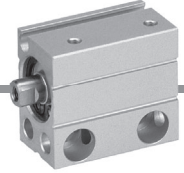
Mini Free Mount Cylinder

25A-CUJ Series

Ø 12, Ø 16, Ø 20

RoHS

How to Order



25A - CUJ B 12 - 30 D

With auto switch **25A - CDUJ B 12 - 30 D - F8N**

Series compatible with secondary batteries

With auto switch (Built-in magnet)

Mounting direction

B Lateral mounting

S Axial mounting

Counterbore

Bore size

12	12 mm
16	16 mm
20	20 mm

Standard stroke [mm]

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

Action

D Double acting

Rod end thread

— Rod end female thread

M Rod end male thread

Auto switch

— Without auto switch

* For applicable auto switches, refer to page 256.

Number of auto switches

—	2
S	1

* M9□: With 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-CDUJB12-15DM

* The 25A- series specifications and dimensions are the same as those of the standard model.

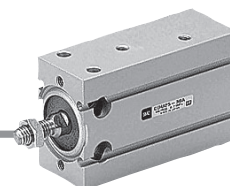
For details, refer to the **Web Catalogue**.

Free Mount Cylinder Double Acting, Single Rod

25A-CU Series

Ø 10, Ø 16, Ø 20, Ø 25, Ø 32

RoHS



How to Order

Series compatible with secondary batteries

25A - C D U 16 - 30 D - M9BW

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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

Number of auto switches

—	2
S	1

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 256 for applicable auto switches.

Action

D	Double acting
---	---------------

Cylinder stroke [mm]

Bore size	Standard stroke	Long stroke
10, 16	5, 10, 15, 20, 25, 30	40, 50, 60
20, 25, 32	5, 10, 15, 20, 25, 30, 40, 50	60, 70, 80, 90, 100

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

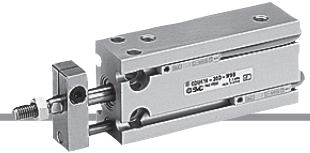
For details, refer to the **Web Catalogue**.

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

25A-*CUK* Series

Ø 10, Ø 16, Ø 20, Ø 25, Ø 32

RoHS



How to Order

25A – C D UK 16 – 30 D – M9BW

Series compatible with secondary batteries

With auto switch

–	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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

Number of auto switches

–	2
S	1

Auto switch

–	Without auto switch
---	---------------------

* Refer to page 256 for applicable auto switches.

Action

D	Double acting
---	---------------

Cylinder stroke [mm]

Bore size	Standard stroke	Long stroke
10, 16	5, 10, 15, 20, 25, 30	40, 50, 60
20, 25, 32	5, 10, 15, 20, 25, 30, 40, 50	60, 70, 80, 90, 100

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Compact Cylinder: Standard Type Double Acting, Single Rod

25A-CQS Series

Ø 12, Ø 16, Ø 20, Ø 25

RoHS



How to Order

25A-C D QS B 20-30 D - M9BW

Series compatible
with secondary
batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

Mounting

B	Through-hole/Both ends tapped common (Standard)
L	Foot
LC	Compact 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 with the product but do not come assembled.

* Cylinder mounting bolts are not included.

Bore size

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

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 256 for applicable auto switch models.

Body option

<Standard stroke>

—	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.

Action

D	Double acting
---	---------------

Cylinder stroke [mm]

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

Built-in Magnet Cylinder Model

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

(Example) 25A-CDQSL25-30D

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
12	25A-CQS-L012	25A-CQS-LC012	25A-CQS-F012	25-CQS-D012
16	25A-CQS-L016	25A-CQS-LC016	25A-CQS-F016	25-CQS-D016
20	25A-CQS-L020	25A-CQS-LC020	25A-CQS-F020	25-CQS-D020
25	25A-CQS-L025	25A-CQS-LC025	25A-CQS-F025	25-CQS-D025

*1 When ordering foot and compact foot brackets, order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows.

Foot, Compact foot, Flange: Body mounting bolts

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

Compact Cylinder: Standard Type Double Acting, Double Rod

RoHS

25A-CQSW Series

Ø 12, Ø 16, Ø 20, Ø 25



How to Order

25A-C D QSW B 20-30 D - M9BWL

Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

Mounting

B	Through-hole/Both ends tapped common (Standard)
L	Foot
LC	Compact foot
F	Flange

* Mounting brackets are shipped together with the product but do not come assembled.
* Cylinder mounting bolts are not included.

Bore size

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

Cushion/Rod end thread

—	Standard
C	With rubber bumper
M	Rod end male thread

* Combination of body options is available.

Action

D	Double acting
---	---------------

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* For applicable auto switches, refer to page 256.

Cylinder stroke [mm]

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

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange
12	25A-CQS-L012	25A-CQS-LC012	25A-CQS-F012
16	25A-CQS-L016	25A-CQS-LC016	25A-CQS-F016
20	25A-CQS-L020	25A-CQS-LC020	25A-CQS-F020
25	25A-CQS-L025	25A-CQS-LC025	25A-CQS-F025

- *1 When ordering foot and compact foot brackets, order 2 pieces per cylinder.
* Body mounting bolts are included for each bracket.

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-CDQSWL25-30D

- * The 25A- series specifications and dimensions are the same as those of the standard model.

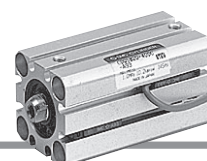
For details, refer to the **Web Catalogue**.

Compact Cylinder: Anti-lateral Load Type

25A-CQS□S Series

∅ 12, ∅ 16, ∅ 20, ∅ 25

RoHS



How to Order

25A-C D QS B S 20 - 30 D C - M9BW

Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

Mounting

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

* Mounting brackets are shipped together with the product but do not come 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

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 256 for applicable auto switch models.

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.

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
12	25A-CQS-L012	25A-CQS-LC012	25A-CQS-F012	25-CQS-D012
16	25A-CQS-L016	25A-CQS-LC016	25A-CQS-F016	25-CQS-D016
20	25A-CQS-L020	25A-CQS-LC020	25A-CQS-F020	25-CQS-D020
25	25A-CQS-L025	25A-CQS-LC025	25A-CQS-F025	25-CQS-D025

*1 When ordering foot and compact foot brackets, order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows.

Foot, Compact foot, Flange: Body mounting bolts

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Compact Cylinder: Standard Double Acting, Single Rod

RoHS

25A-CQ2 Series

Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100



How to Order

25A - C D Q2 B 20 - 30 D Z - M9BW

• Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

Mounting

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

* Mounting brackets are shipped together with the product but do not come 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

—	M thread	Ø 12 to Ø 25
	Rc	
TN	NPT	Ø 32 to Ø 100
TF	G	

• Auto switch

— Without auto switch

* Refer to page 256 for applicable auto switch models.

• Number of auto switches

—	2
S	1
n	n

• Auto switch mounting groove

Z	Ø 12 to Ø 25	2 surfaces
	Ø 32 to Ø 100	4 surfaces

* "Z" is not available for Ø 12 to Ø 25 without auto switches.

• Body option

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

* Combination of body options is available.

• Action

D Double acting

• 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

* The 25A-series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Built-in Magnet Cylinder Model

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

(Example) 25A-CDQ2L32-25DZ

Mounting Bracket Part Nos. for the 25A-Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
12	Without auto switch 25A-CQ-L012	25A-CQ-LC012	25A-CQ-F012	25-CQ-D012
	With auto switch 25A-CQ-LZ12	25A-CQ-LCZ12		
16	Without auto switch 25A-CQ-L016	25A-CQ-LC016	25A-CQ-F016	25-CQ-D016
	With auto switch 25A-CQ-LZ16	25A-CQ-LCZ16		
20	Without auto switch 25A-CQ-L020	25A-CQ-LC020	25A-CQ-F020	25-CQ-D020
	With auto switch 25A-CQ-LZ20	25A-CQ-LCZ20		
25	Without auto switch 25A-CQ-L025	25A-CQ-LC025	25A-CQ-F025	25-CQ-D025
	With auto switch 25A-CQ-LZ25	25A-CQ-LCZ25		
32	25A-CQ-L032	25A-CQ-LC032	25A-CQ-F032	25-CQ-D032
40	25A-CQ-L040	25A-CQ-LC040	25A-CQ-F040	25-CQ-D040
50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050	25-CQ-D050
63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063	25-CQ-D063
80	25A-CQ-L080	25A-CQ-LC080	25A-CQ-F080	25-CQ-D080
100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100	25-CQ-D100

*1 When ordering foot and compact foot brackets, the required quantity will be different depending on the bore size.

Ø 12 to Ø 25:

• Without auto switch: Order 2 pieces per cylinder.

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

Ø 32 to Ø 100:

• Order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows.

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

Simple Joint (Standard)/ Part Nos.

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 Ø 40

Part no.

• Type A mounting bracketYA-03

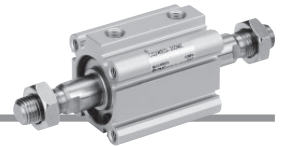
• Joint.....YU-03

Compact Cylinder: Standard Double Acting, Double Rod

25A-CQ2W Series

RoHS

Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63,
Ø 80, Ø 100



How to Order

25A - C D Q2W B 20 - 30 D Z - M9BW

Series compatible
with secondary
batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

Mounting

- * Mounting brackets are shipped together with the product but do not come assembled.
- * Cylinder mounting bolts are not included.

B	Through-hole (Standard)
A	Both ends tapped
L	Foot
LC	Compact foot
F	Flange

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

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange
12	Without auto switch 25A-CQ-L012	25A-CQ-LC012	25A-CQ-F012
16	Without auto switch 25A-CQ-L016	25A-CQ-LC016	25A-CQ-F016
20	Without auto switch 25A-CQ-L020	25A-CQ-LC020	25A-CQ-F020
25	Without auto switch 25A-CQ-L025	25A-CQ-LC025	25A-CQ-F025
32	25A-CQ-L032	25A-CQ-LC032	25A-CQ-F032
40	25A-CQ-L040	25A-CQ-LC040	25A-CQ-F040
50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050
63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063
80	25A-CQ-L080	25A-CQ-LC080	25A-CQ-F080
100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100

- *1 When ordering foot and compact foot brackets, the required quantity will be different depending on the bore size.
Ø 12 to Ø 25:
· Without auto switch: Order 2 pieces per cylinder.
· With auto switch: Order 1 piece per cylinder. (Part number for a set of 2 foot brackets)
Ø 32 to Ø 100:
· Order 2 pieces per cylinder.
* Body mounting bolts are included for each bracket.

Number of
auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* For applicable auto switches, refer to page 256.

Auto switch mounting groove

Z	Ø 12 to Ø 25	2 surfaces
	Ø 32 to Ø 100	4 surfaces

* "Z" is not available for Ø 12 to Ø 25 without auto switches.

Body option

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

* Combination of body options is available.

Action

D	Double acting
---	---------------

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

Port thread type

—	M thread	Ø 12 to Ø 25
	Rc	
TN	NPT	Ø 32 to Ø 100
TF	G	

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-CDQ2WL32-25DZ

- * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Simple Joint (Standard)/Part Nos.

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 Ø 40

Type A mounting bracket YA-03

Joint YU-03

Compact Cylinder: Large Bore Size Double Acting, Single Rod

25A-CQ2 Series

Ø 125, Ø 140, Ø 160, Ø 180, Ø 200

RoHS



How to Order

25A-C D Q2B 125 - 30 DC Z - M9BW

- Series compatible with secondary batteries**
- With auto switch**

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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**

—	Rc
TN	NPT
TF	G
- Number of auto switches**

—	2
S	1
n	n
- Auto switch**

—	Without auto switch
---	---------------------

* Refer to page 256 for applicable auto switch models.
- Auto switch mounting groove**

Z	4 surfaces
---	------------
- Body option**

—	Standard (Rod end female thread)
M	Rod end male thread
- Cushion**

C	Rubber bumper
---	---------------
- Action**

D	Double acting
---	---------------
- 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

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Compact Cylinder: Long Stroke Double Acting, Single Rod

RoHS

25A-CQ2 Series

Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100



How to Order

25A-C D Q2 A 32 - 200 DC Z-M9BW

- Series compatible with secondary batteries**
 - With auto switch**

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

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

* Mounting brackets are shipped together with the product but do not come assembled.
- Bore size**

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm
- Port thread type**

—	Rc
TN	NPT
TF	G
- Auto switch**

—	Without auto switch
---	---------------------

* Refer to page 256 for applicable auto switch models.
- Auto switch mounting groove**

Z	4 surfaces
---	------------
- Body option**

—	Standard (Rod end female thread)
M	Rod end male thread
- Cushion**

C	Rubber bumper
---	---------------
- Action**

D	Double acting
---	---------------
- Cylinder stroke [mm]**

Bore size	Standard stroke
32, 40, 50	125, 150, 175, 200, 250, 300
63, 80, 100	
- Number of auto switches**

—	2
S	1
n	n

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

Simple Joint (Standard)/Part Nos.

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 Ø 40 Part no.

• Type A mounting bracket.....YA-03

• Joint.....YU-03

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
32	25A-CQ-L032	25A-CQ-LC032	25A-CQ-F032	25-CQ-D032
40	25A-CQ-L040	25A-CQ-LC040	25A-CQ-F040	25-CQ-D040
50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050	25-CQ-D050
63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063	25-CQ-D063
80	25A-CQ-L080	25A-CQ-LC080	25A-CQ-F080	25-CQ-D080
100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100	25-CQ-D100

*1 Order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows.

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

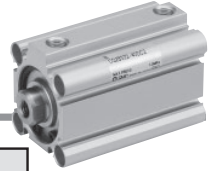
For details, refer to the **Web Catalogue**.

Compact Cylinder: Anti-lateral Load

25A-CQ2□S Series

Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

RoHS



How to Order

25A-C D Q2 B S 32 □ - 30 D C □ Z - M9BW □

- Series compatible with secondary batteries**
- With auto switch**

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

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

* Mounting brackets are shipped together with the product but do not come 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**

—	Rc
TN	NPT
TF	G
- Number of auto switches**

—	2
S	1
n	n
- Auto switch**

—	Without auto switch
---	---------------------

* Refer to page 256 for applicable auto switch models.
- Auto switch mounting groove**

Z	4 surfaces
---	------------
- Body option**

—	Standard (Rod end female thread)
M	Rod end male thread
- Cushion**

C	Rubber bumper
---	---------------
- Action**

D	Double acting
---	---------------
- 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

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
32	25A-CQ-L032	25A-CQ-LC032	25A-CQ-F032	25-CQ-D032
40	25A-CQ-L040	25A-CQ-LC040	25A-CQ-F040	25-CQ-D040
50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050	25-CQ-D050
63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063	25-CQ-D063
80	25A-CQ-L080	25A-CQ-LC080	25A-CQ-F080	25-CQ-D080
100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100	25-CQ-D100

*1 Order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows.

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

Compact Cylinder: With End Lock

25A-CBQ2 Series

Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

RoHS

How to Order



25A-C **D** **BQ2** **B** **40** **-** **30** **D** **C** **-** **H** **N** **-** **M9BW**

Series compatible
with secondary
batteries

With auto switch
(Built-in magnet)

Mounting

Ø 20, Ø 25

Ø 32 to Ø 100

B	Through-hole/Both ends tapped common (Standard)	B	Through-hole (Standard)*1
L	Foot	A	Both ends tapped
LC	Compact foot	L	Foot
F	Rod flange	LC	Compact foot
G	Head flange	F	Rod flange
D	Double clevis	G	Head flange
		D	Double clevis

*1 At the 75 and 100 mm strokes with Ø 80, Ø 100, both ends tapped (A) is the standard. Through-hole (B) is not available.

* Mounting brackets are shipped together with the product but do not come assembled.

Bore size

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

Port thread type

—	M thread	Ø 20, Ø 25
TN	Rc	
TF	NPT	Ø 32 to Ø 100
	G	

Cylinder stroke [mm]

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

Manual release type

N Non-lock type

Lock position

H	Head end lock
R	Rod end lock

Body option

—	Rod end female thread
M	Rod end male thread

Cushion

C Rubber bumper

Action

D Double acting

Auto switch

— Without auto switch

* For applicable auto switches, refer to page 256.

Number of auto switches

—	2
S	1
n	n

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

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-CDBQ2L32-30DC-RN

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
20	25A-CQS-L020	25A-CQS-LC020	25A-CQS-F020	25-CQS-D020
25	25A-CQS-L025	25A-CQS-LC025	25A-CQS-F025	25-CQS-D025
32	25A-CQ-L032	25A-CQ-LC032	25A-CQ-F032	25-CQ-D032
40	25A-CQ-L040	25A-CQ-LC040	25A-CQ-F040	25-CQ-D040
50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050	25-CQ-D050
63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063	25-CQ-D063
80	25A-CQ-L080	25A-CQ-LC080	25A-CQ-F080	25-CQ-D080
100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100	25-CQ-D100

*1 Order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows: Foot, Compact foot, Flange: Body mounting bolts, Double clevis: Clevis pin, Type C retaining rings for axis, Body mounting bolts

Plate Cylinder: Double Acting, Single Rod

25A-MU Series

Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

RoHS

How to Order



25A-M DUB25 -30 DMZ-M9BW S

Series compatible
with secondary
batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

Mounting

B	Basic
---	-------

Size

25	Equiv. Ø 25 piston area
32	Equiv. Ø 32 piston area
40	Equiv. Ø 40 piston area
50	Equiv. Ø 50 piston area
63	Equiv. Ø 63 piston area

Port thread type

	M thread	Ø 25
—	Rc	Ø 32, Ø 40
TN	NPT	Ø 50, Ø 63
TF	G	

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* For applicable auto switches,
refer to page 256.

Rod end configuration

—	Rod end female thread
M	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-MDUB32-30DZ

Cylinder stroke [mm]

Size	Standard stroke
25, 32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50
50, 63	75, 100, 125, 150, 175, 200, 250, 300

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mechanically Jointed Rodless Cylinder Basic Type

25A-MY1B Series

Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

RoHS



How to Order

Ordering example: **Ø 16, Ø 20, Ø 50, Ø 63** **25A-MY1B** **20** **300** **M9BW**

Ordering example: **Ø 25, Ø 32, Ø 40** **25A-MY1B** **25** **300** **Z-M9BW**

Series compatible with secondary batteries

Basic type

Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
—	M5	Ø 16, Ø 20
—	Rc	Ø 25, Ø 32, Ø 40
TN	NPT	Ø 50, Ø 63
TF	G	Ø 50, Ø 63

Piping

—	Standard type
G	Centralized piping type

Cylinder stroke [mm]

Bore size	Standard stroke*	Long stroke	Maximum manufacturable stroke
16	100, 200, 300, 400, 500, 600 700, 800, 900, 1000, 1200 1400, 1600, 1800, 2000	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000
20, 25, 32 40, 50, 63	* The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 5000 mm (1 mm increments) exceeding the standard stroke	5000

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	--

* Applicable auto switches vary depending on the bore size. Select an applicable one referring to page 256.

Ordering example

* Long stroke can be ordered the same as the standard stroke. 25A-MY1B20-3000L-M9BW

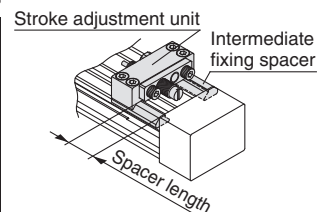
* Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

For Ø 16 to Ø 40

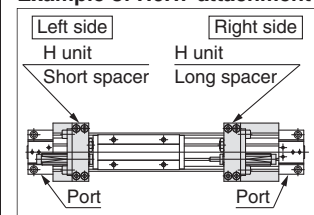
Stroke adjustment unit symbol

		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	—	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

Stroke adjustment unit mounting diagram



Example of H6H7 attachment



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

* The 25A-MY1B50 and 63 are not available with the stroke adjustment unit.

* The stroke adjustment unit H unit is not available for the 25A-MY1B16.

* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

Mechanically Jointed Rodless Cylinder

Slide Bearing Guide Type

25A-MY1M Series

Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

RoHS

How to Order

25A-MY1M20 G-300-M9BW

Series compatible with secondary batteries

Slide bearing guide type

Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
—	M thread	Ø 16, Ø 20
—	Rc	Ø 25, Ø 32,
TN	NPT	Ø 40, Ø 50,
TF	G	Ø 63

Piping

—	Standard type
G	Centralized piping type

Cylinder stroke [mm]

Bore size	Standard stroke*	Long stroke	Maximum manufacturable stroke
16	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000
20, 25, 32, 40, 50, 63	* The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 5000 mm (1 mm increments) exceeding the standard stroke	5000

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 256 for applicable auto switch models.

Ordering example

* Long stroke can be ordered the same as the standard stroke.
25A-MY1M20-3000L-M9BW

* Please be advised that with a stroke of 4.9 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

Stroke adjustment unit symbol

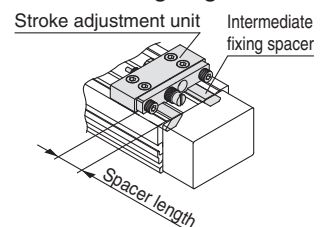
		Right side stroke adjustment unit										
		Without unit	A: With adjustment bolt			L: With low load shock absorber + Adjustment bolt			H: With high load shock absorber + Adjustment bolt			
				With short spacer	With long spacer		With short spacer	With long spacer		With short spacer	With long spacer	
Left side stroke adjustment unit	Without unit		—	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 H is not available for 25A-MY1M16.

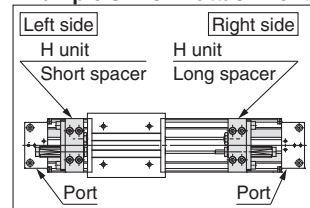
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Stroke adjustment unit mounting diagram



Example of H6H7 attachment



Mechanically Jointed Rodless Cylinder Cam Follower Guide Type

25A-MY1C Series

Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

RoHS



How to Order

25A-MY1C 25 - 300 - M9BW -

Series compatible
with secondary
batteries

Cam follower guide type

Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
—	M thread	Ø 16, Ø 20
	Rc	Ø 25, Ø 32,
TN	NPT	Ø 40, Ø 50,
TF	G	Ø 63

Piping

—	Standard type
G	Centralized piping type

Cylinder stroke [mm]

Bore size	Standard stroke*	Long stroke	Maximum manufacturable stroke
16	100, 200, 300, 400, 500, 600 700, 800, 900, 1000, 1200 1400, 1600, 1800, 2000	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000
20, 25, 32 40, 50, 63	* The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 5000 mm (1 mm increments) exceeding the standard stroke	5000

Ordering example

* Long stroke can be ordered the same as the standard stroke. 25A-MY1C20-3000L-M9BW
* Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting
is not possible, and the performance of the air cushion may decline.

Stroke adjustment unit symbol

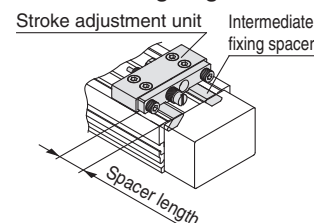
		Right side stroke adjustment unit									
		Without unit	A: With adjustment bolt		L: With low load shock absorber + Adjustment bolt		H: With high load shock absorber + Adjustment bolt				
Left side stroke adjustment unit	Without unit	—	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
	A: With adjustment bolt	AS	A	AA6	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.

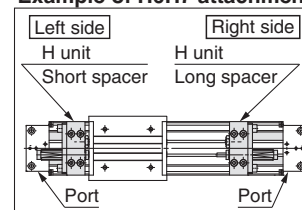
* Stroke adjustment unit H is not available for 25A-MY1C16.

* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

Stroke adjustment unit mounting diagram



Example of H6H7 attachment

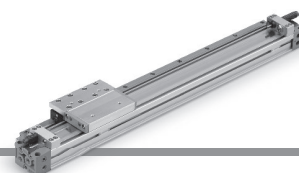


Mechanically Jointed Rodless Cylinder Linear Guide Type

25A-MY1H Series

Ø 16, Ø 20, Ø 25, Ø 32, Ø 40

RoHS



How to Order

Ordering example: **Ø 16, Ø 20 25A-MY1H20 - 300 - M9BW**

Ordering example: **Ø 25, Ø 32, Ø 40 25A-MY1H25 - 300 Z - 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

Port thread type

Symbol	Type	Bore size
—	M thread	Ø 16, Ø 20
	Rc	
TN	NPT	Ø 25, Ø 32, Ø 40
TF	G	

Piping

—	Standard type
G	Centralized piping type

Cylinder stroke [mm]

Bore size	Standard stroke	Intermediate stroke	Long stroke	Maximum manufacturable stroke
16, 20	50, 100, 150 200, 250, 300	Strokes of 51 to 599 mm (1 mm increments) other than standard strokes	Strokes of 601 to 1000 mm (1 mm increments) exceeding the standard stroke	1000
25, 32, 40	350, 400, 450 500, 550, 600		Strokes of 601 to 1500 mm (1 mm increments) exceeding the standard stroke	1500

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	--

* Refer to page 256 for applicable auto switch models.

Ordering example

* Intermediate stroke can be ordered the same as the standard stroke. 25A-MY1H20-60-M9BW

* Long stroke can be ordered the same as the standard stroke. 25A-MY1H20-800L-M9BW

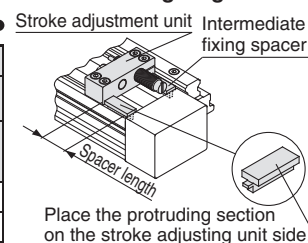
Stroke adjustment unit symbol

		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	—	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

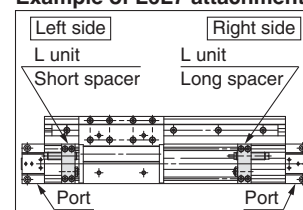
* Spacers are used to fix the stroke adjustment unit at an intermediate stroke position.

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

Stroke adjustment unit mounting diagram



Example of L6L7 attachment



* The 25A-series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type

25A-MY2C Series

Ø 16, Ø 25, Ø 40

RoHS

How to Order



25A - MY2C 16 G - 300 - M9BW

Series compatible
with secondary
batteries

Cam follower guide type

Bore size

16	16 mm
25	25 mm
40	40 mm

Port thread type

Symbol	Type	Bore size
—	M thread	Ø 16
	Rc	
TN	NPT	Ø 25, Ø 40
TF	G	

Piping

G Centralized piping type (Standard)

Number of auto
switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	--

* Refer to page 256 for applicable
auto switch models.

Cylinder stroke [mm]

Bore size [mm]	Standard stroke [mm]*1	Max. manufacturable stroke [mm]
16	100, 200, 300, 400, 500, 600, 700, 800,	3000
25, 40	900, 1000, 1200, 1400, 1600, 1800, 2000	5000

*1 Strokes are manufacturable in 1 mm increments, up to the maximum stroke.

However, please be advised that with a stroke of 49 mm or less, there are cases
where auto switch mounting is not possible, and the performance of the air cushion
may decline.

* Long stroke can be ordered the same as the standard stroke.

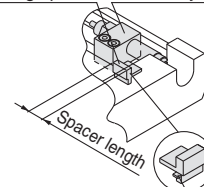
25A-MY2C25G-3000L-M9BW

Stroke adjustment unit symbol

Stroke adjustment unit mounting diagram

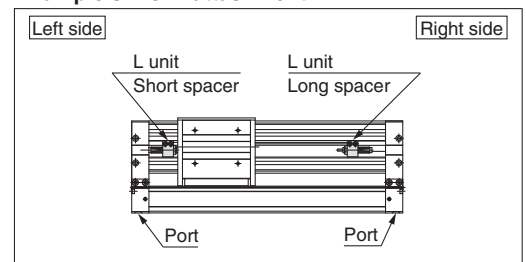
		Right side stroke adjustment unit							
		Without unit	L: With low load shock absorber			H: With high load shock absorber			
				With short spacer	With long spacer		With short spacer	With long spacer	
Left side stroke adjustment unit	Without unit	—	SL	SL6	SL7	SH	SH6	SH7	
	L: With low load shock absorber	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	

Intermediate fixing spacer Stroke adjustment unit



Place the protruding section
on the stroke adjusting unit side.

Example of L6L7 attachment



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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mechanically Jointed Rodless Cylinder Linear Guide Type

25A-MY2H/HT Series

Ø 16, Ø 25, Ø 40

RoHS

How to Order



25A - MY2 H 16 G - 300 - M9BW

Series compatible
with secondary
batteries

Guide type

H	Linear guide, Single axis
HT	Linear guide, Double axis

Bore size

16	16 mm
25	25 mm
40	40 mm

Port thread type

Symbol	Type	Bore size
—	M thread	Ø 16
	Rc	
TN	NPT	Ø 25, Ø 40
TF	G	

Piping

G	Centralized piping type (Standard)
---	------------------------------------

Cylinder stroke [mm]

Bore size [mm]	Standard stroke [mm]*1	Max. manufacturable stroke [mm]
16	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600	1000
25, 40		1500

*1 Strokes are manufacturable in 1 mm increments, up to the maximum stroke.

* Intermediate stroke can be ordered the same as the standard stroke.

25A-MY2H16G-80-M9BW

* Long stroke can be ordered the same as the standard stroke.

25A-MY2H25G-800L-M9BW

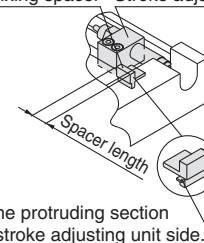
Stroke adjustment unit symbol

		Right side stroke adjustment unit						
		Without unit	L: With low load shock absorber			H: With high load shock absorber		
Left side stroke adjustment unit	Without unit	—	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.

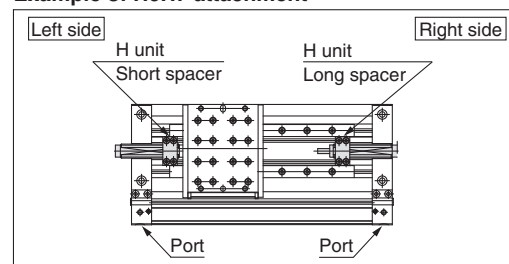
Stroke adjustment unit mounting diagram

Intermediate fixing spacer Stroke adjustment unit



Place the protruding section on the stroke adjusting unit side.

Example of H6H7 attachment



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

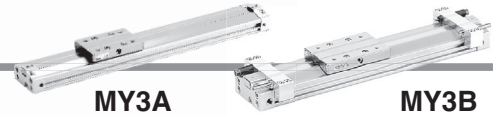
Mechanically Jointed Rodless Cylinder/Basic Type

25A-MY3A/3B Series

Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

RoHS

How to Order



25A-MY3 B 16 - 300 - M9BW

- Series compatible with secondary batteries

Type

A	Short type (Rubber bumper)
B	Standard type (Air cushion)

Cylinder bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
—	M5	Ø 16, Ø 20
	Rc	
TN	NPT	Ø 25, Ø 32, Ø 40
TF	G	Ø 50, Ø 63

- Number of auto switches

—	2
S	1
n	n

- Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 256 for auto switch model numbers.

Cylinder stroke [mm]

Bore size	Standard stroke*	Long stroke	Maximum manufacturable stroke
16, 20 25, 32 40, 50 63	100, 200, 300, 400, 500, 600 700, 800, 900, 1000, 1200 1400, 1600, 1800, 2000 * The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000

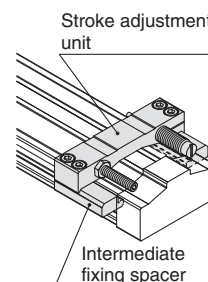
Ordering example

- * Long stroke can be ordered the same as the standard stroke. 25A-MY3A25-3000L-M9BW
- * Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

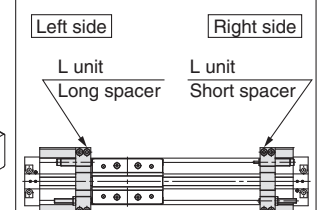
Stroke adjustment unit symbol

		Right side stroke adjustment unit							
		Without unit	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	
Left side stroke adjustment unit	Without unit	—	SL	SL6	SL7	SH	SH6	SH7	
	L: With low load shock absorber + Adjustment bolt	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 + Adjustment bolt	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	

Stroke adjustment unit mounting diagram



Example of L7L6 attachment



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

* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

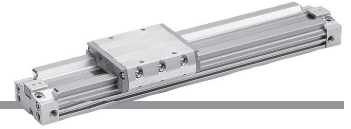
Mechanically Jointed Rodless Cylinder Slide Bearing Guide Type

RoHS

25A-MY3M Series

Ø 16, Ø 25, Ø 40, Ø 63

How to Order



25A-MY3 M 16 - 300 - M9BW

Series compatible
with secondary
batteries

Slide bearing guide type

Cylinder bore size

16	16 mm
25	25 mm
40	40 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
—	M5	Ø 16
	Rc	
TN	NPT	Ø 25, Ø 40, Ø 63
TF	G	

Cylinder stroke [mm]

Bore size	Standard stroke*	Long stroke	Maximum manufacturable stroke
16, 25 40, 63	100, 200, 300, 400, 500, 600 700, 800, 900, 1000, 1200 1400, 1600, 1800, 2000 * The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000

Ordering example

* Long stroke can be ordered the same as the standard stroke. 25A-MY3M25-3000L-M9BW

* Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

Stroke adjustment unit symbol

		Right side stroke adjustment unit							
		Without unit	L: With low load shock absorber + Adjustment bolt		H: With high load shock absorber + Adjustment bolt				
Left side stroke adjustment unit	Without unit	—	SL	SL6	SL7	SH	SH6	SH7	
	L: With low load shock absorber + Adjustment bolt	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 + Adjustment bolt	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

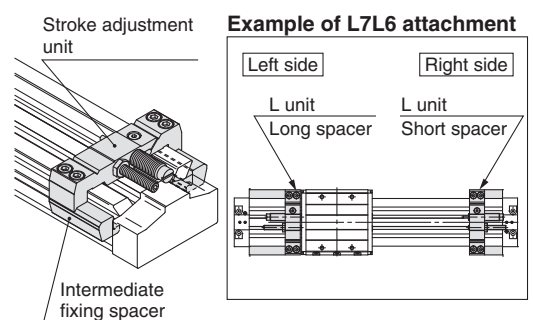
—	2
S	1
n	n

Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 256 for auto switch model numbers.

Stroke adjustment unit mounting diagram



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Magnetically Coupled Rodless Cylinder/Basic Type

25A-CY3B Series

Ø 6, Ø 10, Ø 15, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

RoHS

How to Order



25A-CY3B **25** **□** - **300**

Series compatible with
secondary batteries

Basic type

Bore size

6	6 mm
10	10 mm
15	15 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
—	M thread	6, 10, 15
	Rc	
TN	NPT	20, 25, 32, 40
TF	G	50, 63

Standard stroke [mm]

Bore size	Standard stroke	Max. manufacturable stroke
6	50, 100, 150, 200	300
10	50, 100, 150, 200, 250, 300	500
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, 50, 63	100, 150, 200, 250, 300, 350, 400 450, 500, 600, 700, 800, 900, 1000	

- * Please contact SMC if the maximum stroke is exceeded.
- * The longer the stroke, the larger the amount of deflection in a cylinder tube.
Pay attention to the mounting bracket and clearance value.
- * Intermediate stroke is available in 1 mm increments.

- * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Magnetically Coupled Rodless Cylinder/Direct Mount Type

25A-CY3R Series

Ø 6, Ø 10, Ø 15, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

RoHS

How to Order



25A-CY3R 25 - 300 - M9BWL

Series compatible with secondary batteries

Direct mount type

Piping type

—	Standard type
G	Centralized piping type

* Type G (centralized piping) is not available for Ø 6.

Bore size

6	6 mm
10	10 mm
15	15 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
—	M thread	6, 10, 15
	Rc	
TN	NPT	20, 25, 32, 40
TF	G	50, 63

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Ø 6 to Ø 15 Ø 25 to Ø 63	Without auto switch (Built-in magnet)
		Without auto switch (Built-in magnet for reed switch)
M	Ø 20	Without auto switch (Built-in magnet for solid state switch)

* Refer to page 256 for applicable auto switch models.

Switch rail

—	With switch rail
N	Without switch rail

- * A type with switch rail has built-in auto switch magnets.
- * Ø 15 has built-in auto switch magnets even without switch rail.
- * Centralized piping type (G) is not available without switch rail (N).

Cylinder stroke [mm]

Bore size	Standard stroke	Max. stroke without switch	Max. stroke with switch
6	50, 100, 150, 200	300	300
10	50, 100, 150, 200, 250, 300	500	500
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, 50, 63	100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000		

- * The longer the stroke, the larger the amount of deflection in a cylinder tube. Pay attention to the mounting bracket and clearance value.
- * Intermediate stroke is available in 1 mm increments.

* The 25A- series specifications and dimensions are the same as those of the standard model.

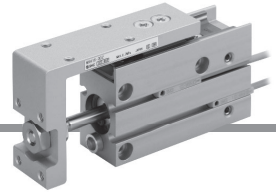
For details, refer to the Web Catalogue.

Compact Slide

25A-MXH Series

Ø 6, Ø 10, Ø 16, Ø 20

RoHS



How to Order

25A-MXH 10-60 Z-M9BW

Series compatible with
secondary batteries

Compact slide

Bore size

6	6 mm
10	10 mm
16	16 mm
20	20 mm

Number of auto switches

—	2
S	1

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* For applicable auto switch models, refer to page 258.

Cylinder stroke [mm]

6, 10, 16, 20	5, 10, 15, 20, 25, 30, 40 50, 60
---------------	-------------------------------------

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Air Slide Table

25A-MXS Series

Ø 6, Ø 8, Ø 12, Ø 16, Ø 20, Ø 25

RoHS



How to Order

Air slide table

25A-MXS 16 **50** **AS** **M9BW**

Series compatible with secondary batteries

Port thread type

—	M thread	Ø 6 to Ø 16
	Rc	
TN	NPT	Ø 20, Ø 25
TF	G	

Symmetric type

—	Standard type
L	Symmetric type

Bore size (Standard 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

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 258 for auto switch model numbers.

Adjuster option

—	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.

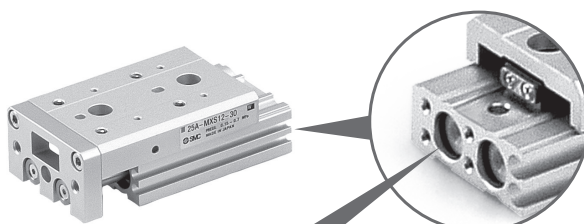
* When the adjuster option with shock absorber is used, metal-to-metal collisions occur, and may generate dust particles.

Corrosion Resistant Air Slide Table

(Made to order: 25A-MXS□-X1949)

The material of the head cap part has been changed to a highly corrosion-resistant material.

Please contact your local sales representative for more details.



	After change	Before change
Head cap	Aluminium	Synthetic resin

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Air Slide Table Double-ported Type

RoHS

25A-MXQ□A Series

∅ 6, ∅ 8, ∅ 12, ∅ 16, ∅ 20, ∅ 25

How to Order

25A-MXQ 12 A - 30 ZA □ - M9BW □

1 2 3 4 5 6 7

Series compatible with secondary batteries



1 Bore size	2 Body option: Double-ported type	3 Standard stroke [mm]
	A	
6	Port Switch mounting groove	10, 20, 30, 40, 50
8	Port Switch mounting groove	10, 20, 30, 40, 50, 75
12	Port Switch mounting groove	10, 20, 30, 40, 50, 75, 100
16	Port Switch mounting groove	10, 20, 30, 40, 50, 75, 100, 125
20	Port Switch mounting groove	10, 20, 30, 40, 50, 75, 100, 125, 150
25	Port Switch mounting groove	10, 20, 30, 40, 50, 75, 100, 125, 150

5 Functional options

Symbol	Functional option
—	Without functional option
1	With buffer
2	With end lock
3	Axial piping
4	With buffer, end lock
5	With buffer, axial piping

7 Number of auto switches

—	2
S	1
n	n

6 Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

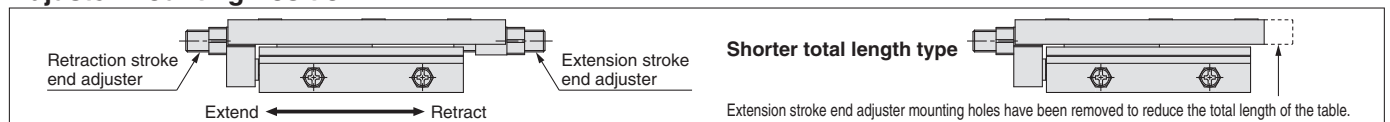
* For applicable auto switches, refer to page 258.

4 Adjuster options/Functional option combinations

Symbol	Adjuster type*6		Adjuster mounting position*1		Functional option combination						
					—	1	2	3	4	5	
			Extension stroke end	Retraction stroke end	Without functional option	*2*7 With buffer	With end lock	Axial piping	*2*7 With buffer, end lock	*2*5*7 With buffer, axial piping	
Z	Without adjuster				○	○	○	○	○	○	
ZA			●	●	○	×	×	○	×	×	
ZB	Metal stopper with bumper		●	●	○	×	○	○	×	×	
ZC				●	○	×	×	○	×	×	
ZD	Rubber stopper		●	●	○	×	×	○	×	×	
ZE			●		○	○	○	○	○	○	
ZF				●	○	×	×	○	×	×	
ZG			●	●	○	×	×	○	×	×	
ZH	Shock absorber/RJ		●	●	○	×	○	○	×	×	
ZJ				●	○	×	×	○	×	×	
ZK			●	●	○	×	×	○	×	×	
ZL	Metal stopper		●	●	○	○	○	○	○	○	
ZM				●	○	×	×	○	×	×	
ZN	Shorter total length type*3	Without adjuster			○	○*4	×	○	×	○*4	
ZP		Rubber stopper	●	●	○	×	×	○	×	×	
ZQ		Shock absorber/RJ	●	●	○	×	×	○	×	×	
ZS		Metal stopper with bumper	●	●	○	×	×	○	×	×	
ZT		Metal stopper	●	●	○	×	×	○	×	×	
ZBF	Extension stroke end adjuster	Metal stopper with bumper	●	●	○	×	×	○	×	×	
ZBJ			●	●	○	×	×	○	×	×	
ZBM			●	●	○	×	×	○	×	×	
ZEC			●	●	○	×	×	○	×	×	
ZEJ	Rubber stopper	Shock absorber/RJ	●	●	○	×	×	○	×	×	
ZEM			●	●	○	×	×	○	×	×	
ZHC	Shock absorber/RJ	Metal stopper	●	●	○	×	×	○	×	×	
ZHF			●	●	○	×	×	○	×	×	
ZHM			●	●	○	×	×	○	×	×	
ZLC	Metal stopper	Metal stopper with bumper	●	●	○	×	×	○	×	×	
ZLF			●	●	○	×	×	○	×	×	
ZLJ			●	●	○	×	×	○	×	×	

- *1 ●: Shipped together with the product, but not assembled. Without any symbol for the adjuster mounting position: The adjuster can be mounted afterward.
- *2 For the buffer mechanism, the buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.
- *3 Extension stroke end adjuster mounting holes have been removed to reduce the total length of the table.
- *4 The shorter total length type can be used, but a retraction stroke end adjuster cannot be mounted afterward.
- *5 There is no piping port on the side surface of the product.
- *6 The metal stopper with bumper option is not available for ∅ 6.
- *7 As there is no magnet in the buffer mechanism, auto switches cannot be used on the buffer part.

Adjuster Mounting Position



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

* When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.

* The 25A-series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Air Slide Table

Low Thrust with High Rigidity Type

RoHS

25A-MXQ□B Series

Ø 6, Ø 8, Ø 12, Ø 16, Ø 20

How to Order

25A-MXQ **12** **B** - **30** **ZA** - **M9BW** **□**

• Series compatible with secondary batteries



① Bore size	② Body option		③ Standard stroke [mm]
	Standard type B	Symmetric type BL	
6			10, 20, 30, 40, 50, 75
8			10, 20, 30, 40, 50, 75, 100
12			10, 20, 30, 40, 50, 75, 100, 125
16		—*1	10, 20, 30, 40, 50, 75, 100, 125, 150
20			10, 20, 30, 40, 50, 75, 100, 125, 150

*1 Not available, as the standard model has piping ports and auto switch mounting grooves on both sides. Please use the standard type.

④ Adjuster options

Symbol	Adjuster type*3		Adjuster mounting position*1	
			Extension stroke end	Retraction stroke end
Z	Without adjuster			
ZA	Metal stopper with bumper		●	●
ZB			●	
ZC				●
ZD			●	●
ZE	Rubber stopper		●	
ZF				●
ZG			●	●
ZH			●	
ZJ	Shock absorber/RJ			●
ZK			●	●
ZL			●	
ZM				●
ZN	Shorter total length type*2	Without adjuster		
NP		Rubber stopper		●
ZQ		Shock absorber/RJ		●
ZS		Metal stopper with bumper		●
ZT		Metal stopper		●
ZBF	Metal stopper with bumper	Retraction stroke end adjuster	●	●
ZBJ			●	●
ZBM			●	●
ZEC			●	●
ZEJ	Rubber stopper	Retraction stroke end adjuster	●	●
ZEM			●	●
ZHC			●	●
ZHF			●	●
ZHM	Shock absorber/RJ	Retraction stroke end adjuster	●	●
ZLC			●	●
ZLF			●	●
ZLJ			●	●

⑤ Auto switch

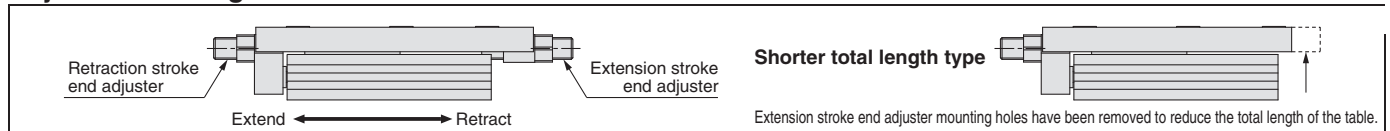
— Without auto switch (Built-in magnet)

* For applicable auto switches, refer to page 258.

⑥ Number of auto switches

—	2
S	1
n	n

Adjuster Mounting Position



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

* The 25A-series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Air Slide Table

Single Side-ported Type

25A-MXQ□C Series

∅ 8, ∅ 12

RoHS

How to Order

25A-MXQ **12** **C** - **30** **ZA** **□** - **M9BW** **□**

1 2 3 4 5 6 7

Series compatible with secondary batteries



1 Bore size	2 Body option		3 Standard stroke [mm]
	Standard type C	Symmetric type CL	
8	Port Switch mounting groove	Switch mounting groove Port	10, 20, 30, 40, 50, 75
12			10, 20, 30, 40, 50, 75, 100

5 Functional options

Symbol	Functional option
—	Without functional option
1	With buffer
2	With end lock
3	Axial piping
4	With buffer, end lock
5	With buffer, axial piping

6 Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* For applicable auto switches, refer to page 258.

7 Number of auto switches

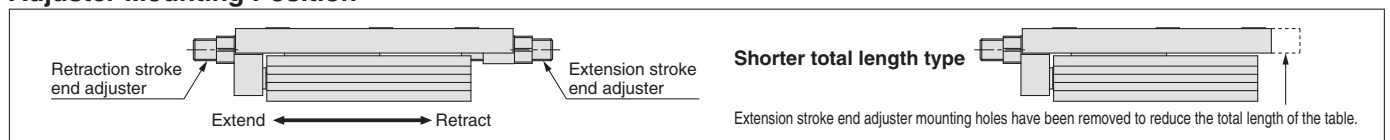
—	2
S	1
n	n

4 Adjuster options/Functional option combinations

Symbol	Adjuster type		Adjuster mounting position*1		Functional option combination							
			Extension stroke end	Retraction stroke end	—	1	2	3	4	5		
					Without functional option	*2*6 With buffer	With end lock	*5 Axial piping	*2*6 With buffer, end lock	*3*5*6 With buffer, axial piping		
Z	Without adjuster				○	○	○	○	○	○		
ZA	Metal stopper with bumper		●	●	○	×	×	○	×	×		
ZB			●		○	×	○	○	×	×		
ZC				●	○	×	×	○	×	×		
ZD	Rubber stopper		●	●	○	×	×	○	×	×		
ZE			●		○	○	○	○	○	○		
ZF				●	○	×	×	○	×	×		
ZG	Shock absorber/RJ		●	●	○	×	×	○	×	×		
ZH			●		○	×	○	○	×	×		
ZJ				●	○	×	×	○	×	×		
ZK	Metal stopper		●	●	○	×	×	○	×	×		
ZL			●		○	○	○	○	○	○		
ZM				●	○	×	×	○	×	×		
ZN	Shorter overall length type*3	Retraction stroke end adjuster	Without adjuster		○	○*4	×	○	×	○*4		
ZP			Rubber stopper		●	○	×	×	○	×	×	
ZQ			Shock absorber/RJ		●	○	×	×	○	×	×	
ZS			Metal stopper with bumper		●	○	×	×	○	×	×	
ZT			Metal stopper		●	○	×	×	○	×	×	
ZBF	Extension stroke end adjuster	Retraction stroke end adjuster	Rubber stopper	●	●	○	×	×	○	×	×	
ZBJ			Metal stopper with bumper	Shock absorber/RJ	●	●	○	×	×	○	×	×
ZBM				Metal stopper	●	●	○	×	×	○	×	×
ZEC				Rubber stopper	Metal stopper with bumper	●	●	○	×	×	○	×
ZEJ			Shock absorber/RJ		●	●	○	×	×	○	×	×
ZEM	Metal stopper	●	●		○	×	×	○	×	×		
ZHC	Shock absorber/RJ	Retraction stroke end adjuster	Metal stopper with bumper	●	●	○	×	×	○	×	×	
ZHF			Rubber stopper	●	●	○	×	×	○	×	×	
ZHM			Metal stopper	●	●	○	×	×	○	×	×	
ZLC	Metal stopper		Metal stopper with bumper	●	●	○	×	×	○	×	×	
ZLF			Rubber stopper	●	●	○	×	×	○	×	×	
ZLJ		Shock absorber/RJ	●	●	○	×	×	○	×	×		

- *1 ●: Shipped together with the product, but not assembled Without any symbol for the adjuster mounting position: The adjuster can be mounted afterward.
- *2 For the buffer mechanism, the buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.
- *3 Extension stroke end adjuster mounting holes have been removed to reduce the total length of the table.
- *4 The shorter total length type can be used, but a retraction stroke end adjuster cannot be mounted afterward.
- *5 There is no piping port on the side surface of the product.
- *6 As there is no magnet in the buffer mechanism, auto switches cannot be used on the buffer part.

Adjuster Mounting Position



- * When the shock absorber, metal stopper with bumper, or adjuster option with metal stopper is used, metal-to-metal collisions occur, and may generate dust particles.
- * When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Air Slide Table

Height Interchangeable Type

25A-MXQ Series

Ø 6, Ø 8, Ø 12, Ø 16, Ø 20, Ø 25

RoHS

How to Order

25A-MXQ 12 30 ZA M9BW

Series compatible with secondary batteries



1 Bore size	2 Body option		3 Standard stroke [mm]
	Standard type	Symmetric type	
6	Port	Switch mounting groove	10, 20, 30, 40, 50
8	Switch mounting groove	Port	10, 20, 30, 40, 50, 75
12	Port	Switch mounting groove	10, 20, 30, 40, 50, 75, 100
16	Switch mounting groove	Port	10, 20, 30, 40, 50, 75, 100, 125
20	Port	Switch mounting groove	10, 20, 30, 40, 50, 75, 100, 125, 150
25	Switch mounting groove	Port	10, 20, 30, 40, 50, 75, 100, 125, 150

*1 Not available, as the standard model has piping ports and auto switch mounting grooves on both sides. Please use the standard type.

5 Functional options

Symbol	Functional option
—	Without functional option
1	With buffer
2	With end lock
3	Axial piping
4	With buffer, end lock
5	With buffer, axial piping

7 Number of auto switches

—	2
S	1
n	n

6 Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

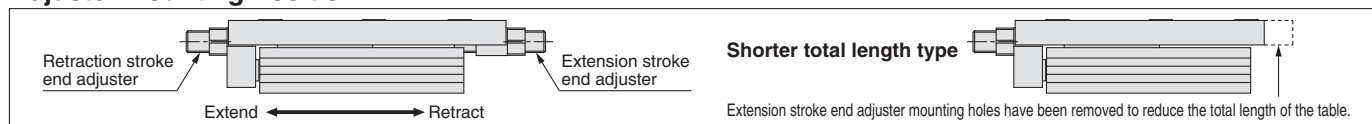
* For applicable auto switches, refer to page 258.

4 Adjuster options/Functional option combinations

Symbol	Adjuster type*6		Adjuster mounting position*1		Functional option combination				
					—	1	2	3	5
Z	Without adjuster		Extension stroke end	Retraction stroke end	Without functional option	*2*7 With buffer	With end lock	Axial piping	*2*7 With buffer, end lock
ZA	Metal stopper with bumper		●	●	○	×	×	○	×
ZB			●	●	○	×	×	○	×
ZC			●	●	○	×	×	○	×
ZD			●	●	○	×	×	○	×
ZE	Rubber stopper		●	●	○	×	×	○	×
ZF			●	●	○	×	×	○	×
ZG			●	●	○	×	×	○	×
ZH			●	●	○	×	×	○	×
ZJ	Shock absorber/RJ		●	●	○	×	×	○	×
ZK			●	●	○	×	×	○	×
ZL			●	●	○	×	×	○	×
ZM			●	●	○	×	×	○	×
ZN	Shorter total length type*3	Without adjuster	○	○	○	×	×	○	×
ZP		Rubber stopper	●	●	○	×	×	○	×
ZQ		Shock absorber/RJ	●	●	○	×	×	○	×
ZS		Metal stopper with bumper	●	●	○	×	×	○	×
ZT	Metal stopper	Metal stopper	●	●	○	×	×	○	×
ZBF		Rubber stopper	●	●	○	×	×	○	×
ZBJ		Shock absorber/RJ	●	●	○	×	×	○	×
ZBM		Metal stopper	●	●	○	×	×	○	×
ZEC	Rubber stopper	Metal stopper with bumper	●	●	○	×	×	○	×
ZEJ		Shock absorber/RJ	●	●	○	×	×	○	×
ZEM		Metal stopper	●	●	○	×	×	○	×
ZHC		Metal stopper with bumper	●	●	○	×	×	○	×
ZHF	Shock absorber/RJ	Rubber stopper	●	●	○	×	×	○	×
ZHM		Metal stopper	●	●	○	×	×	○	×
ZLC		Metal stopper with bumper	●	●	○	×	×	○	×
ZLF		Rubber stopper	●	●	○	×	×	○	×
ZLJ	Metal stopper	Shock absorber/RJ	●	●	○	×	×	○	×

- *1 ●: Shipped together with the product, but not assembled. Without any symbol for the adjuster mounting position: The adjuster can be mounted afterward.
- *2 For the buffer mechanism, the buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.
- *3 Extension stroke end adjuster mounting holes have been removed to reduce the total length of the table.
- *4 The shorter total length type can be used, but a retraction stroke end adjuster cannot be mounted afterward.
- *5 There is no piping port on the side surface of the product.
- *6 The metal stopper with bumper option is not available for Ø 6.
- *7 As there is no magnet in the buffer mechanism, auto switches cannot be used on the buffer part.

Adjuster Mounting Position



- * When the shock absorber, metal stopper with bumper, or adjuster option with metal stopper is used, metal-to-metal collisions occur, and may generate dust particles.
- * When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Air Slide Table

RoHS

25A-MXQ Series

Ø 6, Ø 8, Ø 12, Ø 16, Ø 20, Ø 25

How to Order



25A-MXQ 16 **50** **AS** **M9BW**

- Series compatible with secondary batteries

Port thread type

—	M thread	Ø 6 to Ø 16
	Rc	
TN	NPT	Ø 20, Ø 25
TF	G	

Symmetric type

—	Standard type
L	Symmetric type

Bore size (Standard 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

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 258 for auto switch model numbers.

Adjuster option

—	Without adjuster
AS	Extension end rubber stopper
AT	Retraction end rubber stopper
A	Both ends rubber stopper
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 adjuster + Retraction end absorber
ASCT	Extension end adjuster + 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

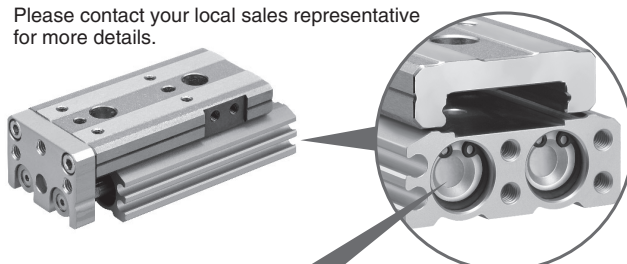
- * With shock absorber is not available in the 25A-MXQ6 series.
- * When the adjuster option with shock absorber or metal stopper is used, metal-to-metal collisions occur, and may generate dust particles.

Corrosion Resistant Air Slide Table

(Made to order: 25A-MXQ□-X771)

The material of the head cap part has been changed to a highly corrosion-resistant material.

Please contact your local sales representative for more details.



	After change	Before change
Head cap	Aluminium	Synthetic resin

- * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

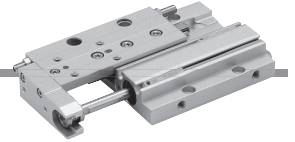
Low Profile Slide Table

25A-MXF Series

Ø 8, Ø 12, Ø 16, Ø 20

RoHS

How to Order



25A – MXF 12 – 50 – M9BW

Series compatible
with secondary batteries

Bore size/
Stroke (mm)

Ø 8	10, 20, 30
Ø 12	20, 30, 50
Ø 16	30, 50, 75
Ø 20	30, 50, 75, 100

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 258 for auto switch model numbers.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Air Slide Table

RoHS

25A-MXW Series

Ø 8, Ø 12, Ø 16, Ø 20, Ø 25

How to Order



25A – MXW 16 [] – 100 B – M9BW []

Series compatible with secondary batteries

Port thread type

–	M thread	Ø 8 to Ø 16
	Rc	
TN	NPT	Ø 20, Ø 25
TF	G	

Number of auto switches

–	2
S	1
n	n

Auto switch

–	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 258 for applicable auto switches.

Bore size (Standard 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

–	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.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

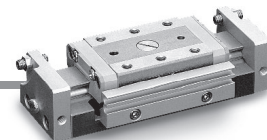
Air Slide Table

25A-MXP Series

Ø 6, Ø 8, Ø 10, Ø 12, Ø 16

RoHS

How to Order



25A-MXP 12-15 - M9BW

Series compatible
with secondary
batteries

Bore size (Standard stroke [mm])

6	5, 10
8	10, 20
10	10, 20
12	15, 25
16	20, 30

Adjuster option

—	Rubber stopper
B	Shock absorber
C	Metal stopper

Number of auto switches

—	2
S	1
n	n

* In the case of 25A-MXP6-5, with 2 auto switches are available for D-M9□ type and D-M9□V type only. For other switches, no other choice is affordable but with 1 piece attached (symbol: S).

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 258 for auto switch model numbers.

Magnet/Switch rail

—	With magnet and rail
N	Without magnet and rail

* Auto switch cannot be mounted on type N (without magnet and rail).

- * Adjuster for 25A-MXP6 series is available for one side only.
- * Shock absorber is not available in 25A-MXP6 and 25A-MXP8 series.
- * When the adjuster option with shock absorber or metal stopper is used, metal-to-metal collisions occur, and may generate dust particles.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Miniature Guide Rod Cylinder

25A-MGJ Series

Ø 6, Ø 10



How to Order

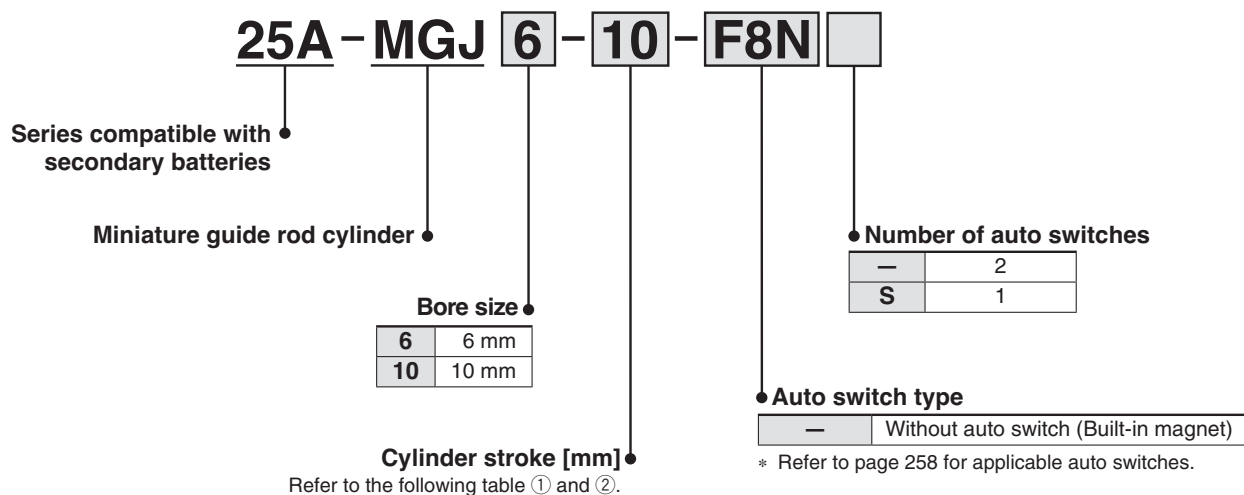


Table ① Standard Strokes

Bore size [mm]	Standard stroke [mm]
6	5, 10, 15
10	5, 10, 15, 20

Table ② Intermediate Stroke (by the 1 mm stroke)

Bore size [mm]	Applicable stroke [mm]
6	1 to 15 (Spacer type)
10	1 to 20 (Spacer type)
Example	Model no.: 25A-MGJ6-9 Installing a 1 mm width spacer for 25A-MGJ6-10 External size: same as 25A-MGJ6-10

* When mounting an auto switch, the min. stroke is 4 mm.
However, only 1 auto switch can be mounted in this case.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalog](#).

Compact Guide Cylinder

RoHS

25A-MGP Series

Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100



How to Order

25A-MGP **M** **25** **-** **30** **Z-** **M9BW**

Series compatible
with secondary
batteries

Compact guide cylinder

Bearing type

M	Slide bearing
L	Ball bushing

Bore size

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

Port thread type

-	M5 x 0.8
	Rc
TN	NPT
TF	G

* For bore sizes Ø 12 and Ø 16,
only M5 x 0.8 is available.

Number of auto switches

-	2
S	1
n	n

Auto switch

-	Without auto switch (Built-in magnet)
----------	---------------------------------------

* For applicable auto switches, refer to page
258.

* The 25A- series specifications and dimensions
are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Compact Guide Cylinder/With Air Cushion

25A-MGP Series

Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

RoHS



How to Order

25A-MGP M 32 - 50 AZ-M9BW

Series compatible
with secondary
batteries

Compact guide cylinder

Bearing type

M	Slide bearing
L	Ball bushing

Bore size

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

With air cushion

Cylinder stroke [mm]

Bore size	Standard stroke
16	25, 50, 75, 100, 125, 150, 175, 200, 250
20 to 63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400
80, 100	50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

Port thread type

—	M5 x 0.8
	Rc
TN	NPT
TF	G

* For bore size 16, only
M5 x 0.8 is available.

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	--

* For applicable auto switches, refer
to page 258.

* The 25A- series specifications and dimensions
are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Compact Guide Cylinder

25A-MGPK Series

Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50

RoHS

How to Order

25A-MGPK A M 32 - 50 - M9BW

Series compatible with secondary batteries

Compact guide cylinder

Plate material

A	Aluminum alloy
F	Carbon steel

Bearing type

M	Slide bearing
---	---------------

Bore size

12	12 mm	32	32 mm
16	16 mm	40	40 mm
20	20 mm	50	50 mm
25	25 mm		

Port thread type

—	M5 x 0.8
	Rc
TN	NPT
TF	G

* For bore sizes 12 and 16, only M5 x 0.8 is available.

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

Piping port location

—	Top/Side ported
P*1	Top ported

*1 For bore sizes 12 and 16 only

Cylinder stroke [mm]

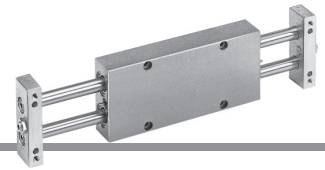
Bore size [mm]	Standard stroke [mm]
12, 16	10, 20, 30, 40, 50, 75, 100, 125, 150
20, 25	20, 30, 40, 50, 75, 100, 125, 150, 175, 200
32 to 50	25, 50, 75, 100, 125, 150, 175, 200

Slide Unit: Built-in Shock Absorber Slide Bearing Type

RoHS

25A-CXWM Series

Ø 10, Ø 16, Ø 20, Ø 25, Ø 32



How to Order

Port thread type

—	M thread	Ø 10 to Ø 20
—	Rc 1/8	
TN	NPT 1/8	Ø 25, Ø 32
TF	G 1/8	

25A — C DB XWM 16 — 150 — J79W

Series compatible with secondary batteries

Cylinder with auto switch

Symbol	Specifications/Mounting
—	Without magnet for switch*1
DB	With auto switch (Built-in magnet)/ Housing mounting
DP	With auto switch (Built-in magnet)/ Plate mounting

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

Bearing type

M	Slide bearing
---	---------------

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* Refer to page 258 for applicable auto switches.

Bore size/Stroke [mm]

Bore size	Stroke
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

* For the strokes indicated in the parentheses of the Ø 10, Ø 16 and Ø 25, shock absorbers are to be mounted on both sides of the plate. For the strokes indicated in the parentheses of the Ø 20 and Ø 32, a shock absorber is to be mounted on single side of the plate.

* For the strokes other than those indicated above, refer to the **Web Catalogue**.

* For Ø 16, Ø 20 and Ø 25, strokes up to 300, and for Ø 32, strokes up to 250 are available as Made-to-Order.

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.
(Example) 25A-CDPXWM20-100

* The 25A- series specifications and dimensions are the same as those of the standard model.

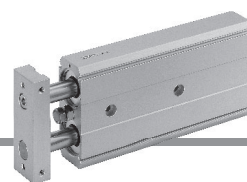
For details, refer to the **Web Catalogue**.

Dual Rod Cylinder/Compact Type

25A-CXSJ Series

Ø 6, Ø 10, Ø 15, Ø 20, Ø 25, Ø 32

RoHS



How to Order

Port thread type

—	M thread	Ø 6 to Ø 25
	Rc1/8	
TN	NPT1/8	Ø 32
TF	G1/8	

25A-CXSJ M 6 — 50 — M9BW

Series compatible with secondary batteries

Compact type

Bearing type

M	Slide bearing
L	Ball bushing bearing

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 258 for auto switch model numbers.

Bore size/Stroke [mm]

Bore size	Standard stroke
6	10, 20, 30, 40, 50
10	10, 20, 30, 40, 50, 75
15	
20	10, 20, 30, 40, 50, 75, 100
25	
32	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Dual Rod Cylinder Basic Type

25A-CXS Series

Ø 6, Ø 10, Ø 15, Ø 20, Ø 25, Ø 32

RoHS



How to Order

Slide bearing type

Series compatible with secondary batteries

Port thread type

—	M thread	Ø 6 to Ø 20
	Rc1/8	
TN	NPT1/8	Ø 25, Ø 32
TF	G1/8	

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

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 258 for applicable auto switches.

Ordering example: **25A-CXSM 25 100 Y7BW**

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Ball bushing bearing type

Series compatible with secondary batteries

Port thread type

—	M thread	Ø 6 to Ø 20
	Rc1/8	
TN	NPT1/8	Ø 25, Ø 32
TF	G1/8	

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

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 258 for applicable auto switches.

Ordering example: **25A-CXSL 20 100 Y7BW**

* The 25A- series specifications and dimensions are the same as those of the standard model.

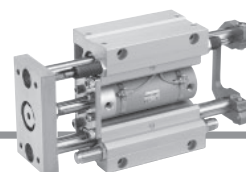
For details, refer to the **Web Catalogue**.

Guide Cylinder

RoHS

25A-MGG Series

Ø 20, Ø 25, Ø 32, Ø 40, Ø 50



How to Order

25A - MGG L B 32 - 100 - M9BW

Series compatible
with secondary
batteries

Guide cylinder

Bearing type

L	Ball bushing
---	--------------

Mounting

B	Basic
F	Front mounting flange

Bore size

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

Port thread type

—	Rc
TN	NPT
TF	G

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet)
---	--

* Refer to page 258 for applicable
auto switches.

Cylinder stroke [mm]

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

* Intermediate strokes and short strokes other than those listed
above are produced upon receipt of order.

* The 25A- series specifications and dimensions
are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Rotary Clamp Cylinder: Standard

25A-MK Series

RoHS

Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63

How to Order



25A - MKB 20 - 10 R Z - M9BW

Series compatible with secondary batteries

Bore size

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

Port thread type

—	M thread	Ø 12 to Ø 25
	Rc	
TN	NPT	Ø 32 to Ø 63
TF	G	

Clamp stroke

Symbol	Clamp stroke	Applicable bore size
10	10 mm	Ø 12 to Ø 63
20	20 mm	
30	30 mm	
50	50 mm	Ø 32 to Ø 63

Number of auto switches

—	2
S	1

Auto switch type

—	Without auto switch (Built-in magnet)
---	---------------------------------------

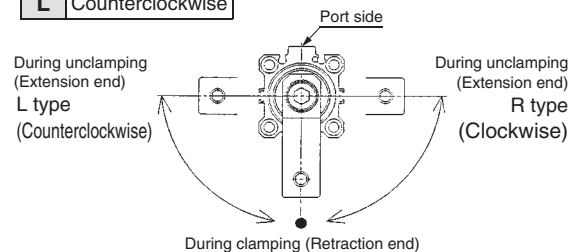
* For applicable auto switch models, refer to page 258.

* Auto switches are shipped together with the product but do not come assembled.

Auto switch multiple side mounting

Rotary direction (Unclamp ♦ Clamp)

R	Clockwise
L	Counterclockwise



* The coil scraper is not built-in.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Stopper Cylinder/Fixed Mounting Height

25A-RSQ Series

Ø 12, Ø 16, Ø 20, Ø 32, Ø 40, Ø 50

RoHS



How to Order

Bore size		Cylinder stroke [mm]	
12	12 mm	12	10

Ø 12

25A-RS

D

Q

B

12

- 10

D

- L

M9BW

Ø 16 to Ø 50

25A-RS

D

Q

B

20

- 15

D

Z

- L

M9BW

Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

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

Mounting

B	Through-hole
A	Both ends tapped type

* Since Ø 12 uses a common tube for both A and B, only B is used for part no. denotation.

Bore size

16	16 mm
20	20 mm
32	32 mm
40	40 mm
50	50 mm

Port thread type

—	M thread	Ø 16
	Rc	
TN	NPT	Ø 20 to Ø 50
TF*1	G	

*1 TF for Ø 20 indicates M5.

Cylinder stroke [mm]

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

Action

D	Double acting
B	Double acting with spring loaded
T	Single acting (Spring extend)

Rod end configuration

—	Round bar
F*1	Round bar with female rod end
K	Chamfered
G*1	Chamfered with female rod end
R	Roller
L*2	Lever (Fixed absorber type)

*1 F and G are not available for bore size Ø 12.
*2 L is applicable only to bore sizes Ø 32, Ø 40, and Ø 50.

Mounting bolt

—	None
L	Shipped together

* Mounting bolt is shipped together only when the "Mounting" symbol is B.

Auto switch type

—	Without auto switch
---	---------------------

* For applicable auto switch models, refer to page 258.

Number of auto switches

—	2
S	1

* The 25A- series specifications and dimensions are the same as those of the standard model.

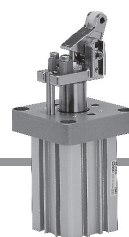
For details, refer to the Web Catalogue.

Heavy Duty Stopper Cylinder

25A-RSH Series

Ø 20, Ø 32

RoHS



How to Order

25A-RSH 32 - 20 D L - M9BW

Series compatible
with secondary
batteries

Bore size

20	20 mm
32	32 mm

Port thread type

—	M*1
	Rc
TN	NPT
TF	G

*1 The tube I.D. of 20 is
only available to port
size M screws.

Cylinder stroke

15	15 mm (RSH20)
20	20 mm (RSH32)

Number of auto switches

—	2
S	1

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* For applicable auto switches, refer to page
258.

Roller material

L	Resin
M	Carbon steel

Action

D	Double acting type
B	Double acting spring type
T	Single acting/Spring extended

* The 25A- series specifications and dimensions
are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

25A-C85 Series

Ø 8, Ø 10, Ø 12, Ø 16, Ø 20, Ø 25

How to Order



Double acting, Single rod

25A-C D 85 N 20-40 C L-B-M9BW S

Series compatible with secondary batteries

Head cover type

N	Basic (Integrated clevis)
E	Double end boss-cut
F	Boss-cut/Basic
Y	Head cover axial port

Applicable head cover

Action	Head cover type			
	N	E	F	Y
Rubber bumper	●	●	●	●
Air cushion	●*1	—	—	—

*1 Excluding Ø 8

Built-in magnet

—	None
D	Built-in magnet

Bore size

8	8 mm
10	10 mm
12	12 mm
16	16 mm
20	20 mm
25	25 mm

Cushion

—	Rubber bumper (Standard)
C	Air cushion

Cylinder stroke [mm]
Manufacturable stroke range

Bore size [mm]	Manufacturable stroke range [mm]*2, *3, *4
8*1	5 to 200
10	5 to 400
12	
16	
20	5 to 1000
25	

- *1 Not available with air cushion.
- *2 The minimum stroke with air cushion is 25 mm.
- *3 The min. stroke of the type with a magnet varies depending on the switch.
- *4 Applicable strokes differ depending on the usage conditions and mounting brackets. For details, refer to the "Stroke Selection" section of the C85 series in the Web Catalogue.

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch
---	---------------------

* For applicable auto switches, refer to page 255.

Auto switch mounting type*6

B	Band mounting
---	---------------

*6 The symbol is "—" for no magnet.

Mounting bracket*5

—	None
L	Single foot
M	Double foot
G	Flange
U	Trunnion
N	Clevis

*5 Mounting bracket is shipped together with the product.

*5 Refer to Mounting Brackets for details of mounting brackets.

Applicable mounting bracket

Action	Head cover type	Mounting bracket					
		L	M	G	U	N	
Rubber bumper	N	●	●	●	●	●	●
	E	●	●	●	●	—	—
	F	●	—	●	●	—	—
	Y	●	—	●	●	—	—
Air cushion	N*7	●	●	●	●	●	●

*7 Excluding Ø 8

Mounting Bracket Part Nos. for the 25A- Series

Mounting bracket		Bore size [mm]						Contents
		8	10	12	16	20	25	
Mounting bracket	Rod end nut	C85NT08A-S	C85NT10A-S	C85NT12A-S	C85NT16A-S	C85NT20A-S	C85NT25A-S	1 rod end nut
	Mounting nut	C85NT08B-S	C85NT10B-S	C85NT12B-S	C85NT16B-S	C85NT20B-S	C85NT25B-S	1 mounting nut
	Foot (1 pc.)	25A-C85L10A	25A-C85L16A	25A-C85L12A	25A-C85L25A	25A-C85L20A	25A-C85L25A	1 foot bracket
	Foot (2 pcs. with 1 mounting nut)	25A-C85L10B	25A-C85L16B	25A-C85L12B	25A-C85L25B	25A-C85L20B	25A-C85L25B	2 foot brackets, 1 mounting nut
	Foot (1 pc. with 1 mounting nut)	25A-C85L10C	25A-C85L16C	25A-C85L12C	25A-C85L25C	25A-C85L20C	25A-C85L25C	1 foot bracket, 1 mounting nut
	Flange	25A-C85F10	25A-C85F16	25A-C85F12	25A-C85F25	25A-C85F20	25A-C85F25	1 flange
	Trunnion	C85T10	C85T16	C85T12	C85T25	C85T20	C85T25	1 trunnion
	Clevis	25A-C85C10	25A-C85C16	25A-C85C12	25A-C85C25	25A-C85C20	25A-C85C25	1 clevis pivot bracket, 1 clevis pin, 2 pin retaining rings

Replacement Parts: For Standard Type

Bore size [mm]	Part no.	Note
20	25A-C85A-20PS	Every set includes: 1 rod seal 1 flat washer 1 retaining ring
25	25A-C85A-25PS	

* When replacing the seals, use grease (GR-S-010: ordered separately) on the sliding parts.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

ISO Standard (15552)

ISO Cylinder: Standard Double Acting, Single Rod

RoHS

25A-CP96 Series

Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100, Ø 125



How to Order

25A-CP96S B 32 - 100 C

With auto switch 25A-CP96SD B 32 - 100 C - M9BW S

Series compatible with secondary batteries

With auto switch (Built-in magnet)

Bore size

Bore size	Stroke [mm]
32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm
125	125 mm

Cylinder stroke [mm]

Bore size [mm]	Standard stroke [mm]	Max. stroke
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	1900
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	1850
125	—	1850

Number of auto switches

Number of auto switches	Symbol
2	—
1	S
3	3
n	n

Auto switch

Auto switch	Symbol
Without auto switch	—

* For applicable auto switches, refer to page 255.

Cushion

Symbol	Cushion	Bore size [mm]
C	Air cushion on both ends + Bumper cushion	Ø 32 to Ø 100
—	Air cushion	Ø 125

* Aside from the standard strokes, intermediate strokes are also available in 1 mm increments and are produced upon receipt of order.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

ISO Standard (15552)

ISO Cylinder: Standard
Double Acting, Single Rod

RoHS

25A-C96 Series

Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100, Ø 125



How to Order

25A-C96S B **32** - **100** **C**

With auto switch **25A-C96SD** B **32** - **100** **C** - **M9BW** **S**

Series compatible with secondary batteries

With auto switch (Built-in magnet)

Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm
125	125 mm

Number of auto switches

—	2
S	1
3	3
n	n

Auto switch

—	Without auto switch
---	---------------------

* For applicable auto switches, refer to page 255.

Cushion

Symbol	Cushion	Bore size [mm]
C	Air cushion on both ends + Bumper cushion	Ø 32 to Ø 100
—	Air cushion	Ø 125

Cylinder stroke [mm]

Bore size [mm]	Standard stroke [mm]	Max. stroke
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1000
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	1900
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	1850
125	—	1850

* Aside from the standard strokes, intermediate strokes are also available in 1 mm increments and are produced upon receipt of order.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

ISO/VDMA Cylinder: Large Bore Size Type Double Acting, Single Rod

25A-C95 Series

Ø 160, Ø 200

RoHS

How to Order

Without auto switch

25A - C95S B 200 - 100

With auto switch

25A - C95S D B 200 - 100 - M9BW

Series compatible with
secondary batteries

Built-in magnet

Mounting

B Basic/without bracket style

Bore size

160	160 mm
200	200 mm

Standard stroke

Bore size (mm)	Max. stroke*1
160	1600
200	1600

*1 Please consult with SMC for longer strokes.

* Intermediate strokes are available.

Auto switch

— Without auto switch

* For applicable auto switches, refer to page 256.

Number of auto switches

—	2
S	1
3	3
n	n

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

ISO Standard (21287)

Compact Cylinder: Double Acting, Single Rod

RoHS

25A-C55 Series

Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100



How to Order

25A-C D 55 B 20 - 10 - M9BW

Series compatible with secondary batteries

With auto switch

—	Without magnet for switch*1
D	With auto switch (Built-in magnet)

*1 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
C	Single clevis

* Mounting brackets are shipped together with the product but do not come assembled.

* For mounting bracket option "B" with through-holes, a mounting bolt is not included.

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

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-CD55L32-25

Number of auto switches

—	2
S	1
n	n

Auto switch

—	Without auto switch (Built-in magnet cylinder)
---	--

* For applicable auto switches, refer to page 256.

* Auto switches are shipped together, but not assembled.

Rod end thread

—	Female rod end
M	Male rod end

* A rubber bumper comes as standard.

Cylinder stroke [mm]

20 to 63	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
80, 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Flange	Single clevis*2
20	25A-C55-L020	25A-C55-F020	25A-C55-C020
25	25A-C55-L025	25A-C55-F025	25A-C55-C025
32	25A-C55-L032	25A-C55-F032	—
40	25A-C55-L040	25A-C55-F040	—
50	25A-C55-L050	25A-C55-F050	—
63	25A-C55-L063	25A-C55-F063	—
80	25A-C55-L080	25A-C55-F080	—
100	25A-C55-L100	25A-C55-F100	—

*1 Foot bracket part number contains two foot brackets

*2 The single clevis is only applicable to bore sizes Ø 20 and Ø 25.

* Mounting bolts are also included with bracket.

* The 25A- series specifications and dimensions are the same as those of the standard model.

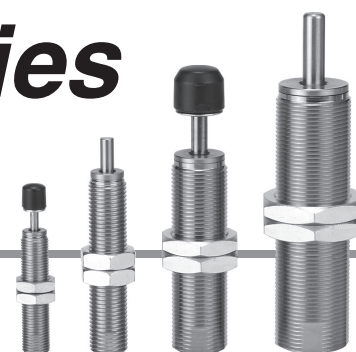
For details, refer to the **Web Catalogue**.

Shock Absorber Soft Type

25A-RJ Series

RoHS

How to Order



O.D. thread size/Stroke

Symbol	O.D. thread	Stroke
0604	6 mm	4 mm

Option

Symbol	Hexagon nut
—	2 pcs.
N	—

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
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

Option

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

With cap

Symbol	Basic type
U	With urethane cap

Collision speed range

Symbol	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

Hexagon Nut, Stopper Nut (Option) Part Nos. for the 25A- Series

		Thread size					
		M6	M8	M10	M14	M20	M27
Hexagon nut		25A-RJ06J	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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Shock Absorber Short Stroke Type

RoHS

25A-RJ Series

How to Order

Short stroke type

25A - RJ 0805 U

Series compatible with
secondary batteries

Shock absorber/Soft type

O.D. thread size/Stroke

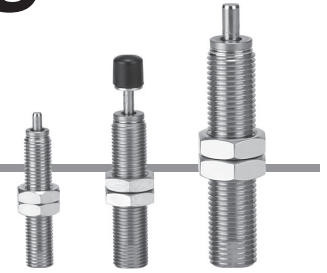
Symbol	O.D. thread	Stroke
0805	8 mm	5 mm
1006	10 mm	6 mm
1410	14 mm	10 mm

Option

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

With cap

—	Basic type
U	With urethane cap



Hexagon Nut, Stopper Nut (Option) Part Nos. for the 25A- Series

		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

* The 25A- series specifications and dimensions are the same as those of the standard model.

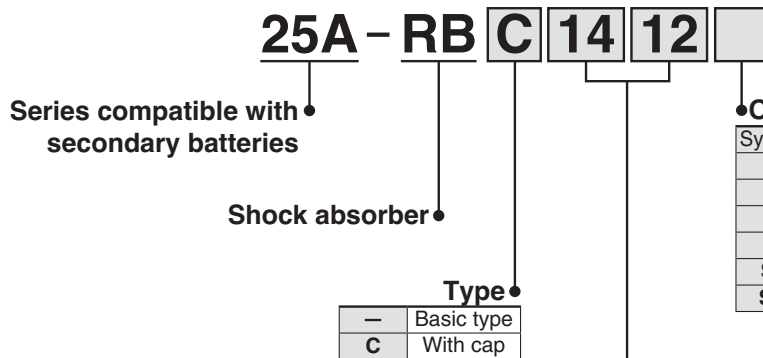
For details, refer to the **Web Catalogue**.

Shock Absorber

RoHS

25A-RB/RBC Series

How to Order



Option

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

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

Hexagon Nut, Stopper Nut (Option) Part Nos. for the 25A- Series

		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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Directional Control Valves

Air Cylinders

Related Products

Rotary Actuators

Air Grippers

Vacuum Equipment

Air Preparation Equipment

Clean Air Filters

Modular F.R.L./Pressure Control Equipment

Flow Control Equipment/Fittings

Detection Switches

Fluid Control Equipment

Process Gas Equipment

Electric Actuators

Auto Switches

Floating Joint 25A-J□ Series

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 Ø 63 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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



How to Order

For compact cylinders

25A-JB 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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



How to Order

Stainless steel type

25A-JS 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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



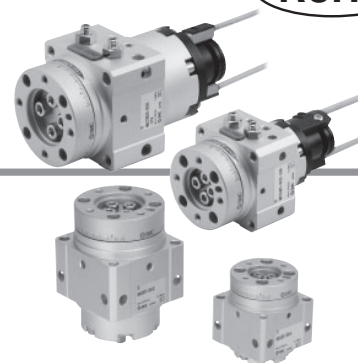
Rotary Table: Vane Type

25A-MSUB Series

Size: 1, 3, 7, 20

RoHS

How to Order



Without auto switch 25A-M SUB 20-90 S

With auto switch 25A-M D SUB 20-90 S-T79 L

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

Connection port location

—	Side ported
E	Axial ported

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

Vane type

S	Single vane
D	Double vane

Number of auto switches

S	1*1
—	2*2

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

Electrical entry/Lead wire length

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

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 259 for applicable auto switches.

- * The 25A- series specifications and dimensions are the same as those of the standard model.
- * Zinc is used in part of deep groove ball bearing.

For details, refer to the **Web Catalogue**.

Rotary Table/Rack & Pinion Type

25A-MSQ Series

Size: 10, 20, 30, 50

How to Order



25A-MSQ 10 A - M9BW -

① ② ③ ④ ⑤ ⑥

Series compatible with
secondary batteries

① Size

10
20
30
50

② Cushion type

A	Cushion pad
D	Bumper

③ Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* For applicable auto switches, refer to page 259.

④ Number of auto switches

—	2
s	1
n	n

⑤ Port type

End port type		Size
—	M5	10, 20
Nil	Rc1/8	30, 50
-XF	G1/8	
-XN	NPT1/8	
-XT	NPTF1/8	

⑥ Made to order

—	None
A	With interchangeable table and plate
B	With interchangeable table
C	With interchangeable plate

* Zinc is used in part of deep groove ball bearing and seal washer.

* Some parts have dimensions and shapes that are different from those of the standard model. Refer to page 160-2 for details. Other specifications are the same as those of the standard model.

For details, refer to the Web Catalogue

25A-MSQ 10 A - M9BW - - **X251**

① ② ③ ④ ⑤ ⑥ • With vacuum port

Series compatible with
secondary batteries

① Size

10
20
30
50

② Cushion type

A	Cushion pad
D	Bumper

③ Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* For applicable auto switches, refer to page 259.

④ Number of auto switches

—	2
s	1
n	n

⑤ Port type

End port type		Size
—	M5	10, 20
—	Rc1/8	30, 50
-XF	G1/8	
-XN	NPT1/8	
-XT	NPTF1/8	

⑥ Made to order

—	None
B	With interchangeable table

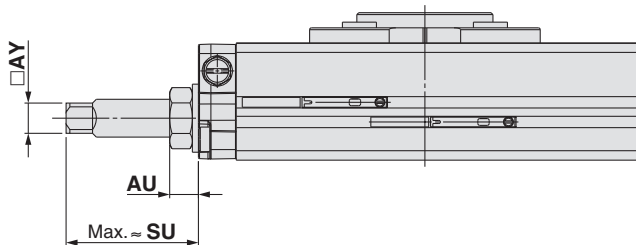
* Zinc is used in part of deep groove ball bearing and seal washer.

* Some parts have dimensions and shapes that are different from those of the standard model. Refer to page 160-2 for details. Other specifications are the same as those of the standard model.

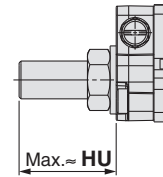
For details, refer to the Web Catalogue

Dimensions

Basic type 25A-MSQ□A



Bumper 25A-MSQ□D

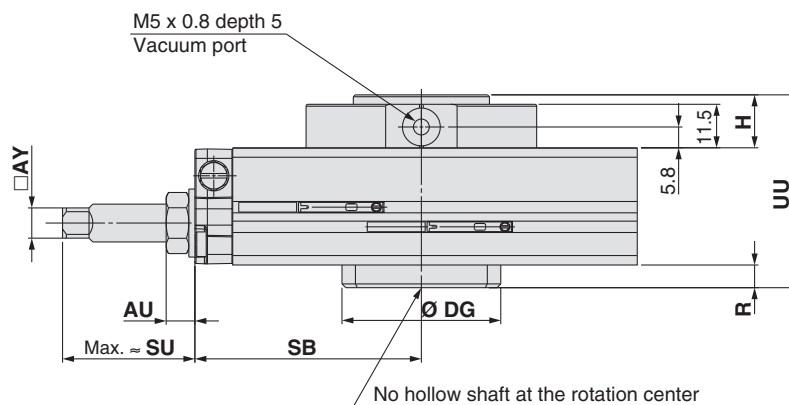


Size	AU	AY	HU	SU
10	6.5	6	18	24
20	7.5	8	26	34
30	7.5	8	24	32
50	10	10	34	45.5

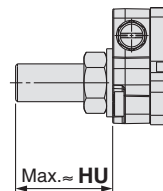
* Dimensions other than those shown above are identical to the standard products.

For details, refer to the Web Catalogue

With vacuum port 25A-MSQ□A-X251



Bumper 25A-MSQ□D-X251



Size	AU	AY	DG	H	HU	R	SB	SU	UU
10	6.5	6	35h9	14.2	18	5	47.2	24	48.7
20	7.5	8	42h9	14	26	6	59.9	34	51
30	7.5	8	48h9	14	24	6	65.3	32	58
50	10	10	54h9	14	34	7	77.7	45.5	64

* Dimensions other than those shown above are identical to the standard products.

* The product with the vacuum port has no hollow shaft at its rotation center.

For details, refer to the Web Catalogue

MSQ Series

Made to Order

Please contact SMC for detailed dimensions, specifications, and delivery times.



Symbol

-A, -B, -C

1 With Interchangeable Table and Plate

Applicable Rotary Table

Model	Made to order			Note
	With interchangeable table and plate	With interchangeable table	With interchangeable plate	
25A-MSQ	○	○	○	
25A-MSQ□-B-X251	—	○	—	

How to Order

Standard model no. —

A

Made to order

A	With interchangeable table and plate	* The interchangeable table and plate can be ordered separately. For details, refer to the tables below.
B	With interchangeable table	
C	With interchangeable plate	* The interchangeable table and plate are assembled before shipment.

Part Nos. of Interchangeable Parts

Interchangeable A Unit (With Interchangeable Table and Plate)

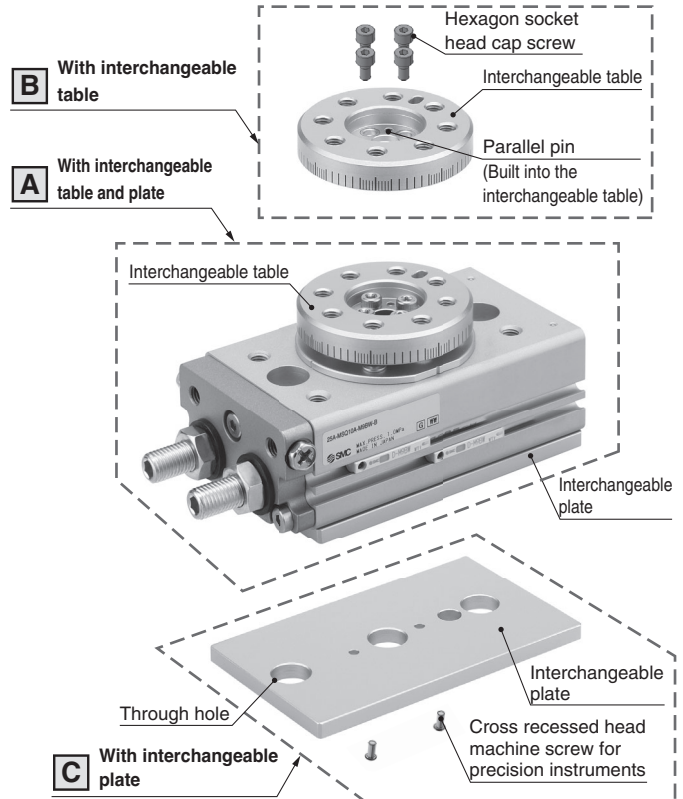
Size	Part no.	Contents
		Description (Qty.)
10	P891010-53	· Interchangeable table (1)
20	P891020-53	· Parallel pin (1)
30	P891030-53	· Hexagon socket head cap screw (4)
50	P891050-53	· Interchangeable plate (1)
		· Cross recessed head machine screw for precision instruments (2)

Interchangeable B Unit (With Interchangeable Table)

Size	Part no.	Contents
		Description (Qty.)
10	P891010-54	· Interchangeable table (1)
20	P891020-54	· Parallel pin (1)
30	P891030-54	· Hexagon socket head cap screw (4)
50	P891050-54	

Interchangeable C Unit (With Interchangeable Plate)

Size	Part no.	Contents
		Description (Qty.)
10	P891010-55	· Interchangeable plate (1)
20	P891020-55	· Cross recessed head machine screw for precision instruments (2)
30	P891030-55	
50	P891050-55	



* To position the product, use the knock pin holes on the body instead of the through holes that are empty in the interchangeable plate.

Dimensions: The dimensions of the 25A-MSQ are the same as those of the standard product.
Refer below for the dimensions of the 25A-MSQ□-B-X251 with a vacuum port.

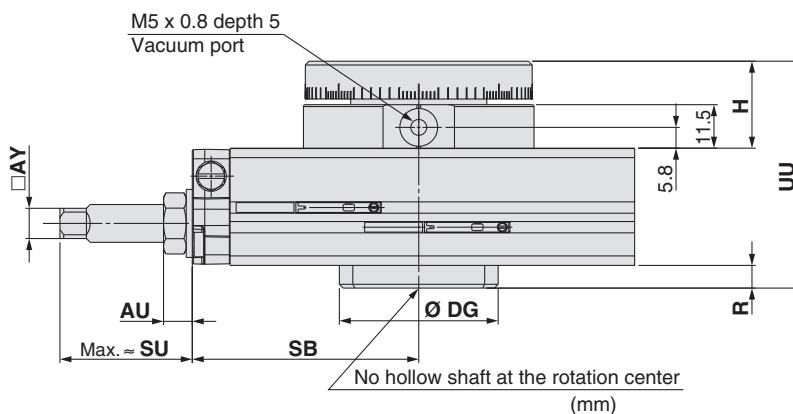
* Refer to page 31 for the tightening torque of the interchangeable parts.

Dimensions

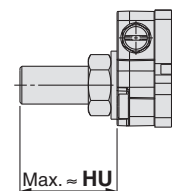
* Mounting diagram of the interchangeable table

Dimensions other than those shown below are the same as those of the basic type. Refer to the **Web Catalog** for details.

With vacuum port/With interchangeable table 25A-MSQ□A-B-X251



Bumper 25A-MSQ□D-B-X251



Size	AU	AY	DG	H	HU	R	SB	SU	UU
10	6.5	6	35h9	21	18	5	47.2	24	55.7
20	7.5	8	42h9	23	26	6	59.9	34	60
30	7.5	8	48h9	23	24	6	65.3	32	67
50	10	10	54h9	26	34	7	77.7	45.5	75.5

* Dimensions other than those shown above are identical to the standard products.

* The product with the vacuum port has no hollow shaft at its rotation center.

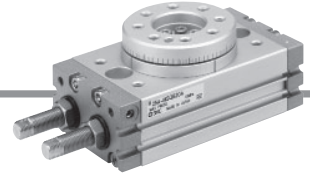
Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
------------------	-----------------------	--------------------------	----------------------------	-----------------------	--	---	----------------------	------------------------------	---------------------	--------------	---------------------	---------------------	---------------	-------------------------------

Rotary Table/Rack & Pinion Type

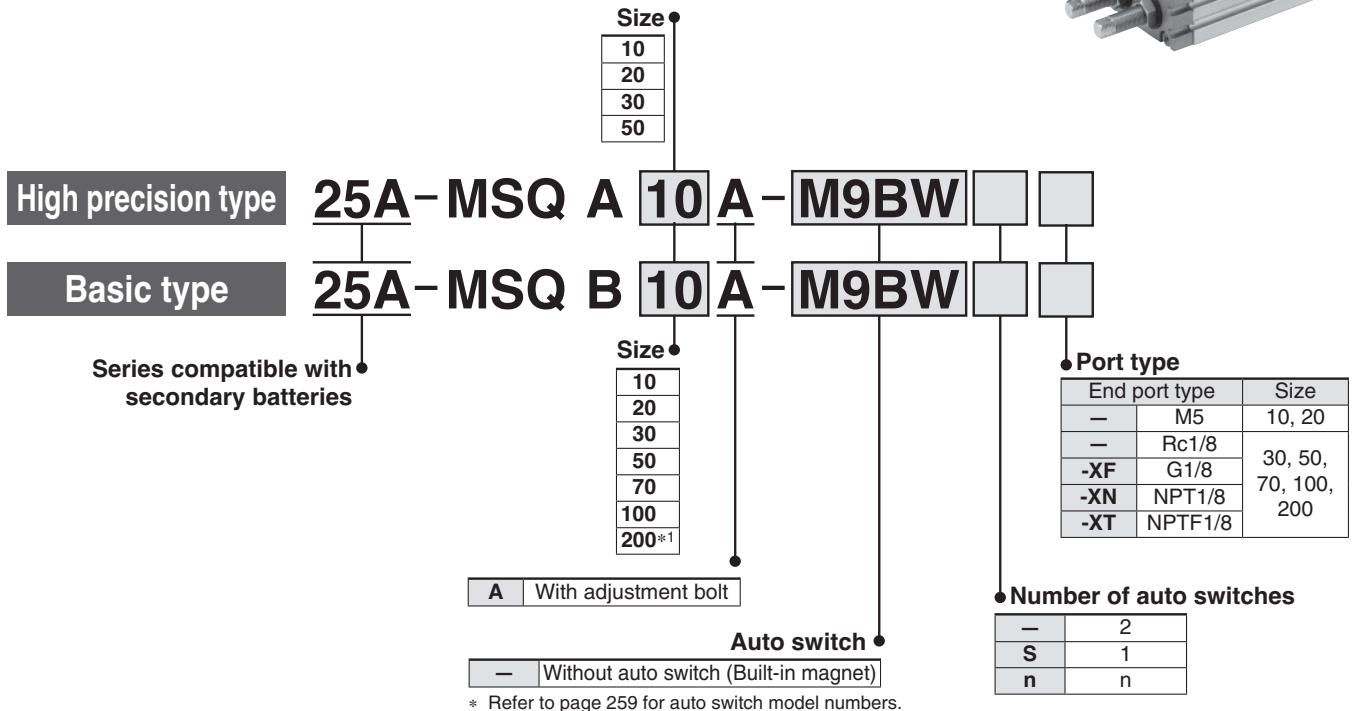
25A-MSQ Series

Size: 10, 20, 30, 50, 70, 100, 200

RoHS



How to Order



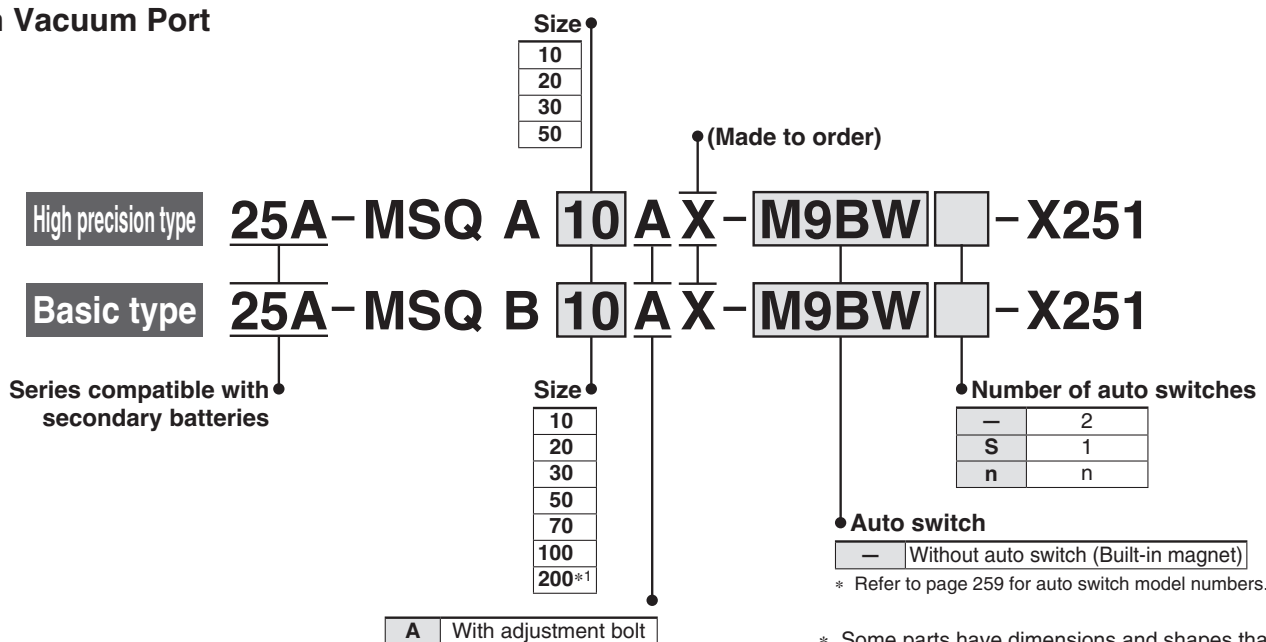
- *1 Size 200 is produced upon receipt of order.
- * Zinc is used in part of deep groove ball bearing and seal washer.
- * Side port cannot be used.

* Refer to page 259 for auto switch model numbers.

- * Some parts have dimensions and shapes that are different from those of the standard model. Refer to page 162 for details. Other specifications are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

With Vacuum Port



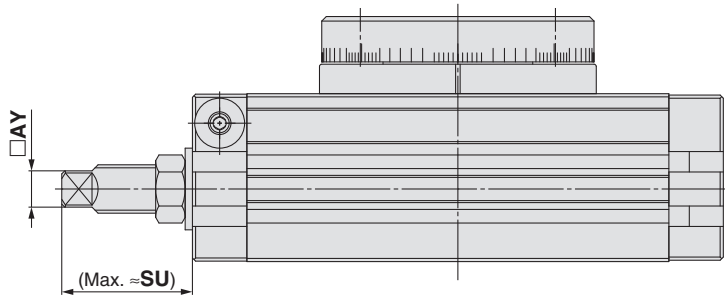
- *1 Size 200 is produced upon receipt of order.
- * Zinc is used in part of deep groove ball bearing and seal washer.
- * Side port cannot be used.

- * Some parts have dimensions and shapes that are different from those of the standard model. Refer to page 162 for details. Other specifications are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Dimensions

25A-MSQB□A

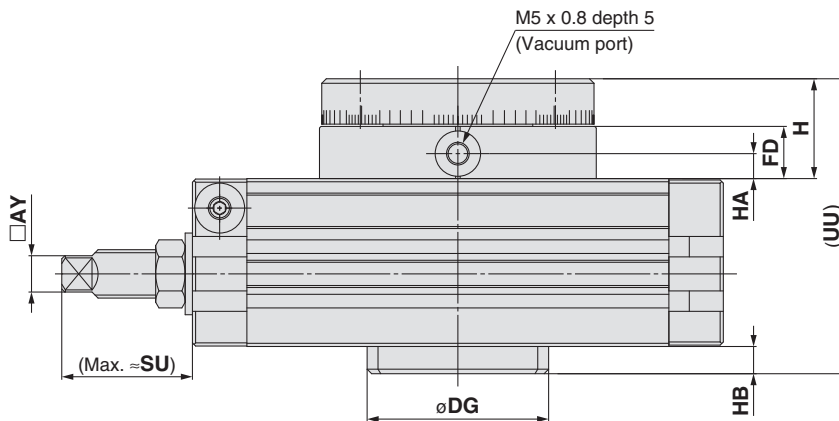


[mm]		
Size	AY	SU
10	6	23.7
20	8	33
30	8	33
50	10	42.9
70	16	44.2
100	16	44.3
200	21	52.2

* Dimensions other than those shown above are identical to the standard products.

For details, refer to the **Web Catalogue**.

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
200	21	64h9	15	32	7.5	8	52.2	114

* The product with the vacuum port has no hollow shaft at its rotation centre.

* Dimensions other than those shown above are identical to the standard products.

For details, refer to the **Web Catalogue**.

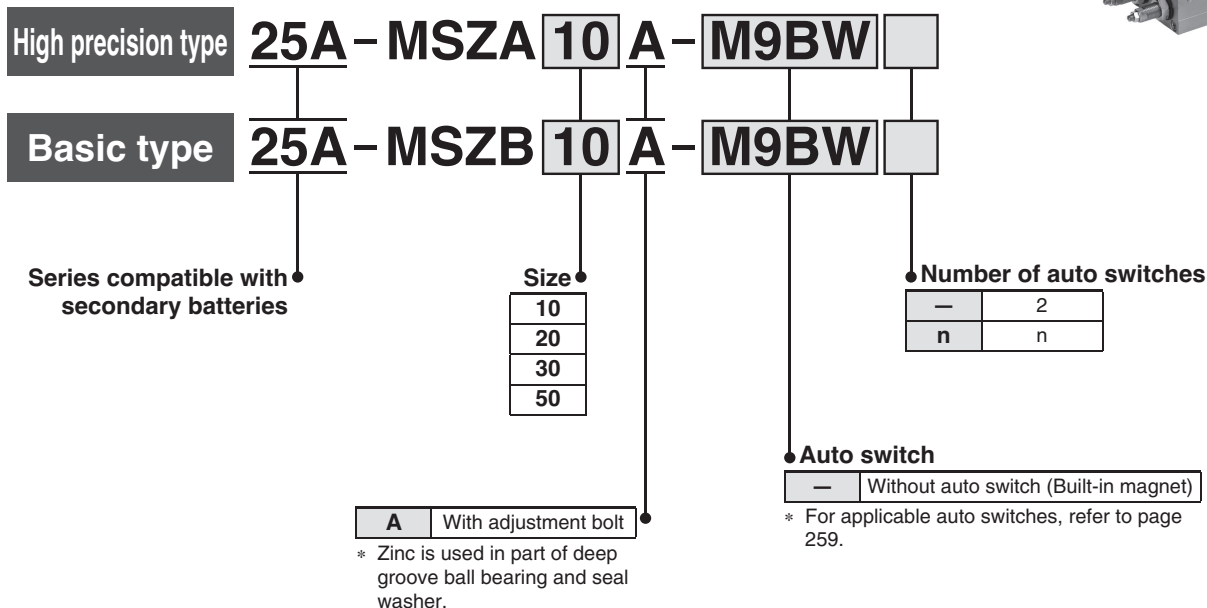
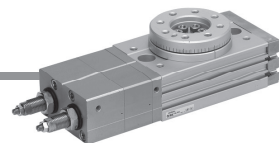
3-Position Rotary Table

25A-MSZ Series

Size: 10, 20, 30, 50

RoHS

How to Order



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

25A-JMHZ2 Series

RoHS

Compact Type Parallel Style Air Gripper/With Positioning Pins on the Lateral Mounting Surface

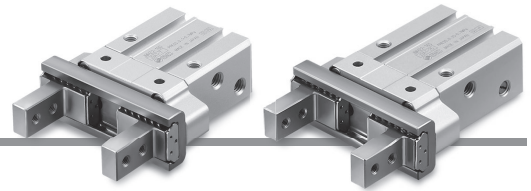
25A-JMHZ2-X6900(A, B) (Made to Order)

Compact Type Parallel Style Air Gripper/Lateral Auto Switch Mounting

25A-JMHZ2-X7460 (Made to Order)

Ø 8, Ø 12, Ø 16, Ø 20

How to Order



Bore Size

Ø 8 to Ø 20

25A-JMHZ2-16D-M9BW

Series compatible with secondary batteries

1 Number of fingers

2 2

2 Bore size

8	8 mm
12	12 mm
16	16 mm
20	20 mm

3 Action

D Double acting

4 Finger option

—	Standard
1	Side tapped mounting
2	Through-holes in opening/closing direction

5 Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 260 for applicable auto switch models.

6 Number of auto switches

—	2
S	1
n	n

* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

Bore Size

Ø 8 to Ø 20
Made to Order**25A-JMHZ2-16D-M9BW-X6900A**

Series compatible with secondary batteries

With positioning pins on the lateral mounting surface

1 Number of fingers

2 2

2 Bore size

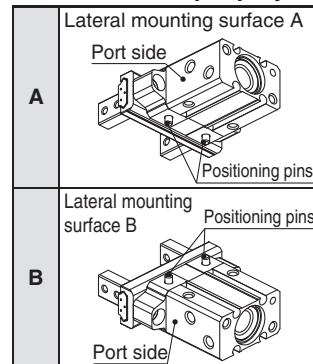
8	8 mm
12	12 mm
16	16 mm
20	20 mm

3 Action

D Double acting

4 Finger option

—	Standard
1	Side tapped mounting
2	Through-holes in opening/closing direction

7 Direction of pin projection**5** Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 260 for applicable auto switch models.

6 Number of auto switches

—	2
S	1
n	n

* The 25A- series have the same specifications and dimensions as those of the JMHZ2-X6900(A, B) (made-to-order individual specifications). For details, refer to the Web Catalogue.

Bore Size

Ø 8 to Ø 20
Made to Order**25A-JMHZ2-16D-M9BW-X7460**

Series compatible with secondary batteries

Lateral auto switch mounting

1 Number of fingers

2 2

2 Bore size

8	8 mm
12	12 mm
16	16 mm
20	20 mm

3 Action

D Double acting

4 Finger option

—	Standard
1	Side tapped mounting
2	Through-holes in opening/closing direction

5 Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 260 for applicable auto switch models.

6 Number of auto switches

—	2
S	1

* The 25A- series have the same specifications and dimensions as those of the JMHZ2-X7460 (made-to-order individual specifications). For details, refer to the Web Catalogue.

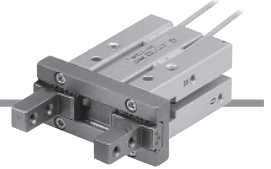
Parallel Type Air Gripper Standard Type

25A-MHZ2 Series

Ø 10, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40

RoHS

How to Order



Bore size

Ø 16 to Ø 25

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

Number of auto switches

—	2
S	1
n	n

Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 260 for applicable auto switch models.

Finger position/option

Standard (MHQG2 compatible type)

—: Basic type

1: Side tapped mounting

2: Through-holes in opening/closing direction

3: Flat type fingers

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

Narrow type (MHQ2 compatible type)

N: Basic type

N1: Side tapped mounting

N2: Through-holes in opening/closing direction

Bore size

Ø 32, Ø 40

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

Number of auto switches

—	2
S	1
n	n

Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 260 for applicable auto switch models.

Finger option

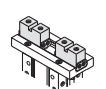
[Standard]

—: Basic type

1: Side tapped mounting

2: Through-holes in opening/closing direction

3: Flat type fingers



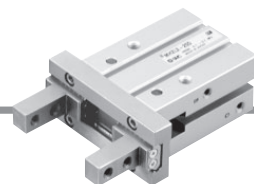
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Parallel Type Air Gripper Long Stroke Type **25A-MHZL2 Series** Ø 10, Ø 16, Ø 20, Ø 25

RoHS

How to Order



25A - MHZL2 - 16 D - M9BW

Series compatible with secondary batteries

Number of fingers
2 2 fingers

Symbol	Bore size [mm]
10	10 mm
16	16 mm
20	20 mm
25	25 mm

Bore size

Action
D Double acting

Number of auto switches

—	2
S	1
n	n

Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 260 for applicable auto switch models.

Finger option

— : Basic type

1: Side tapped mounting

2: Through-holes in opening/closing direction

3: Flat type fingers

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

25A-MHZJ2 Series

RoHS

25A-MHZJ2-X6100 (Made to Order)

Parallel Type Air Gripper with Dust Cover: Long Stroke Type

25A-MHZL2-X5955 (Made to Order)

How to Order

With Dust Cover



Series compatible with secondary batteries

Ø 10 to Ø 25
Ø 32, Ø 40
Made to Order

25A-MHZJ2-16D - **M9BW**

25A-MHZJ2-32D - **M9BW** - **X6100**

Bore size

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

Number of fingers

2	2 fingers
---	-----------

Bore size

32	32 mm
40	40 mm

Action

D	Double acting
---	---------------

Dust cover type

-	Chloroprene rubber (CR)
F	Fluororubber (FKM)
S	Silicone rubber (Si)

Auto switch

-	Without auto switch (Built-in magnet)
---	---------------------------------------

Number of auto switches

-	2
S	1
n	n

With dust cover

* Refer to page 260 for applicable auto switch models.

* Sizes Ø 10 to Ø 25 of the 25A- series have the same specifications and dimensions as those of the standard model.

For details, refer to the **Web Catalogue**.

* Sizes Ø 32 and Ø 40 of the 25A- series have the same specifications and dimensions as those of the MHZJ2-X6100 (made-to-order individual specifications).

For details, refer to the **Web Catalogue**.

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

Series compatible with secondary batteries

Ø 10 to Ø 20

25A-MHZL2-16D - **M9BW** - **X5955**

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

-	Chloroprene rubber (CR)
F	Fluororubber (FKM)
S	Silicone rubber (Si)

Auto switch

-	Without auto switch (Built-in magnet)
---	---------------------------------------

Number of auto switches

-	2
S	1
n	n

Long stroke type/ With dust cover

* Refer to page 260 for applicable auto switch models.

* The 25A- specifications and dimensions are the same as those of the MHZL2-X6110 (made to order individual specifications).

For details, refer to the **Web Catalogue**.

Low Profile Air Gripper

25A-MHF2 Series

Ø 8, Ø 12, Ø 16, Ø 20

RoHS

How to Order



25A—MHF 2 — 12 D — — — M9BW —

- Number of fingers

2	2 fingers
---	-----------
- Series compatible with secondary batteries

Bore size [mm]

8	8
12	12
16	16
20	20

Action

D	Double acting
---	---------------

Stroke

—	Short stroke
1	Medium stroke
2	Long stroke

Number of auto switches

—	2
S	1
n	n

Auto switch

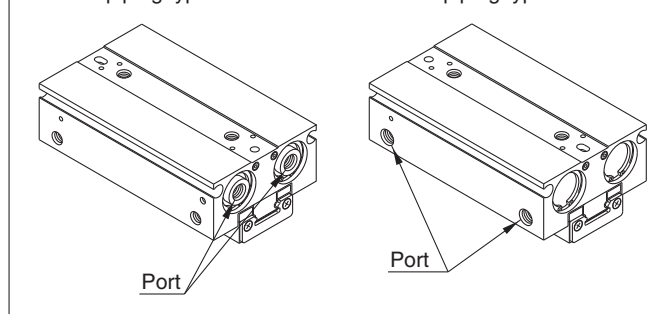
—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 261 for applicable auto switch models.

Body option

—: Axial piping type

R: Side piping type



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

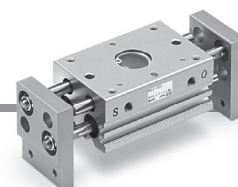
Parallel Type Air Gripper: Wide Type

25A-MHL2 Series

Ø 10, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40

RoHS

How to Order



25A-MHL2-20D□Z-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

Number of auto switches

—	2
S	1
n	n

Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 261 for applicable auto switch models.

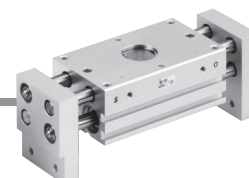
Opening/Closing stroke [mm]

Symbol	Ø 10	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40
—	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

How to Order



25A-MHL2-20D□-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

Number of auto switches

—	2
S	1
n	n

Auto switch

— Without auto switch (Built-in magnet)

* Refer to page 261 for applicable auto switch models.

Opening/Closing stroke [mm]

Symbol	Ø 10	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40
—	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200

* The 25A- series specifications and dimensions are the same as those of the standard model.

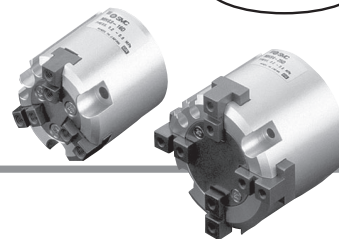
For details, refer to the Web Catalogue.

Parallel Type Air Gripper

25A-MHS□ Series

Ø 16, Ø 20, Ø 25, Ø 32

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
---	---------------

Number of auto switches

—	2
S	1

Auto switch

—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 261 for applicable auto switch models.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Directional Control Valves
Air Cylinders
Related Products
Rotary Actuators
Air Grippers
Vacuum Equipment
Air Preparation Equipment
Clean Air Filters
Modular F.R.L./Pressure Control Equipment
Flow Control Equipment/Fittings
Detection Switches
Fluid Control Equipment
Process Gas Equipment
Electric Actuators
Auto Switches

Parallel Type Air Gripper 3-Finger Type with Dust Cover

25A-MHSJ3 Series

Ø 16, Ø 20, Ø 25, Ø 32

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

Number of auto switches

–	2
S	1

Auto switch

– Without auto switch (Built-in magnet)

* Refer to page 261 for applicable auto switch models.

Dust cover type

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

Action

D Double acting

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

180° Angular Type Air Gripper Cam Type

25A-MHY2 Series

Ø 10, Ø 16, Ø 20, Ø 25

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

Number of auto switches

—	2
S	1
n	n

Auto switch

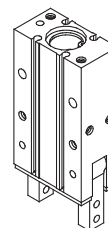
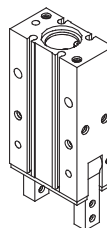
— Without auto switch (Built-in magnet)

* Refer to page 261 for applicable auto switch models.

Finger option

— : Standard tapped mounting

2: Through-holes in opening/closing direction



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

180° Angular Type Air Gripper Rack & Pinion Type

RoHS

25A-MHW2 Series

Ø 20, Ø 25, Ø 32, Ø 40, Ø 50

How to Order



25A-MHW2-20 **D** **1** **-M9BW**

Series compatible with
secondary batteries

Number of fingers

2	2 fingers
---	-----------

Bore size

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

Port thread type

Symbol	Type	Size
—	M thread	Ø 20, Ø 25
	Rc	Ø 32
TN	NPT	Ø 40
TF	G	Ø 50

Action

D	Double acting
---	---------------

Number of auto switches

—	2
S	1
N	n

Auto switch

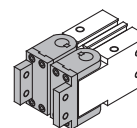
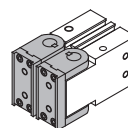
—	Without auto switch (Built-in magnet)
---	---------------------------------------

* Refer to page 261 for applicable auto switch models.

Finger option

—: Flat type fingers
(Standard)

1: Right angle type fingers
tapped mounting



- * Change of material and surface treatment are not available for the bearing or the parallel key.
- * As metal-to-metal collision occurs when the fingers are fully closed, dust particles may be generated.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Ejector System Vacuum Unit



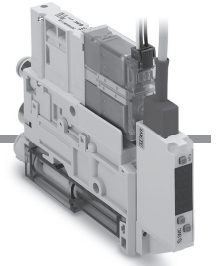
25A-ZK2□A Series

Single Unit Ejector + With Valve + Without Energy Saving Function

How to Order

25A-ZK2 **A** **12** **K** **5** **A** **L** **A** - **08** - **□**

1 2 3 4 5 6 7 8



1 Body/Exhaust type

Symbol	Body	Exhaust type
A	Single unit	Silencer exhaust*1
B		Port exhaust
G		High-noise reduction silencer exhaust

*1 With exhaust port when 2 is 12 or 15

4 Rated voltage (Supply valve/Release valve)

Symbol	Voltage
5	24 VDC
6	12 VDC

5 Pressure switch for vacuum/Pressure sensor

Symbol	Type	Pressure range [kPa]	Specifications		
			NPN	PNP	With unit selection function*3
			2 outputs		
A	Pressure switch for vacuum	0 to -101	●	—	●
B			●	—	None (SI unit only)
C			—	●	●
D			—	●	None (SI unit only)
E		-100 to 100	●	—	●
F			●	—	None (SI unit only)
H			—	●	●
J			—	●	None (SI unit only)
P	Pressure sensor	0 to -101	Analogue output 1 to 5 V		
T		-100 to 100			
N	Without pressure switch for vacuum/pressure sensor				

*3 The unit for the type without the unit selection function is fixed as kPa.

7 Vacuum (V) port

Symbol	Vacuum (V) port
06	Ø 6
08	Ø 8

2 Nominal nozzle size

Symbol	Nominal nozzle size
07	Ø 0.7
10	Ø 1.0
12	Ø 1.2
15	Ø 1.5

* The standard supply pressure of each nozzle diameter is the same as that of the corresponding standard product.
For details, refer to the Web Catalogue.

3 Combination of supply valve and release valve

Symbol	Supply valve		Release valve
	N.C.	Self-holding	N.C.
K	●	—	●
J	●	—	—
R	—	●*2	●

*2 Supply valve maintains vacuum by energization (20 ms or more). Stopping the vacuum turns on the release valve.

6 Connector (Supply valve/Release valve/Pressure switch for vacuum)

Symbol	For supply valve/ release valve: 300 mm (Connector assembly)*4	For pressure switch for vacuum: 2 m (Lead wire with connector)	Pressure sensor assembly: 3 m (With lead wire)	Note
L	●	●	—	Cannot be selected when 5 is N
L1	None	●	—	
L2	●	None	—	Cannot be selected when 5 is P or T
L3	None	None	—	

*4 For the connector length other than 300 mm, select L1 or L3, and order the connector assembly on page 178 separately.

8 Option*5 (For details on the Function/Application, refer to page 179.)

Symbol	Type	Note
—	Without option	—
B	Mounting bracket for single unit (nuts and bolts are included) 	—
D	With individual release pressure supply (PD) port (M3)*6 	Cannot be selected when 3 is J
E	Vacuum break flow adjusting needle 	Cannot be selected when 3 is J Can be selected only for the combination of J and K
J		
K		
W	With exhaust interference prevention valve 	When J is selected for 8, install the release valve or vacuum breaker in the middle of the vacuum piping.

*5 When more than one option is selected, list the option symbols in alphabetical order. (Example -BJ)

*6 Use a One-touch fitting or barb fitting for piping. (O.D.: Within Ø 6.2)

* The 25A- series specifications and dimensions are the same as those of the standard model.

The manifold type is available as a special order.

For details, refer to the Web Catalogue.

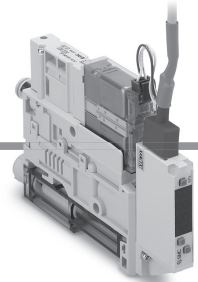
25A-ZK2□A Series

Single Unit Ejector + With Valve + With Energy Saving Function

How to Order

25A-ZK2 **A** **12** **K** **5** **K** **W** **A** - **08** - **□**

1 2 3 4 5 6 7 8



1 Body/Exhaust type

Symbol	Body	Exhaust type
A	Single unit	Silencer exhaust*1
B		Port exhaust
G		High-noise reduction silencer exhaust

*1 With exhaust port when 2 is 12 or 15

2 Nominal nozzle size

Symbol	Nominal nozzle size
07	Ø 0.7
10	Ø 1.0
12	Ø 1.2
15	Ø 1.5

* The standard supply pressure of each nozzle diameter is the same as that of the corresponding standard product.
For details, refer to the Web Catalogue.

3 Combination of supply valve and release valve

Symbol	Supply valve	Release valve
K	N.C.	N.C.

4 Rated voltage (Supply valve/Release valve)

Symbol	Voltage
5	24 VDC
6	12 VDC

5 Pressure switch for vacuum with energy saving function

Symbol	Pressure range [kPa]	Specifications		
		NPN	PNP	With unit selection function*2
K	-100 to 100	●	—	●
Q		●	—	None (SI unit only)
R		—	●	●
S		—	●	None (SI unit only)

*2 The unit for the type without the unit selection function is fixed as kPa.

6 Connector

Symbol	For pressure switch for vacuum with energy saving function: 2 m (Lead wire with connector)
W	●
L3	None

7 Vacuum (V) port

Symbol	Vacuum (V) port
06	Ø 6
08	Ø 8

8 Option*3 (For details on the Function/Application, refer to page 179.)

Symbol	Type	Note
—	Without option	—
B	Mounting bracket for single unit (nuts and bolts are included)	—
D	With individual release pressure supply (PD) port (M3)*4	—
E	Screwdriver operation type long lock nut	Can be selected only for the combination of J and K
J	Round lock nut	
K	Screwdriver operation type	

*3 When more than one option is selected, list the option symbols in alphabetical order. (Example -BJ)

*4 Use a One-touch fitting or barb fitting for piping. (O.D.: Within Ø 6.2)

The manifold type is available as a special order.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

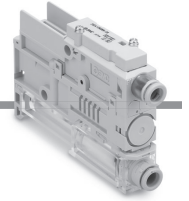
Ejector System Vacuum Unit



25A-ZK2□A Series

Single Unit Ejector + Without Valve + Without Energy Saving Function

How to Order



25A-ZK2 **A** **12** **N** **0** **N** **N** A - **08** - □

1 2 3 4 5 6

1 Body/Exhaust type

Symbol	Body	Exhaust type
A	Single unit	Silencer exhaust*1
B		Port exhaust
G		High-noise reduction silencer exhaust

*1 With exhaust port when 2 is 12 or 15

2 Nominal nozzle size

Symbol	Nominal nozzle size
07	Ø 0.7
10	Ø 1.0
12	Ø 1.2
15	Ø 1.5

* The standard supply pressure of each nozzle diameter is the same as that of the corresponding standard product.
For details, refer to the Web Catalogue.

4 Connector

Symbol	For pressure switch for vacuum: 2 m (Lead wire with connector)	Pressure sensor assembly: 3 m (With lead wire)	Note
Y	●		Cannot be selected when 3 is N
Y1	None		Cannot be selected when 3 is P, T, or N
N	None		When "N" is selected for 3

3 Pressure switch for vacuum/Pressure sensor

Symbol	Type	Pressure range [kPa]	Specifications		
			NPN	PNP	With unit selection function*2
			2 outputs		
A	Pressure switch for vacuum	0 to -101	●	—	●
B			●	—	None (SI unit only)
C			—	●	●
D			—	●	None (SI unit only)
E		-100 to 100	●	—	●
F			●	—	None (SI unit only)
H			—	●	●
J			—	●	None (SI unit only)
P	Pressure sensor	0 to -101	Analogue output 1 to 5 V		
T		-100 to 100			
N	Without pressure switch for vacuum/pressure sensor				

*2 The unit for the type without the unit selection function is fixed as kPa.

5 Vacuum (V) port

Symbol	Vacuum (V) port
06	Ø 6
08	Ø 8

6 Option*3 (For details on the Function/Application, refer to page 179.)

Symbol	Type	Note
—	Without option	—
B	Mounting bracket for single unit (nuts and bolts are included)	—
W	With exhaust interference prevention valve	Install the release valve or vacuum breaker in the middle of the vacuum piping.

*3 When more than one option is selected, list the option symbols in alphabetical order. (Example -BW)

The manifold type is available as a special order.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Replacement Parts for Single Unit / How to Order

Valve assembly

25A-ZK2 - VA **A** **K** **5** **L** A - A

① ② ③ ④

① Applicable system

A	Ejector system
----------	----------------

② Valve type

K	Supply valve: N.C., Release valve: N.C.
R	Supply valve: Self-holding release valve linked, Release valve: N.C.
J	Supply valve: N.C., Release valve: None

③ Rated voltage

5	24 VDC
6	12 VDC

④ Wiring

L	Individual wiring: With connector assembly (Lead wire length: 300 mm)
LO	Individual wiring: Without connector assembly

Select the 25A-ZK2VAAK□LOA-A for a switch with energy saving function.

Connector assembly

ZK2 - LV **W** □ - A

Applicable valve type

W	Valve type K/R
S	Valve type J

Lead wire length

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

Sound absorbing material (10 pcs. per set)

ZK2 - SE1 - **1** - A

Sound absorbing material hole diameter

1	300 μm
----------	--------

Vacuum port adapter assembly (Purchasing order is available in units of 1 piece.)

ZK2 - VA1S **8** - A

One-touch fitting size

6	Ø 6 One-touch fitting	Metric size
8	Ø 8 One-touch fitting	

Filter element (10 pcs. per set)

ZK2 - FE1 - **3** - A

Nominal filtration rating

3	30 μm
----------	-------

Body gasket*1 (10 pcs. per set)

ZK2 - BG5 - **1** - A

Applicable type

1	One check valve type (All specifications other than vacuum switch with energy saving function and exhaust interference prevention valve)
2	Two check valve type (Vacuum switch with energy saving function and exhaust interference prevention valve)

*1 When ZK2-BG5-2-A is mounted, the workpiece cannot be removed until vacuum is released.

Filter case*1

ZK2 - FC □ - A

Port for the pressure switch or sensor

Symbol	Port for the pressure switch or sensor	Filter case colour
P	With port (type with pressure switch or sensor)	Smoke
T	Without port (type without pressure switch or sensor)	Clear

*1 Vacuum port adapter assembly is not included.

Pressure switch for vacuum assembly (With 2 mounting screws)

25A-ZK2 - ZS **E** **A** **M** **G** - A

① ② ③ ④

① Rated pressure range and function

E	0 to -101 kPa	Pressure switch for vacuum	Open collector 2 outputs
F	-100 to 100 kPa		
V	-100 to 100 kPa	Pressure switch for vacuum with energy saving function	Open collector 1 output

② Output

A	NPN
B	PNP

③ Unit

—	Unit selection function
M	SI unit only*1

*1 Fixed unit: kPa

④ Lead wire with connector

—	None
G	With lead wire
	When ① is E or F...For pressure switch for vacuum, Lead wire with connector (Length 2 m)
	When ① is V...For pressure switch for vacuum with energy saving function, Lead wire with connector (Length 2 m)

Lead wire with connector

(When individual lead wire is necessary, order with the part number below.)

- Lead wire with connector for pressure switch for vacuum
ZS - 39 - 5G
- Lead wire with connector for pressure switch for vacuum with energy saving function

ZK2 - LW **A** **20** - A

Output

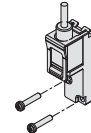
A	NPN open collector
B	PNP open collector

Pressure sensor assembly (With 2 mounting screws)

25A-ZK2 - PS **1** - A

Rated pressure range

1	0 to -101 kPa, Output: 1 to 5 V, Accuracy: ± 2 % F.S.
3	-100 to 100 kPa, Output: 1 to 5 V, Accuracy: ± 2 % F.S.



High-noise reduction silencer case assembly

ZK2 - SC3 - **4** - A

Applicable nozzle size

4	For nozzle size 07, 10
6	For nozzle size 12, 15

Release lever (10 pcs. per set)

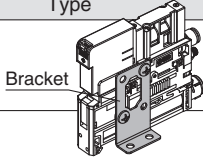
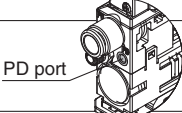
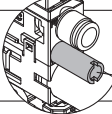

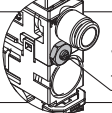
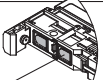
ZK2 - RL1 - A

Lock nut (10 pcs. per set)

25A-ZK2 - LN1 - A

25A-ZK2□A Series

Optional Specifications/Functions/Applications

Symbol	Type	Function/Application
B	Mounting bracket for single unit (nuts and bolts are included)  Bracket	· Use when a single unit is mounted to the floor in an upright position is requested. If only ordering the bracket, the product number is as follows: 25A-ZK2-BK1-A (includes nuts and bolts).
D	With individual release pressure supply (PD) port (M3)  PD port	· Use when supply pressure for vacuum release is individually requested.
E	Screwdriver operation type long lock nut  Screwdriver operation type long lock nut	· Used when the needle adjustment operation is difficult
J	Vacuum break flow adjusting needle Round lock nut  Lock nut	· Thicker than standard hexagon type. More suitable for hand tightening. · Round lock nut improves operability when the port exhaust type is used.
K	Screwdriver operation type  Vacuum break flow adjusting needle	· Slotted type improves fine adjustment performance when the port exhaust type is used.
W	With exhaust interference prevention valve  Exhaust interference prevention valve	· When ejectors are operated individually, exhausted air may flow backward from the V port of ejectors that are turned off. Exhaust interference prevention valve prevents backflow.

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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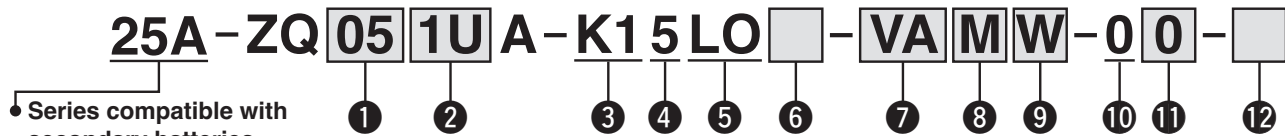
Ejector System Compact Vacuum Unit With Energy Saving Function



25A-ZQ□A Series

Single Unit Part Number

How to Order



• Series compatible with secondary batteries

1 Nominal nozzle size

05	0.5
07	0.7
10	1.0

2 Body type

1U	For Single unit
3M	For Manifold

3 Solenoid valve combination

K1	Supply valve (N.C.), Release valve (N.C.)
----	---

4 Solenoid valve rated voltage

5	24 VDC
---	--------

5 Electrical entry

LO	L plug connector (Without connector) With light/surge voltage suppressor
----	---

6 Manual override

—	Non-locking push type
B	Locking slotted type

7 Vacuum pressure switch (With suction filter^{*1})

Symbol	Pressure range [kPa]	Output
VA	-100 to 100	NPN 1 output + Energy saving function
VB		PNP 1 output + Energy saving function

^{*1} The filter used in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please consider using in combination with an air suction filter of the ZFC series, etc.

8 Unit

—	With unit switching function
M	SI unit only (kPa)

9 Lead wire

—	Without lead wire with connector
W	Lead wire for switch with energy saving function (Length: 2 m) (Included)

10 Fitting (V port)

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

11 Fitting (P port)

Symbol	Applicable tubing O.D.	Specification
—	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

12 Option

	Bracket for single unit	
	Single unit	Manifold
—	With	Without
N	Without	Not available

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

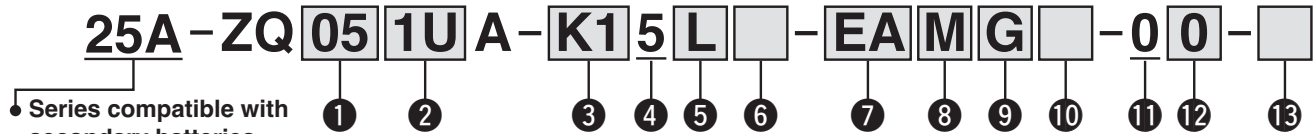
Ejector System Compact Vacuum Unit Without Energy Saving Function



25A-ZQ□A Series

Single Unit Part Number

How to Order



Series compatible with secondary batteries

1 Nominal nozzle size

05	0.5
07	0.7
10	1.0

2 Body type

1U	For Single unit
3M	For Manifold

3 Solenoid valve combination

K1	Supply valve (N.C.), Release valve (N.C.)
K2	Supply valve (N.O.), Release valve (N.C.)
J1	Supply valve (N.C.)
J2	Supply valve (N.O.)
Q1*1	Supply valve (Latching), Release valve (N.C.)
Q2*1	Supply valve (Latching)

*1 Latching (+ common)

4 Solenoid valve rated voltage

5	24 VDC
---	--------

5 Electrical entry

L	L plug connector (Lead wire length: 0.3 m) With light/surge voltage suppressor
LO	L plug connector (Without connector) With light/surge voltage suppressor

6 Manual override

—	Non-locking push type
—	Latching: Push-locking slotted type
B*2	Locking slotted type

*2 When "Q1" is selected in 3, the locking slotted type is only available in the release valve.
This option cannot be chosen when "Q2" is selected in 3.

7 Vacuum pressure switch (With suction filter*3)

Symbol	Pressure range [kPa]	Output
EA	0 to -100	NPN 2 outputs
EB		PNP 2 outputs
EC		NPN 1 output + Analogue voltage
EE		PNP 1 output + Analogue voltage
FA	-100 to 100	NPN 2 outputs
FB		PNP 2 outputs
FC		NPN 1 output + Analogue voltage
FE		PNP 1 output + Analogue voltage
F*4	Suction filter only	

*3 The filter used in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please consider using in combination with an air suction filter of the ZFC series, etc.
*4 It is not necessary to select the items for 8 and 9.

8 Unit

—	With unit switching function
M	SI unit only (kPa)
P	With unit switching function (Initial value: psi)

9 Lead wire

—	Without lead wire with connector
G	Lead wire with connector (Length: 2 m) (Included)

10 Check valve*6

—	None
K*7	With check valve

*6 The check valve has a function to prevent the exhaust air from the exhaust unit overflowing to the vacuum port side when a manifold is used, but it cannot prevent overflow of the exhaust air completely. 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.

*7 Cannot be selected when 2 is "1U", or 3 is "J1", "J2", or "Q2"

Warning

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

11 Fitting (V port)

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

12 Fitting (P port)

Symbol	Applicable tubing O.D.	Specification
—	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

13 Option

For Single Unit (2: 1U)

Symbol	Bracket assembly	Converter assembly for solenoid valve*8
—	○	—
N	—	—
C	—	○
D	○	○

For Manifold (2: 3M)

Symbol	Release pressure supply (PD) port*9	Converter assembly for solenoid valve*8
—	—	—
S	○	—
C	—	○
E	○	○

*8 A converter assembly for attaching the VQ100 lead wire assembly with a connector to the ZQ-A is included. Refer to the "Converter assembly for solenoid valve" in the **Web Catalogue**.

"Q2" cannot be selected in 3. Select "LO" in 5.

*9 Select "C" for 4 for the manifold part number on page 180-3. "J1", "J2", or "Q2" cannot be selected in 3.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order

25A-ZZQ1 08 A-B S C-A

Series compatible with secondary batteries

1 Stations*1

01	1 station
02	2 stations
⋮	⋮
08	8 stations

*1 Number of stations varies according to nominal nozzle size during simultaneous operation. (Table 1)

Table 1. Max. Number of Stations that Can Operate Simultaneously*2

Nominal nozzle size	Max. number of stations that can operate simultaneously
0.5	8 stations
0.7	6 stations
1.0	4 stations

*2 For any of the nominal nozzle sizes, the max. number of stations that can be mounted is 8. However, please ensure that the max. number of stations that are operated simultaneously comply with the values above.

2 Air pressure supply (P) port location

B	Both sides
---	------------

4 Release pressure supply (PD) port

B	None (Release pressure: Commonly supplied from the P port)
C*3	Provided (Release pressure: Supplied from the PD port)

*3 If the individual unit does not have the energy saving function, select "S" or "E" in ⑤ for the single unit part number on page 180-2.

3 Exhaust

S	Silencer exhaust (Both sides)
P	Port exhaust (Both sides)

5 Shipping configuration

—	Assembled as a vacuum unit
A*4	Manifold unit only

*4 A set of end blocks and the clamp rod assembly is included in this manifold unit. (Used for the maintenance of the end block)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Manifold Order Example

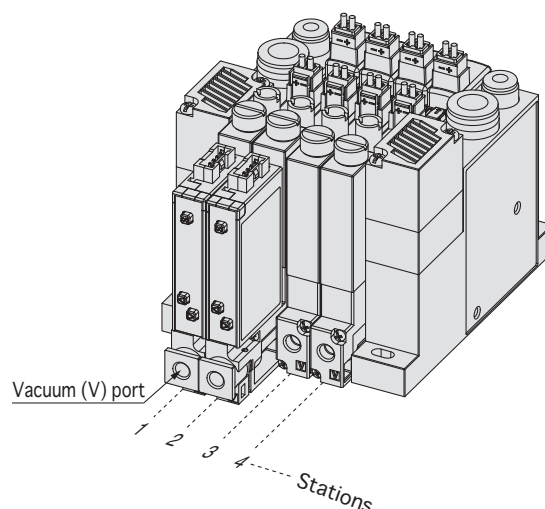
25A-ZZQ104A-BSB..... 1 pc.

* 25A-ZQ053MA-K15L-EAG-0... 2 pcs. → Stations 1 and 2

* 25A-ZQ103MA-K15L-F-0 2 pcs. → Stations 3 and 4

* When the manifold is viewed from the vacuum (V) port, the first station starts from the left.

25A-ZQ053MA-K15L-EAG-0 (2 pcs.) and 25A-ZQ103MA-K15L-F-0 (2 pcs.) are arranged from the first station.



⚠ Caution when ordering manifold

- The asterisk (*) denotes the symbol for the assembly.
- Prefix it to the single unit part number.
- If "*" is not entered, the manifold and single unit will be shipped without being assembled.
- When the manifold and the units are not assembled, please assemble them by referring to "How to increase/decrease manifold stations" in the **Web Catalogue**.
- There is nothing else to arrange additionally.

25A-ZQ□A Series



Single Unit Part Number

How to Order

25A-ZQ000 **U** A-**K1** **5** **L** **□** - **E** **A** **M** **G** - **0** **0** - **□**

• Series compatible with secondary batteries

1 Body type

U	For Single unit
M	For Manifold

2 Solenoid valve combination

K1	Supply valve (N.C.), Release valve (N.C.)
K2	Supply valve (N.O.), Release valve (N.C.)
J1 *1	Supply valve (N.C.)
J2 *1	Supply valve (N.O.)
Q1 *2	Supply valve (Latching), Release valve (N.C.)
Q2 *1 *2	Supply valve (Latching)

*1 The air in the adsorption section of this product is not released to the atmosphere at the vacuum suspension state. Devise the circuit for the vacuum release additionally.

*2 Latching (+ common)

3 Solenoid valve rated voltage

5	24 VDC
----------	--------

4 Electrical entry

L	L plug connector (Lead wire length: 0.3 m) With light/surge voltage suppressor
LO	L plug connector (Without connector) With light/surge voltage suppressor

5 Manual override

—	Non-locking push type
	Latching: Push-locking slotted type
B *3	Locking slotted type

*3 When "Q 1" is selected in ②, the locking slotted type is only available in the release valve.

This option cannot be chosen when "Q2" is selected in ②.

6 Vacuum pressure switch (With suction filter)*4

Symbol	Pressure range [kPa]	Output
EA	0 to -100	NPN 2 outputs
EB		PNP 2 outputs
EC		NPN 1 output + Analogue voltage
EE		PNP 1 output + Analogue voltage
FA	-100 to 100	NPN 2 outputs
FB		PNP 2 outputs
FC		NPN 1 output + Analogue voltage
FE		PNP 1 output + Analogue voltage
F *5	Suction filter only	

*4 The filter used in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please consider using in combination with an air suction filter of the ZFC series, etc.

*5 It is not necessary to select the items for ⑦ and ⑨.

7 Unit

—	With unit switching function
M	SI unit only (kPa)
P	With unit switching function (Initial value: psi)

8 Lead wire

—	Without lead wire with connector
G	Lead wire with connector (Length: 2 m) (Included)

9 Fitting (V port)

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

10 Fitting (PS/PV port)

Symbol	Applicable tubing O.D.	Specification
—	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

11 Option

For Single Unit (①: U)

Symbol	Bracket assembly	Converter assembly for solenoid valve*7
—	○	—
N	—	—
C	—	○
D	○	○

For Manifold (①: M)

Symbol	Release pressure supply (PD) port*8	Converter assembly for solenoid valve*7
—	—	—
S	○	—
C	—	○
E	○	○

*7 A converter assembly for attaching the VQ100 lead wire assembly with a connector to the ZQ-A is included. Refer to the "Converter Assembly for Solenoid Valve" in the **Web Catalogue**.

"Q2" cannot be selected in ②. Select "LO" in ④.

*8 Select "C" for ③ for the manifold part number on page 180-5. "J1", "J2", or "Q2" cannot be selected in ②.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

25A-ZQ□A Series



Manifold Part Number

How to Order

25A-ZZQ1 08 A-L O C-A

Series compatible with secondary batteries

1

2

3

4

1 Stations

01	1 station
02	2 stations
⋮	⋮
08	8 stations

2 Vacuum pressure supply (PV) port location*1

L	Left side
R	Right side

*1 The position of the vacuum pressure supply (PV) port when the vacuum (V) port is facing front. The pilot pressure supply (PS) port is on the opposite side.
Refer to the "Table 1" for details.

3 Release pressure supply (PD) port

B	None (Release pressure: Commonly supplied from the PS port)
C*2	Provided (Release pressure: Supplied from the PD port)

*2 Select "S" or "E" for 1 for the single unit part number on page 180-4.

4 Shipping configuration

—	Assembled as a vacuum unit
A*3	Manifold unit only

*3 A set of end blocks and the clamp rod assembly is included in this manifold unit. (Used for the maintenance of the end block)

Table 1. Location of Each Port

2 PV port location	3 PD port	Left side with the V port facing the front			Right side with the V port facing the front		
		PS port	PV port	PD port	PS port	PV port	PD port
L	B	—	●	—	●	—	—
	C	—	●	●	●	—	●
R	B	●	—	—	—	●	—
	C	●	—	●	—	●	●

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Manifold Order Example

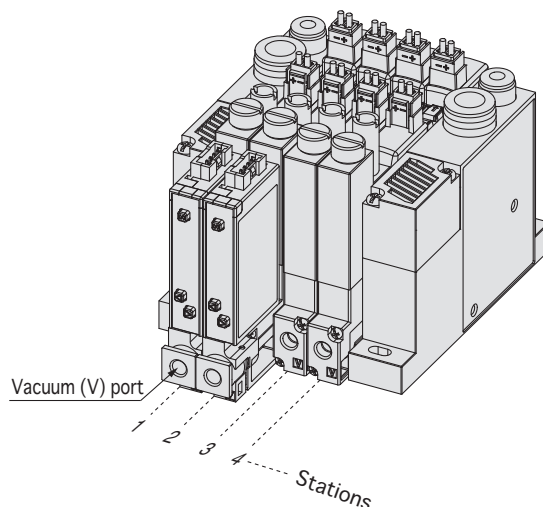
25A-ZZQ104A-ROB 1 pc.

* 25A-ZQ000MA-K15L-EAG-0... 2 pcs. → Stations 1 and 2

* 25A-ZQ000MA-K15L-F-0 2 pcs. → Stations 3 and 4

* When the manifold is viewed from the vacuum (V) port, the first station starts from the left.

25A-ZQ000MA-K15L-EAG-0 (2 pcs.) and 25A-ZQ000MA-K15L-F-0 (2 pcs.) are arranged from the first station.

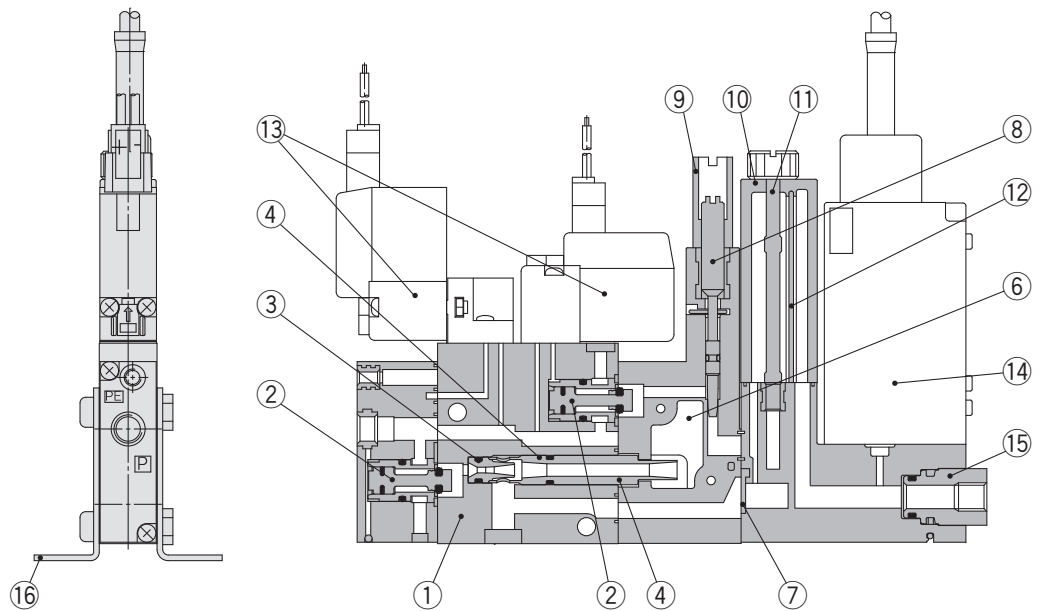


⚠ Caution when ordering manifold

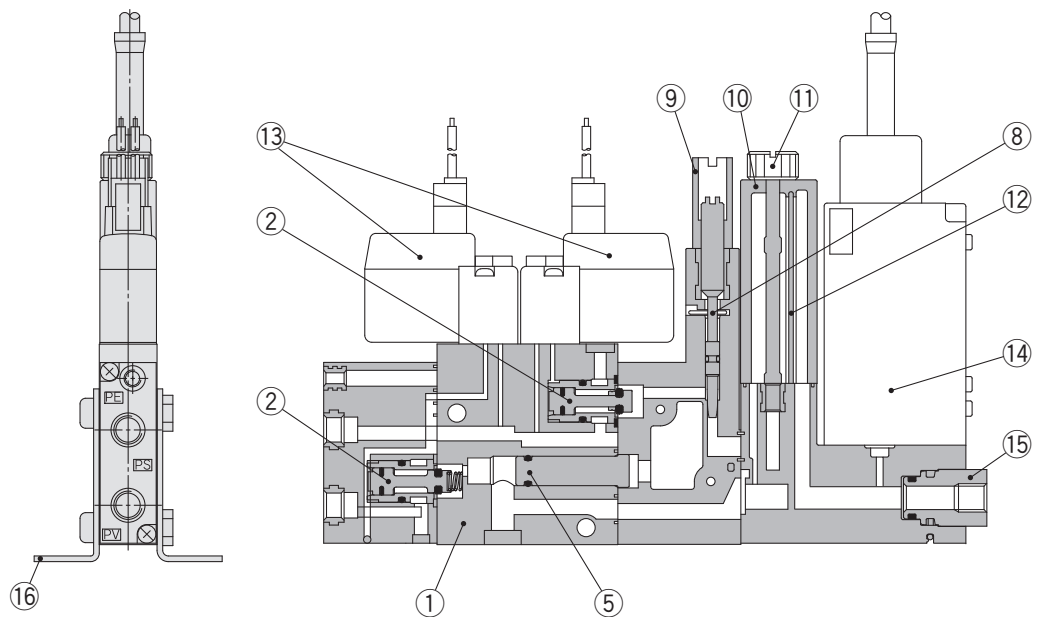
- The asterisk (*) denotes the symbol for the assembly.
- Prefix it to the single unit part number.
- If "*" is not entered, the manifold and single unit will be shipped without being assembled.
- When the manifold and the units are not assembled, please assemble them by referring to "How to increase/decrease manifold stations" in the **Web Catalogue**.
- There is nothing else to arrange additionally.

Construction

Vacuum ejector (N.O. specification)



Vacuum pump system (N.C. specification)



Component Parts

No.	Description	Material	Note
1	Body	PBT	Aluminium alloy is also used.
2	Supply valve / Release valve assembly	POM/Aluminium alloy/Stainless steel	
3	Nozzle	PBT	
4	Diffuser	PBT	
5	Bushing	Aluminium alloy	
6	Sound absorbing material	Non-woven fabric (PET)	Refer to [3] on page 180-8 for how to order. (When replacing the sound absorbing material, order a silencer plate assembly.) Refer to [6] on page 180-8 for how to order.
7	Check valve	HNBR	
8	Vacuum release flow adjusting needle	Stainless steel	
9	Lock nut	Aluminium alloy (Anodized)	
10	Filter case	PC (Refer to the precautions in the Web Catalog .)	Refer to [4] on page 180-8 for how to order.
11	Tension bolt	Stainless steel	
12	Filter element	PVA sponge	Refer to [5] on page 180-8 for how to order.
13	Pilot supply valve / Pilot valve (for release)	—	Refer to [1] on page 180-7 for how to order.
14	Vacuum pressure switch	—	Refer to [2] on page 180-7 for how to order.
15	Vacuum (V) port M5 bushing	Aluminium alloy (Anodized)	
16	Bracket assembly	Steel (Electroless nickel plating), Stainless steel	Refer to [7] on page 180-8 for how to order.
—	Seal material (O-ring, etc.)	NBR/HNBR	
—	Screws for assembly	Steel (Electroless nickel plating), Stainless steel	

25A-ZQ□A Series

How to Order Replacement Parts for Single Unit

1 Solenoid Valve

(Recommended torque for replacement: 0.054 to 0.08 N·m)

N.C. Pilot Supply Valves,
Pilot Valves (for Release)

25A-ZQ1-V114-5 **L** **U** □ - A

① ②

1 Electrical entry

L	LO
With lead wire (300 mm)	Without connector

2 Manual override

—	B
Non-locking push type	Locking slotted type

N.O. Pilot Supply
Valves

25A-ZQ1-V124-5 **M** **U** □ - A

① ②

1 Electrical entry

M	MO
With lead wire (300 mm)	Without connector

2 Manual override

—	B
Non-locking push type	Locking slotted type

Latching Pilot
Supply Valves

25A-ZQ1-VQ110L-5 **L** - A

①

1 Electrical entry

L	LO
With lead wire (300 mm)	Without connector

Lead Wire with Connector Assembly for Solenoid Valve

For N.C./N.O. Pilot Valves,
Pilot Valves (for Release)

SY100-30-4 A - **6** ① Lead wire length

For Latching
Pilot Valves

AXT661-13A - **6**

① Lead wire length
— 300 mm
6 600 mm
10 1000 mm
15 1500 mm
20 2000 mm
30 3000 mm
50 5000 mm

Connector and Socket for Solenoid Valve

For N.C./N.O. Pilot Valves,
Pilot Valves (for Release)

SY100-30-A * With connector and
sockets only
(Number of sockets: 2)

For Latching
Pilot Valves

AXT661-12A
(Number of sockets: 3)

2 Vacuum Pressure Switch (With Suction Filter)

(Recommended torque for replacement: 0.11 to 0.13 N·m)

25A-ZQ-ZS **EA** **M** **G** □ - 0 - A

① ② ③ ④ ⑤

1 Vacuum pressure switch

Symbol	Pressure range [kPa]	Output
EA	0 to -100	NPN 2 outputs
EB		PNP 2 outputs
EC		NPN 1 output + Analogue voltage
EE		PNP 1 output + Analogue voltage
FA	-100 to 100	NPN 2 outputs
FB		PNP 2 outputs
FC		NPN 1 output + Analogue voltage
FE		PNP 1 output + Analogue voltage
VA *1		NPN 1 output + Energy saving control
VB *1		PNP 1 output + Energy saving control

*1 It is not possible to replace the vacuum pressure switch from the specification without energy saving function to the specification with energy saving function.

2 Unit

—	With unit switching function
M	SI unit only (kPa)
P *2	With unit switching function (Initial value: psi)

*2 Cannot be selected when ① is "VA" or "VB"

3 Lead wire

—	Without lead wire with connector
G	Lead wire with connector (Length: 2 m) (Included)
W	Lead wire for switch with energy saving function (Length: 2 m) (Included)

4 Check valve*4

—	None
K *5	With check valve

*4 The check valve has a function to prevent the exhaust air from the exhaust unit overflowing to the vacuum port side when a manifold is used, but it cannot prevent overflow of the exhaust air completely. 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.

*5 When "VA" or "VB" is specified for ①, the check valve is already built in.

⚠ Warning

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

5 Fitting (V port)

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

Lead Wire with Connector Assembly for Vacuum Pressure Switch

(When an individual lead wire is necessary, order with the part numbers below.)

• Lead wire with connector for vacuum pressure switch

ZS-39-5G

• Lead wire with connector for pressure switch with energy saving function

ZQ1-LW6-N-A

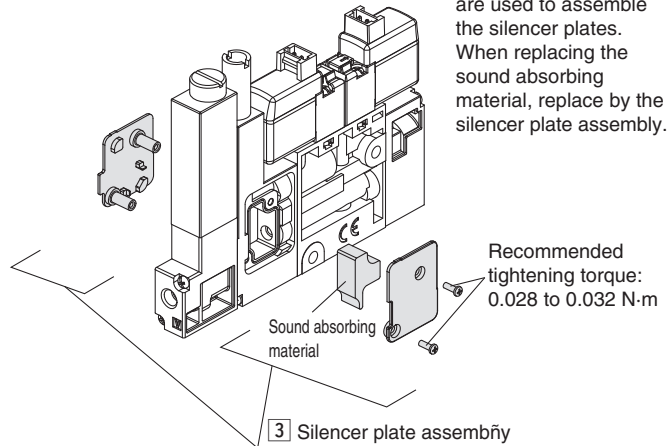
① Output

N	NPN open collector
P	PNP open collector

How to Order Replacement Parts for Single Unit

3 Silencer Plate Assembly

25A – ZQ1 – PL11 – A



4 Filter Case Assembly * One filter element is included.

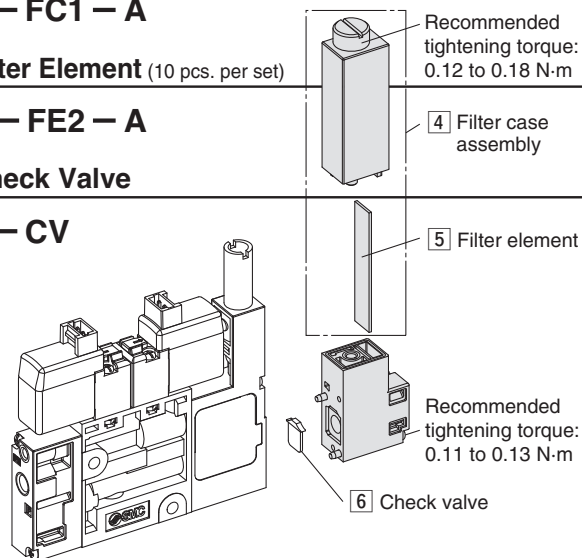
ZQ1 – FC1 – A

5 Filter Element (10 pcs. per set)

ZQ1 – FE2 – A

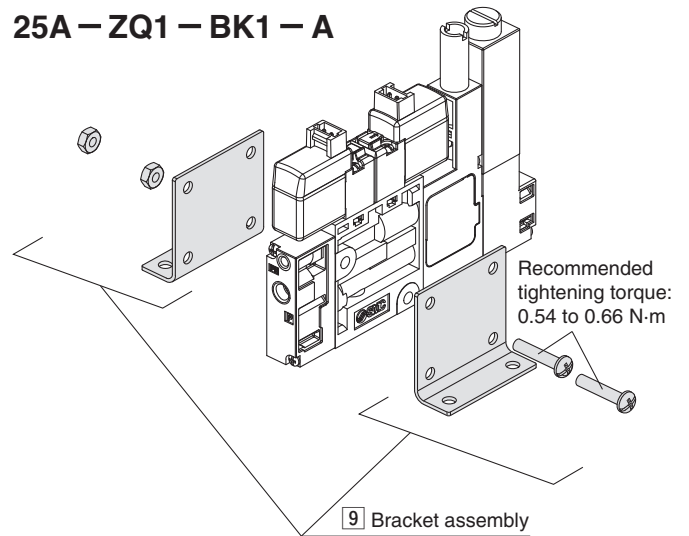
6 Check Valve

ZQ1 – CV



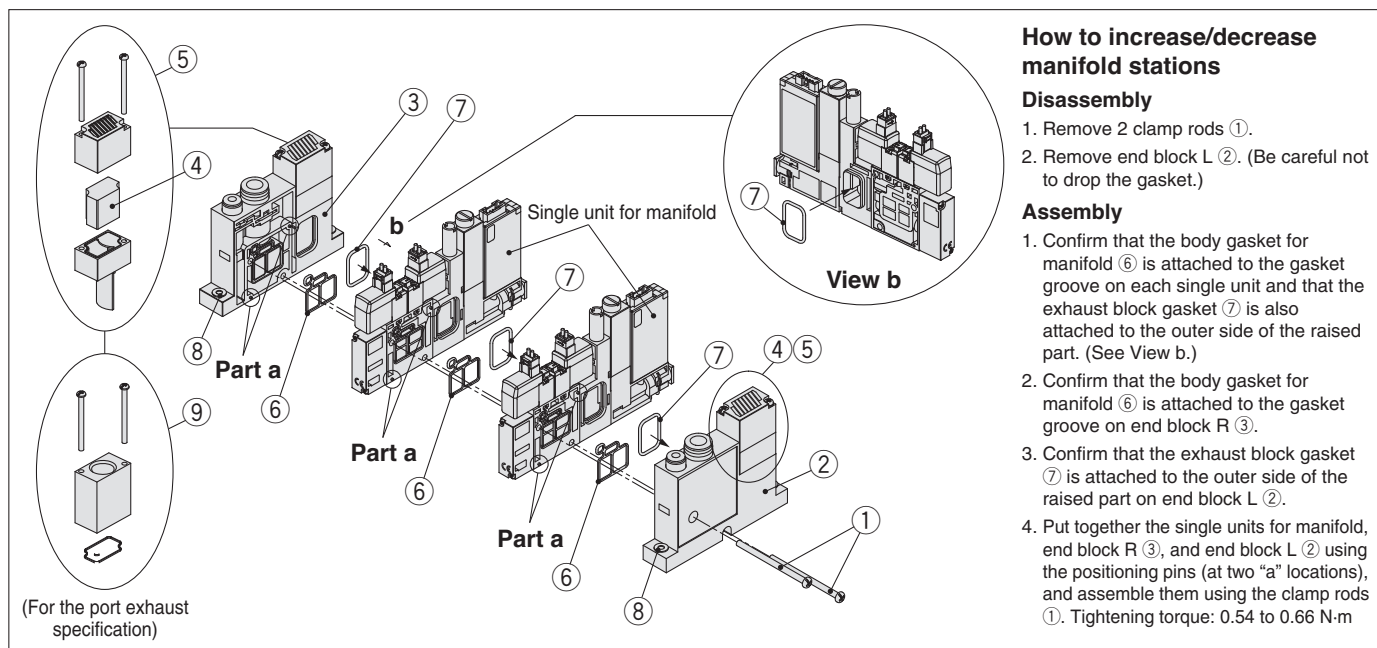
7 Bracket Assembly

25A – ZQ1 – BK1 – A



Compact Vacuum Unit/25A-ZQ□A Series

Manifold Exploded View



Component Parts

No.	Description	Material	Note
1	Clamp rod assembly	Steel (Electroless nickel plating)	Refer to [1] below for how to order.
2	End block L	PBT, POM, PET, Steel, Aluminium alloy, Stainless steel	Left side with the vacuum (V) port facing the front
3	End block R	PBT, POM, PET, Steel, Aluminium alloy, Stainless steel	Right side with the vacuum (V) port facing the front
4	Sound absorbing material (For Manifold)	Non-woven fabric (PET)	Refer to [2] below for how to order.
5	Silencer block assembly	PBT	Refer to [3] below for how to order.
6	Body gasket for manifold	NBR	Refer to [4] below for how to order.
7	Exhaust block gasket	NBR	Refer to [5] below for how to order.
8	Washer assembly	Stainless steel	Refer to [6] below for how to order.
9	Port block assembly	Aluminium alloy, Steel (Electroless nickel plating), NBR	Refer to [7] below for how to order.

How to Order Replacement Parts for Manifold

[1] Clamp Rod Assembly (2 pcs. per set)

25A – ZQ1 – SR1 – **04** – A

[1] Stations

01	For 1 station
02	For 2 stations
⋮	⋮
08	For 8 stations

[2] Sound Absorbing Material (For Manifold) (2 pcs. per set)

ZQ1 – SE2 – A

Recommended tightening torque: 0.25 to 0.31 N·m

[3] Silencer Block Assembly (2 pcs. per set)

25A – ZQ1 – SC1 – A

[2] Sound absorbing material (For Manifold)

[3] Silencer block assembly

[4] Body Gasket for Manifold (10 pcs. per set)

ZQ – 3 – 005 – 10AS

[5] Exhaust Block Gasket (10 pcs. per set)

ZQ – 3 – 009 – 10AS

[6] Washer Assembly (4 pcs. per set)

25A – ZQ1 – WS **3** – A

[1] Size

3	For M3 (Without release pressure supply port)
4	For M4 (With release pressure supply port)

[7] Port Block Assembly (2 pcs. per set)

25A – ZQ1 – EP2 – A

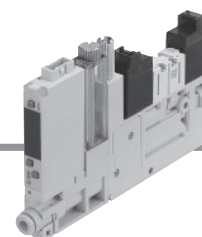
Recommended tightening torque: 0.25 to 0.31 N·m

Space Saving Vacuum Ejector

25A-ZQ Series

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	Ø 0.5
07	Ø 0.7
10	Ø 1.0

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 *1	Normally open	Normally closed
J1	Normally closed	None
J2 *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

*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).)

—	Standard (DC: 1 W)*2
Y	DC low wattage type (0.5 W)*2

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

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

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

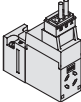
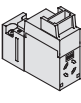

*3 CE/UKCA-compliant products are not available for "1," "2," "3" and "4."

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	—	—	—	—	—	●	●	
②	K1	Y	—	—	—	—	●	●	
③	K2	—	—	—	—	—	●	●	
④	J1	—	●	●	●	●	●	●	
⑤	J1	Y	—	—	—	—	●	●	
⑥	J2	—	—	—	—	—	●	●	
⑦	Q1	—	—	—	—	—	●	●	
⑧	Q2	—	●	●	●	●	●	●	
⑨	N1	—	—	—	—	—	●	●	
⑩	N2	—	—	—	—	—	●	●	

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

⑥ Electrical entry

L	L-type plug connector, with 0.3 m lead wire, with light/surge voltage suppressor	
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*4

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

*4 Latching type supply valve: Available in “—” only. In this case, the supply valve and release valve come with a push-locking type.

⑧ Vacuum pressure switch suction filter*5

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

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

⚠ Warning

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

⑪ Check valve*8

—	None
K	With check valve

*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.
—	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

⑨ Vacuum pressure switch unit specifications

—	With unit switching function
M	Fixed SI unit*6
P	With unit switching function (Initial value psi)

*6 Fixed unit: kPa

⑩ Vacuum pressure switch lead wire specifications

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

⑭ CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order

Manifold

25A – ZZQ1

07

–

B

S

C

Number of stations*1

01	1 station
02	2 stations
:	:
08	8 stations

*1 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
Ø 0.5	8 stations
Ø 0.7	6 stations
Ø 1.0	4 stations

Air pressure supply (P) port position

BBoth sides

Exhaust

SWith 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.)

* The 25A- series specifications and dimensions are the same as those of the standard model.



For details, refer to the Web Catalogue.



How to Order

Solenoid valve

Actuation

1	Normally closed
---	-----------------

25A-ZQ1-VQ1 1 0  **5 L** 

25A-ZQ1-VQ1 2 0  **5 L** 

Actuation

2	Normally open
---	---------------

Pilot valve

—	Standard (1 W)
---	----------------

Solenoid valve rated voltage

5	24 VDC
6	12 VDC

Pilot valve

—	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




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

Manual override^{*1}

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

^{*1} Latching type: Available in "—" only

Electrical entry^{*2}

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)	

^{*2} Mounting screws are attached.

Vacuum pressure switch

25A-ZQ1-ZS     **-A**

Vacuum pressure switch specifications

EA	0 to -101 kPa/NPN open collector 2 outputs, with suction filter
EB	0 to -101 kPa/PNP open collector 2 outputs, with suction filter
EC	0 to -101 kPa/NPN open collector 1 output + analogue voltage, with suction filter
EE	0 to -101 kPa/PNP open collector 1 output + analogue voltage, with suction filter
FA	100 to -100 kPa/NPN open collector 2 outputs, with suction filter
FB	100 to -100 kPa/PNP open collector 2 outputs, with suction filter
FC	100 to -100 kPa/NPN open collector 1 output + analogue voltage, with suction filter
FE	100 to -100 kPa/PNP open collector 1 output + analogue voltage, with suction filter

Vacuum pressure switch unit specifications

—	With unit switching function
M	Fixed SI unit ^{*1}
P	With unit switching function (Initial value psi)

^{*1} Fixed unit: kPa

Vacuum pressure switch lead wire specifications

—	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^{*3}

—	None
K	With check valve

^{*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.)

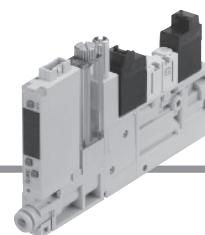
Lead wire with connector part no.	Note
ZS-39-5G	Lead wire length 2 m (With connector cover)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Space Saving Vacuum Pump System

25A-ZQ Series



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 *1	Normally open	Normally closed
J1	Normally closed	None
J2 *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.

*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).)

—	Standard (DC: 1 W)*2
Y	DC low wattage type (0.5 W)*2

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

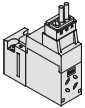


*3 CE/UKCA-compliant products are not available for "1," "2," "3" and "4."

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	—	—	—	—	—	●	●
②	K1	Y	—	—	—	—	●	●
③	K2	—	—	—	—	—	●	●
④	J1	—	●	●	●	●	●	●
⑤	J1	Y	—	—	—	—	●	●
⑥	J2	—	—	—	—	—	●	●
⑦	Q1	—	—	—	—	—	●	●
⑧	Q2	—	●	●	●	●	●	●
⑨	N1	—	—	—	—	—	●	●
⑩	N2	—	—	—	—	—	●	●

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

⑤ Electrical entry

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

⑥ Manual override*4

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

*4 Latching type supply valve: Available in “—” only. In this case, the supply valve and release valve come with a push-locking type.

⑦ Vacuum pressure switch suction filter*5

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

*5 The filter included in this product is of a 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.

⑩ Fitting (V port)*8

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

⑪ Fitting (PS / PV port)*8

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

⑫ CE/UKCA-compliant

—	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

⑧ Vacuum pressure switch unit specifications

—	With unit switching function
M	Fixed SI unit*6
P	With unit switching function (Initial value psi)

*6 Fixed unit: kPa

⑨ Vacuum pressure switch lead wire specifications

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

How to Order

Manifold

25A-ZZQ1

08

-

O

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)	—	●	—	●*1	—	—
	R (Right side)	●*1	—	—	—	●	—
C	L (Left side)	—	●	●	●	—	●
	R (Right side)	●	—	●	—	●	●

*1 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.)

* The 25A- series specifications and dimensions are the same as those of the standard model.



For details, refer to the **Web Catalogue**.



How to Order

Solenoid valve

Actuation

1	Normally closed
---	-----------------

25A-ZQ1-VQ1 1 0  **-5 L** 

25A-ZQ1-VQ1 2 0  **-5 L** 

Actuation

2	Normally open
---	---------------

Pilot valve

—	Standard (1 W)
---	----------------

Solenoid valve rated voltage

5	24 VDC
6	12 VDC

Pilot valve

—	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




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

Manual override*1

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

*1 Latching type: Available in "—" only

Electrical entry*2

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)	

*2 Mounting screws are attached.

Vacuum pressure switch

25A-ZQ1-ZS     **-**  **-A**

Vacuum pressure switch specifications

EA	0 to -101 kPa/NPN open collector 2 outputs, with suction filter
EB	0 to -101 kPa/PNP open collector 2 outputs, with suction filter
EC	0 to -101 kPa/NPN open collector 1 output + analogue voltage, with suction filter
EE	0 to -101 kPa/PNP open collector 1 output + analogue voltage, with suction filter
FA	100 to -100 kPa/NPN open collector 2 outputs, with suction filter
FB	100 to -100 kPa/PNP open collector 2 outputs, with suction filter
FC	100 to -100 kPa/NPN open collector 1 output + analogue voltage, with suction filter
FE	100 to -100 kPa/PNP open collector 1 output + analogue voltage, with suction filter

Vacuum pressure switch unit specifications

—	With unit switching function
M	Fixed SI unit*1
P	With unit switching function (Initial value psi)

*1 Fixed unit: kPa

Vacuum pressure switch lead wire specifications

—	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*3

—	None
K	With check valve

*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

- Cannot be used for vacuum retention.
- 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)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Vacuum Regulator

RoHS

25A-IRV10/20 Series



How to Order

Standard connections

25A-IRV 20 - [] C08 [] []

Series compatible with secondary batteries

Body size

10	Max. flow 140 l/min (ANR)
20	Max. flow 240 l/min (ANR)

Fittings

—	Straight
L	Elbow

Connection tubing O.D.

Symbol	Tubing O.D.	IRV10	IRV20
C06	Metric	●	●
C08		●	●
C10		—	●

Accessory ② [Supplied with product]

—	None*1
GN	Gauge nut assembly*2

*1 Two plug nuts are mounted on the gauge port. When the Rc1/8 port is required, please order the optional gauge nut assembly P601010-130 separately.

*2 One plug nut, one gauge nut (Rc1/8), and two clips are included. The pressure gauge and digital pressure switch are not included.

Accessory ① [Supplied with product]

—	None
B	With bracket

Single sided connections

25A-IRV 20 A - [] C08 [] []

Series compatible with secondary batteries

Body size

10	Max. flow 140 l/min (ANR)
20	Max. flow 240 l/min (ANR)

Single sided connections

A	Single sided connections
---	--------------------------

Fittings

—	Straight
L	Elbow

Connection tubing O.D.

Symbol	Tubing O.D.	IRV10A	IRV20A
C06	Metric	●	●
C08		●	●
C10		—	●

Accessory ② [Supplied with product]

—	None*1
GN	Gauge nut assembly*2

*1 Two plug nuts are mounted on the gauge port. When the Rc1/8 port is required, please order the optional gauge nut assembly P601010-130 separately.

*2 One gauge nut (Rc1/8) and one clip are included. The pressure gauge and digital pressure switch are not included.

Accessory ① [Supplied with product]

—	None
B	With bracket

* This product cannot be used in environments containing chemical agents such as hydrofluoric acid, etc.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Membrane Air Dryer

25A-IDG Series

Single Unit/Standard Dew Point -40 °C/-60 °C Specifications

RoHS



How to Order

25A - IDG 50 L A - 03 - P

Series compatible
with secondary
batteries

Size

30
50
60
75
100

Standard dew point temperature

Symbol	Standard dew point [°C]
L	-40
S	-60

Symbol	30	50	60	75	100
L	●	●	●	●	●
S	—	—	●	●	●

Piping materials

Piping to the outlet side with piping made of water-absorbent or hydrophilic material (nylon, etc.) may result in a rising dew point on the outlet side. Therefore, be sure to use either stainless steel or fluoropolymer piping and fittings.

Semi-standard

Symbol	Contents
—	None
R	Flow direction (Right → Left)

Fitting for purge air discharge

Symbol	Contents
P	With fitting for purge air discharge

Accessory

Symbol	Description
—	None
B	With bracket

* 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 does not come assembled.

Port size

Symbol	Bore	Size				
		30	50	60	75	100
02	Rc1/4	●	●	—	—	—
03	Rc3/8	●	●	●	●	●
04	Rc1/2	—	—	●	●	●

* Some parts have dimensions that are different from those of the standard model. Refer to page 191 for details. Other specifications are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Bracket Assembly (Accessory) Part Nos.

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

* The assembly consists of a bracket and 2 mounting screws.

Directional
Control Valves

Air Cylinders

Related
Products

Rotary
Actuators

Air Grippers

Vacuum
Equipment

Air Preparation
Equipment

Clean
Air Filters

Modular F.R./
Pressure Control
Equipment

Flow Control
Equipment/
Fittings

Detection
Switches

Fluid Control
Equipment

Process Gas
Equipment

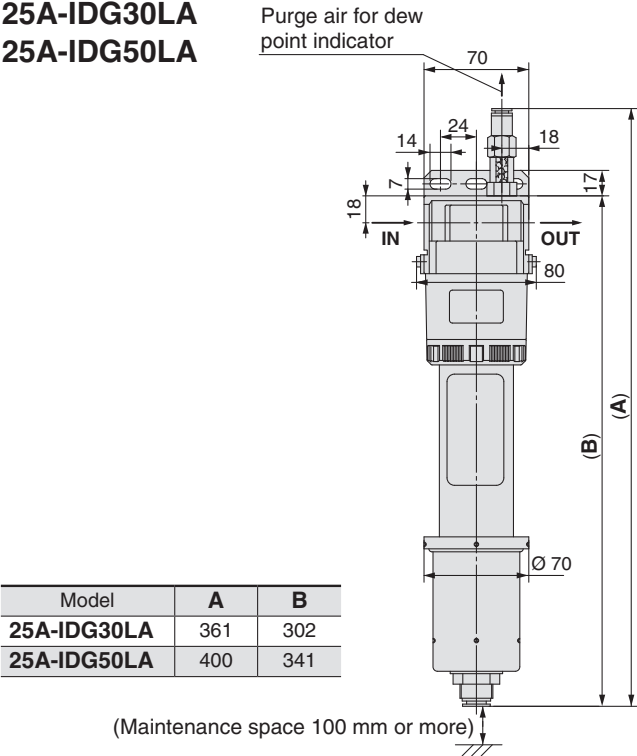
Electric
Actuators

Auto
Switches

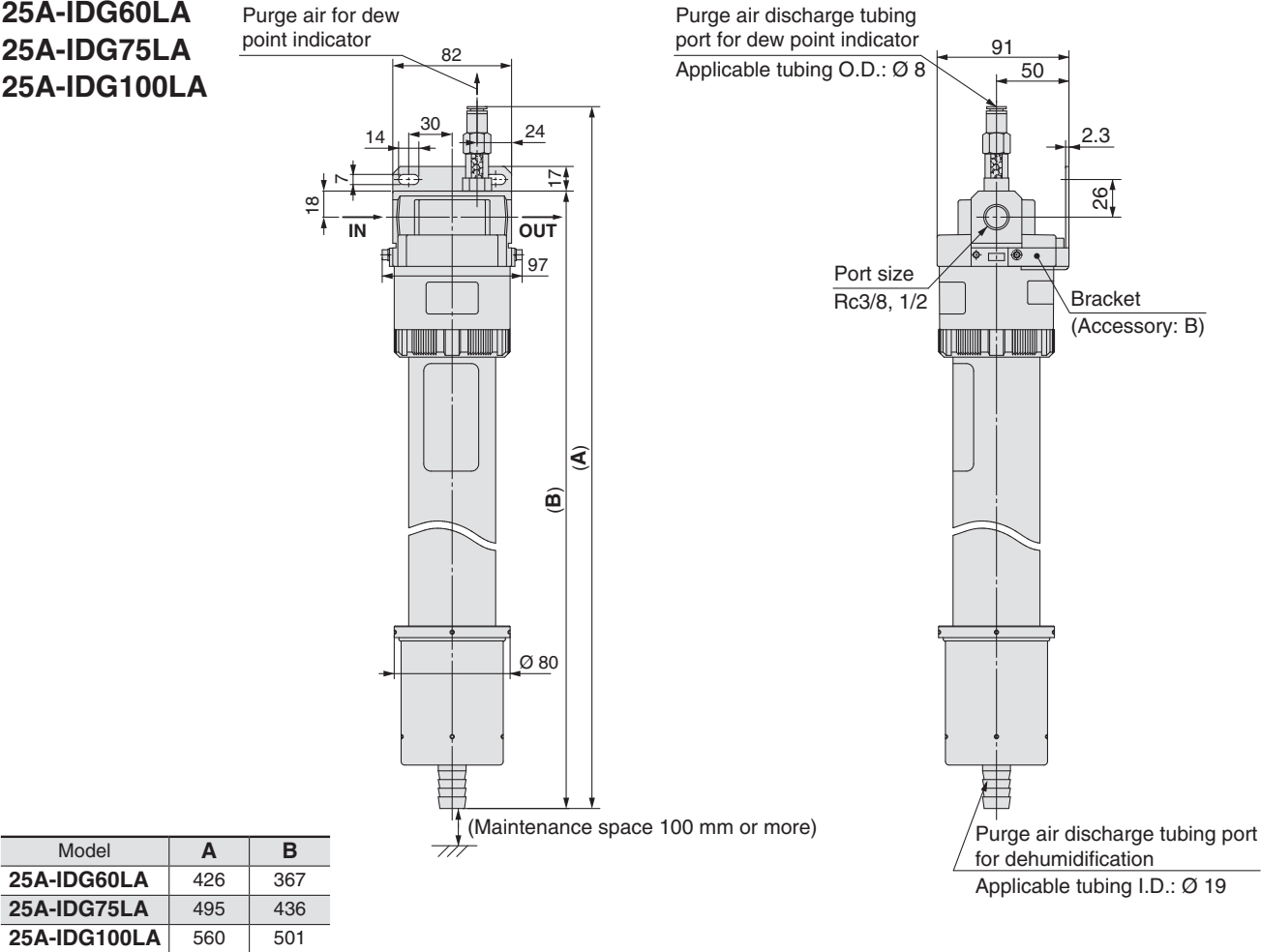
25A-IDG Series

Dimensions

25A-IDG30LA
25A-IDG50LA



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



Main Line Filter

25A-AFF Series



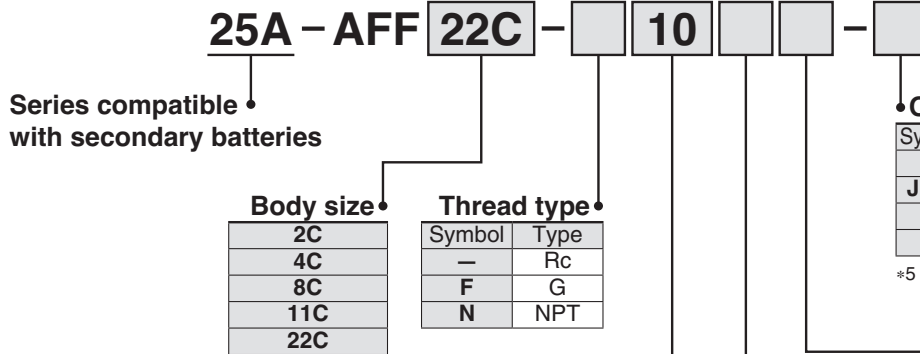
* 25A-AFF75B only

RoHS



How to Order

25A-AFF2C to 25A-AFF22C



Bracket Assembly Part Nos.*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 The assembly consists of a bracket and 2 mounting screws.

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	—	—	—	—	●

Auto drain*4

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

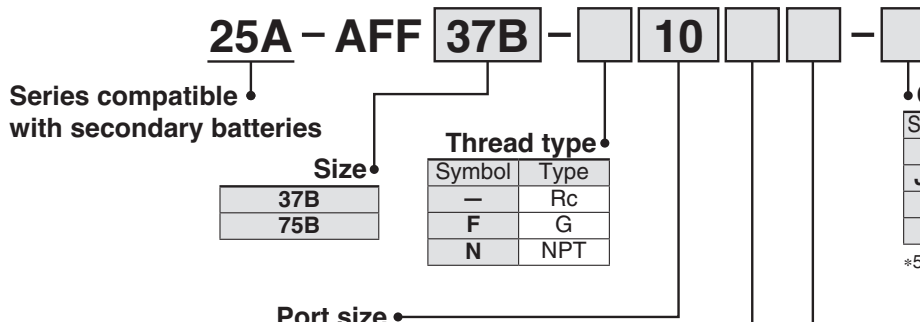
*4 Only one drain exhaust method can be selected. The drain cock, N.C. auto drain, N.O. auto drain and drain guide cannot be selected together.

Accessory

Symbol	Description
—	—
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 does not come assembled.

25A-AFF37B/75B



Symbol	Size	Applicable body size
		37B
10	1	●
14	1 1/2	●
20	2	—

Bracket Assembly Part Nos.*3

Applicable model	Part no.
25A-AFF37B	25A-BM56
25A-AFF75B	25A-BM57

*3 The assembly consists of a bracket and 2 mounting screws.

Auto drain*4

Symbol	Description
—	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.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Mist Separator

25A-AM Series



* 25A-AM850 only

RoHS



How to Order

25A-AM150C to 25A-AM550C

25A - AM 550C - [] 10 [] [] - []

Series compatible
with secondary batteries

Body size

150C
250C
350C
450C
550C

Thread type

Symbol	Type
—	Rc
F	G
N	NPT

Option

Symbol	Description
—	—
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
—	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.

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 Nos.*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 The assembly consists of a bracket and 2 mounting screws.

Accessory

Symbol	Description
—	—
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 does not come assembled.

25A-AM650/850

25A - AM 650 - [] 10 [] [] - []

Series compatible
with secondary batteries

Body size

650
850

Thread type

Symbol	Type
—	Rc
F	G
N	NPT

Option

Symbol	Description
—	—
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.

Auto drain*4

Symbol	Description
—	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.

Port size

Symbol	Size	Applicable body size	
		650	850
10	1	●	—
14	1 1/2	●	●
20	2	—	●

Accessory

Symbol	Description
—	—
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 does not come assembled.

Bracket Assembly Part Nos.*3

Applicable model	Part no.
25A-AM650	25A-BM56
25A-AM850	25A-BM57

*3 The assembly consists of a bracket and 2 mounting screws.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Micro Mist Separator

25A-AMD Series



* 25A-AMD850 only

RoHS



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
—	Rc
F	G
N	NPT

Option

Symbol	Description
—	—
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
—	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
—	—
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 does not come assembled.

Bracket Assembly Part Nos.*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 The assembly consists of a bracket and 2 mounting screws.

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	—	—	—	—	●

25A-AMD650/850

25A - AMD 650 - [] 10 [] [] - []

Series compatible
with secondary batteries

Body size

650
850

Thread type

Symbol	Type
—	Rc
F	G
N	NPT

Option

Symbol	Description
—	—
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.

Auto drain*4

Symbol	Description
—	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.

Port size

Symbol	Size	Applicable body size	
		650	850
10	1	●	—
14	1 1/2	●	●
20	2	—	●

Accessory

Symbol	Description
—	—
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 does not come assembled.

Bracket Assembly Part Nos.*3

Applicable model	Part no.
25A-AMD650	25A-BM56
25A-AMD850	25A-BM57

*3 The assembly consists of a bracket and 2 mounting screws.

* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

Micro Mist Separator with Pre-filter



* 25A-AMH850 only

25A-AMH Series



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
—	Rc
F	G
N	NPT

Option

Symbol	Description
—	—
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
—	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.

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 Nos.*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 The assembly consists of a bracket and 2 mounting screws.

Accessory

Symbol	Description
—	—
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 does not come assembled.

25A-AMH650/850

25A - AMH 650 - [] 10 [] [] - []

Series compatible
with secondary batteries

Body size

650
850

Thread type

Symbol	Type
—	Rc
F	G
N	NPT

Option

Symbol	Description
—	—
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.

Port size

Symbol	Size	Applicable body size	
		650	850
10	1	●	—
14	1 1/2	●	●
20	2	—	●

Accessory

Symbol	Description
—	—
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 does not come assembled.

Auto drain*4

Symbol	Description
—	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 Nos.*3

Applicable model	Part no.
25A-AMH650	25A-BM56
25A-AMH850	25A-BM57

*3 The assembly consists of a bracket and 2 mounting screws.

* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

Exhaust Cleaner for Clean Room

25A-AMP Series

RoHS



How to Order

25A - AMP 2 20 - 03 - -

Series compatible with secondary batteries

Size

2
3
4

Thread type

Symbol	Type
—	Rc
N	NPT
F	G

Port size

Symbol	Port size	Size		
		2	3	4
02	1/4	●	—	—
03	3/8	●	●	—
04	1/2	—	●	●
06	3/4	—	—	●

Semi-standard specifications

Symbol	Description
—	None
R	Flow direction Right→Down*3
T	With element service indicator

*3 Flow direction when the nameplate is viewed from the front.
Indicate RT when combining.

Accessories

Symbol	Name
—	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 does not come assembled.

Bracket Assembly Part Nos.*2

Applicable model	Part no.
25A-AMP220	25A-BM66
25A-AMP320	25A-BM67
25A-AMP420	25A-BM68

*2 The assembly consists of a bracket and 2 mounting screws.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Air Filter

25A-AF20-D to 25A-AF60-D



How to Order

25A - AF 30 - 03 B - - **D**

① ② ③ ④ ⑤

• Series compatible with secondary batteries

- Semi-standard: Select one each for **a** and **b**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) 25A-AF30-N03B-RZ-D

		Symbol	Description	①						
				Body size						
				20	30	40	50	60		
②	Pipe thread type	—	Rc	●	●	●	●	●		
		N	NPT	●	●	●	●	●		
		F	G	●	●	●	●	●		
			+							
③	Port size	01	1/8	●	—	—	—	—		
		02	1/4	●	●	●	—	—		
		03	3/8	—	●	●	—	—		
		04	1/2	—	—	●	—	—		
		06	3/4	—	—	●	●	—		
		10	1	—	—	—	●	●		
			+							
④	Option	Mounting	—	Without mounting option	●	●	●	●	●	
			B*1	With bracket	●	●	●	●	●	
			+							
⑤	Semi-standard	a	Flow direction	—	Flow direction: Left to right	●	●	●	●	●
				R	Flow direction: Right to left	●	●	●	●	●
				+						
	Semi-standard	b	Unit	—	Unit on product label: MPa, °C	●	●	●	●	●
Z*2				Unit on product label: psi, °F	○*2	○*2	○*2	○*2	○*2	

*1 Option B is included in the package with the product but does not come assembled. The assembly consists of 2 types of brackets and 2 mounting screws.

*2 ○ : For pipe thread type: NPT.

Bracket, Bowl Assembly Part Nos. for the 25A- Series

Option	Model					
	25A-AF20-D	25A-AF30-D	25A-AF40-D	25A-AF40-06-D	25A-AF50-D	25A-AF60-D
Bracket assembly*1	25A-AF24P-070AS	25A-AF34P-070AS	25A-AF44P-070AS	25A-AF49P-070AS	25A-AF54P-070AS	
Bowl assembly	25A-C2SF-D	25A-C3SF-D	25A-C4SF-D			

*1 The assembly consists of an A and B bracket and 2 mounting screws.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Air Filter

25A-AF20-A to 25A-AF60-A



How to Order

25A - AF 30 - 03 B - - A

1
2
3
4
5

• Series compatible with secondary batteries

- Semi-standard: Select one each for **a** and **b**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) 25A-AF30-N03B-RZ-A

		Symbol	Description	1						
				Body size						
				20	30	40	50	60		
2	Pipe thread type	—	Rc	●	●	●	●	●		
		N	NPT	●	●	●	●	●		
		F	G	●	●	●	●	●		
+										
3	Port size	01	1/8	●	—	—	—	—		
		02	1/4	●	●	●	—	—		
		03	3/8	—	●	●	—	—		
		04	1/2	—	—	●	—	—		
		06	3/4	—	—	●	●	—		
		10	1	—	—	—	●	●		
+										
4	Option	Mounting	—	Without mounting option	●	●	●	●	●	
			B*1	With bracket	●	●	●	●	●	
+										
5	Semi-standard	a	Flow direction	—	Flow direction: Left to right	●	●	●	●	●
				R	Flow direction: Right to left	●	●	●	●	●
		+								
		b	Pressure unit	—	Name plate and caution plate for bowl in SI units: MPa	●	●	●	●	●
Z*2	Name plate and caution plate for bowl in imperial units: psi, °F			○*2	○*2	○*2	○*2	○*2		

*1 A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws.

*2 ○ : For pipe thread type: NPT.

Bracket, Bowl Assembly Part Nos. for the 25A- Series

Model	25A-AF20-A	25A-AF30-A	25A-AF40-A	25A-AF40-06-A	25A-AF50-A 25A-AF60-A
Option					
Bracket assembly*1	25A-AF22P-050AS	25A-AF32P-050AS	25A-AF42P-050AS	25A-AF42P-070AS	25A-AF52P-050AS
Bowl assembly	25A-C2SF-A	25A-C3SF-A	25A-C4SF-A		

*1 The assembly consists of a bracket and 2 mounting screws.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mist Separator

25A-AFM20-D to 25A-AFM40-06-D

Micro Mist Separator

25A-AFD20-D to 25A-AFD40-06-D

- 25A-AFM Series Nominal filtration rating: 0.3 µm
- 25A-AFD Series Nominal filtration rating: 0.01 µm



How to Order

25A - AFM **30** - **03** **B** - **D**

25A - AFD **30** - **03** **B** - **D**

① ② ③ ④ ⑤

- Series compatible with secondary batteries

- Semi-standard: Select one each for **a** and **b**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) 25A-AFM30-N03B-RZ-D

		Symbol	Description	①				
				Body size				
				20	30	40		
②	Pipe thread type	—	Rc	●	●	●		
		N	NPT	●	●	●		
		F	G	●	●	●		
+								
③	Port size	01	1/8	●	—	—		
		02	1/4	●	●	●		
		03	3/8	—	●	●		
		04	1/2	—	—	●		
		06	3/4	—	—	●		
+								
④	Option	Mounting	—	Without mounting option	●	●	●	
			B*1	With bracket	●	●	●	
+								
⑤	Semi-standard	a	Flow direction	—	Flow direction: Left to right	●	●	●
				R	Flow direction: Right to left	●	●	●
		+						
		b	Unit	—	Unit on product label: MPa, °C	●	●	●
Z*2	Unit on product label: psi, °F			○*2	○*2	○*2		

*1 Option B is included in the package with the product but does not come assembled. The assembly consists of 2 types of brackets and 2 mounting screws.

*2 ○ : For pipe thread type: NPT.

Bracket, Bowl Assembly Part Nos. for the 25A- Series

Option	Model			
	25A-AFM20-D 25A-AFD20-D	25A-AFM30-D 25A-AFD30-D	25A-AFM40-D 25A-AFD40-D	25A-AFM40-06-D 25A-AFD40-06-D
Bracket assembly*1	25A-AF24P-070AS	25A-AF34P-070AS	25A-AF44P-070AS	25A-AF49P-070AS
Bowl assembly	25A-C2SF-D	25A-C3SF-D	25A-C4SF-D	

*1 The assembly consists of an A and B bracket and 2 mounting screws.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Mist Separator

25A-AFM20-A to 25A-AFM40-A

Micro Mist Separator

25A-AFD20-A to 25A-AFD40-A



- 25A-AFM Series Nominal filtration rating: 0.3 μm
- 25A-AFD Series Nominal filtration rating: 0.01 μm

How to Order

25A - AFM **30** - **03** **B** - **A**

25A - AFD **30** - **03** **B** - **A**

① ② ③ ④ ⑤

• Series compatible with secondary batteries

- Semi-standard: Select one each for **a** and **b**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) 25A-AFM30-N03B-RZ-A

		Symbol	Description	1				
				Body size				
				20	30	40		
2	Pipe thread type	—	Rc	●	●	●		
		N	NPT	●	●	●		
		F	G	●	●	●		
+								
3	Port size	01	1/8	●	—	—		
		02	1/4	●	●	●		
		03	3/8	—	●	●		
		04	1/2	—	—	●		
		06	3/4	—	—	●		
+								
4	Option	—	Without mounting option	●	●	●		
		B*1	With bracket	●	●	●		
+								
5	Semi-standard	a	Flow direction	—	Flow direction: Left to right	●	●	●
			R	Flow direction: Right to left	●	●	●	
		b	Pressure unit	—	Name plate and caution plate for bowl in SI units: MPa	●	●	●
			Z*2	Name plate and caution plate for bowl in imperial units: psi, °F	○*2	○*2	○*2	

*1 A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws.

*2 ○ : For pipe thread type: NPT.

Bracket, Bowl Assembly Part Nos. for the 25A- Series

Model	25A-AFM20-A 25A-AFD20-A	25A-AFM30-A 25A-AFD30-A	25A-AFM40-A 25A-AFD40-A	25A-AFM40-06-A 25A-AFD40-06-A
Option				
Bracket assembly*1	25A-AF22P-050AS	25A-AF32P-050AS	25A-AF42P-050AS	25A-AF42P-070AS
Bowl assembly	25A-C2SF-A	25A-C3SF-A	25A-C4SF-A	

*1 The assembly consists of a bracket and 2 mounting screws.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Regulator

25A-AR20-D to 25A-AR60-D

Regulator with Backflow Function

25A-AR20K-D to 25A-AR60K-D



How to Order

25A-AR **30** **K** - **03** **B** - **D**

1 2 3 4 5 6

• Series compatible with secondary batteries

- Semi-standard: Select one each for **a** to **e**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) 25A-AR30K-03B-1NR-D

		Symbol	Description	①						
				Body size						
				20	30	40	50	60		
②	With backflow function	—	Without backflow function	●	●	●	●	●		
		K*1	With backflow function	●	●	●	●	●		
+										
③	Pipe thread type	—	Rc	●	●	●	●	●		
		N	NPT	●	●	●	●	●		
		F	G	●	●	●	●	●		
+										
④	Port size	01	1/8	●	—	—	—	—		
		02	1/4	●	●	●	—	—		
		03	3/8	—	●	●	—	—		
		04	1/2	—	—	●	—	—		
		06	3/4	—	—	●	●	—		
		10	1	—	—	—	●	●		
+										
⑤	*2 Option	Mounting	—	Without mounting option	●	●	●	●	●	
			B*3	With bracket	●	●	●	●	●	
			H	With set nut (For panel fitting)	●	●	●	—	—	
+										
⑥	Semi-standard	a	Set pressure	—	0.05 to 0.85 MPa setting	●	●	●	●	●
				1*4	0.02 to 0.2 MPa setting	●	●	●	●	●
		+								
		b	Exhaust mechanism	—	Relieving type	●	●	●	●	●
				N	Non-relieving type	●	●	●	●	●
		+								
		c	Flow direction	—	Flow direction: Left to right	●	●	●	●	●
				R	Flow direction: Right to left	●	●	●	●	●
		+								
		d	Knob	—	Downward	●	●	●	●	●
Y	Upward			●	●	●	●	●		
+										
e	Unit	—	Unit on product label: MPa, Pressure gauge in SI units: MPa	●	●	●	●	●		
		Z*5	Unit on product label: psi, Pressure gauge: MPa/psi dual scale	○*5	○*5	○*5	○*5	○*5		

*1 Set the inlet pressure to be at least 0.05 MPa higher than the set pressure.

*2 Options B and H are not assembled and supplied alone at the time of shipment.

*3 The assembly consists of a bracket and set nuts.

*4 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

*5 ○: For pipe thread type: NPT.

Bracket, Set Nut Part Nos. for the 25A- Series

Option	Model					
	25A-AR20(K)-D	25A-AR30(K)-D	25A-AR40(K)-D	25A-AR40(K)-06-D	25A-AR50(K)-D	25A-AR60(K)-D
Bracket assembly*1	25A-AR23P-270AS	25A-AR33P-270AS	25A-AR43P-270AS		25A-AR54P-270AS	
Set nut	AR23P-260S	AR33P-260S	AR43P-260S		—*2	

*1 The assembly consists of a bracket and set nuts. For the 25A-AR50(K)-D and 25A-AR60(K)-D, the assembly consists of an A and B bracket and 2 mounting screws.

*2 Please contact SMC regarding the set nuts for the 25A-AR50(K)-D and 25A-AR60(K)-D.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Regulator

25A-AR20-B to 25A-AR60-B

Regulator with Backflow Function

25A-AR20K-B to 25A-AR60K-B

How to Order

25A-AR 30 K - 03 B - - **B**

1
2
3
4
5
6

• Series compatible with secondary batteries

- Semi-standard: Select one each for **a** to **e**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) 25A-AR30K-03B-1NR-B

		Symbol	Description	①							
				Body size							
				20	25	30	40	50	60		
②	With backflow function	—	Without backflow function	●	●	●	●	●	●		
		K	With backflow function	●	●	●	●	●	●		
+											
③	Pipe thread type	—	Rc	●	●	●	●	●	●		
		N	NPT	●	●	●	●	●	●		
		F	G	●	●	●	●	●	●		
+											
④	Port size	01	1/8	●	—	—	—	—	—		
		02	1/4	●	●	●	●	—	—		
		03	3/8	—	●	●	●	—	—		
		04	1/2	—	—	—	●	—	—		
		06	3/4	—	—	—	●	●	—		
		10	1	—	—	—	—	●	●		
+											
⑤	*1 Option Mounting	—	Without mounting option	●	●	●	●	●	●		
		B*2	With bracket	●	●	●	●	●	●		
		H	With set nut (For panel fitting)	●	●	●	●	—	—		
+											
⑥	Semi-standard	a	Set pressure	—	0.05 to 0.85 MPa setting	●	●	●	●	●	●
				1*3	0.02 to 0.2 MPa setting	●	●	●	●	●	●
		+									
		b	Exhaust mechanism	—	Relieving type	●	●	●	●	●	●
				N	Non-relieving type	●	●	●	●	●	●
		+									
		c	Flow direction	—	Flow direction: Left to right	●	●	●	●	●	●
				R	Flow direction: Right to left	●	●	●	●	●	●
		+									
		d	Knob	—	Downward	●	●	●	●	●	●
				Y	Upward	●	●	●	●	●	●
		+									
e	Pressure unit	—	Name plate in SI units: MPa	●	●	●	●	●	●		
		Z*4	Name plate in imperial units: psi	○*4	○*4	○*4	○*4	○*4	○*4		

*1 Options B and H are not assembled and supplied loose at the time of shipment.

*2 The assembly consists 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).

*3 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

*4 ○: For pipe thread type: NPT.

Bracket, Set Nut Part Nos. for the 25A- Series

Option	Model	25A-AR20(K)-B	25A-AR25(K)-B	25A-AR30(K)-B	25A-AR40(K)-B	25A-AR50(K)-B 25A-AR60(K)-B
Bracket assembly *1		25A-AR23P-270AS	25A-AR28P-270AS	25A-AR33P-270AS	25A-AR43P-270AS	25A-AR52P-270AS*2
Set nut		AR23P-260S	AR28P-260S	AR33P-260S	AR43P-260S	—*3

*1 The assembly consists of a bracket and set nuts.

*2 The assembly consists of a bracket and 2 mounting screws.

*3 Please contact SMC regarding the set nuts for the 25A-AR50(K) and 25A-AR60(K).

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Filter Regulator

25A-AW20-D to 25A-AW60-D

Filter Regulator with Backflow Function

25A-AW20K-D to 25A-AW60K-D



How to Order

25A-AW **30** **K** - **03** **B** - **D**

• Series compatible with secondary batteries

- Semi-standard: Select one each for **a** to **d**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) 25A-AW30K-03B-1N-D

		Symbol	Description	①					
				Body size					
				20	30	40	60		
②	With backflow function	—	Without backflow function	●	●	●	●		
		K*1	With backflow function	●	●	●	●		
+									
③	Pipe thread type	—	Rc	●	●	●	●		
		N	NPT	●	●	●	●		
		F	G	●	●	●	●		
+									
④	Port size	01	1/8	●	—	—	—		
		02	1/4	●	●	●	—		
		03	3/8	—	●	●	—		
		04	1/2	—	—	●	—		
		06	3/4	—	—	●	●		
		10	1	—	—	—	●		
+									
⑤	Option*2 Mounting	—	Without mounting option	●	●	●	●		
		B*3	With bracket	●	●	●	●		
		H	With set nut (For panel fitting)	●	●	●	—		
+									
⑥	Semi-standard	a	Set pressure	—	0.05 to 0.85 MPa setting	●	●	●	●
				1*4	0.02 to 0.2 MPa setting	●	●	●	●
		+							
		b	Exhaust mechanism	—	Relieving type	●	●	●	●
				N	Non-relieving type	●	●	●	●
		+							
		c	Flow direction	—	Flow direction: Left to right	●	●	●	●
				R	Flow direction: Right to left	●	●	●	●
		+							
		d	Unit	—	Unit on product label: MPa, °C, Pressure gauge in SI units: MPa	●	●	●	●
Z*5	Unit on product label: psi, °F, Pressure gauge: MPa/psi dual scale			○*5	○*5	○*5	○*5		

*1 Set the inlet pressure to at least 0.05 MPa higher than the set pressure.

*2 Options B and H are not assembled and supplied loose at the time of shipment.

*3 The assembly consists of a bracket and set nuts

*4 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

*5 ○ : For pipe thread type: NPT.

Bracket, Set Nut, Bowl Assembly Part Nos. for the 25A- Series

Option	Model				
	25A-AW20(K)-D	25A-AW30(K)-D	25A-AW40(K)-D	25A-AW40(K)-06-D	25A-AW60(K)-D
Bracket assembly*1	25A-AW23P-270AS	25A-AR33P-270AS	25A-AR43P-270AS		25A-AR54P-270AS
Set nut	AR23P-260S	AR33P-260S	AR43P-260S		—*2
Bowl assembly	25A-C2SF-D	25A-C3SF-D	25A-C4SF-D		

*1 The assembly consists of a bracket and set nuts.

*2 For the 25A-AW60(K)-D, the assembly consists of an A and B bracket and 2 mounting screws.
Please contact SMC regarding the set nuts for the 25A-AW60(K)-D.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Filter Regulator

25A-AW20-B to 25A-AW60-B

Filter Regulator with Backflow Function

25A-AW20K-B to 25A-AW60K-B



How to Order

25A - AW **30** **K** - **03** **B** - **B**

① ② ③ ④ ⑤ ⑥

• Series compatible with secondary batteries

- Semi-standard: Select one each for **a** to **d**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) 25A-AW30K-03B-1N-B

		Symbol	Description	①					
				Body size					
				20	30	40	60		
②	With backflow function	—	Without backflow function	●	●	●	●		
		K	With backflow function	●	●	●	●		
+									
③	Pipe thread type	—	Rc	●	●	●	●		
		N	NPT	●	●	●	●		
		F	G	●	●	●	●		
+									
④	Port size	01	1/8	●	—	—	—		
		02	1/4	●	●	●	—		
		03	3/8	—	●	●	—		
		04	1/2	—	—	●	—		
		06	3/4	—	—	●	●		
		10	1	—	—	—	●		
+									
⑤	*1 Option Mounting	—	Without mounting option	●	●	●	●		
		B*2	With bracket	●	●	●	●		
		H	With set nut (For panel fitting)	●	●	●	—		
+									
⑥	Semi-standard	a	Set pressure	—	0.05 to 0.85 MPa setting	●	●	●	●
				1*3	0.02 to 0.2 MPa setting	●	●	●	●
		b	Exhaust mechanism	—	Relieving type	●	●	●	●
				N	Non-relieving type	●	●	●	●
		c	Flow direction	—	Flow direction: Left to right	●	●	●	●
				R	Flow direction: Right to left	●	●	●	●
		d	Pressure unit	—	Name plate and caution plate for bowl in SI units: MPa	●	●	●	●
				Z*4	Name plate and caution plate for bowl in imperial units: psi, °F	○*4	○*4	○*4	○*4
		+							

*1 Options B and H are not assembled and supplied loose at the time of shipment.

*2 The assembly consists of a bracket and set nuts (25A-AW20(K) to 25A-AW40(K)). Including 2 mounting screws for the 25A-AW60(K).

*3 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

*4 ○ : For pipe thread type: NPT.

Bracket, Set Nut, Bowl Assembly Part Nos. for the 25A- Series

Model	25A-AW20(K)-B	25A-AW30(K)-B	25A-AW40(K)-B	25A-AW60(K)-B
Option				
Bracket assembly*1	25A-AW23P-270AS	25A-AR33P-270AS	25A-AR43P-270AS	25A-AW62P-270AS*2
Set nut	AR23P-260S	AR33P-260S	AR43P-260S	—*3
Bowl assembly	25A-C2SF-A	25A-C3SF-A	25A-C4SF-A	

*1 The assembly consists of a bracket and set nuts.

*2 The assembly consists of a bracket and 2 mounting screws.

*3 Please contact SMC regarding the set nuts for the 25A-AW60(K).

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



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Mist Separator Regulator

25A-AWM30, AWM40-D

Micro Mist Separator Regulator

25A-AWD30, AWD40-D

- 25A-AWM Series Nominal filtration rating: 0.3 μm
- 25A-AWD Series Nominal filtration rating: 0.01 μm



25A-AWM30-D 25A-AWD30-D

How to Order

25A - AWM **30** - **03** **B** - **D**

25A - AWD **30** - **03** **B** - **D**

- Series compatible with secondary batteries

① ② ③ ④ ⑤

- Semi-standard: Select one each for **a** to **d**.
- Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) 25A-AWM30-F03B-1NR-D

		Symbol	Description	①			
				Body size			
				30	40		
②	Pipe thread type	—	Rc	●	●		
		N	NPT	●	●		
		F	G	●	●		
		+					
③	Port size	02	1/4	●	●		
		03	3/8	●	●		
		04	1/2	—	●		
		+					
④	*1 Option Mounting	—	Without mounting option	●	●		
		B*2	With bracket	●	●		
		H	With set nut (for panel mount)	●	●		
		+					
⑤	Semi-standard	a	Set pressure*3	—	0.05 to 0.85 MPa setting	●	●
				1	0.05 to 0.2 MPa setting	●	●
				+			
		b	Exhaust mechanism	—	Relieving type	●	●
				N	Non-relieving type	●	●
				+			
		c	Flow direction	—	Flow direction: Left to right	●	●
				R	Flow direction: Right to left	●	●
				+			
		d	Unit	—	Unit on product label: MPa, °C	●	●
				Z*4	Unit on product label: psi, °F	○*5	○*5

*1 Options B and H are not assembled and supplied loose at the time of shipment.

*2 The assembly consists of a bracket and set nuts.

*3 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

*4 For the pipe thread type: NPT

*5 ○: For the pipe thread type: NPT only

Bracket, Set Nut, Bowl Assembly Part Nos. for the 25A- Series

Optional specifications	Model	
	25A-AWM30-D 25A-AWD30-D	25A-AWM40-D 25A-AWD40-D
Bracket assembly*1	25A-AR33P-270AS	25A-AR43P-270AS
Set nut	AR33P-260S	AR43P-260S
Bowl assembly	25A-C3SF-D	25A-C4SF-D

*1 The assembly consists of a bracket and set nuts.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Precision Regulator

RoHS

25A-IR1000/2000/3000-A Series

How to Order

25A-IR **1** **0** **0** **0** - **01** **B** - **0** - A

①
②
③
④
⑤
⑥
⑦



- Option/Semi-standard: Select one each for **a**, **b**, and **c**.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

		Symbol	Description	①		
				Body size		
				1	2	3
②	Set pressure range	0	0.005 to 0.2 MPa	●	●	—
			0.01 to 0.2 MPa	—	—	●
		1	0.01 to 0.4 MPa	●	●	●
		2	0.01 to 0.8 MPa	●	●	●
		+				
③	Exhaust direction	0	Bottom exhaust	●	●	●
		1	Front exhaust	—	—	●
		2	Rear exhaust	—	—	●
		+				
④	Pipe thread type	—	Rc	●	●	●
		N	NPT	●	●	●
		F	G	●	●	●
		+				
⑤	Port size	01	1/8	●	—	—
		02	1/4	—	●	●
		03	3/8	—	—	●
		04	1/2	—	—	●
		+				
⑥	a	—	Without mounting option	●	●	●
		B*2	With bracket	●	●	●
		H	With hexagon panel nut (for panel mount)	●	●	●
			+			
	b	EA	NPN open collector 1 output	●	●	●
		EB	PNP open collector 1 output	●	●	●
		EC	NPN open collector 2 outputs + Analogue voltage output	●	●	●
		ED	NPN open collector 2 outputs + Analogue current output	●	●	●
		+				
⑦	c	—	Flow direction: Left to right	●	●	●
		R	Flow direction: Right to left	●	●	●
			+			
	d	—	Upward	●	●	●
		V	Downward	●	●	●
			+			
	e	—	Name plate and pressure gauge in imperial units: MPa	●	●	●
		Z	Name plate and pressure gauge in imperial units: psi	●	●	●
ZA		Digital pressure switch: With unit conversion function	●	●	●	

*1 Options are shipped together with the product but do not come assembled. B and H cannot be selected at the same time. The current bracket cannot be used for this product.

*2 The assembly consists of a bracket and set nuts

*3 See pressure unit table below.

	Pipe thread type	Name plate in imperial units	Pressure switch in imperial units
			EA, EB, EC, ED
—	Rc	MPa	Fixed SI unit
	NPT		
	G		
Z*4	Rc	—	—
	NPT	psi	With unit conversion function (Initial value psi)
	G	—	—
ZA*5	Rc	MPa	With unit conversion function
	NPT		
	G		

*4 For pipe thread type: NPT

*5 For options: EA, EB, EC, ED

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Electro-Pneumatic Regulator

25A-ITV1000/2000/3000 Series

How to Order



Series compatible with secondary batteries

25A - ITV 2 0 1 0 - 0 1 2 S

Model

1	1000 type
2	2000 type
3	3000 type

Pressure range

1	0.1 MPa
3	0.5 MPa
5	0.9 MPa

Power supply voltage

0	24 VDC
1	12 to 15 VDC

Input signal

0	Current type 4 to 20 mADC (Sink type)
1	Current type 0 to 20 mADC (Sink type)
2	Voltage type 0 to 5 VDC
3	Voltage type 0 to 10 VDC
40	4 points preset input

Monitor output

1	Analogue output 1 to 5 VDC
2	Switch output/NPN output
3	Switch output/PNP output
4	Analogue output 4 to 20 mADC (Sink type)
—	None (For 4 points preset input)

Pressure display unit

—	MPa
2	kgf/cm ²
3	bar
4	psi
5	kPa

Cable connector type

S	Straight type 3 m
L	Right angle type 3 m
N	Without cable connector

* A dedicated cable connector whose material was changed is used.

Bracket

—	Without bracket
B	Flat bracket
C	L-bracket

* The bracket is made with a special black chromium treatment. The bracket is shipped with the product.

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)

Thread type

—	Rc
N	NPT
T	NPTF
F	G

* Since the lead wires and electrical circuits are used, this product is not completely copper-free. Only the wetted parts are copper-free.

* Copper and zinc materials are used for solenoid valve coils, connector pins, and lead wire substrate.

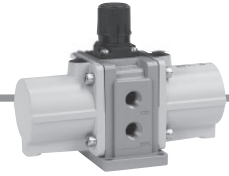
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Booster Regulator 25A-VBA Series

RoHS

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*1

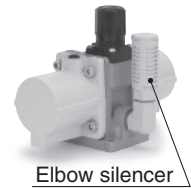
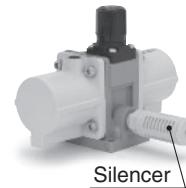
Symbol	Thread type
—	Rc
F	G
N	NPT
T	NPTF

*1 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.

Option

Symbol	Option
—	None
N	Silencer
S	High-noise reduction silencer*1
LN	Elbow silencer*1
LS	Elbow high-noise reduction silencer*1

*1 Refer to "Combination of Thread Type and Options."
* Pressure gauge is not available as an option.



Port size

Symbol	Port size	Applicable series
02	1/4	VBA10A
03	3/8	VBA20A
04	1/2	VBA40A

Combination of Thread Type and Options

Body size	Thread type	Option				
		—	N	S	LN	LS
10A	—	●	●	●	●	●
	F	●	●	●	●	●
	N	●	●	—	●	—
	T	●	●	—	●	—
20A	—	●	●	●		
	F	●	●	●		
	N	●	●	●		
	T	●	●	●		
40A	—	●	●	●		
	F	●	●	●		
	N	●	●	●		
	T	●	●	●		

Caution

- Not compatible with a low dew point
- VBA10A: Due to the close proximity of the IN and OUT sides of the gauge port and the handle of the booster regulator, a G43-10-01-X300/G46-SRB pressure gauge cannot be mounted as it will interfere with the handle. VBA20A/40A: The G43-10-01-X300/G46-SRB pressure gauge cannot be mounted as the mounting pitch of the IN and OUT sides of the gauge port of the booster regulator is smaller than the diameter of the pressure gauge. In order to mount the pressure gauge, piping which does not cause any interference must be prepared separately.

Air Tank Compatibility Chart

Booster regulator	25A-VBA10A	25A-VBA20A	25A-VBA40A
Air tank			
25A-VBAT05A1	●	—	—
25A-VBAT05S1	●	—	—
25A-VBAT10A1	●	●	—
25A-VBAT10S1	●	●	—
25A-VBAT20A1	—	●	●
25A-VBAT20S1	—	●	●
25A-VBAT38A1	—	●	●
25A-VBAT38S1	—	●	●

* Refer to page 209 for details on air tanks.

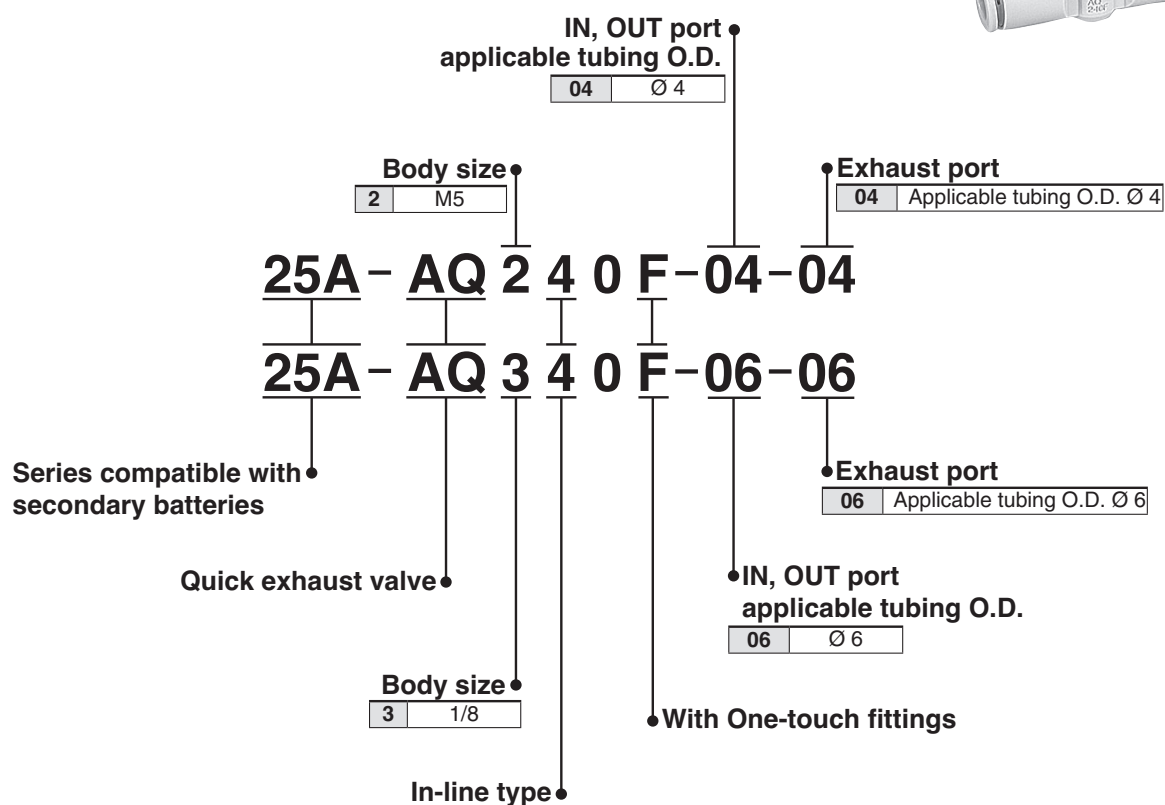
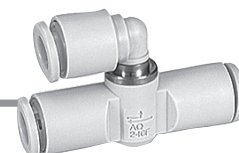
* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalogue.

Quick Exhaust Valve with One-touch Fittings

RoHS

25A-AQ240F/340F Series

How to Order



* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Check Valve with One-touch Fittings **25A-AKH Series**

RoHS

How to Order

Straight type

25A – AKH 04 – 00

Series compatible with
secondary batteries

Applicable tubing O.D.
Metric size

04	Ø 4
06	Ø 6
08	Ø 8
10	Ø 10
12	Ø 12



* The 25A- series specifications and dimensions
are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Rectangular Multi-connector **25A-KDM Series**

No. of Connecting Tubes: 20

RoHS

How to Order

25A-KDM 20-06

Series compatible with secondary batteries •

No. of connecting tubes •

• Tubing O.D.

Metric size

Symbol	Size	Colour of release button
23	Ø 3.2	Blue
04	Ø 4	
06	Ø 6	

Inch size

Symbol	Size	Colour of release button
01	Ø 1/8"	Red
03	Ø 5/32"	
07	Ø 1/4"	

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
-----------------	---

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

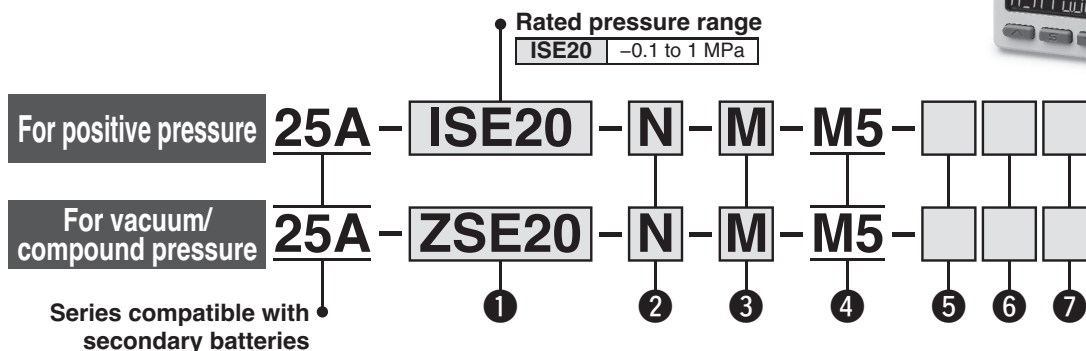
1 Output

3-Screen Display High-Precision Digital Pressure Switch

25A-ZSE20(F)/ISE20 Series



How to Order



1 Rated pressure range

ZSE20	0 to -101 kPa
ZSE20F	-100 to 100 kPa

2 Output specification


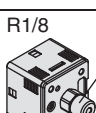
Symbol	Description
N	NPN open collector 1 output
P	PNP open collector 1 output

3 Unit specification


Symbol	Description
-	Units selection function
M	SI unit only*1
P	Units selection function (Initial value psi)

*1 Fixed unit: kPa, MPa

4 Piping specification

Symbol	Description
M5	M5 female thread  Piping port
01	R1/8 R1/8 Piping adapter ZS-46-N1 

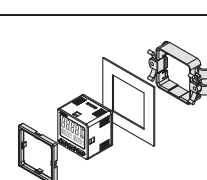
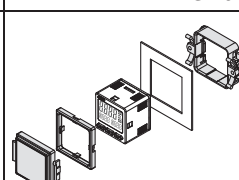
5 Option 1

Symbol	Description
-	Without lead wire
L	Lead wire with connector (3-core, 2 m lead wire)  Without waterproof cover ZS-46-3L

7 Option 3

Symbol	Operation manual	Calibration certificate
-	○	-
Y	-	-
K	○	○
T	-	○

6 Option 2

Symbol	Description
-	None
B	Panel mount adapter  ZS-46-B
D	Panel mount adapter + Front protection cover  ZS-46-D

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	ZS-46-B	-
Panel mount adapter + Front protection cover	ZS-46-D	-
Lead wire with connector	ZS-46-3L	3-core, 2 m, Non-waterproof (Without waterproof cover)
Front protection cover	ZS-27-01	-

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

2 Outputs + Analogue Output (Voltage/Current)



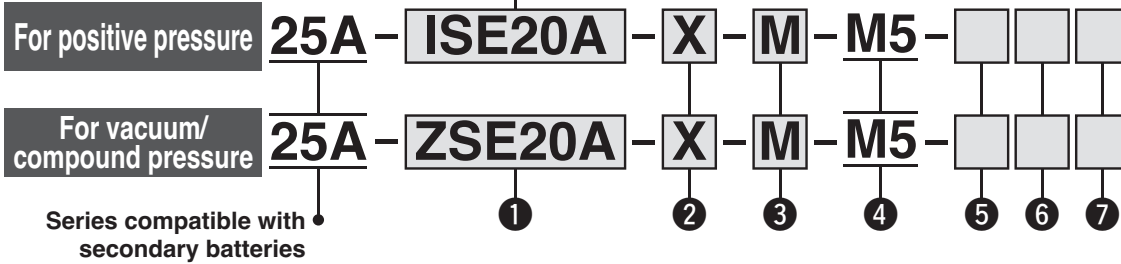
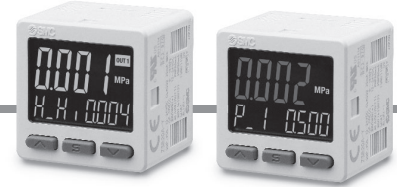
3-Screen Display High-Precision Digital Pressure Switch

RoHS

IP40

25A-ZSE20A(F)/ISE20A Series

How to Order



1 Rated pressure range

ZSE20A	0 to -101 kPa
ZSE20AF	-100 to 100 kPa

2 Output specification

Symbol	Description
R	NPN open collector 2 outputs + Analogue voltage output *1
S	NPN open collector 2 outputs + Analogue current output *1
T	PNP open collector 2 outputs + Analogue voltage output *1
V	PNP open collector 2 outputs + Analogue current output *1
X	NPN open collector 2 outputs + Copy function
Y	PNP open collector 2 outputs + Copy function

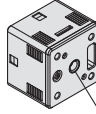
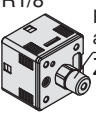
*1 Can be switched to auto-shift or copy function

3 Unit specification


Symbol	Description
-	Units selection function
M	SI unit only *1
P	Units selection function (Initial value psi)

*1 Fixed unit: kPa, MPa

4 Piping specification

Symbol	Description
M5	M5 female thread  Piping port
01	R1/8  R1/8 Piping adapter ZS-46-N1

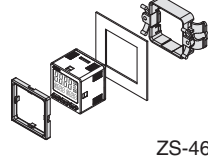
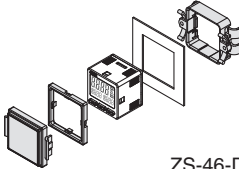
5 Option 1

Symbol	Description
-	Without lead wire
J	Lead wire with connector (5-core, 2 m lead wire)  Without waterproof cover ZS-46-5L

7 Option 3

Symbol	Operation manual	Calibration certificate
-	<input type="radio"/>	<input type="radio"/>
Y	<input type="radio"/>	<input type="radio"/>
K	<input type="radio"/>	<input type="radio"/>
T	<input type="radio"/>	<input type="radio"/>

6 Option 2

Symbol	Description
-	None
B	Panel mount adapter  ZS-46-B
D	Panel mount adapter + Front protection cover  ZS-46-D

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	ZS-46-B	—
Panel mount adapter + Front protection cover	ZS-46-D	—
Lead wire with connector	ZS-46-5L	5-core, 2 m, Non-waterproof (Without waterproof cover)
Front protection cover	ZS-27-01	—

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.



Directional Control Valves

Air Cylinders

Related Products

Rotary Actuators

Air Grippers

Vacuum Equipment

Air Preparation Equipment

Clean Air Filters

Modular F.R.L./Pressure Control Equipment

Flow Control Equipment/Fittings

Detection Switches

Fluid Control Equipment

Process Gas Equipment

Electric Actuators

Auto Switches

2 Outputs + Analogue Output (Voltage/Current)



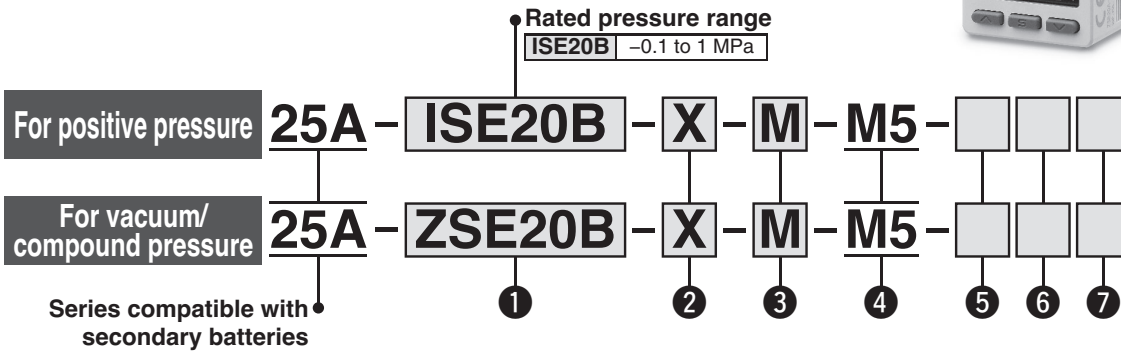
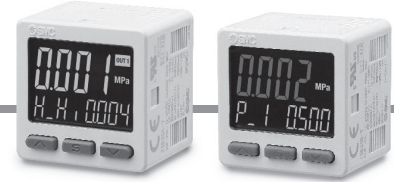
3-Screen Display High-Precision Digital Pressure Switch

RoHS

IP65

25A-ZSE20B(F)/ISE20B Series

How to Order



1 Rated pressure range

ZSE20B	0 to -101 kPa
ZSE20BF	-100 to 100 kPa

2 Output specification

Symbol	Description
R	NPN open collector 2 outputs + Analogue voltage output *1
S	NPN open collector 2 outputs + Analogue current output *1
T	PNP open collector 2 outputs + Analogue voltage output *1
V	PNP open collector 2 outputs + Analogue current output *1
X	NPN open collector 2 outputs + Copy function
Y	PNP open collector 2 outputs + Copy function

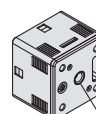
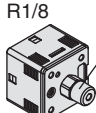
*1 Can be switched to auto-shift or copy function

3 Unit specification

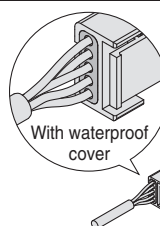
Symbol	Description
-	Units selection function
M	SI unit only *1
P	Units selection function (Initial value psi)

*1 Fixed unit: kPa, MPa

4 Piping specification

Symbol	Description
M5	M5 female thread  Piping port
01	R1/8 Piping adapter  ZS-46-N1

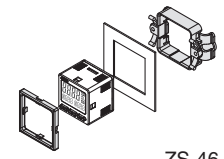
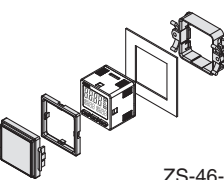
5 Option 1

Symbol	Description
-	Without lead wire
W	Lead wire with connector (5-core, 2 m lead wire, With waterproof cover)  ZS-46-5F

7 Option 3

Symbol	Operation manual	Calibration certificate
-	<input type="radio"/>	<input type="radio"/>
Y	<input type="radio"/>	<input type="radio"/>
K	<input type="radio"/>	<input type="radio"/>
T	<input type="radio"/>	<input type="radio"/>

6 Option 2

Symbol	Description
-	None
B	Panel mount adapter  ZS-46-B
D	Panel mount adapter + Front protection cover  ZS-46-D

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	ZS-46-B	—
Panel mount adapter + Front protection cover	ZS-46-D	—
Lead wire with connector	ZS-46-5F	5-core, 2 m, Waterproof (With waterproof cover)
Front protection cover	ZS-27-01	—

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

2 Outputs + Analogue Output (Voltage/Current)



3-Screen Display High-Precision Digital Pressure Switch for General Fluids

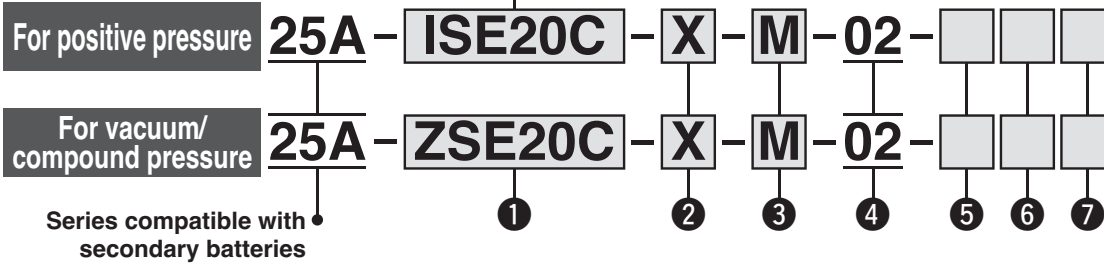
RoHS

IP65

25A-ZSE20C(F)/ISE20C(H) Series



How to Order



1 Rated pressure range

ZSE20C	0 to -101 kPa
ZSE20CF	-100 to 100 kPa

2 Output specification

Symbol	Description
R	NPN open collector 2 outputs + Analogue voltage output*1
S	NPN open collector 2 outputs + Analogue current output*1
T	PNP open collector 2 outputs + Analogue voltage output*1
V	PNP open collector 2 outputs + Analogue current output*1
X	NPN open collector 2 outputs + Copy function
Y	PNP open collector 2 outputs + Copy function

*1 Can be switched to auto-shift or copy function

3 Unit specification

Symbol	Description
-	Units selection function
M	SI unit only*1
P	Units selection function (Initial value psi)

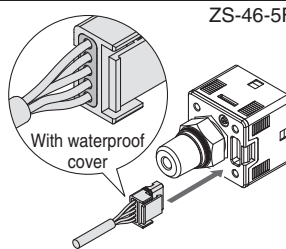
*1 Fixed unit: kPa, MPa

4 Piping specification

Symbol	Description
02	R1/4 (M5 female threaded)

5 Option 1

Symbol	Description
-	Without lead wire
W	Lead wire with connector, 5-core (2 m lead wire, With waterproof cover)



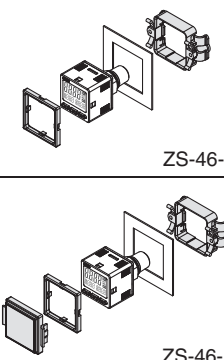
ZS-46-5F

7 Option 3

Symbol	Operation manual	Calibration certificate
-	○	-
Y	-	-
K	○	○
T	-	○

6 Option 2

Symbol	Description
-	None
B	Panel mount adapter
D	Panel mount adapter + Front protection cover



ZS-46-B
ZS-46-D

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	ZS-46-B	Rear ported
Panel mount adapter + Front protection cover	ZS-46-D	Rear ported
Lead wire with connector	ZS-46-5F	5-core, 2 m, Waterproof (With waterproof cover)
Front protection cover	ZS-27-01	Rear ported

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

2-Colour Display

Digital Flow Switch

25A-PF2M7 Series



RoHS

How to Order

25A-PF2M7 **10** **1** **2** **3** **4** **5** **6** **7** **8**

Series compatible
with secondary
batteries

Integrated display

1 Rated flow range

01	0.01 to 1 l/min	25	0.3 to 25 l/min
02	0.02 to 2 l/min	50	0.5 to 50 l/min
05	0.05 to 5 l/min	11	1 to 100 l/min
10	0.1 to 10 l/min	21	2 to 200 l/min

2 Piping entry direction

Symbol	Piping entry direction	Rated flow range							
		1	2	5	10	25	50	100	200
—	Straight	●	●	●	●	●	●	●	●
L	Rear ported	●	●	●	●	●	●	●	●

3 Port size

Symbol	Port size	Rated flow range							
		1	2	5	10	25	50	100	200
01	Rc1/8	●	●	●	●	●	—	—	—
N1	NPT1/8	●	●	●	●	●	—	—	—
F1	G1/8	●	●	●	●	●	—	—	—
02	Rc1/4	—	—	—	—	—	●	●	—
N2	NPT1/4	—	—	—	—	—	●	●	—
F2	G1/4	—	—	—	—	—	●	●	—
C6	Ø 6	●	●	●	●	●	—	—	—
C8	Ø 8	—	—	—	—	—	●	●	—

Piping variations

With One-touch fitting	Female thread
C6, C8	01, 02, N1, N2, F1, F2
Straight	Straight
Rear ported	Rear ported

4 Output specification

Symbol	OUT1	OUT2
A	NPN	NPN
B	PNP	PNP
C	NPN	Analogue 1 to 5 V ⇔ Analogue 0 to 10 V*1
D	NPN	Analogue 4 to 20 mA
E	PNP	Analogue 1 to 5 V ⇔ Analogue 0 to 10 V*1
F	PNP	Analogue 4 to 20 mA

*1 1 to 5 V or 0 to 10 V can be selected by pressing the button.
The default setting is 1 to 5 V.

5 Option 1

W
Lead wire with connector (2 m) + Connector cover (Silicone rubber)
ZS-33-F
ZS-33-D
* Interchangeable with the existing PFM7 series

6 Unit specification

M	SI unit only*2
—	Unit selection function*3

*2 Fixed unit: Instantaneous flow: l/min
Accumulated flow: L

*3 This product is for overseas use only.
(The SI unit type is provided for use in Japan in accordance with the New Measurement Act.)
The unit can be changed.
Instantaneous flow: l/min ⇔ cfm
Accumulated flow: L ⇔ ft³

8 Calibration certificate*4

—	None
A	Yes

*4 Made to order

7 Option 2

—	R	T
Without bracket	Bracket (For the type without a flow adjustment valve) 25A-ZS-33-M * Interchangeable with the existing PFM series	Panel mount adapter (For the type without a flow adjustment valve) ZS-33-2J

* Options are shipped together with the product but do not come assembled.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

2-Colour Display

Digital Flow Switch

Integrated display



25A-PFM7 Series



How to Order

Integrated display

25A-PFM710-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: CO₂

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	Ø 6 One-touch fitting	●	●	●	●
C8	Ø 8 (5/16") One-touch fitting	—	●	●	●

Piping entry direction

—	Straight
L	Bottom

Output specifications

A	2 NPN outputs
B	2 PNP outputs
C	1 NPN output + Analogue output (1 to 5 V)
D	1 NPN output + Analogue output (4 to 20 mA)
E	1 PNP output + Analogue output (1 to 5 V)
F	1 PNP output + Analogue output (4 to 20 mA)
G	1 NPN output + External input* ³
H	1 PNP output + External input* ³

*³ User can select from accumulated value external reset, auto-shift and auto-shift zero.

Unit specifications

—	With unit switching function
M	Fixed SI unit* ¹

*¹ Fixed unit: Instantaneous flow: l/min
Accumulated flow: L

Option 1

W	Lead wire with connector (2 m) X Rubber cover for connector (Silicon rubber)
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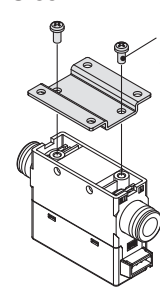
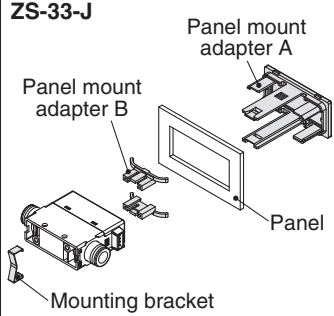
Calibration certificate

—	None
A	With calibration certificate

Operation manual

—	With operation manual (Japanese and English)
N	None

Option 2

—	None
R	Bracket (For the type without a flow adjustment valve) 25A-ZS-33-M 
T	Panel mount adapter (For the type without a flow adjustment valve) ZS-33-J 

* The 25A- series specifications and dimensions are the same as those of the standard model.

* Digital flow switch with flow adjustment valve is not standard product. It can be supplied as Made-to-Order separately.

For details, refer to the **Web Catalogue**.

2-Colour Display

Digital Flow Switch Remote sensor unit

25A-PFM5 Series



RoHS



How to Order

Remote sensor unit

25A-PFM5 **10** - **C6** **1** - **W**

Series compatible with secondary batteries

Type

5	Remote sensor unit
---	--------------------

Rated flow range (Flow rate range)

10	0.2 to 10 (5) l/min
25	0.5 to 25 (12.5) l/min
50	1 to 50 (25) l/min
11	2 to 100 (50) l/min

* (): Fluid: CO₂

Piping entry direction

—	Straight
L	Bottom

Output specification

No.	Description	Applicable display unit
1	Analogue output (1 to 5 V)	25A-PFM30□
2	Analogue output (4 to 20 mA)	25A-PFM31□

Calibration certificate

—	None
A	With calibration certificate

* The certificate is written in both English and Japanese. Other languages are available as specials.

Operation manual

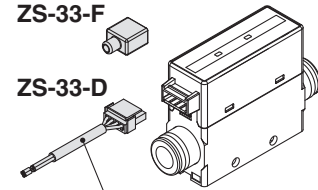
—	With operation manual (Japanese and English)
N	None

Option 1

With lead wire with connector (2 m)
+
Rubber cover for connector (silicon rubber)

ZS-33-F

ZS-33-D



Lead wire length 2 m

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*1	●	●	●	●
F02	G1/4*1	●	●	●	●
C6	Ø 6 One-touch fitting	●	●	●	●
C8	Ø 8 (5/16") One-touch fitting	●	●	●	●

*1 ISO 228-1 compliant

Options are shipped together with the product but do not come assembled.

Option 2

—	R	T
	Bracket (For the type without a flow adjustment valve) 25A-ZS-33-M	Panel mount adapter (For the type without a flow adjustment valve) ZS-33-J
None		

Piping Variations

	With One-touch fittings (C6, C8)		Female thread (01, 02, N01, N02, F01, F02)	
	Straight (—)	Bottom (L)	Straight (—)	Bottom (L)
Without flow adjustment valve (—)				

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

For 25A-PFM5



RoHS

Flow Sensor Monitor

25A-PFM3 Series



How to Order

Output specification

0	2 NPN outputs + 1 to 5 V output
1	2 NPN outputs + 4 to 20 mA output
2	2 NPN outputs + External input*1
3	2 PNP outputs + 1 to 5 V output
4	2 PNP outputs + 4 to 20 mA output
5	2 PNP outputs + External input*1

*1 User can select from accumulated value external reset, auto-shift and auto-shift zero.

Operation manual

—	With operation manual (Japanese and English)
N	None

Calibration certificate

—	None
A	With calibration certificate

25A-PFM3 00-M L

Series compatible
with secondary
batteries

Type

3	Remote display unit
---	---------------------

Input specification

Symbol	Content	Applicable remote type sensor unit
0	Voltage input	25A-PFM5□□-□-1-□
1	Current input	25A-PFM5□□-□-2-□

Unit specification

—	With unit switching function
M	Fixed SI unit*1

*1 Fixed unit: Instantaneous flow: l/min
Accumulated flow: L

Option 1

—	None
L	Power supply/Output connector Power supply/ Output connector ZS-28-A

* The cable does not come connected, but it is shipped together with the product.

Option 3

—	None
F	With sensor connector Sensor connector (e-con connector) ZS-28-C-1

* The connector does not come connected, but it is shipped together with the product.

Option 2

—	None
B	Panel mount adapter Panel Panel mount adapter
D	Panel mount adapter + Front protective cover Panel Front protective cover Panel mount adapter

* Options are shipped together with the product but do not come assembled.

Options/Part Nos.

Description	Part no.	Note
Power supply/Output connector (2 m)	ZS-28-A	
Sensor connector	ZS-28-C-1	1 pc.
Panel mount adapter	ZS-46-B	
Panel mount adapter + Front protective cover	ZS-46-D	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.



Directional
Control Valves

Air Cylinders

Related
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Switches

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Actuators

Auto
Switches

Digital Flow Switch

RoHS

25A-PFMB7 Series

How to Order



25A-PFMB7 **501** - **04** - **A** **W** - **M**

- Series compatible with secondary batteries

Rated flow range (Flow rate range)

501	5 to 500 l/min
102	10 to 1000 l/min
202	20 to 2000 l/min

Thread type

—	Rc
N	NPT
F	G *1

*1 ISO 228 compliant

Port size

	Port size	Rated flow range		
		501	102	202
04	1/2	●	●	—
06	3/4	—	—	●

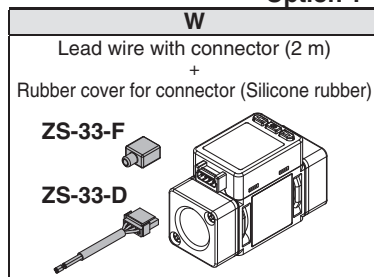
Output specification

	OUT1	OUT2	Applicable monitor unit model
A	NPN	NPN	—
B	PNP	PNP	—
C	NPN	Analogue 1 to 5 V	PFG300 series
D	NPN	Analogue 4 to 20 mA	PFG310 series
E *1	PNP	Analogue 1 to 5 V	PFG300 series
F *1	PNP	Analogue 4 to 20 mA	PFG310 series
G *1	NPN	External input *2	—
H *1	PNP	External input *2	—

*1 Made to order

*2 Accumulated flow value, peak/bottom flow value can be reset by external signal input.

Option 1



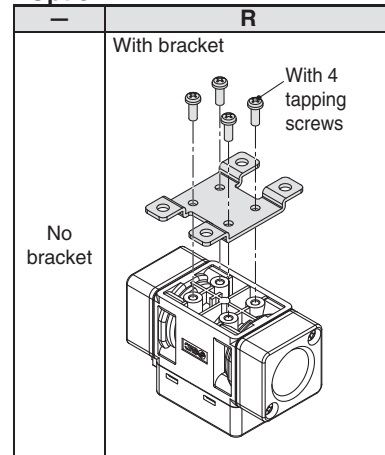
* When only optional parts are required, refer to Option 1/Part Nos. below.

Calibration certificate

—	None
A *1	With calibration certificate

*1 Made to order

Option 2



* Options are shipped together with the product but do not come assembled. When only optional parts are required, refer to Option 2/Part Nos. below.

Unit specification

M	SI unit only *1
—	Units selection function *2

*1 Fixed unit: Instantaneous flow: l/min
Accumulated flow: L

*2 The unit can be changed. Instantaneous flow: l/min ↔ cfm
Accumulated flow: L ↔ ft³

Option 1/Part Nos.

Option	Part no.	Qty.	Note
Lead wire with connector	ZS-33-D	1	Lead wire: 2 m
Rubber cover (Silicone rubber)	ZS-33-F	1	For connector

Option 2/Part Nos.

Option	Part no.	Qty.	Note
Bracket (for PFMB7201)	25A-ZS-33-M	1	With 2 tapping screws (3 x 6)
Panel mount adapter (for PFMB7201)	ZS-33-J	1	
Bracket (for PFMB7501/7102)	25A-ZS-42-C	1	With 4 tapping screws (3 x 6)
Bracket (for PFMB7202)	25A-ZS-42-D	1	With 4 tapping screws (3 x 6)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Integrated Display

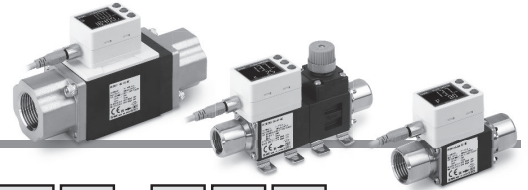


3-Colour Display Digital Flow Switch for Water

RoHS

25A-PF3W7-Z Series

How to Order



25A-PF3W7 04 **03** **-AT** **-M** **Z**

Series compatible with secondary batteries

1 2 3 4 5 6 7 8 9 10

1 Type

7 Integrated display

2 Rated flow range (Flow range)

Symbol	Rated flow range
04	0.5 to 4 l/min
20	2 to 16 l/min
40	5 to 40 l/min
11	10 to 100 l/min

3 Flow adjustment valve

Symbol	With/without flow adjustment valve	Rated flow range			
		04	20	40	11
—	None	●	●	●	●
S	Yes	●	●	●	—

* 100 l/min type with flow adjustment valve is not available.

* The flow adjustment valve of this product is not suitable for applications which require constant adjustment of flow rate.

4 Thread type

—	Rc
N	NPT
F	G*1

*1 ISO 228 compliant

5 Port size

Symbol	Port size	Rated flow range			
		04	20	40	11
03	3/8	●	●	—	—
04	1/2	—	●	●	—
06	3/4	—	—	●	●
10	1/1	—	—	—	●

7 Lead wire (Option)

—	N
With lead wire with M8 connector (3 m)	Without lead wire with M8 connector

6 Output specification/Temperature sensor

Symbol	OUT1	OUT2		Temperature sensor
		Flow rate	Temperature	
A	NPN	NPN	—	None
B	PNP	PNP	—	
C	NPN	Analogue 1 to 5 V	—	
D	NPN	Analogue 4 to 20 mA	—	
E	PNP	Analogue 1 to 5 V	—	
F	PNP	Analogue 4 to 20 mA	—	
G	NPN	External input*1	—	
H	PNP	External input*1	—	
AT	NPN	(NPN) \leftrightarrow *2	NPN	With temperature sensor
BT	PNP	(PNP) \leftrightarrow *2	PNP	
CT	NPN	(Analogue 1 to 5 V) \leftrightarrow *2	Analogue 1 to 5 V	
DT	NPN	(Analogue 4 to 20 mA) \leftrightarrow *2	Analogue 4 to 20 mA	
ET	PNP	(Analogue 1 to 5 V) \leftrightarrow *2	Analogue 1 to 5 V	
FT	PNP	(Analogue 4 to 20 mA) \leftrightarrow *2	Analogue 4 to 20 mA	

*1 External input: The accumulated value, peak value, and bottom value can be reset.

*2 For units with temperature sensor, only OUT2 can be set as either temperature output or flow rate output. Setting when shipped is for temperature output.

8 Integrated display/Unit specification

Symbol	Instantaneous flow	Accumulated flow	Temperature
M	l/min	L	°C
G	gal/min	gal	°C
F	gal/min	gal	°F
J	l/min	L	°F

* G, F, J: Made to order

Reference: 1 [l/min] \leftrightarrow 0.2642 [gal/min]

1 [gal/min] \leftrightarrow 3.785 [l/min]

°F = 9/5 °C + 32

9 Bracket (Option)

—	None
R	With bracket

10 Calibration certificate (Only for flow rate)

—	None
A	With calibration certificate

* Units with temperature sensor can only display the flow rate.

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

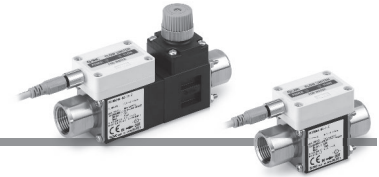
Description	Part no.	Qty.	Note
Bracket*1	25A-ZS-40-K	1	For PF3W704/720/504/520
	25A-ZS-40-L	1	For PF3W740/540
	25A-ZS-40-M	1	For PF3W711/511
Lead wire with M8 connector	25A-ZS-40-A	1	Lead wire length: 3 m

*1 For units with flow adjustment valve, 2 brackets are required.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

25A-PF3W5-Z Series



How to Order

25A-PF3W5 04 - 03 - 1T - - - Z

Series compatible with secondary batteries

1 2 3 4 5 6 7 8 9 10

1 Type

5	Remote sensor unit
---	--------------------

2 Rated flow range (Flow range)

Symbol	Rated flow range
04	0.5 to 4 l/min
20	2 to 16 l/min
40	5 to 40 l/min
11	10 to 100 l/min

3 Flow adjustment valve

Symbol	With/without flow adjustment valve	Rated flow range			
		04	20	40	11
—	None	●	●	●	●
S	Yes	●	●	●	—

* 100 l/min type with flow adjustment valve is not available.
 * The flow adjustment valve of this product is not suitable for applications which require constant adjustment of flow rate.

4 Thread type

—	Rc
N	NPT
F	G*1

*1 ISO 228 compliant

5 Port size

Symbol	Port size	Rated flow range			
		04	20	40	11
03	3/8	●	●	—	—
04	1/2	—	●	●	—
06	3/4	—	—	●	●
10	1/1	—	—	—	●

6 Output specification/Temperature sensor

Symbol	OUT1	OUT2	Temperature sensor
	Flow rate	Temperature	
1	Analogue 1 to 5 V	—	None
2	Analogue 4 to 20 mA	—	
1T	Analogue 1 to 5 V	Analogue 1 to 5 V	With temperature sensor

* To use in combination with remote monitor (PF3W3 series), select analogue output of 1 to 5 V of flow rate (output symbol "1" or "1T").

7 Lead wire (Option)

—	With lead wire with M8 connector (3 m)
N	Without lead wire with M8 connector

8 Remote sensor unit/Unit printed on label

Symbol	Instantaneous flow	Temperature
—	l/min	°C
G	l/min (gal/min)	°C/°F

* G: Made to order
 Reference: 1 [l/min] ↔ 0.2642 [gal/min]
 1 [gal/min] ↔ 3.785 [l/min]
 °F = 9/5 °C + 32

9 Bracket (Option)

—	None
R	With bracket

10 Calibration certificate (Only for flow rate)

—	None
A	With calibration certificate

* Units with temperature sensor can only display the flow rate.

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Qty.	Note
Bracket*1	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

*1 For units with flow adjustment valve, 2 brackets are required.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

3-colour display

Digital Flow Switch for Water

25A-PF3W Series

RoHS

How to Order

Remote sensor unit

Output specification/Temperature sensor

Symbol	OUT1	OUT2	Temperature sensor
	Flow rate	Temperature	
1	Analogue 1 to 5 V	—	None
2	Analogue 4 to 20 mA	—	
1T	Analogue 1 to 5 V	Analogue 1 to 5 V	With temperature sensor

* To use in combination with remote monitor (PF3W3 series), select analogue 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
—	l/min	°C
G	l/min (gal/min)	°C/°F

* 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

Integrated display

Series compatible with secondary batteries

25A-PF3W 5 04 — 03 - 1T — — —
25A-PF3W 7 04 — 03 - AT — M — —

Type

5	Remote sensor unit
7	Integrated display

Thread type

—	Rc
N	NPT
F	G

Port size

Symbol	Port size	Rated flow range					
		04	20	40	11	21	
03	3/8	●	●	—	—	—	
04	1/2	—	●	●	—	—	
06	3/4	—	—	●	●	—	
10	1 1/1	—	—	—	●	—	
12	1 1/4	—	—	—	—	●	
14	1 1/2	—	—	—	—	●	

Rated flow range (Flow range)

Symbol	Rated flow range
04	0.5 to 4 l/min
20	2 to 16 l/min
40	5 to 40 l/min
11	10 to 100 l/min
21	50 to 250 l/min

Flow adjustment valve

Symbol	With/without flow adjustment valve	Rated flow rate				
		04	20	40	11	21
—	None	●	●	●	●	●
S	Yes	●	●	●	—	—

* 100 and 250 l/min types with flow adjustment valves are not available.
* The flow adjustment valve of this product is not suitable for applications which require constant adjustment of flow rate.

* The 25A-series specifications and dimensions are the same as those of the standard model.
For details, refer to the Web Catalogue.

*1 External input: The accumulated value, peak value, and bottom value can be reset.

*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.

Symbol	OUT1		OUT2		Temperature sensor
	Flow rate	Flow rate	Temperature	Temperature	
A	NPN	NPN	—	—	None
B	PNP	PNP	—	—	
C	NPN	Analogue 1 to 5 V	—	—	
D	NPN	Analogue 4 to 20 mA	—	—	
E	PNP	Analogue 1 to 5 V	—	—	
F	PNP	Analogue 4 to 20 mA	—	—	
G	NPN	External input*1	—	—	
H	PNP	External input*1	—	—	
AT	NPN	(NPN)	↔*2	NPN	With temperature sensor
BT	PNP	(PNP)	↔*2	PNP	
CT	NPN	(Analogue 1 to 5 V)	↔*2	Analogue 1 to 5 V	
DT	NPN	(Analogue 4 to 20 mA)	↔*2	Analogue 4 to 20 mA	
ET	PNP	(Analogue 1 to 5 V)	↔*2	Analogue 1 to 5 V	
FT	PNP	(Analogue 4 to 20 mA)	↔*2	Analogue 4 to 20 mA	

Integrated display

Output specification/ Temperature sensor

Calibration certificate (Only flow sensor)

—	None
A	With calibration certificate

* Integrated display type with temperature sensor can only display flow rate.

Bracket (Option)

—	None
R	Bracket

* With bracket is not available for 250 l/min type.

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

* 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)

—	N
With lead wire with M8 connector (3 m)	Without lead wire with M8 connector

* The 25A-series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no	Qty.	Note
Bracket*1	25A-ZS-40-K	1	For PF3W704/720/504/520
	25A-ZS-40-L	1	For PF3W740/540
	25A-ZS-40-M	1	For PF3W711/511
Lead wire with M8 connector	25A-ZS-40-A	1	Lead wire length (3 m)

*1 For units with flow adjustment valve, 2 brackets are required.

3-colour display

Digital Flow Switch for PVC Piping

25A-PF3W Series

CE UK
CA

RoHS

How to Order

Remote sensor unit

Output specification

Symbol	OUT1
1	Analogue 1 to 5 V
2	Analogue 4 to 20 mA

* To use in combination with remote monitor (PF3W3 series), select analogue output of 1 to 5 V of flow rate (output symbol "1").



Remote sensor unit/Unit printed on label

Symbol	Instantaneous flow rate
—	l/min
G	l/min (gal/min)

* G: Made to Order

Reference: 1 [l/min] ↔ 0.2642 [gal/min]
1 [gal/min] ↔ 3.785 [l/min]

Calibration certificate (Only flow sensor)

—	None
A	With calibration certificate

Remote sensor unit

Integrated display

Series compatible with secondary batteries



25A - PF3W 5 11 - U 25 - 1 - - - -
25A - PF3W 7 11 - U 25 - A - M - - - -

Type

5	Remote sensor unit
7	Integrated display

Rated flow range (Flow range)

Symbol	Rated flow range
11	10 to 100 l/min
21	30 to 250 l/min

Connection type

U	PVC pipe
---	----------

PVC pipe O.D.

Symbol	Port size	Rated flow range		Pipe O.D.*1
		11	21	
25	25A	●	—	32 mm
30	30A	—	●	38 mm

*1 JIS K 6742 equivalent

Integrated display Output specification

Symbol	OUT1	OUT2
A	NPN	NPN
B	PNP	PNP
C	NPN	Analogue 1 to 5 V
D	NPN	Analogue 4 to 20 mA
E	PNP	Analogue 1 to 5 V
F	PNP	Analogue 4 to 20 mA
G	NPN	External input*1
H	PNP	External input*1

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

*1 External input: The accumulated value, peak value, and bottom value can be reset.

Bracket (Option)

—	None
R	Bracket

* With bracket is not available for 250 l/min type.

Integrated display/Unit specification

Symbol	Instantaneous flow rate	Accumulated flow
M	l/min	L
G	gal/min	gal

* G: Made to Order

Reference: 1 [l/min] ↔ 0.2642 [gal/min]
1 [gal/min] ↔ 3.785 [l/min]

Lead wire

—	N
With lead wire with M8 connector (3 m)	Without lead wire with M8 connector

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

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)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

For 25A-PF3W5(-Z)

3-Colour Display



RoHS

Digital Flow Monitor for Water

25A-PF3W Series



How to Order

25A-PF3W 30 A **- M V C**

Series compatible with secondary batteries

Type

3 Remote monitor unit

For remote sensor units, select the analogue output 1 to 5 V type.
Applicable sensors: PF3W5□□-□□-1(T)

Output specification

Symbol	OUT1	OUT2
A	NPN	NPN
B	PNP	PNP
C	NPN	Analogue 1 to 5 V
D	NPN	Analogue 4 to 20 mA
E	PNP	Analogue 1 to 5 V
F	PNP	Analogue 4 to 20 mA
G	NPN	External input
H	PNP	External input
J	Analogue 1 to 5 V	Analogue 1 to 5 V
K	Analogue 4 to 20 mA	Analogue 4 to 20 mA

In combination with remote sensor unit with temperature sensor, only OUT2 can be set for temperature sensor output.

Lead wire

—	With power supply/output connection lead wire (2 m)
N	Without power supply/output connection lead wire

The lead wire does not come connected, but it is shipped together with the product.

Remote monitor unit/Unit specification

Symbol	Instantaneous flow	Accumulated flow	Temperature
M	l/min	L	°C
G	gal/min	gal	°C
F	gal/min	gal	°F
J	l/min	L	°F

* 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

Calibration certificate (Only flow monitor)

—	None
A	With calibration certificate

Option 2

—	None
C	Sensor connector (1 pc.)

The connector does not come connected, but it is shipped together with the product.

Option 1

—	None
T	Panel mount adapter
V	Front protective cover + Panel mount adapter

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	25A-ZS-26-B	With waterproof seal and screws
Front protective cover + Panel mount adapter	25A-ZS-26-C	With waterproof seal and screws
Front protective cover only	ZS-26-01	Separately order panel mount adapter, etc.
Power supply/output connection lead wire	ZS-40-W	Lead wire length: 2 m
Sensor connector (e-con)	ZS-28-CA-4	1 pc.
Lead wire with connector for copying	ZS-40-Y	Connect up to 10 copy destination units

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

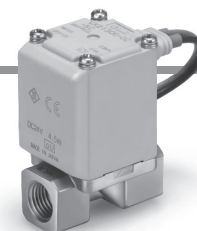
Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Direct Operated 2-Port Solenoid Valve 25A-VX21/22/23 Series

 For Air Single Unit



How to Order (Single Unit)



Common Specifications

Valve type	N.C.
Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Size/Valve type			Body material/Port size/Orifice diameter		
Symbol	Size	Valve type	Symbol	Body material	Port size / Orifice diameter
1	Size 1	Single unit N.C.	A	Aluminium	1/8
			B		
			C		
			D		1/4
			E		
			F		
			H	Resin	Ø 6 One-touch fitting
			J		
			K		
			L		Ø 8 One-touch fitting
			M		
			N		
2	Size 2	Single unit N.C.	A	Aluminium	1/4
			B		
			D		3/8
			E		
			H	Resin	Ø 8 One-touch fitting
			J		
			L		Ø 10 One-touch fitting
			M		
3	Size 3	Single unit N.C.	A	Aluminium	1/4
			B		
			C		
			D		
			E		3/8
			F		
			G		
			H		
			J	Resin	Ø 10 One-touch fitting
			K		
			L		
			M		
			N		Ø 12 One-touch fitting

For other special options, refer to the standard products.

Special voltage	24 VAC	Low concentration ozone resistant (Seal material: FKM) Seal material: EPDM Oil-free G thread NPT thread With bracket (Aluminium body only) Mounting holes on the bottom side of the body (Aluminium body only) Special electrical entry direction
	48 VAC	
	220 VAC	
	240 VAC	
	12 VDC	
DIN terminal with light		
Conduit terminal with light		
Without DIN connector		

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product.
Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

Voltage/Electrical entry

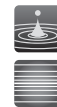
Symbol	Voltage	Electrical entry
A	24 VDC	Grommet
	B	Grommet (With surge voltage suppressor)
	C	
	D	
E	100 VAC	DIN terminal (With surge voltage suppressor)
	110 VAC	
	200 VAC	
	230 VAC	
F	24 VDC	Conduit terminal (With surge voltage suppressor)
	G	
	H	
	J	
K	110 VAC	Conduit (With surge voltage suppressor)
	200 VAC	
	230 VAC	
	24 VDC	
L	100 VAC	Flat terminal
	110 VAC	
	200 VAC	
	230 VAC	
M	24 VDC	Other voltages and electrical options
	N	
	P	
	Q	
R	24 VDC	Other voltages and electrical options
	S	
	T	
	U	
V	100 VAC	Other voltages and electrical options
	110 VAC	
	200 VAC	
	230 VAC	
W	24 VDC	Other voltages and electrical options
	Y	
	Z	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Direct Operated 2-Port Solenoid Valve

25A-VX21/22/23 Series



For Water Single Unit

For Medium Vacuum Single Unit



How to Order (Single Unit)

25A - VX2 1 4 H A

Series compatible with
secondary batteries

Fluid

2	For water
4	For medium vacuum

Size/Valve type

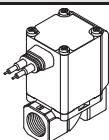
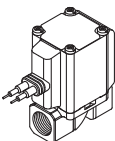
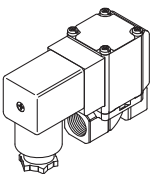
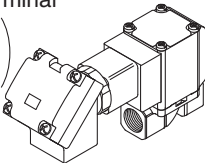
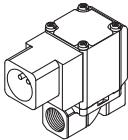
Symbol	Size	Valve type	Symbol	Body material	Port size	Orifice diameter
1	Size 1	Single unit N.C.	H	Stainless steel	1/8	2
			J			3
			K			5
			L		1/4	2
			M			3
			N			5
2	Size 2	Single unit N.C.	H	Stainless steel	1/4	4
			J		3/8	7
			L			4
			M			7
3	Size 3	Single unit N.C.	H	Stainless steel	1/4	5
			J			8
			K			10
			L		3/8	5
			M			8
			N			10
			P		1/2	10

Body material/Port size/Orifice diameter

Common Specifications

Valve type	N.C.
Seal material	NBR (For water) FKM (For medium vacuum)
Coil insulation type	Class B
Thread type	Rc

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	
Z	Other voltages and electrical options	

For other special options, refer to the standard products.

Special voltage	24 VAC	Applicable to deionized water (Seal material: FKM) Seal material: EPDM Oil-free G thread NPT thread With bracket Mounting holes on the bottom side of the body Special electrical entry direction
	48 VAC	
	220 VAC	
	240 VAC	
	12 VDC	
DIN terminal with light		
Conduit terminal with light		
Without DIN connector		

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product.
Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Pilot Operated 2-Port Solenoid Valve For Air

25A-VXD Series



How to Order

25A - VXD2 3 0 A A

Series compatible with
secondary batteries

Fluid

0 For Air

Size – Valve type

Symbol	Size	Valve type
3	8A	N.C.
A	10A	N.O.
	15A	N.O.
4	10A	N.C.
B	15A	N.O.
5	20A	N.C.
C		N.O.
6	25A	N.C.
D		N.O.

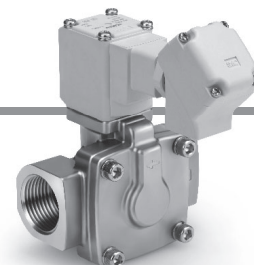
Body material/Port size/Orifice diameter

Symbol	Body material	Port size	Orifice diameter
A	Aluminium	1/4	10
B		3/8	
C		1/2	
J	Stainless steel	3/8	15
K		1/2	
M	Stainless steel	3/4	20
P	Stainless steel	1	25

All other special options are the
same as those of the standard model.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Low concentration ozone resistant (Seal material: FKM)	
Seal material: EPDM	
Oil-free	
G thread	
NPT thread	
With bracket	
Special electrical entry direction	

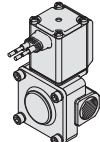
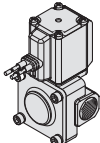
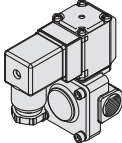
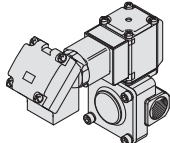
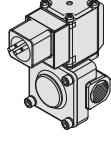
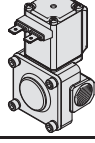
* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

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	DIN terminal (With surge voltage suppressor) 
G	24 VDC	
H	100 VAC	
J	110 VAC	
K	200 VAC	
L	230 VAC	Conduit terminal (With surge voltage suppressor) 
M	24 VDC	
N	100 VAC	
P	110 VAC	
Q	200 VAC	Conduit (With surge voltage suppressor) 
R	230 VAC	
S	24 VDC	
T	100 VAC	
U	110 VAC	Flat terminal 
V	200 VAC	
W	230 VAC	
Y	24 VDC	
Z	Other special options	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Pilot Operated 2-Port Solenoid Valve For Water

25A-VXD Series



How to Order

25A - VXD2 3 2 D A

Series compatible with
secondary batteries

Fluid

2 For Water

Size – Valve type

Symbol	Size	Valve type
3	8A	N.C.
A	10A	N.O.
	15A	N.O.
4	10A	N.C.
B	15A	N.O.
5	20A	N.C.
C	20A	N.O.
6	25A	N.C.
D	25A	N.O.

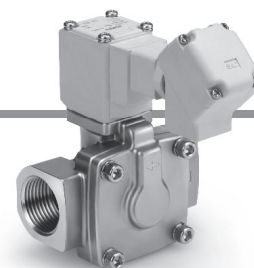
Body material/Port size/Orifice diameter

Symbol	Body material	Port size	Orifice diameter
D	Stainless steel	1/4	10
E		3/8	
F		1/2	
J	Stainless steel	3/8	15
K		1/2	
M	Stainless steel	3/4	20
P	Stainless steel	1	25

All other special options are the
same as those of the standard model.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Applicable to deionized water (Seal material: FKM)	
Seal material: EPDM	
Oil-free	
G thread	
NPT thread	
With bracket	
Special electrical entry direction	

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

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	Flat terminal
Z	Other voltages and electrical option	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Zero Differential Pressure Type Pilot Operated 2-Port Solenoid Valve/For Air

25A-VXZ Series



How to Order (Single Unit)

25A - VXZ2 3 0 A A

Series compatible with
secondary batteries

Fluid

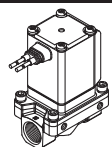
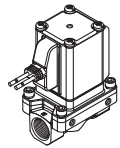
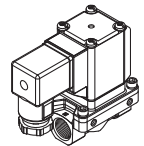
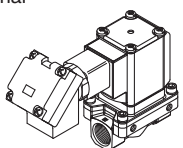
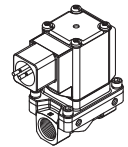
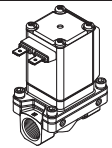
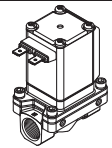
0 For Air

Size/Valve type

Symbol	Body size	Valve type		Symbol	Body material	Port size	Orifice diameter
3	10A	N.C.		A	Aluminium	1/4	10
A		N.O.		B		3/8	
4	15A	N.C.		G	Stainless steel	1/2	15
B		N.O.					
5	20A	N.C.		J	Stainless steel	3/4	20
C		N.O.					
6	25A	N.C.		L	Stainless steel	1	25
D		N.O.					

Body material/Port size/Orifice diameter

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	DIN terminal (With surge voltage suppressor) 
G	24 VDC	
H	100 VAC	
J	110 VAC	
K	200 VAC	Conduit terminal (With surge voltage suppressor) 
L	230 VAC	
M	24 VDC	
N	100 VAC	
P	110 VAC	Conduit (With surge voltage suppressor) 
Q	200 VAC	
R	230 VAC	
S	24 VDC	
T	100 VAC	Flat terminal 
U	110 VAC	
V	200 VAC	
W	230 VAC	
Y	24 VDC	Flat terminal 
Z	Other voltages	

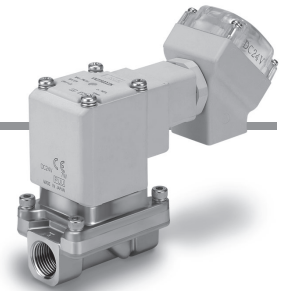
All other special options are the same as those of the standard model.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Low concentration ozone resistant (Seal material: FKM)	
Seal material: EPDM	
Oil-free	
G thread	
NPT thread	
With bracket (Standard for resin body)	
Special electrical entry direction	

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Zero Differential Pressure Type Pilot Operated 2-Port Solenoid Valve/For Water

25A-VXZ Series



How to Order (Single Unit)

25A - VXZ2 3 2 C A

Series compatible with
secondary batteries

Fluid

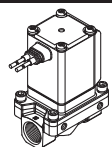
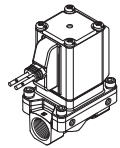
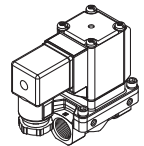
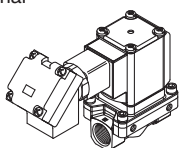
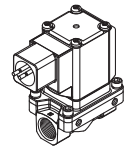
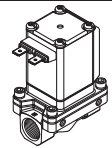
2 For Water

Size/Valve type

Symbol	Body size	Valve type	Symbol	Body material	Port size	Orifice diameter
3	10A	N.C.	C	Stainless steel	1/4	10
A		N.O.	D		3/8	
4	15A	N.C.	G	Stainless steel	1/2	15
B		N.O.				
5	20A	N.C.	J	Stainless steel	3/4	20
C		N.O.				
6	25A	N.C.	L	Stainless steel	1	25
D		N.O.				

Body material/Port size/Orifice diameter

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	Flat terminal 
Z	Other voltages	

All other special options are the same as those of the standard model.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Applicable to deionized water (Seal material: FKM)	
Seal material: EPDM	
Oil-free	
G thread	
NPT thread	
With bracket	
Special electrical entry direction	

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.



Directional
Control Valves

Air Cylinders

Related
Products

Rotary
Actuators

Air Grippers

Vacuum
Equipment

Air Preparation
Equipment

Clean
Air Filters

Modular F.R.L./
Pressure Control
Equipment

Flow Control
Equipment/
Fittings

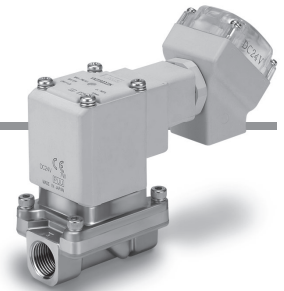
Detection
Switches

Fluid Control
Equipment

Process Gas
Equipment

Electric
Actuators

Auto
Switches



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Diaphragm Valve for Ultra High Purity Air Operated Type

RoHS

AZ3542 & 4542□25A Series

- Suitable for UHP gas supply line
- Body material: 316L SS
- Pneumatically actuated normally closed

How to Order



AZ **3** 542 S **2P** (Inlet) (Outlet) **MV4 MV4** 25A

Size

Code	Cv
3	0.29
4	0.5

Model

Code	Status	Maximum operating pressure
542	Normally closed (N.C.)	125 psig (0.9 MPa)

Material

Code	Body material
S	316L SS

Ports

Code	Ports	Connection
2P	2 ports	Machined
2PW		Welded

- Series compatible with secondary batteries

Connections

Code	Connections	Size Port	AZ3		AZ4	
			2P	2PW	2P	2PW
MV4	1/4 inch face seal (Male) *1)		●	●	●	●
FV4	1/4 inch face seal (Female)			●		●
TW4	1/4 inch tube weld		●	●		
MV6	3/8 inch face seal (Male) *1)				●	●
FV6	3/8 inch face seal (Female)					●
TW6	3/8 inch tube weld				●	●
TW8	1/2 inch tube weld				●	

●: Only available with the same type fittings inlet and outlet.

* 1) Fixed fitting (no rotating nut)

Specifications

Operating Parameters	AZ3542□25A	AZ4542□25A
Weight	0.26 kg *1)	

*1) Weight for AZ3542S2PMV4MV4 including individual boxed weight. It may vary depending on connections or options.

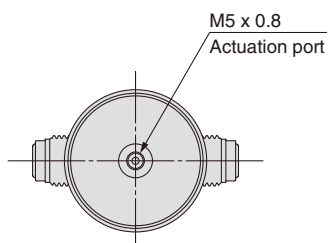
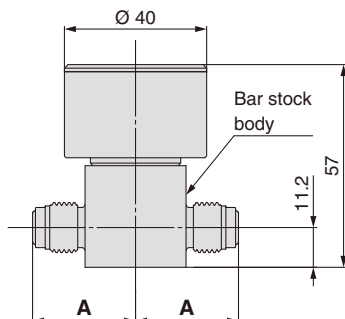
* Some parts have sizes and shapes that are different from the standard products.

For details, refer to the **Web Catalogue**.

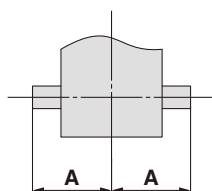
Dimensions

AZ3542 & 4542

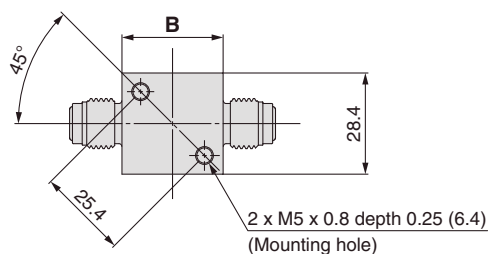
Ports: 2P (Machined)



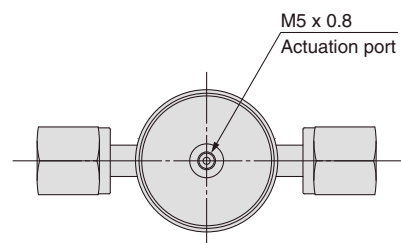
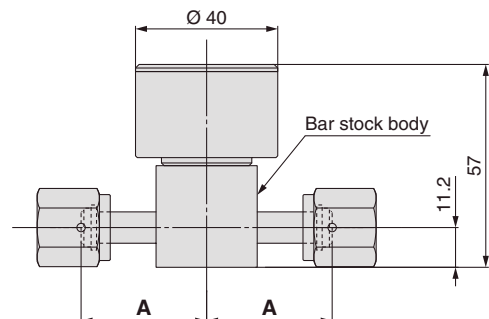
Connections: MV □



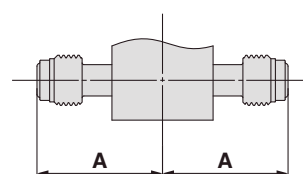
Connections: TW □



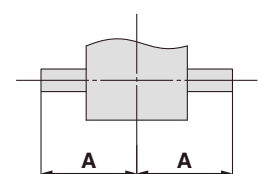
Ports: 2PW (Welded)



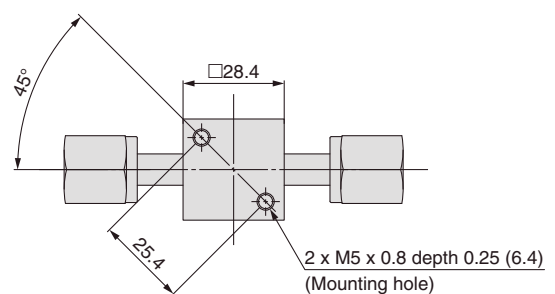
Connections: FV □



Connections: MV □



Connections: TW □



Ports	Connections	A	B
2P (Machined)	MV4	1.14 (29.0)	1.12 sq. (28.4)
	TW4	0.875 (22.2)	
	MV6	1.5 (38.1)	1.48 sq. (37.6)
	TW6	0.875 (22.2)	1.12 sq. (28.4)
	TW8	1.125 (28.6)	

Ports	Connections	A
2PW (Welded)	MV4	1.39 (35.3)
	FV4	
	TW4	1.06 (26.9)
	MV6	1.93 (49.0)
	FV6	
	TW6	1.325 (33.7)

Diaphragm Valves for General Applications

Air Operated Type

RoHS

AK3542 & 4542 25A Series

- Body material: 316 SS
- Normally closed



How to Order

AK **3** 542 S 2P **4T** **4T** 25A

(Inlet) (Outlet)

Size

Code	Cv
3	0.29
4	0.5

Model

Code	Status	Maximum operating pressure
542	Normally closed (N.C.)	125 psig (0.9 MPa)

Material

Code	Body material
S	316 SS

Ports

Code	Ports
2P	2 ports

- Series compatible with secondary batteries

Connections

Code	Connections	AK3	AK4
4T	1/4 inch compression	●	—
4BR	Rc 1/4		
4BRN	R 1/4		
4	NPT 1/4 female		
4N	NPT 1/4 male	—	●
6T	3/8 inch compression		
6BR	Rc 3/8		
6BRN	R 3/8		
6	NPT 3/8 female	—	●
6N	NPT 3/8 male		

Note) Only available with same type fittings inlet and outlet.

* Specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Electric Actuator/Slider Type

Ball Screw Drive

Secondary Battery Compatible

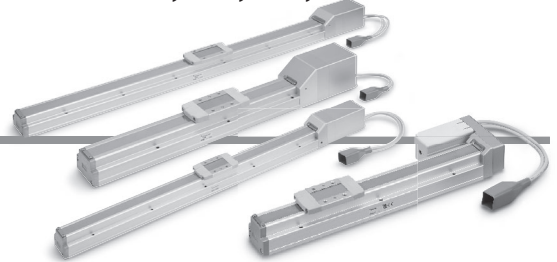
CE UK CA c RoHS US
Refer to the "CE/UKCA/UL-compliance List" in the Web Catalogue.

25A-LEFS Series LEFS16, 25, 32, 40

RoHS

Refer to the Web Catalogue for model selection.

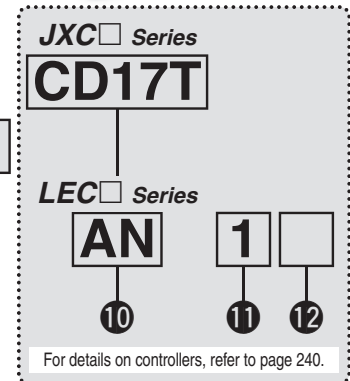
How to Order



25A-LEFS **H** **25** **R** **B** - **200** **K** - **S1**

Series compatible with secondary batteries

1 2 3 4 5 6 7 8 9



1 Accuracy

—	Basic type
H	High-precision type

2 Size

16
25
32
40

3 Motor mounting position

—	In-line
R	Right side parallel
L	Left side parallel

4 Motor type

Symbol	Type	Applicable size				Compatible controllers/drivers
		LEFS16	LEFS25	LEFS32	LEFS40	
—	Step motor (Servo/24 VDC)	●	●	●	●	JXCE1 JXC91 JXCP1 JXCD1 JXCL1 JXCM1 JXC51 JXC61
A	Servo motor (24 VDC)	●	●	—	—	LECA6

5 Lead [mm]

Symbol	LEFS16	LEFS25	LEFS32	LEFS40
A	10	12	16	20
B	5	6	8	10

6 Stroke*1 [mm]

Stroke	Size	Note
		Applicable stroke
50 to 500	16	50, 100, 150, 200, 250, 300, 350, 400, 450, 500
50 to 600	25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600
50 to 800	32	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800
150 to 1000	40	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000

7 Motor option

—	Without option
B	With lock

8 Positioning pin hole

—	Housing B bottom*2	
K	Body bottom 2 locations	

9 Actuator cable type/length*4

Standard cable [m]		Robotic cable [m]			
—	None	R1	1.5	RA	10*3
S1	1.5*6	R3	3	RB	15*3
S3	3*6	R5	5	RC	20*3
S5	5*6	R8	8*3		

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalogue.

Electric Actuator/Slider Type Ball Screw Drive **25A-LEFS Series**

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Secondary Battery Compatible

JXC Series (For details, refer to page 241.)

10 Controller

—	Without controller
C□1□□	With controller

C D 1 7 T

Interface

(Communication protocol/Input/Output)	
E	EtherCAT
9	EtherNet/IP™
P	PROFINET
D	DeviceNet®
L	IO-Link
M	CC-Link Ver. 1.10
5	Parallel input (NPN)
6	Parallel input (PNP)

Mounting

7	Screw mounting
8*10	DIN rail

For single axis



Communication plug connector, I/O cable*11

Symbol	Type	Applicable interface
—	Without accessory	—
S	Straight type communication plug connector	DeviceNet®
T	T-branch type communication plug connector	CC-Link Ver. 1.10
1	I/O cable (1.5 m)	Parallel input (NPN) Parallel input (PNP)
3	I/O cable (3 m)	
5	I/O cable (5 m)	

LEC Series (For details, refer to page 241.)

AN 1 □

10 Controller/Driver type*5

—	Without controller/driver	
6N	LECA6	NPN
6P	(Step data input type)	PNP
1N	LECP1*6	NPN
1P	(Programless type)	PNP
AN	LECPA*6 *7	NPN
AP	(Pulse input type)	PNP

11 I/O cable length*8

—	Without cable (Without communication plug connector)
1	1.5 m
3	3 m*9
5	5 m*9

12 Controller/Driver mounting

—	Screw mounting
D	DIN rail*10



- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 Refer to the body mounting example in the **Web Catalogue** for the mounting method.
- *3 Produced upon receipt of order (Robotic cable only)
- *4 The standard cable should only be used on fixed parts.
For use on moving parts, select the robotic cable.
Refer to the **Web Catalogue** if only the actuator cable is required.
- *5 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.
- *6 Only available for the motor type "Step motor"
- *7 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) separately. (Refer to the **Web Catalogue**.)

- *8 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. If an I/O cable is required, order the cable separately for each series. (For details, refer to the **Web Catalogue**.)
- *9 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
- *10 The DIN rail is not included. It must be ordered separately.
- *11 Select "—" for anything other than DeviceNet®, CC-Link, or parallel input.
Select "—", "S", or "T" for DeviceNet® or CC-Link.
Select "—", "1", "3", or "5" for parallel input.

⚠ Caution

[CE/UKCA-compliant products]

- ① EMC compliance was tested by combining the electric actuator LEF series and the controller LEC/JXC series.

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with 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 compliance with the EMC directive for the machinery and equipment as a whole.

- ② For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the **Web Catalogue** for the noise filter set. Refer to the LEC series Operation Manual for installation.

[UL-compliant products (For the LEC series)]

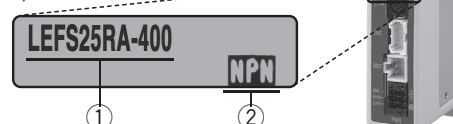
When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and actuator is correct.

<Check the following before use.>

- ① Check the actuator label for the model number (after "25A-"). This number should match that of the controller/driver.
- ② Check that the Parallel I/O configuration matches (NPN or PNP).



* Refer to the Operation Manual for using the products. Please download it via our website: <https://www.smc.eu>





25A-LEFS Series







Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Secondary Battery Compatible

Compatible Controllers/Drivers

Type	Step data input type	Step data input type	Programless type	Pulse input type
				
Series	JXC51 JXC61	LECA6	LECP1	LECPA
Features	Parallel I/O	Parallel I/O	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)	Step motor (Servo/24 VDC)	
Max. number of step data	64 points		14 points	—
Power supply voltage	24 VDC			

Type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet® direct input type	IO-Link direct input type	CC-Link direct input type
						
Series	JXCE1	JXC91	JXCP1	JXCD1	JXCL1	JXCM1
Features	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet® direct input	IO-Link direct input	CC-Link direct input
Compatible motor	Step motor (Servo/24 VDC)					
Max. number of step data	64 points					
Power supply voltage	24 VDC					

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Electric Actuator/Slider Type

Ball Screw Drive

Secondary Battery Compatible

25A-LEFS Series

LEFS25, 32, 40

The LECSB-S, LECS-C, and LECS-S electric actuator drivers are to be discontinued. The LECSB-T, LECS-C-T, and LECS-T drivers are available as substitutes. In the product number, select T 6 instead of S 6, T 7 instead of S 7, or T 8 instead of S 8 for the **Motor type**, and select B 2 instead of B 1, C 2 instead of C 1, or S 2 instead of S 1 for the **Driver type**.

Refer to the **Web Catalogue** for model selection.

LECY□ Series ▶ p. 244

How to Order

CE UK CA cULus RoHS

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalogue**.

25A-LEFS **H** **32** **R** **S3** **B** - **200** **K** - **S** **2** **A2**

Series compatible with secondary batteries

1 Accuracy

—	Basic type
H	High-precision type

2 Size

25
32
40

3 Motor mounting position

—	In-line
R	Right side parallel
L	Left side parallel

5 Lead [mm]

Symbol	25A-LEFS25	25A-LEFS32	25A-LEFS40
A	12	16	20
B	6	8	10

6 Stroke [mm]

50	50
to	to
1000	1000

7 Motor option

—	Without option
B	With lock

* For details, refer to the applicable stroke table below.

4 Motor type

Symbol	Type	Output [W]	Actuator size	Compatible drivers	UL-compliant
S2 *1	AC servo motor	100	25	LECSA□-S1	●
S3	(Incremental encoder)	200	32	LECSA□-S3	●
S4		400	40	LECSA2-S4	●
S6 *1	AC servo motor (Absolute encoder)	100	25	LECSB□-S5 LECS-C□-S5 LECSS□-S5	—
S7		200	32	LECSB□-S7 LECS-C□-S7 LECSS□-S7	—
S8		400	40	LECSB2-S8 LECS-C2-S8 LECSS2-S8	—
T6 *2	AC servo motor (Absolute encoder)	100	25	LECSB2-T5 LECS-C2-T5 LECSN2-T5-□ LECSS2-T5	●
T7		200	32	LECSB2-T7 LECS-C2-T7 LECSN2-T7-□ LECSS2-T7	●
T8		400	40	LECSB2-T8 LECS-C2-T8 LECSN2-T8-□ LECSS2-T8	●

*1 For motor type S 2 and S 6, the compatible driver part number suffixes are S1 and S5 respectively.

*2 For motor type T6, the compatible driver part number is LECS□2-T5.

8 Positioning pin hole

—	Housing B bottom*1	
K	Body bottom 2 locations	

*1 Refer to the body mounting example for the mounting method. (Refer to the **Web Catalogue**.)**9 Cable type***1 *2

—	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)

*2 Standard cable entry direction is
· Parallel: (A) Axis side
· In-line: (B) Counter axis side**10 Cable length***1 [m]

—	Without cable
2	2
5	5
A	10

*1 The length of the encoder, motor, and lock cables are the same.

12 I/O cable length [m]*3

—	Without cable
H	Without cable (Connector only)
1	1.5

*3 When "—: Without driver" is selected for the driver type, only "—: Without cable" can be selected. If an I/O cable is required, refer to the "Options" page in the **Web Catalogue**.**11 Driver type**

	Compatible drivers	Power supply voltage [V]	Size		
	Without driver		25	32	40
A1	LECSA1-S□	100 to 120	●	●	—
A2	LECSA2-S□	200 to 230	●	●	●
B1	LECSB1-S□	100 to 120	●	●	—
B2	LECSB2-S□	200 to 230	●	●	●
	LECSB2-T□	200 to 240	●	●	●
C1	LECS-C1-S□	100 to 120	●	●	—
C2	LECS-C2-S□	200 to 230	●	●	●
	LECS-C2-T□	200 to 230	●	●	●
S1	LECSS1-S□	100 to 120	●	●	—
S2	LECSS2-S□	200 to 230	●	●	●
	LECSS2-T□	200 to 240	●	●	●
N2	LECSN2-T□	200 to 240	●	●	●
92	LECSN2-T□-9	200 to 240	●	●	●
E2	LECSN2-T□-E	200 to 240	●	●	●
P2	LECSN2-T□-P	200 to 240	●	●	●

* When a driver type is selected, a cable is included. Select the cable type and cable length.
Example) S2S2: Standard cable (2 m) + Driver (LECSS2)

S2: Standard cable (2 m)

—: Without cable and driver

Applicable Stroke Table

Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
25A-LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	50 to 600
25A-LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	50 to 800
25A-LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	150 to 1000

* Please contact SMC for non-standard strokes as they are produced as special orders.

Compatible Drivers*1

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET III type	Pulse input type	CC-Link direct input type	SSCNET III/H type	Network card type
Series	LECSA	LECSB	LECS-C	LECSS	LECSB-T	LECS-C-T	LECSS-T	LECSN-T
Number of point tables*2	Up to 7	—	Up to 255 (2 stations occupied)	—	Up to 255	Up to 255 (2 stations occupied)	—	Up to 255
Pulse input	○	○	—	—	○	—	—	—
Applicable network	—	—	CC-Link	SSCNET3	—	CC-Link	SSCNET #/H	PROFINET EtherCAT EtherNet/IP™
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication	RS422 communication	USB communication	USB communication	RS422 communication	USB communication	USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz)							
	200 to 240 VAC (50/60 Hz)				200 to 230 VAC (50/60 Hz)			

*1 Copper and zinc materials are used for the motors, cables, controllers/drivers. *2 The LECSN-T only supports PROFINET and EtherCAT.

Electric Actuator/Slider Type

Ball Screw Drive

Secondary Battery Compatible

25A-LEFS Series

LEFS25, 32, 40

Refer to the **Web Catalogue** for model selection.

LECY□ Series ▶ p. 243

How to Order

Refer to the "CE/UKCA/
UL-compliance List" in
the **Web Catalogue**.
25A-LEFS **H** **32** **R** **V7** **B** - **200** **K** - **S** **2** **M2**
Series compatible with
secondary batteries**1 Accuracy**

—	Basic type
H	High-precision type

2 Size

25
32
40

3 Motor mounting position

—	In-line
R	Right side parallel
L	Left side parallel

5 Lead [mm]

Symbol	LEFS25	LEFS32	LEFS40
A	12	16	20
B	6	8	10

6 Stroke [mm]

50	50
to	to
1000	1000

* Refer to the applicable
stroke table.**7 Motor option**

—	Without option
B	With lock

4 Motor type

Symbol	Type	Output [W]	Size	Compatible drivers
V6 *1	AC servo motor	100	25	LECYM2-V5/LECYU2-V5
V7	(Absolute encoder)	200	32	LECYM2-V7/LECYU2-V7
V8		400	40	LECYM2-V8/LECYU2-V8

*1 For motor type V6, the compatible driver part number
suffix is V5.**8 Positioning pin hole**

—	Housing B bottom*1	
K	Body bottom 2 locations	

*1 Refer to the body mounting example in the
Web Catalogue for the mounting method.**9 Cable type***1 *2

—	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*1 A motor cable and encoder cable
are included with the product. (A
lock cable is also included if motor
option "B: With lock" is selected.)*2 Standard cable entry direction is
· Parallel: (A) Axis side
· In-line: (B) Counter axis side**10 Cable length***1 [m]

—	Without cable
3	3
5	5
A	10
C	20

*1 The length of the
encoder, motor, and
lock cables are the
same.**11 Driver type**

	Compatible drivers	Power supply voltage [V]
—	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

12 I/O cable length [m]*3

—	Without cable
H	Without cable (Connector only)
1	1.5

*3 When "—: Without driver" is
selected for the driver type, only
"—: Without cable" can be
selected.
Refer to the **Web Catalogue** if an
I/O cable is required.

Applicable Stroke Table

Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
Model																					
25A-LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	50 to 600
25A-LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	50 to 800
25A-LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	150 to 1000

* Please contact SMC for non-standard strokes as they are produced as special orders.

* The 25A- series specifications and dimensions
are the same as those of the standard model.For details, refer to the **Web Catalogue**.

Compatible Drivers

Driver type	MECHATROLINK-II type	MECHATROLINK-III type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-II	MECHATROLINK-III
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	

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

Electric Actuator/High Rigidity Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

The LECSB-S, LECS-C-S, and LECS-S electric actuator drivers are to be discontinued. The LECSB-T, LECS-C-T, and LECS-S-T drivers are available as substitutes. In the product number, select T6 instead of S6, or T7 instead of S7 for the **Motor type**, and select B2 instead of B1, C2 instead of C1, or S2 instead of S1 for the **Driver type**.

Refer to the **Web Catalogue** for model selection.

LECY□ Series ▶ p. 246

How to Order

CE UK CA c UL us RoHS

Refer to the "CE/UKCA/UL-compliance List" in the Web Catalogue.

25A-LEJS **H** **40** **S2** **A** - **500** - - - -

1 2 3 4 5 6 7 8 9 10

Series compatible with secondary batteries

1 Accuracy

—	Basic type
H	High-precision type

2 Size

40
63

5 Stroke [mm]*3

200
to
1500

*3 Refer to the applicable stroke table for details.

6 Motor option

—	Without option
B	With lock

3 Motor type

Symbol	Type	Output [W]	Actuator size	Compatible*3 drivers	UL-compliant
S2 *1	AC servo motor (Incremental encoder)	100	40	LECSA□-S1	●
S3	AC servo motor (Incremental encoder)	200	63	LECSA□-S3	●
S6 *1	AC servo motor (Absolute encoder)	100	40	LECSB□-S5 LECS-C□-S5 LECSS□-S5	—
S7	AC servo motor (Absolute encoder)	200	63	LECSB□-S7 LECS-C□-S7 LECSS□-S7	—
T6 *2	AC servo motor (Absolute encoder)	100	40	LECSB2-T5 LECS-C2-T5 LECSN2-T5-□	—
				LECSS2-T5	●
T7				LECSB2-T7 LECS-C2-T7 LECSN2-T7-□	—
		200	63	LECSS2-T7	●

*1 For motor type S2 and S6, the compatible driver part number suffixes are S1 and S5 respectively.

*2 For motor type T6, the compatible driver part number is LECS□2-T5.

7 Cable type*5, *6, *7

—	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*6 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)

*7 Standard cable entry direction is "(A) Axis side."

8 Cable length [m]*5, *8

—	Without cable
2	2
5	5
A	10









*8 The length of the motor, encoder, and lock cables are the same.

Applicable Stroke Table*4

Model \ Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40	●	●	●	●	●	●	●	●	●	●	—
25A-LEJS63	—	●	●	●	●	●	●	●	●	●	●

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

Compatible Drivers*10

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET III type	Pulse input type	CC-Link direct input type	SSCNET III type	Network card type
								
Series	LECSA	LECSB	LECS-C	LECSS	LECSB-T	LECS-C-T	LECSS-T	LECSN-T
Number of point tables*11	Up to 7	—	Up to 255	—	Up to 255	Up to 255 (2 stations occupied)	—	Up to 255
Pulse input	○	○	—	—	○	—	—	—
Applicable network	—	—	CC-Link	SSCNET III	—	CC-Link	SSCNET #/H	PROFINET EtherCAT EtherNet/IP™
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication	USB communication	USB communication, RS422 communication	USB communication	USB communication	USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz)			200 to 240 VAC (50/60 Hz)			200 to 240 VAC (50/60 Hz)	

*10 Copper and zinc materials are used for the motors, cables, controllers/drivers. *11 The LECSN-T only supports PROFINET and EtherCAT.

Electric Actuator/High Rigidity Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEJS Series LEJS40, 63



Refer to the "CE/UKCA/UL-compliance List" in the Web Catalogue.

RoHS

Refer to the **Web Catalogue** for model selection.

LECY□ Series ▶ p. 245

How to Order

25A-LEJS **H** **40** **V6** **A** - **500** □ - □ □ □ □

Series compatible with secondary batteries

1 Accuracy

—	Basic type
H	High-precision type

2 Size

40
63

3 Motor type *1

Symbol	Type	Output [W]	Actuator size	Compatible drivers
V6	AC servo motor (Absolute encoder)	100	40	LECYM2-V5 LECYU2-V5
V7	AC servo motor (Absolute encoder)	200	63	LECYM2-V7 LECYU2-V7

*1 For motor type V6, the compatible driver part number suffix is V5.

4 Lead [mm]

Symbol	25A-LEJS40	25A-LEJS63
H	24	30
A	16	20
B	8	10

5 Stroke [mm]*3

200
to
1500

*3 Refer to the applicable stroke table for details.

6 Motor option

—	Without option
B	With lock

7 Cable type*5, *6, *7

—	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*6 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)

*7 Standard cable entry direction is "(A) Axis side."

8 Cable length [m] *5, *6

—	Without cable
3	3
5	5
A	10
C	20

*6 The length of the motor, encoder, and lock cables are the same.

9 Driver type *5

	Compatible drivers	Power supply voltage [V]
—	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

*5 When a driver type is selected, a cable is included. Select the cable type and cable length.

Example)

S2S2: Standard cable (2 m) + Driver (LECSS2)

S2: Standard cable (2 m)

—: Without cable and driver

10 I/O cable length [m]*9

—	Without cable
H	Without cable (Connector only)
1	1.5

*9 When "—: Without driver" is selected for the driver type, only "—: Without cable" can be selected. Refer to the Web Catalogue if an I/O cable is required.

Applicable Stroke Table*4

Model	Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40	●	●	●	●	●	●	●	●	●	●	●	—
25A-LEJS63	—	●	●	●	●	●	●	●	●	●	●	●

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

Solid state auto switches should be ordered separately. For details on auto switches, refer to page 262.

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 25A- series specifications and dimensions are the same as those of the standard model.

Compatible Drivers

For details, refer to the **Web Catalogue**.

Driver type	MECHATROLINK-II type	MECHATROLINK-III type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-II	MECHATROLINK-III
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	

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

Electric Actuator Rod Type

Secondary Battery Compatible

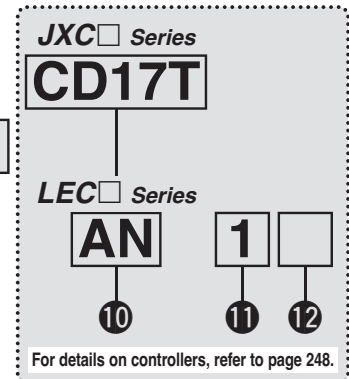
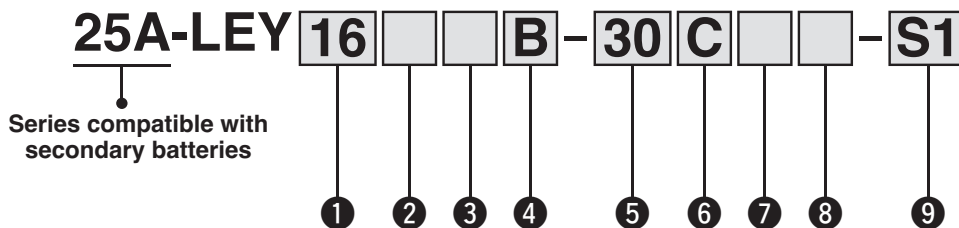
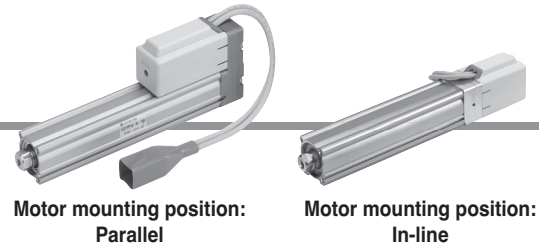


25A-LEY Series LEY16, 25, 32, 40

RoHS

Refer to the **Web Catalogue** for model selection.

How to Order



1 Size

16
25
32
40

2 Motor mounting position

—	Top side parallel
R	Right side parallel
L	Left side parallel
D	In-line

3 Motor type

Symbol	Type	Applicable size			Compatible controllers/drivers		
		LEY16	LEY25	LEY32/40			
—	Step motor (Servo/24 VDC)	●	●	●	JXCE1 JXC91 JXCP1 JXCD1 JXCL1	JXCM1 JXC51 JXC61	LECP1 LECPA
A	Servo motor (24 VDC)	●	●	—	LECA6		

4 Lead [mm]

Symbol	LEY16	LEY25	LEY32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

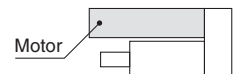
5 Stroke [mm]

30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

6 Motor option*2

C	With motor cover
W	With lock/motor cover



7 Rod end thread

—	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

8 Mounting*5

Symbol	Type	Motor mounting position	
		Parallel	In-line
—	Ends tapped/Body bottom tapped*6	●	●
L	Foot	●	—
F	Rod flange*6	●*8	●
G	Head flange*6	●*9	—
D	Double clevis*7	●	—

9 Actuator cable type/length*11

Standard cable [m]		Robotic cable [m]			
—	None	R1	1.5	RA	10*10
S1	1.5*12	R3	3	RB	15*10
S3	3*12	R5	5	RC	20*10
S5	5*12	R8	8*10		

Mounting Bracket Part Nos. for the 25A- Series*4

Applicable size	Foot*3	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)

Solid state auto switches should be ordered separately. For details on auto switches, refer to page 262.

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

Applicable Stroke Table*1

Model	Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
25A-LEY16		●	●	●	●	●	●	●	—	—	—	—	10 to 300
25A-LEY25		●	●	●	●	●	●	●	●	—	—	—	15 to 400
25A-LEY32/40		●	●	●	●	●	●	●	●	●	●	●	20 to 500

●: Standard

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalogue**.

JXC Series (For details, refer to page 249.)

10 Controller

—	Without controller
C□1□□	With controller

C D 1 7 T

Interface

(Communication protocol/Input/Output)

E	EtherCAT	L	IO-Link
9	EtherNet/IP™	M	CC-Link Ver. 1.10
P	PROFINET	5	Parallel input (NPN)
D	DeviceNet®	6	Parallel input (PNP)

Mounting

7	Screw mounting
8*17	DIN rail

For single axis



Communication plug connector, I/O cable*18

Symbol	Type	Applicable interface
—	Without accessory	—
S	Straight type communication plug connector	DeviceNet®
T	T-branch type communication plug connector	CC-Link Ver. 1.10
1	I/O cable (1.5 m)	Parallel input (NPN)
3	I/O cable (3 m)	Parallel input (PNP)
5	I/O cable (5 m)	Parallel input (PNP)

LEC Series (For details, refer to page 249.)

AN 1

10 Controller/Driver type*12

—	Without controller/driver	
6N	LECA6	NPN
6P	(Step data input type)	PNP
1N	LECP1*13	NPN
1P	(Programless type)	PNP
AN	LECPA*13 *14	NPN
AP	(Pulse input type)	PNP

11 I/O cable length*15

—	Without cable (Without communication plug connector)
1	1.5 m
3	3 m*16
5	5 m*16

12 Controller/Driver mounting

—	Screw mounting
D	DIN rail*17



- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 When "With lock" or "With lock/motor cover" is selected for the top/right/left side parallel motor types, the motor body will stick out from the end of the body for size 16/40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
- *3 When ordering foot brackets, order 2 pieces per actuator.
- *4 Parts included with each type of bracket are as follows.
Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt
- *5 The mounting bracket is shipped together with the product but does not come assembled.
- *6 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.
· LEY25: 200 mm or less · LEY32/40: 100 mm or less
- *7 For the mounting of the double clevis type, use the actuator within the following stroke range.
· LEY16: 100 mm or less · LEY25: 200 mm or less · LEY32/40: 200 mm or less
- *8 The rod flange type is not available for the LEY16/40 with a 30 mm stroke and motor option "With lock," "With lock/motor cover."
- *9 The head flange type is not available for the LEY32/40.
- *10 Produced upon receipt of order (Robotic cable only)

- *11 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable. Refer to the **Web Catalogue** if only the actuator cable is required.
- *12 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.
- *13 Only available for the motor type "Step motor"
- *14 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) separately. (Refer to the **Web Catalogue**.)
- *15 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. If an I/O cable is required, order the cable separately for each series. (For details, refer to the **Web Catalogue**.)
- *16 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
- *17 The DIN rail is not included. It must be ordered separately.
- *18 Select "—" for anything other than DeviceNet®, CC-Link, or parallel input.
Select "—," "S," or "T" for DeviceNet® or CC-Link.
Select "—," "1," "3," or "5" for parallel input.

Caution

[CE/UKCA-compliant products]

- ① EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with 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 compliance with the EMC directive for the machinery and equipment as a whole.
- ② For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the **Web Catalogue** for the noise filter set. Refer to the LECA series Operation Manual for installation.

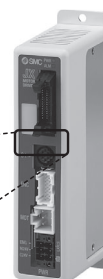
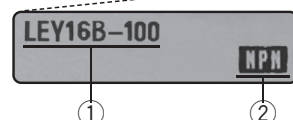
[UL-compliant products (For the LEC series)]

When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

The actuator and controller/driver are sold as a package.
Confirm that the combination of the controller/driver and actuator is correct.

<Check the following before use.>

- ① Check the actuator label for the model number (after "25A-"). This number should match that of the controller/driver.
- ② Check that the Parallel I/O configuration matches (NPN or PNP).



* Refer to the Operation Manual for using the products. Please download it via our website: <https://www.smc.eu>





25A-LEY Series







Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Secondary Battery Compatible

Compatible Controllers/Drivers

Type	Step data input type	Step data input type	Programless type	Pulse input type
				
Series	JXC51 JXC61	LECA6	LECP1	LECPA
Features	Parallel I/O	Parallel I/O	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)	Step motor (Servo/24 VDC)	
Max. number of step data	64 points		14 points	—
Power supply voltage	24 VDC			

Type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet® direct input type	IO-Link direct input type	CC-Link direct input type
						
Series	JXCE1	JXC91	JXCP1	JXCD1	JXCL1	JXCM1
Features	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet® direct input	IO-Link direct input	CC-Link direct input
Compatible motor	Step motor (Servo/24 VDC)					
Max. number of step data	64 points					
Power supply voltage	24 VDC					

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L/ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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Electric Actuator Rod Type

Secondary Battery Compatible

25A-LEY Series LEY25, 32

The LECSB-S, LECS-C, and LECS-S electric actuator drivers are to be discontinued. The LECSB-T, LECS-C-T, and LECS-S-T drivers are available as substitutes. In the product number, select T 6 instead of S6, or T7 instead of S7 for the **Motor type**, and select B2 instead of B1, C2 instead of C1, or S2 instead of S1 for the **Driver type**.

CE UKCA cULus
Refer to the "CE/UKCA/UL-compliance List" in the Web Catalogue.

RoHS

LECY□ Series ▶ p. 253

Refer to the **Web Catalogue** for model selection.

How to Order

25A-LEY **H** **25** **S2** **B** - **100** **S** **2** **A1**

1 2 3 4 5 6 7 8 9 10 11 12 13

Series compatible with secondary batteries

1 Accuracy

—	Basic type
H	High-precision type

2 Size

25
32

3 Motor mounting position

—	Top side parallel
R	Right side parallel
L	Left side parallel
D	In-line

5 Lead [mm]

Symbol	LEY25	LEY32*1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

*1 The values shown in () are the leads for the size 32 top/right/left side parallel motor types. (Equivalent leads which include the pulley ratio [1.25:1])

6 Stroke [mm]

30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

8 Rod end thread

—	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

Mounting Bracket Part Nos. for the 25A- Series

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.

* Parts included with each type of 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]
25A-LEY25		●	●	●	●	●	●	●	●	●	—	—	15 to 400
25A-LEY32		●	●	●	●	●	●	●	●	●	●	●	20 to 500

* Please contact SMC for non-standard strokes as they are produced as special orders.

* The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalogue.**

4 Motor type*1

Symbol	Type	Output [W]	Actuator size	Compatible drivers*3	UL-compliant
S2 *1	AC servo motor	100	25	LECSA□-S1	●
S3	(Incremental encoder)	200	32	LECSA□-S3	●
S6 *1	AC servo motor	100	25	LECSB□-S5 LECS-C□-S5 LECS-S□-S5	—
S7	(Absolute encoder)	200	32	LECSB□-S7 LECS-C□-S7 LECS-S□-S7	—
T6 *2	AC servo motor	100	25	LECSB2-T5 LECS-C2-T5 LECSN2-T5-□	—
T7	(Absolute encoder)	200	32	LECSB2-T7 LECS-C2-T7 LECSN2-T7-□	—
				LECS-S2-T7	●

*1 For motor type S2 and S6, the compatible driver part number suffixes are S1 and S5 respectively.

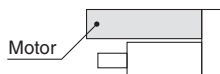
*2 For motor type T6, the compatible driver part number is LECS□2-T5.

*3 For details on the driver, refer to the **Web Catalogue**.

7 Motor option

—	Without option
B	With lock*1

*1 When "With lock" is selected for the top/right/left side parallel motor types, the motor body will stick out from the end of the body for size 25 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.



9 Mounting*1

Symbol	Type	Motor mounting position	
		Parallel	In-line
—	Ends tapped/ Body bottom tapped*2	●	●
L	Foot	●	—
F	Rod flange*2	●*4	●
G	Head flange*2	●*5	—
D	Double clevis*3	●	—

*1 The mounting bracket is shipped together with the product but does not come assembled.

*2 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.

- 25A-LEY25: 200 mm or less
- 25A-LEY32: 100 mm or less

*3 For the mounting of the double clevis type, use the actuator within the following stroke range.

- 25A-LEY25: 200 mm or less
- 25A-LEY32: 200 mm or less

*4 The rod flange type is not available for the 25A-LEY25 with a 30 mm stroke and motor option "With lock."

*5 The head flange type is not available for the 25A-LEY32.

Solid state auto switches should be ordered separately. For details on auto switches, refer to page 262.

Applicable auto switches

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900

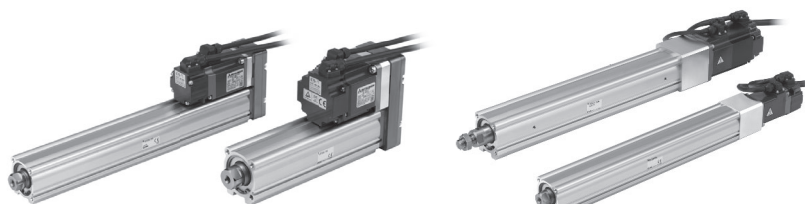
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Electric Actuator Rod Type **25A-LEY Series**

AC Servo Motor

Size **25, 32**

Secondary Battery Compatible



Motor mounting position:
Parallel

Motor mounting position:
In-line

10 Cable type*1 *2

—	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)

*2 Standard cable entry direction is
· Parallel: (A) Axis side
· In-line: (B) Counter axis side

11 Cable length*1 [m]

—	Without cable
2	2
5	5
A	10

*1 The length of the encoder, motor, and lock cables are the same.

12 Driver type*1

	Compatible drivers	Power supply voltage [V]
—	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
	LECSB2-T□	200 to 240
C1	LECSC1-S□	100 to 120
C2	LECSC2-S□	200 to 230
	LECSC2-T□	
S1	LECSS1-S□	100 to 120
S2	LECSS2-S□	200 to 230
	LECSS2-T□	200 to 240
N2	LECSN2-T□	200 to 240
92	LECSN2-T□-9	200 to 240
E2	LECSN2-T□-E	200 to 240
P2	LECSN2-T□-P	200 to 240

*1 When a driver type is selected, a cable is included. Select the cable type and cable length.

Example)

S2S2: Standard cable (2 m) + Driver (LECSC2)

S2: Standard cable (2 m)

—: Without cable and driver

13 I/O cable length [m]*1

—	Without cable
H	Without cable (Connector only)
1	1.5

*1 When "—: Without driver" is selected for the driver type, only "—: Without cable" can be selected.

Refer to the Web Catalogue if an I/O cable is required.

Compatible Drivers*1

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETIII type	Pulse input type	CC-Link direct input type	SSCNETIII/H type	Network card type
Series	LECSA	LECSB	LECSC	LECSS	LECSB-T	LECSC-T	LECSS-T	LECSN-T
Number of point tables*2	Up to 7	—	Up to 255 (2 stations occupied)	—	Up to 255	Up to 255 (2 stations occupied)	—	Up to 255
Pulse input	○	○	—	—	○	—	—	—
Applicable network	—	—	CC-Link	SSCNETIII	—	CC-Link	SSCNETIII/H	PROFINET EtherCAT EtherNet/IP™
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	—	USB 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)				200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)

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

*2 The LECSN-T only supports PROFINET and EtherCAT.

Electric Actuator Rod Type

Secondary Battery Compatible

**25A-LEY Series****LEY25, 32** Size **25, 32**

RoHS

LECS □ Series ▶ p. 251

Refer to the **Web Catalogue** for model selection.

How to Order

25A-LEY **H** **25** **V6** **B** - **100** **S** **2** **M2**

1 2 3 4 5 6 7 8 9 10 11 12 13

Series compatible with secondary batteries

1 Accuracy

—	Basic type
H	High-precision type

2 Size

25
32

3 Motor mounting position

—	Top side parallel
R	Right side parallel
L	Left side parallel
D	In-line

4 Motor type

Symbol	Type	Output [W]	Size	Compatible drivers
V6 *1	AC servo motor (Absolute encoder)	100	25	LECYM2-V5 LECYU2-V5
V7		200	32	LECYM2-V7 LECYU2-V7

*1 For motor type V6, the compatible driver part number suffix is V5.

5 Lead [mm]

Symbol	25A-LEY25	25A-LEY32*1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

*1 The values shown in () are the leads for the size 32 top/right/left side parallel motor types. (Equivalent leads which include the pulley ratio [1.25:1])

6 Stroke [mm]

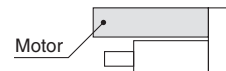
30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

7 Motor option

—	Without option
B	With lock*1

*1 When "With lock" is selected for the top/right/left side parallel motor types, the motor body will stick out from the end of the body for size 25 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.

**8 Rod end thread**

—	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

9 Mounting*1

Symbol	Type	Motor mounting position	
		Parallel	In-line
—	Ends tapped/ Body bottom tapped*2	●	●
L	Foot	●	—
F	Rod flange*2	●*4	●
G	Head flange*2	●*5	—
D	Double clevis*3	●	—

*1 The mounting bracket is shipped together with the product but does not come assembled.

*2 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.

· LEY25: 200 mm or less · LEY32: 100 mm or less

*3 For the mounting of the double clevis type, use the actuator within the following stroke range.

· LEY25: 200 mm or less · LEY32: 200 mm or less

*4 The rod flange type is not available for the LEY25 with a 30 mm stroke and motor option "With lock."

*5 The head flange type is not available for the LEY32.

Mounting Bracket Part Nos. for the 25A- Series

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.

* Parts included with each type of bracket are as follows.

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

Solid state auto switches should be ordered separately. For details on auto switches, refer to page 262.

Applicable auto switches

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900

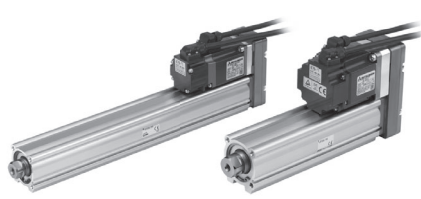
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Applicable Stroke Table

Model	Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
		●	●	●	●	●	●	●	●	●	—	—	
25A-LEY25		●	●	●	●	●	●	●	●	●	—	—	15 to 400
25A-LEY32		●	●	●	●	●	●	●	●	●	●	●	20 to 500

* Please contact SMC for non-standard strokes as they are produced as special orders.

* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the **Web Catalogue**.

Motor mounting position:
ParallelMotor mounting position:
In-line**10 Cable type***1 *2

—	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)

*2 Standard cable entry direction is
 · Parallel: (A) Axis side
 · In-line: (B) Counter axis side

11 Cable length [m]*1

—	Without cable
3	3
5	5
A	10
C	20

*1 The length of the motor and encoder cables are the same. (For with lock)

12 Driver type

	Compatible drivers	Power supply voltage [V]
—	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

* When a driver type is selected, a cable is included. Select the cable type and cable length.





13 I/O cable length [m]*1

—	Without cable
H	Without cable (Connector only)
1	1.5

*1 When "—: Without driver" is selected for the driver type, only "—: Without cable" can be selected.

Refer to the Web Catalogue if an I/O cable is required.

Compatible Drivers

Driver type	 MECHATROLINK-II type	 MECHATROLINK-III type
		
Series	LECYM	LECYU
Applicable network	MECHATROLINK-III	MECHATROLINK-III
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	

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

Directional
Control Valves

Air Cylinders

Related
ProductsRotary
Actuators

Air Grippers

Vacuum
EquipmentAir Preparation
EquipmentClean
Air FiltersModular F.R.L./
Pressure Control
EquipmentFlow Control
Equipment/
FittingsDetection
SwitchesFluid Control
EquipmentProcess Gas
EquipmentElectric
ActuatorsAuto
Switches

25A- Series

Applicable Auto Switches

Applicable Cylinder Series

Auto switches											Air cylinders														
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	CDJP2	CD(B)J2 CDJ2K	CD85		CDM2	CD(B)G1		MDB	C(P)96SD	CDA2	CDS2			
							0.5 Nil	1 M	3 L	5 Z		ø4 to ø16	ø10, ø16	ø8 to ø12	ø16 to ø25	ø20 to ø40	ø20 to ø63	ø80, ø100	ø32 to ø100	ø32 to ø125	ø40 to ø100	ø125 to ø160			
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 indicator)			3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	●	●	●	●	—	●	●	●	●	●			
				3-wire (PNP)		D-M9PW-900	●	●	●	○	—	●	●	●	●	●	—	●	●	●	●				
				2-wire		D-M9BW-900	●	●	●	○	○	●	●	●	●	●	—	●	●	●	●				
				3-wire (NPN)	Perpendicular	D-M9NVV-900	●	●	●	○	—	●	●	●	●	●	—	●	●	●	●				
				3-wire (PNP)		D-M9PWW-900	●	●	●	○	—	●	●	●	●	●	—	●	●	●	●				
				2-wire		D-M9BWW-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 indicator)			3-wire (NPN)	In-line	D-Y7NW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—		
				3-wire (PNP)		D-Y7PW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—			
				2-wire		D-Y7BW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
				3-wire (NPN)	Perpendicular	D-Y7NVV-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—			
				3-wire (PNP)		D-Y7PWW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
				2-wire		D-Y7BWW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
	—			3-wire (NPN)	In-line	D-G59-900	●	—	●	○	—	—	—	—	—	—	—	—	●	—	—	—			
				3-wire (PNP)		D-G5P-900	●	—	●	○	—	—	—	—	—	—	—	●	—	—	—				
				2-wire		D-K59-900	●	—	●	○	—	—	—	—	—	—	—	●	—	—	—				
				3-wire (NPN)	Perpendicular	D-G59W-900	●	—	●	○	—	—	—	—	—	—	—	●	—	—	—				
				3-wire (PNP)		D-G5PW-900	●	—	●	○	—	—	—	—	—	—	—	●	—	—	—				
				2-wire		D-K59W-900	●	—	●	○	○	—	—	—	—	—	—	●	—	—	—				
	Diagnostic indication (2-color indicator)			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	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
	—			3-wire (NPN)	In-line	D-F79W-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—			
				3-wire (PNP)		D-F7PW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
				2-wire		D-J79W-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
				3-wire (NPN)	Perpendicular	D-F7NVV-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
				3-wire (PNP)		D-F7PWW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
				2-wire		D-F7BWW-900	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—				
	Reed auto switch			—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	●*1	●	—	●	●	—	●	●	●	●	
				—		Yes	3-wire (NPN equiv.)	In-line	D-Z80-900	—	—	●	—	—	—	—	—	—	—	—	—	—	—		
				—		No	2-wire	In-line	D-E76A	●	—	●	—	—	—	—	—	—	—	—	—	—	—		
				—		No	2-wire	In-line	D-E73A	●	—	●	—	—	—	—	—	—	—	—	—	—	—		

*1 The D-A90L-900 cannot be mounted on Ø 4. * Solid state auto switches marked with a "○" 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-CDJ2L16-60Z-M9BWL-B

(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..... — (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWZ

																									Directional Control Valves											
Compact cylinders												Rodless cylinders													Air Cylinders											
	C95SD	CDUJ	CDU	CDUK	CDQS(W)	CDQ2(W)	CDBQ2	MDU	CD55	MY1B			MY1M		MY1C		MY1H	MY2C	MY2H/HT	MY3	CY3R			Related Products	Rotary Actuators	Air Grippers	Vacuum Equipment	Air Preparation Equipment	Clean Air Filters	Modular F.R.L./Pressure Control Equipment	Flow Control Equipment/Fittings	Detection Switches	Fluid Control Equipment	Process Gas Equipment	Electric Actuators	Auto Switches
	ø160, ø200	ø6 to ø20	ø10 to ø32	ø16 to ø32	ø12 to ø25	ø12 to ø100	ø125 to ø200	ø20, ø25	ø32 to ø100	ø25 to ø63	ø20 to ø100	ø16 to ø40	ø50	ø63	ø16, ø20	ø25 to ø63	ø16, ø20	ø25 to ø63	ø16 to ø40	ø16, ø25, ø40	ø16, ø25, ø40	ø16 to ø63	ø6 to ø20	ø25 to ø63												
	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—</																										

25A- Series

Applicable Cylinder Series

Auto switches												
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	
							0.5	1	3	5		
							—	M	L	Z	SDPC	
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-colour indicator)			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-colour indicator)			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	●	—	●	○	—	
				3-wire (NPN)	Perpendicular	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-colour indicator)			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	●	—	●	○	—	
				3-wire (NPN)		Perpendicular	D-F8N-900	●	—	●	○	—
	3-wire (PNP)			D-F8P-900	●		—	●	○	—		
	2-wire			D-F8B-900	●		—	●	○	—		
Reed auto switch	—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	
	—		Yes	3-wire (NPN equiv.)	In-line	D-Z80-900	—	—	●	—	—	
						D-E76A	●	—	●	—	—	
						D-E73A	●	—	●	—	—	
		No	2-wire		D-E80A	●	—	●	—	—		

* The D-A90-900 reed auto switch is only compatible with bore sizes Ø 16 to Ø 50.

[illegible]

Applicable Rotary Actuator Series

Auto switches												Rotary actuators				
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	MSQA MSQB	MSQ MSZ	MDSUB		
							0.5	1	3	5				1, 3	7, 20	
							—	M	L	Z	SDPC	10 to 200	10 to 50	—	—	
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-colour indicator)			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-colour indicator)			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*1	●	—	●	○	—	—	—	●	—
					3-wire (PNP)		D-S992-901*1	●	—	●	○	—	—	—	●	—
					3-wire (PNP)		D-S9P1-901*1	●	—	●	○	—	—	—	●	—
					3-wire (PNP)		D-S9P2-901*1	●	—	●	○	—	—	—	●	—
					2-wire		D-T991-901*1	●	—	●	○	—	—	—	●	—
					2-wire		D-T992-901*1	●	—	●	○	—	—	—	●	—
					3-wire (NPN)	Perpendicular	D-S99V1-901*1	●	—	●	○	—	—	—	●	—
					3-wire (PNP)		D-999V2-901*1	●	—	●	○	—	—	—	●	—
					3-wire (PNP)		D-S9PV1-901*1	●	—	●	○	—	—	—	●	—
					3-wire (PNP)		D-S9PV2-901*1	●	—	●	○	—	—	—	●	—
					2-wire		D-T99V1-901*1	●	—	●	○	—	—	—	●	—
					2-wire		D-T99V2-901*1	●	—	●	○	—	—	—	●	—
				—	3-wire (NPN)	In-line	D-S791-901*1	●	—	●	○	—	—	—	—	●
					3-wire (PNP)		D-S792-901*1	●	—	●	○	—	—	—	—	●
					3-wire (PNP)		D-S7P1-901*1	●	—	●	○	—	—	—	—	●
					3-wire (PNP)		D-S7P2-901*1	●	—	●	○	—	—	—	—	●
					2-wire	D-T791-901*1	●	—	●	○	—	—	—	—	●	
					2-wire	D-T792-901*1	●	—	●	○	—	—	—	—	●	
Reed auto switch	—	Grommet	No		2-wire	In-line	D-A90-900	—	—	●	—	—	●	●	—	—

* Solid state auto switches marked with a "○" 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 265.

Ordering the Auto Switches

Please be aware that the order part numbers for the rotary actuator mounted and individual auto switches are different.

(Example) Part number for ordering D-M9BWL-900:

- Rotary actuator mounted type: 25A-MSQB-10A-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..... — (Example) M9NW
- 1 m..... M (Example) M9NWM
- 3 m..... L (Example) M9NWL
- 5 m..... Z (Example) M9NWX

*1 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.

Applicable Air Gripper Series

Auto switches											Air grippers									
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	JMHZ2	JMHZ2-X6900	JMHZ2-X7460	MHZ2	MHZL2	MHZJ2	MHZJ2-X6100	MHZL2-X5955	
							0.5	1	3	5										
							—	M	L	Z	SDPC	8 to 20	8 to 20	8 to 20	10 to 40	10 to 25	10 to 25	32, 40	10 to 20	
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-colour indicator)			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-colour indicator)			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*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-S992-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-S9P1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-S9P2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				2-wire		D-T991-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				2-wire		D-T992-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (NPN)	Perpendicular	D-S99V1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-999V2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-S9PV1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-S9PV2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				2-wire		D-T99V1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				2-wire		D-T99V2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (NPN)	In-line	D-S791-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-S792-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-S7P1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-S7P2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				2-wire		D-T791-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
				2-wire		D-T792-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	
Reed auto switch	—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	—	—	—	—	—	—			

* Solid state auto switches marked with a "○" 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 265.

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..... — (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWX

*1 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.

25A- Series

Applicable Air Gripper Series

Auto switches											Air grippers								
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	MHL2-Z	MHL2	MHF2	MHS3 MHS4	MHSJ3	MHY2	MHW2	
							0.5	1	3	5									
							—	M	L	Z	SDPC	10 to 40	10 to 40	8 to 20	16 to 32	16 to 32	16 to 25	20 to 50	
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	●	●	●	○	—	●	●	●	●	●	●		
				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	●	—	●	○	—	●	●	—	—	—	—	●	
				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*1	●	—	●	○	—	—	—	—	—	—	—	—	—
				3-wire (PNP)		D-S992-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-S9P1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-S9P2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-T991-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-T992-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				3-wire (NPN)	Perpendicular	D-S99V1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-999V2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-S9PV1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-S9PV2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-T99V1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-T99V2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				3-wire (NPN)	In-line	D-S791-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				3-wire (PNP)		D-S792-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-S7P1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-S7P2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-T791-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
				2-wire		D-T792-901*1	●	—	●	○	—	—	—	—	—	—	—	—	
Reed auto switch	—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	—	—	—	—	—			

* Solid state auto switches marked with a "○" 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 265.

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..... — (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWX

*1 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.

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]				Pre-wired connector	LEJS	LEY
							0.5	1	3	5	SDPC	40 to 63	16 to 40
							—	M	L	Z			
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-colour indicator)			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 with a "○" 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..... — (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWZ

25A- Series

Auto Switch Mounting

Band Mounting Type

Applicable cylinder series: 25A-CDJ2, 25A-CDJ2K, 25A-CDBJ2, 25A-CD85, 25A-CDM2, 25A-CDG1, 25A-CDBG1, 25A-MGG
 Applicable auto switches : D-M9□-900, D-M9□W-900, D-M9BWSDPC-900, D-M9BWVSDPC-900, D-A90-900

Auto Switch Mounting Bracket Part Nos.

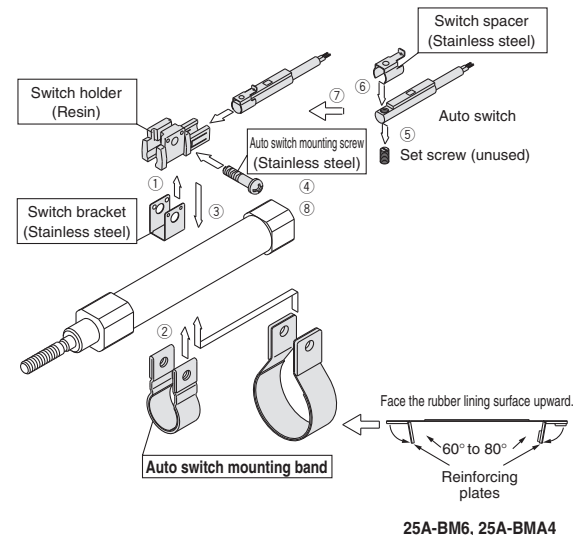
Cylinder series	Applicable bore size [mm]											
	8	10	12	16	20	25	32	40	50	63	80	100
25A-CDJ2 25A-CDJ2K 25A-CDBJ2	—	*1 25A-BJ7-010S	—	*1 25A-BJ7-016S	—	—	—	—	—	—	—	—
25A-CD85*4	25A-BJ7-008S	25A-BJ7-010S	25A-BJ7-012S	25A-BJ7-016S	25A-BM6-020S	25A-BM6-025S	—	—	—	—	—	—
25A-CDM2	—	—	—	—	*2 25A-BM6-020S	*2 25A-BM6-025S	*2 25A-BM6-032S	*2 25A-BM6-040S	—	—	—	—
25A-CDG1 25A-CDBG1	—	—	—	—	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	*3 25A-BMA4-063S	—	—
25A-MGG	—	—	—	—	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	*3 25A-BMA4-063S	—	—

*1 The combination of the auto switch mounting band (BJ2-□□□S/with a stainless steel screw) and the holder set (BJ3-1).

*2 The combination of the auto switch mounting band (for BM2-□□□) and stainless steel screw (BBA4), and the holder set (BJ3-1).

*3 The combination of the auto switch mounting band (for BMA2-□□□) and stainless steel screw (BBA4), and the holder set (BJ3-1).

*4 D-A90L-900 auto switches cannot be mounted on bore size Ø 8, Ø 10, or Ø 12 cylinders.

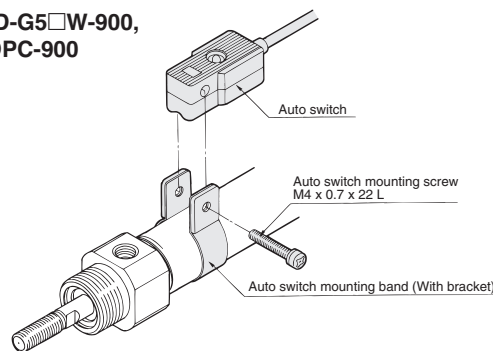


Applicable cylinder series: 25A-CDG1, 25A-CDBG1

Applicable auto switches : D-G5□-900, D-K59-900, D-G5□W-900, D-K59W-900, D-K59WSDPC-900

Auto Switch Mounting Bracket Part Nos.

Cylinder series	Applicable bore size [mm]	
	80	100
25A-CDG1 25A-CDBG1	BA-08S	BA-10S



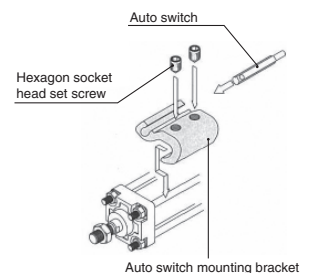
Tie-rod Mounting Type

Applicable cylinder series: 25A-MDB, 25A-CDA2, 25A-CDS2, 25A-C(P)96SD

Applicable auto switches : D-M9□-900, D-M9□V-900, D-M9□W-900, D-M9□WV-900, D-M9BWSDPC-900, D-M9BWVSDPC-900
 : D-A90-900

Auto Switch Mounting Bracket Part Nos.

Cylinder series	Applicable bore size [mm]									
	32	40	50	63	80	100	125	140	160	200
25A-MDB	90-BMB5-032	90-BMB5-032	90-BA7-040	90-BA7-040	90-BA7-063	90-BA7-063	—	—	—	—
25A-C96SD	90-BMB5-032	90-BMB5-032	90-BA7-040	90-BA7-040	90-BA7-063	90-BA7-063	90-BA7-080	—	—	—
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	—
25A-C95SD	—	—	—	—	—	—	—	—	25A-BS6-160	25A-BS6-160

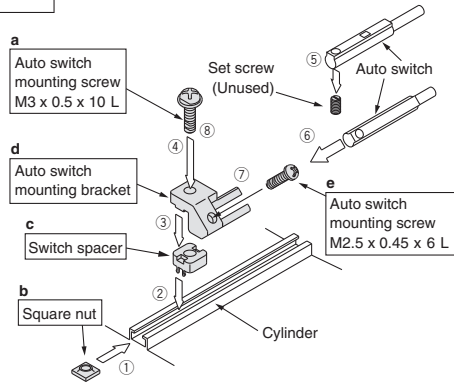


Rail Mounting Type

Applicable cylinder series: 25A-CDBQ2
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, D-M9NA(V)-900, D-M9PA(V)-900, D-M9BA(V)-900, D-A90-900

Auto Switch Mounting Bracket Part No.

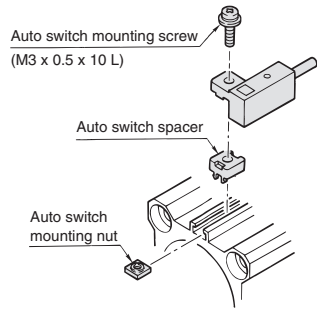
Cylinder series	Applicable bore size [mm]							
	20	25	32	40	50	63	80	100
25A-CDBQ2	—	—	25A-BQ2-032			—	—	—



Applicable auto switches: D-F79-900, D-F7P-900, D-J79-900, D-F7NV-900,
D-F7PV-900, D-F7BV-900, D-F79W-900, D-F7PW-900,
D-J79W-900, D-F7NWV-900, D-F7BWV-900

Auto Switch Mounting Bracket Part No.

Cylinder series	Applicable bore size [mm]							
	20	25	32	40	50	63	80	100
25A-CDBQ2	—	—	25A-BQ-2					



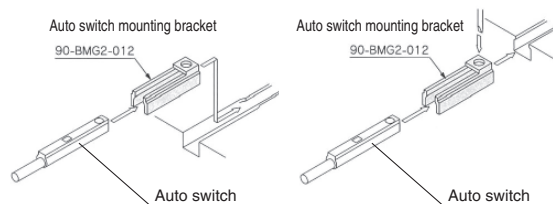
25A- Series

Direct Mounting Type

Applicable cylinder series : 25A-CDJP2, 25A-MDU, 25A-MY1B, 25A-MY1M, 25A-MY1C, 25A-MY1H, 25A-MY3□, 25A-CY3R, 25A-MGP-Z, 25A-MGP-AZ, 25A-RSH

Applicable air gripper series: 25A-MHZ(L)2, 25A-MHL2, 25A-MHS3, 25A-MHS4

Applicable auto switches : D-M9□-900, D-M9□V-900, D-M9□W-900, D-M9□WV-900, D-M9BWSVSDPC-900, D-M9BWSVSDPC-900 : D-A90L-900



Auto Switch Mounting Bracket Part Nos.

Cylinder series Air gripper series	Applicable bore size [mm]													
	4	6	10	12	15	16	20	25	32	40	50	63	80	100
25A-CDJP2	Not required	Not required	Not required	—	—	Not required	—	—	—	—	—	—	—	—
25A-MDU	—	—	—	—	—	—	—	MUZ-025	MUZ-025	MUZ-025	MUZ-025	MUZ-025	—	—
25A-MY1B	—	—	—	—	—	Not required	Not required	BMY3-016	BMY3-016	BMY3-016	—	90-BMG2-012	—	—
25A-MY1M	—	—	—	—	—	Not required	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—
25A-MY1C	—	—	—	—	—	Not required	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—
25A-MY1H	—	—	—	—	—	Not required	Not required	BMY3-016	BMY3-016	BMY3-016	—	—	—	—
25A-MY3□	—	—	—	—	—	BMY3-016	BMY3-016	BMY3-016	BMY3-016	BMY3-016	BMY3-016	BMY3-016	—	—
25A-CY3R	—	—	—	—	Not required	—	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—
25A-MGP-Z 25A-MGP-AZ	—	—	—	Not required	—	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
25A-MGPK	—	—	—	Not required	—	Not required	Not required	Not required	Not required	Not required	Not required	—	—	—
25A-RSH	—	—	—	—	—	—	90-BMG2-012	—	90-BMG2-012	—	—	—	—	—
25A-MHZ2	—	—	90-BMG2-012	—	—	*1	*1	*1	*1	*1	—	—	—	—
25A-MHZL2	—	—	90-BMG2-012	—	—	*1	*1	*1	—	—	—	—	—	—
25A-MHL2	—	—	90-BMG2-012	—	—	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—	—	—
25A-MHS3 25A-MHS4	—	—	—	—	—	Not required	Not required	Not required	90-BMG2-012	—	—	—	—	—

*1 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.

Applicable cylinder series: 25A-CDUJ, 25A-MGJ

Applicable auto switches: D-F8N-900, D-F8P-900, D-F8B-900

Auto switch mounting brackets are not required.



25A- Series Precautions

Be sure to read this before handling products.

Precautions

Caution

■ Change of material

For the 25A- series, there is a restriction on the use of copper and zinc as main components in the metal materials used. Keep in mind that the Aluminium alloy, Aluminium die cast, and some of the stainless steel materials contain traces of copper (Cu) and/or zinc (Zn) as an additive element.

However, copper is used in some parts—the coils of solenoid valves, the circuit boards, connector pins, and lead wires of electrical equipment and auto switches, and the motors, cables, and drivers of electric actuators—whose materials cannot be easily changed to alternative materials.

In addition, some magnets (including the surface treatment) contain copper (Cu) and/or zinc (Zn). However, due to their magnetic characteristics, it is impossible to use alternative materials.

■ 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.

When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.

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
- MHW2

■ 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 (TL series) or stainless steel 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 registered trademark of ODVA, Inc.

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

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

Safety Instructions

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

Danger:

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

Warning:

Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

Caution:

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

- 1) ISO 4414: Pneumatic fluid power – General rules and safety requirements for systems and their components.
ISO 4413: Hydraulic fluid power – General rules and safety requirements for systems and their components.
IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.
etc.

Warning

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

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

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

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

3. Do not service or attempt to remove product and machinery/equipment until safety is confirmed.

1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Our products cannot be used beyond their specifications.

Our products are not developed, designed, and manufactured to be used under the following conditions or environments.

Use under such conditions or environments is not covered.

1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

Caution

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following “Limited warranty and Disclaimer” and “Compliance Requirements”. Read and accept them before using the product.

Limited warranty and Disclaimer

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

Compliance Requirements

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

Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

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