

Series Compatible with Secondary Batteries

Copper (Cu) and Zinc (Zn)

Free

Compatible with dew points as low as

-70°c

Longer life

due to use of grease compatible with low dew points

- 4/5-Port Solenoid Valve 25A-SYJA Series
- Air Cylinder: With End Lock 25A-CBJ2, 25A-CBG1, 25A-CDBQ2 Series
- Mini Free Mount Cylinder 25A-CUJ Series
- Air Slide Table 25A-MXQ□, 25A-MXP Series
- Modular F.R.L. Units 25A-AC□B, C, D Series
- Pressure Switch 25A-ZSE20/ISE20 Series
- Pilot Operated 2-Port Solenoid Valve 25A-VXD Series, etc., have been added.

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

Compatible with the various environments of each manufacturing process

25A Series

Products compatible with the various 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

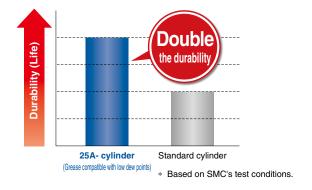


Improved performance in environments with low dew points

Uses grease compatible with low dew points

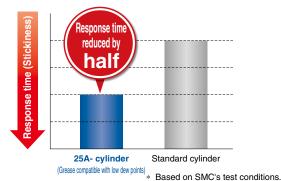
Double the durability

Durability comparison (Air cylinder)



Response time reduced by half

Comparison of cylinder response times after being pressurized and stored



Materials Not Used

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

- materials containing copper (Cu) or zinc (Zn)
- electrolytic nickel plating with a copper layer or zinc plating
 - * Electroless nickel plating is used.



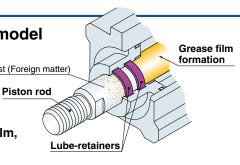
Dustproof Products

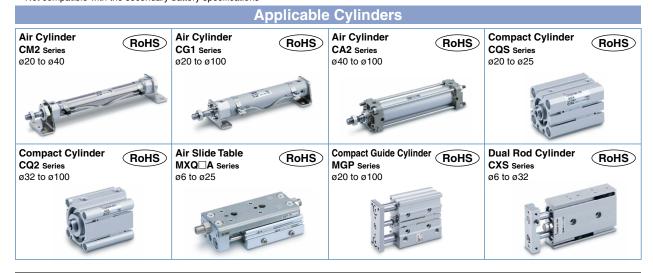
Durability is 4 times stronger than the standard model in micro-powder (10 to 100 μm) environments.

(The durability test was conducted in accordance with SMC test conditions.) Dust (Foreign matter)

Cylinder with Stable Lubrication Function (Lube-retainer)

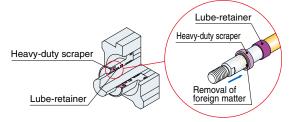
- Double Lube-retainer
- Lube-retainers are mounted at two locations to form a grease film, preventing the entry of dust and foreign matter.
- * Not compatible with the secondary battery specifications



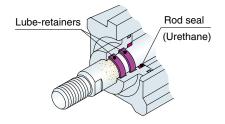


Special Products (Please contact your local sales representative for more details.)

- Lube-retainer + Heavy-duty scraper
- Improved dust prevention due to the luberetainer 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

- 5-Port Solenoid Valve/51-SY Series Intrinsically safe and explosion proof (In compliance with IEC Standard 79)
- 3/5-Port Solenoid Valve/50-VFE/VPE Series IEC compliant, Waterproof
- * Not compatible with the secondary battery specifications





Not **Used**

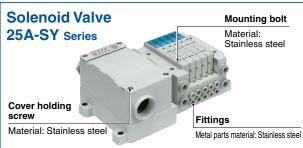
Material

Copper (Cu) Zinc (Zn)

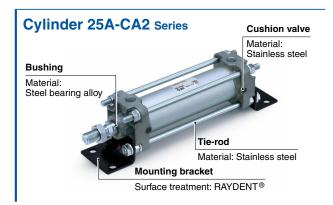
Surface

- Electrolytic nickel plating with a copper layer
- Zinc plating

(Electroless nickel plating is used.)



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



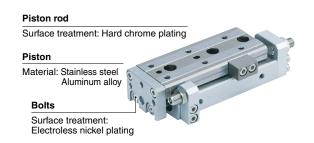
Compact Cylinder 25A-CQ2 Series



Compact Guide Cylinder 25A-MGPM Series



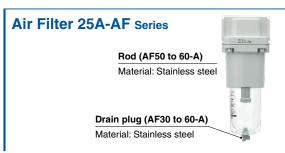
Air Slide Table 25A-MXQ Series



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





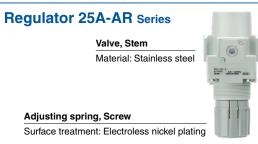
















Port thread

Material: Stainless steel

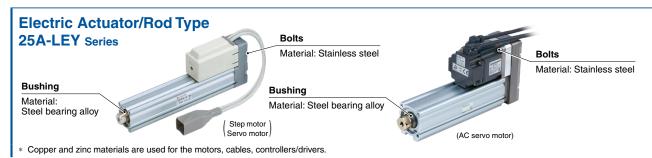
A copper material is used for the lead wires.



A copper material is used for the lead wires.



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



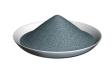
Secondary Battery Manufacturing Process

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.



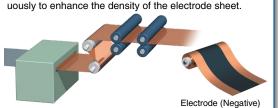


2 Coating and rolling

Positive or negative electrode slurry is coated with a metallic foil made from aluminum, copper, etc.

The coated electrode slurry is then compressed with relief coating.

The coated slurry is then compressed with rollers continuously to enhance the density of the electrode sheet.



Cell Assembly Process

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.

Separator

Negative electrode sheet

Separator

Negative Separator

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.

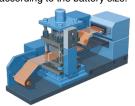


Bonding tabs and an insulating plate



4 Punching electrodes

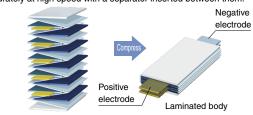
The rolled positive and negative electrodes are punched according to the battery size.



Electrode puncher

5 Stacking (Layering) Positive and negative electrodes are s

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



Stacking positive and negative electrodes

Inspection/Packaging Process

8 Charging/discharging and aging

Standard products are applicable.

Packaging

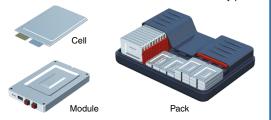
Standard products

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.



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.



Same for both can types and laminate type

Laminate type

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.



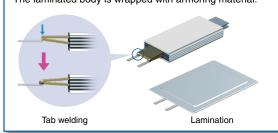


Welding cell lid P

Pouring electrolytic solution

6 Tab welding and lamination

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



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.



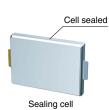


Welding infusion plug

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.











25A- Series Applicable Products

Description		25A- Series	
		Model (Type)	Page
	5-Port Solenoid Valve	25A-SY5000 (Plug-in connector connecting base) 25A-SY5000, 7000	p. 15 p. 36
		25A-VQ2000, 4000 (W)	p. 43
		25A-SQ2000	p. 56
		25A-VQZ1000	p. 61
se	Separate Type Double Check Block	25A-VQ1000, 2000 (Double check block)	p. 65
Valve	3-Port Solenoid Valve	25A-VP342, 542, 742 (Body ported)	p. 66
5		25A-VP344, 544, 744 (Base mounted)	p. 67
Conf		25A-VP500, 700 (Safety Standard ISO 13849-1)	p. 68
) lar		25A-VT317	p. 69
tior		25A-VG342	p. 70
Directional Control Valves	5-Port Air Operated Valve	25A-SYA5000, 7000	p. 71
	3-Port Air Operated Valve	25A-SYJA500, 700	p. 72
	Finger Valve	25A-VHK	p. 74
	Conforming to OSHA Standard Pressure Relief 3-Port Valve with	25A-VHS20, 30, 40, 50	p. 75
	Locking Holes	25A-VHS2510, 3510, 4510, 5510	p. 76
	Air Cylinder	25A-CJ2 (Standard)	p. 77
	New	25A-CBJ2 (With end lock)	p. 78
ers	(1)	25A-CM2 (Standard) New The air cushion type has been added.	p. 79
Air Cylinders	a	25A-CG1 (Standard)	p. 80
S S	New	25A-CBG1 (With end lock)	p. 81
Ā		25A-MB (Standard)	p. 82
	Mo T	25A-CA2 (Standard)	p. 83
		25A-CS2 (Standard)	p. 84
Compact Air Cylinders	Mini Free Mount Cylinder New	25A-CUJ (Standard)	p. 85
omp	Free Mount Cylinder	25A-CU (Standard)	p. 88
ပိပ်	0000	25A-CUK (Non-rotating rod)	p. 89



Description		25A- Series	
		Model (Type)	Page
	Compact Cylinder	25A-CQS (Standard)	p. 90
LS	New	25A-CQSW (Standard, Double rod)	p. 91
Compact Air Cylinders		25A-CQS□S (Anti-lateral load)	p. 92
Cyli		25A-CQ2 (Standard)	p. 93
Air	New	25A-CQ2W (Standard, Double rod)	p. 94
oact	5	25A-CQ2 (Large bore size)	p. 95
duo		25A-CQ2 (Long stroke)	p. 96
O		25A-CQ2□S (Anti-lateral load)	p. 97
	New	25A-CBQ2 (With end lock)	p. 98
	Mechanically Jointed Rodless Cylinder	25A-MY1B (Basic)	p. 99
	, and a second	25A-MY1C (Cam follower guide)	p. 100
ders		25A-MY1H (Linear guide)	p. 101
Rodless Cylinders		25A-MY2H (Linear guide)	p. 102
ss C	New	25A-MY3A (Basic short type, Rubber bumper)	p. 103
dles	New	25A-MY3B (Basic standard type, Air cushion)	p. 103
B B	New	25A-MY3M (Slide bearing guide type)	p. 104
	Magnetically Coupled Rodless Cylinder	25A-CY3B (Basic) New Bore sizes ø6 and ø10 have been added.	p. 105
		25A-CY3R (G) (Direct mount) New Bore sizes 06 and 010 have been added.	p. 106
	Compact Slide	25A-MXH (Recirculating linear guide)	p. 107
	Air Slide Table	25A-MXS (Cross roller guide)	p. 108
ers	New	25A-MXQ□A (Recirculating linear guide/Double-ported type)	p. 109
Table Cylind	New	25A-MXQ□B (Recirculating linear guide/Low thrust with high rigidity type)	p. 110
C C	New	25A-MXQ□C (Recirculating linear guide/Single side-ported type)	p. 111
rable	New	25A-MXQ□ (Recirculating linear guide/Height interchangeable type)	p. 112
		25A-MXQ (Recirculating linear guide)	p. 113
		25A-MXW (Recirculating linear guide)	p. 114
	Compact Guide Cylinder	25A-MXP (Recirculating linear guide)	p. 115
S	Sompact datas Symuel	25A-MGPM (Slide bearing)	p. 116
Guide Cylinders		25A-MGPL (Ball bushing bearing)	p. 116
	New	25A-MGPM (Slide bearing, Air cushion type)	p. 117
ide	Guide Cylinder	25A-MGPL (Ball bushing bearing, Air cushion type)	p. 117
Gu	duide dynnider	25A-MGGL (Ball bushing bearing)	p. 121



Description		25A- Series	
		Model (Type)	Page
ers	Slide Unit	25A-CXWM (Slide bearing)	p. 118
ind	Dual Rod Cylinder	25A-CXSJM (Slide bearing)	p. 119
<u>ک</u>	New	25A-CXSJL (Ball bushing bearing)	p. 119
Guide Cylinders		25A-CXSM (Slide bearing)	p. 120
Gu		25A-CXSL (Ball bushing bearing)	p. 120
mp/ Cylinders	Rotary Clamp Cylinder	25A-MK (Standard)	p. 122
	Stopper Cylinder/ Fixed Mounting Height	25A-RSQ (Standard)	p. 123
Cla Stopper	Heavy Duty Stopper Cylinder	25A-RSH (Standard)	p. 124
	Shock Absorber	25A-RJ (Soft type)	p. 125
		25A-RJ (Short stroke type)	p. 126
ŝ		25A-RB (Standard)	p. 127
qnc		25A-RBC (Standard)	p. 127
Related Products	Floating Joint	25A-JA (Standard/80, 100 only)	p. 128
ted		25A-JB (For compact cylinders)	p. 128
elai		25A-JS (Stainless steel type)	p. 128
4	Simple Joint	YA (Type A mounting bracket)	*1
	for CQ2	YB (Type B mounting bracket)	*1
		YU (Joint)	*1
	Rotary Table	25A-MSUB (Vane type)	p. 129
ry		25A-MSQ (Rack & Pinion type)	p. 130
Rotary ctuators		25A-MSQ-X251 (Rack & Pinion type, With vacuum port)	p. 130
Ac	3-Position Rotary Table	25A-MSZA (High precision type)	p. 132
	New New	25A-MSZB (Basic type)	p. 132
	Parallel Type Air Gripper	25A-MHZ2 (Standard)	p. 133
		25A-MHZL2 (Long stroke)	p. 134
40		25A-MHZJ2 (With dust cover)	p. 135
pers	1/34	25A-MHZL2-X5955 (Long stroke, With dust cover)	p. 135
arip		25A-MHF2 (Low profile type)	p. 136
Air Grippers		25A-MHL2 (Wide type)	p. 137
		25A-MHS□ (3-finger, 4-finger)	p. 138
		25A-MHSJ3 (3-finger, With dust cover)	p. 139
		25A-MHY2 (180° Angular type)	p. 140
. 4 . 01	udard products: Standard products are copper (Cu) and zin	, , ,	

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



Description		25A- Series	
		Model (Type)	Page
	Vacuum Ejector	25A-ZK2 (Vacuum unit) Single unit only	p. 141
	Space Saving	25A-ZQ (Ejector unit) Single unit/Manifold	p. 145
	Vacuum Ejector	25A-ZQ (Vacuum pump unit) Single unit/Manifold	p. 149
	New	ZH□□DA (Body ported)	*1
nent		ZH (Body ported)	*2
:quipn	In-line Type Vacuum Ejector	ZU□□A (In-line type)	*1
Vacuum Equipment	In-line Air Filter	ZFC (With One-touch fittings)	*1
Vac	Air Suction Filter	ZFC (With One-touch fittings, In-line type)	*1
	Vacuum Pad	ZP (Pad only)	*1
	Adsorption Plate	SP	*1
Preparation quipment	Membrane Air Dryer	25A-IDG (Single unit/Standard dew point -40°C/-60°C specifications)	p. 153
Preparatic quipment	Air Preparation Filter	25A-AFF (Main line filter)	p. 155
Prep		25A-AM (Mist separator)	p. 156
Air E		25A-AMD (Micro mist separator)	p. 157
	•	25A-AMH (Micro mist separator with pre-filter)	p. 158
_	Clean Air Filter	SFD100	*1
n Ai ers		SFD200	*1
Clean / Filter		25A-AMP (Exhaust cleaner for clean room)	p. 159
		SFE (Clean exhaust filter)	*1
	Modular F.R.L. Units	25A-AC□B-A, AC□C-A, AC□D-A	*3
ent	Air Filter Separator	25A-AF-A (Air filter)	p. 160
L./ quipment		25A-AFM-A (Mist separator)	p. 161
A.L./ Equ	*	25A-AFD-A (Micro mist separator)	p. 161
Modular F.R.L., Pressure Control Equ	Regulator	25A-AR-B (Regulator)	p. 162
	l o l	25A-AR□□K-B (Regulator with backflow function)	p. 162
	100	25A-AW-B (Filter regulator)	p. 163
	T .	25A-AW□□K-B (Filter regulator with backflow function)	p. 163
Pre	New	25A-IR□-A (Precision regulator)	p. 164
	1.0.1	25A-ITV1000, 2000, 3000 (Electro-pneumatic regulator)	p. 165
		CB-97XH (Residual pressure indicator)	*1

- *1 Standard products: Standard products are copper (Cu) and zinc (Zn) free. Refer to the **Web Catalog** for details. *2 For the ZH (body ported) series, only the screw-in type uses copper. One-touch connection type is copper-free as standard. *3 Available as simple specials. Please contact your local sales representative for more details.



Description		25A- Series	
		Model (Type)	Page
pment	Booster Regulator	25A-VBA*4	p. 166
F.R.L./ I Equip	To The	25A-VBAT (Air tank)	p. 167
Modular F.R.L., re Control Equ	Pressure Gauge	G43-10-01-X300 (Stud, Bourdon tube, Internal parts: Stainless steel)	*2
Modular F.R.L./ Pressure Control Equipmer	20 m23	G46-SRB (Only external parts and wetted parts are made of stainless steel.)	*3
	Stainless Steel Speed Controller	AS-FG (Elbow/Universal/In-line type)	*1
	Speed Controller with Indicator	AS-FSG (Elbow type)	*1
ဟ		AS-FPG (Elbow type)	*1
tting	Quick Exhaust Valve	25A-AQ240F, 340F (Built-in One-touch fittings)	p. 168
ent/Fi	Check Valve	25A-AKH (With One-touch fittings)	p. 169
Flow Control Equipment/Fittings	One-touch Fittings	KQ2 (One-touch fittings) (Only the type without a connection thread)	*1
Equ	Rectangular Multi-connector	25A-KDM (Rectangular multi-connector)	p. 170
trol	Stainless Steel Fittings	KG (One-touch fittings)	*1
Con		KPG (One-touch fittings)	*1
) MO	8ºaU	KQG2 (One-touch fittings)	*1
Ĕ	New	KQ2-G (Stainless steel)	*1
		KFG2 (Insert fittings)	*1
		MS (Miniature fittings)	*1
	• •	KKA (S Couplers stainless steel type)	*1
	Tubing	T (Nylon)	*1
		TS (Soft nylon)	*1
		TU (Polyurethane)	*1
<u> </u>		TA□ (Antistatic)	*1
Tubing		TL (Fluoropolymer)	*1
F		TH (FEP)	*1
		TD (Soft fluoropolymer)	*1
		TPS (Soft polyolefin)	*1
		IDK (Moisture control tube)	*1
Detection Switches	Pressure Switch New	25A-ZSE20(F)/ISE20 (3-screen display high-precision)	p. 171
	New	25A-ZSE20A(F)/ISE20A (3-screen display high-precision)	p. 172
Swit	New	25A-ZSE20B(F)/ISE20B (3-screen display high-precision)	p. 173
	New	25A-ZSE20C(F)/ISE20C(H) (3-screen display high-precision, for general fluids)	p. 174
*1 Stand	dard products: Standard products are copper (Cu) and zinc (Zn)	A from Poter to the Web Catalog for details	

- *1 Standard products: Standard products are copper (Cu) and zinc (Zn) free. Refer to the Web Catalog for details.
 *2 Copper (Cu) and zinc (Zn) free. Please contact your local sales representative for more details.
 *3 Standard products: Copper (Cu) and zinc (Zn) are used for parts other than external parts and wetted parts. Refer to the Web Catalog 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	
	Description	Model (Type)	Page
es	Flow Switch	25A-PFMB7 (2-color display)	p. 175
Ę	New	25A-PFM5 (2-color display, Remote sensor unit)	p. 177
ŠWİ	New	25A-PFM3 (Monitor for air)	p. 178
S L	New New	25A-PF3W (3-color display, Monitor for water)	p. 179
Detection Switches	New	25A-PFM7 (2-color display, Integrated display)	p. 180
ete		25A-PF3W (3-color display, for water)	p. 181
		25A-PF3W (3-color display, for PVC piping)	p. 182
_	Direct Operated	25A-VX2 (For air)	p. 183
ar to	2-Port Solenoid Valve	25A-VX2 (For water/oil/medium vacuum)	p. 184
lo me	Pilot Operated New	25A-VXD (For air)	p. 185
in i	2-Port Solenoid Valve	25A-VXD (For water)	p. 186
Fluid Control Equipment	Zero Differential Pressure Type	25A-VXZ (For air)	p. 187
	Pilot Operated 2-Port Solenoid Valve	25A-VXZ (For water)	p. 188
Process Gas Equipment	Diaphragm Valve for General Applications	AK35□, AK45□ (Air operated type)	*1
Proce Equi	New	AK36□, AK46□ (Manually operated type)	*1
	Electric Actuator	25A-LEFS (Slider type/Step motor, Servo motor: Applicable to the LEC	p. 189
40		25A-LEFS (Slider type/Step motor: Applicable to the JXC□)	p. 191
Electric Actuators		25A-LEFS (Slider type/AC servo motor: Applicable to the LECS	p. 193
tuai		25A-LEFS (Slider type/AC servo motor: Applicable to the LECY	p. 194
Ac		25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECS	p. 195
ric		25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECY (p. 196
<u>e</u> C		25A-LEY (Rod type/Step motor, Servo motor: Applicable to the LEC□)	p. 197
Ш		25A-LEY (Rod type/Step motor: Applicable to the JXC□)	p. 199
		25A-LEY (Rod type/AC servo motor: Applicable to the LECS	p. 201
		25A-LEY (Rod type/AC servo motor: Applicable to the LECY	p. 203
	Solid State Auto Switch	D-M9□□-900	
	New	D-F8□-900	
hes	- THE CAMP	D-Y7□□-900	From
Auto Switches		D-G59, G5P, K59-900	p. 205
Š		D-F79, F7P, J79-900	
uto		D-F7□V-900	
⋖	Reed Auto Switch	D-A90-900	From
		D-Z80-900	p. 205
		D-E73A, E76A, E80A	

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

25A- series grease pack*2 applicable models *2 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 (Safety Standard ISO 13849-1 Certified)	VG342-X87
	Air Cylinder With End Lock	CBM2 MBB
	Cylinder with Lock	CNG□N
ers		CNA2□N
Air Cylinders	Compact Cylinder with Lock	CLQ
Aii	Stopper Cylinder	RSQ
	Heavy Duty Stopper Cylinder	RS2H
pment	Vacuum Pad	ZP□
Vacuum Equipment	Non-contact Gripper	XT661
Vacu	Vacuum Regulator	IRV (Standard)
h Vacuum uipment	Aluminum High Vocuum Angle Volve	XLA (Normally closed)
High V _k	High Vacuum Angle Valve	XLC (Double acting)

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

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 · Miniature Fittings ····· M Series

· Antistatic Tubing ······ TA Series

Flow Control Equipment

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



2 Static Neutralization Equipment

lons generated by corona discharge neutralize static electricity.

- · 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



/Miniature Slide Table Type LEPY/LEPS Series

· Electric Rotary Table LER Series

· Electric Gripper LEH Series · Motorless Type Electric Actuator ······· LE Series



LEPS/LEPY Series





LEM Series





LER Series LEHZ Series

5 High Purity Chemical Liquid Valves

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









Type 11

Bottom Ported

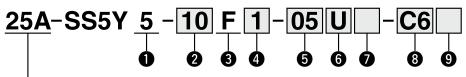
Plug-in Connector Connecting Base

D-sub Connector

25A-SY5000 Series RoHS



How to Order Manifold



 Series compatible with secondary batteries

Series		
5	SY5000	

② Ty	ре
10	Side ported
11	Bottom ported

3 Connector type F: D-sub connector (25 pins)

4 Connector entry direction 2: Lateral

Valve stations

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

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

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

this is not desired, order with a specified layout.

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

6 P, E port entry U side (2 to 10 stations) D side (2 to 10 stations)

Both sides (2 to 24 stations)

	SUP/EXH block assembly		
	Nil	Internal pilot	
	s	Internal pilot,	
	<u> </u>	Built-in silencer	

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

(Metric)

Symbol		A, B port	Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000	
C4	t	ø4 One-touch fitting	•	•	
C6	igh	ø6 One-touch fitting	•	•	
C8	ìtra	ø8 One-touch fitting	•	•	
CM*1	0)	Straight port, mixed sizes	•	•	September 1
P, E port size (One-touch fittings)		ø10	ø10		

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

Mounting

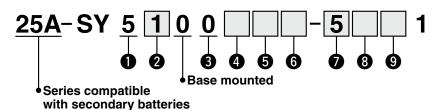
Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

DIN rail option

Diii iui	in ruii option		
Nil	Standard length		
0	With DIN bracket (Without DIN rail)		
3	For 3 stations Specify a longe		
:	:	than the total length	
24	For 24 stations	of specified stations	

- Enter the number of stations inside \square . (Refer to "DIN Rail Option" above.)
- * Only direct mounting is available for Type 11 (Bottom ported).





1 Series SY5000

2 Type of actuation

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

3 Seal type

0 Rubber seal	

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

	71 /
Nil	None
Н	Built-in

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

5 Pilot valve option

Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)

6 Coil type

Nil	Standard	
Т	With power saving circuit (Continuous duty type)	
* Po ours to coloct the newer serving circu		

- Be sure to select the power saving circuit type when the valve is continuously energized 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 catalog.

Rated voltage

5	24 VDC
6	12 VDC

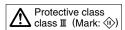
8 Light/surge voltage suppressor and common specification

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

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

Manual override

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





Plug-in Connector Connecting Base

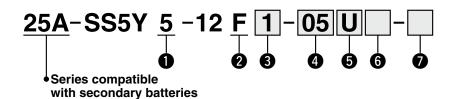
D-sub Connector

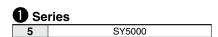


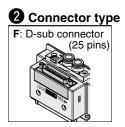
25A-SY5000 Series ROHS



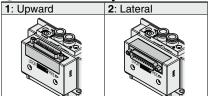
How to Order Manifold







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	•
02	2 stations	Specified layout*2
:	:	(Available up to
24	24 stations	

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

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

with a specified layout.

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

A P. E port entry

<u>•</u> •,	E port critiy
U*1	U side (2 to 10 stations)
D *1	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

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

6 SUP/EXH block assembly

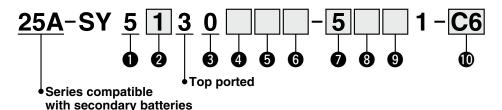
• • • • • • • • • • • • • • • • • • • •	
Nil	Internal pilot
S	Internal pilot, Built-in silencer

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

Mounting

Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	0
:	:	Specify a longer rail than the standard length.
D24	For 24 stations	standard terigin.





Series SY5000

2 Type of actuation

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

Seal type Rubber seal

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

Nil	None
Н	Built-in

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

5 Pilot valve option

Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)

6 Coil type

	Nil	Standard
	Т	With power saving circuit (Continuous duty type)
* Be sure to select the power saving circuit		

- type when the valve is continuously energized 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 catalog.

Rated voltage

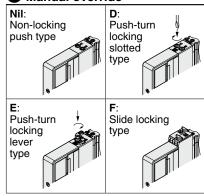
5	24 VDC
6	12 VDC
	12 VDC

8 Light/surge voltage suppressor and common specification

Nithout light/surge voltage suppressor (Non-polar)
With surge voltage suppressor (Non-polar)
Vith light/surge voltage suppressor (Non-polar)
With surge voltage suppressor (Positive common)
Vith light/surge voltage suppressor (Positive common)
With surge voltage suppressor (Negative common)
Vith light/surge voltage suppressor (Negative common)

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

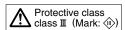
9 Manual override



A, B port size

One-touch fitting (Metric)

one todon numg (metrio)			
Symbol	A, B port	SY5000	
C4	ø4 One-touch fitting	•	
C6	ø6 One-touch fitting	•	
C8	ø8 One-touch fitting	•	





Type 11

Bottom Ported

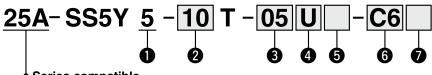
Plug-in Connector Connecting Base

Terminal Block Box

25A-SY5000 Series ROHS



How to Order Manifold



Series compatible with secondary batteries

A Spripe

5	SY5000
5	SY5000

2 Type

	I
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
:	:	
20	20 stations	(Available up to 20 solenoids)

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

P, E port entry

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

5 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

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

Mounting

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

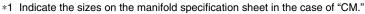
- Enter the number of stations inside □. (Refer to "DIN Rail Option" below.)
- Only direct mounting is available for Type 11 (Bottom ported).

DIN rail option

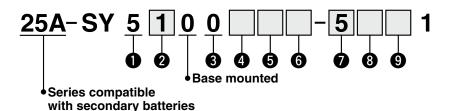
Nil	Standard length		
0	With DIN bracket (Without DIN rail)		
3	For 3 stations Specify a longer rail than the total length of		
- :	:	than the total length of	
24	For 24 stations	specified stations.	

6 A, B port size (Metric)

Symbo	ı	A, B port	Type 10/ Side ported	Type 11/ Bottom ported	
			SY5000	SY5000	
C4	Ļ	ø4 One-touch fitting	•	•	
C6] į	ø6 One-touch fitting	•	•	
C8	itra	ø8 One-touch fitting	•	•	
CM*	رن	Straight port, mixed sizes	•	•	
P, E port size (One-touch fittings)		ø10	ø10		



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



1 Series SY5000

2 Type of actuation

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

3 Seal type

Rubber seal

Back pressure check valve (Built-in valve type)

(Dulit-III valve type)	
Nil	None
Н	Built-in

 The built-in valve type back pressure check valve is not available for the 3-position type. 6 Pilot valve option

Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)

6 Coil type

Nil	Standard	
Т	With power saving circuit (Continuous duty type)	
* Po o	Bo sure to coloct the newer saving circuit	

- * Be sure to select the power saving circuit type when the valve is continuously energized 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 catalog.

Rated voltage

Trated voltage	
5	24 VDC
6	12 VDC

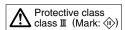
8 Light/surge voltage suppressor and common specification

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

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

9 Manual override

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





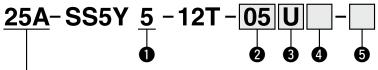
Plug-in Connector Connecting Base

Terminal Block Box

25A-SY5000 Series ROHS



How to Order Manifold



 Series compatible with secondary batteries

Series

SY5000

3 P, E port entry

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

*1 4 For type "S," supply/exhaust block assembly with 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	
:	:		
20	20 stations	(Available up to 20 solenoids)	

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

SUP/FXH block assembly

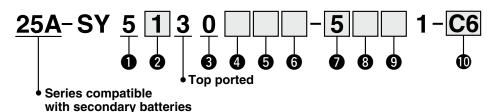
OCI /EXII BIOOK GOODINDIY		
Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

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

5 Mounting

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





Series SY5000

Type of actuation

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

3 Se	al type		
0		Rubber seal	

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

Nil	None
Н	Built-in

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

5 Pilot valve option

Ni	ı	Standard (0.7 MPa)
В		Quick response type (0.7 MPa)

6 Coil type

Nil	Nil Standard					
Т	With power	saving circ	uit (Continuo	ous	duty 1	type)
				-		

- * Be sure to select the power saving circuit type when the valve is continuously energized 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 catalog.

Rated voltage

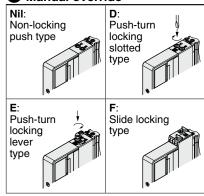
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

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

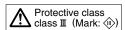
* Only "Z" and "NZ" types are available for the product with power saving circuit.

Manual override



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

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







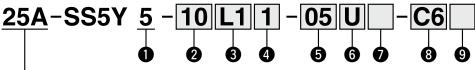
Plug-in Connector Connecting Base

Lead Wire

25A-SY5000 Series ROHS



How to Order Manifold



 Series compatible with secondary batteries

Series SY5000

Number of cores (Lead wire)

L1	34 cores
L2	17 cores
L3	9 cores

2 Туре				
10	Side ported			
11	Bottom ported			

4	Lead	wire	length
v	LCau	WIIC	ichigui

	Lead wife length		
1	0.6 m		
2	1.5 m		
3	3 m		

Valve stations

(L1L	」)	
Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
16	16 stations	_
02	2 stations	Specified layout*2
:	:	(Available up to
24	24 stations	32 solenoids)

(L3	□)	
Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
04	4 stations	_
02	2 stations	Specified layout*2
:	:	(Available up to
08	8 stations	8 solenoids)

(L2	□)	
Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
08	8 stations	_
02	2 stations	Specified layout*2
:	:	(Available up to
16	16 stations	16 solenoids)

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

6 P. E port entry

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

SUP/EXH block assembly

	, = ,	
Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

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

8 A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000	
C4	ţ	ø4 One-touch fitting	•	•	
C6	igh	ø6 One-touch fitting	•	•	
C8	štra	ø8 One-touch fitting	•	•	
CM*1	0)	Straight port, mixed sizes	•	•	al Santa
P, E	ро	rt size (One-touch fittings)	ø10	ø10	

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

Mounting

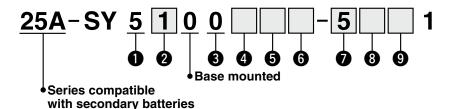
Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

- * Enter the number of stations inside \square . (Refer to "DIN Rail Option" below.)
- * Only direct mounting is available for Type 11 (Bottom ported).

DIN rail option

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





1 Series 5 SY5000

2 Type of actuation

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

3 Seal type

Rubber seal

Back pressure check valve (Built-in valve type)

Nil	None
Н	Built-in

 The built-in valve type back pressure check valve is not available for the 3-position type. 6 Pilot valve option

Nil	Standard (0.7 MPa)	
В	Quick response type (0.7 MPa	ι)

6 Coil type

Nil Standard		
Т	With power saving circuit (Continuous duty type)	
* Bo cı	Be sure to select the nower saving circuit	

- * Be sure to select the power saving circuit type when the valve is continuously energized 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 catalog.

Rated voltage

5	24 VDC
6	12 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

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

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

Manual override

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

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

Plug-in Connector Connecting Base

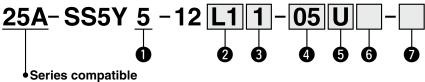
Lead Wire



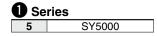
25A-SY5000 Series ROHS



How to Order Manifold



with secondary batteries



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

<u>/</u>	<u> </u>	
Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
16	16 stations	_
02	2 stations	Specified layout*2
:	:	(Available up to
24	24 stations	32 solenoids)

(L3	(L3□)		
	Stations		
02	2 stations		
:	:	Double wiring*1	
04	4 stations		
02	2 stations	Specified layout*2	
:		(Available up to	
08	8 stations	8 solenoids)	

(L2□) Symbol Stations Note **02** 2 stations : Double wiring*1 **08** 8 stations **02** 2 stations Specified layout*2 (Available up to

16 solenoids)

16 | 16 stations

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

P F port entry

<u> </u>	<u> </u>
U*1	U side (2 to 10 stations)
D *1	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

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

6 SUP/EXH block assembly

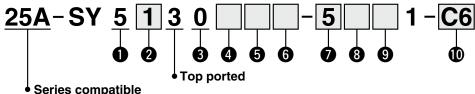
Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

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

Mounting

• mounting				
Ni	il	Direct mounting		
D)	DIN rail mounting (With DIN rail)		
D	0	DIN rail mounting (Without DIN rail)		
D:	3	For 3 stations	Specify a longer rail	
:		:	than the standard	
D2	4	For 24 stations	length.	





 Series compatible with secondary batteries

Series 5SY5000

2 Type of actuation

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

Seal type

	71
0	Rubber seal

Back pressure check valve (Built-in valve type)

Nil	None
Н	Built-in

 The built-in valve type back pressure check valve is not available for the 3-position type. **5** Pilot valve option

Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)

6 Coil type

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

- Be sure to select the power saving circuit type when the valve is continuously energized 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 catalog.

7 Rated voltage

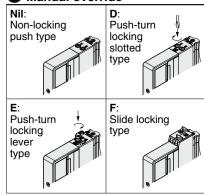
24 VDC	5
12 VDC	6
	6

8 Light/surge voltage suppressor and common specification

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

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

9 Manual override



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

Symbol		SY5000
C4	ø4 One-touch fitting	•
C6	ø6 One-touch fitting	•
C8	ø8 One-touch fitting	•

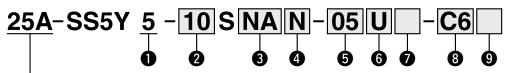


Type 11 **Bottom Ported** Plug-in Connector Connecting Base

25A-SY5000 Series ROHS



How to Order Manifold



Series compatible with secondary batteries

Series

SY5000

2 Type

<u>• · ,</u>	Po
10	Side ported
11	Bottom ported

SI unit specifications

or unit specifications			
Symbol	Protocol	Number of outputs	Communication connector
0	Wi	thout SI u	nit
QA	DeviceNet™	32	
QB	Device Net	16	
NA	PROFIBUS DP	32	
NB		16	
VA	CC-Link EtherCAT	32	
VB		16	M12
DA		32	IVITZ
DB		16	
FA	PROFINET	32	
FB	PROFINE	16	
EA	EtherNet/IP™	32	
EB		16	

For SI unit part number, refer to page 35. DIN rail cannot be mounted without SI

4 SI unit output polarity

Nil	Positive common
N	Negative common

- * Ensure a match with the common specifications of the value to be used.
- * Without SI unit, the symbol is nil.

5 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	C = = = : f := =
:	:	Specified layout*2 (Available up to 32 solenoids)
24	24 stations	(Available up to 32 soleriolus)

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	
1	:	Double wiring*1
08	8 stations	_
02	2 stations	Consider the state of the state
- i	:	Specified layout*2 (Available up to 16 solenoids)
16	16 stations	(Available up to 10 soleriolus)

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations.
 - Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- 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 the blanking plate assembly.
- For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

6 P. E port entry

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

7 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
	mitorrian prioti Dant in onorioon

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

Mounting

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

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

DIN rail option

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

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

A. B port size (Metric)

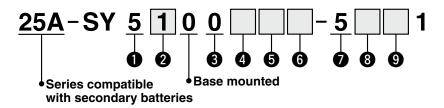
9	A, D port size (ilieti ic)				
Symbol	A, B port		Type 10/ Side ported	Type 11/ Bottom ported	
			SY5000	SY5000	
C4		ø4 One-touch fitting	•	•	nt.
C6	igh	ø6 One-touch fitting	•	•	
C8	ø8 One-touch fitting		•	•	
CM*1	יט	Straight port, mixed sizes	•	•	"
P, E	poi	rt size (One-touch fittings)	ø10	ø10	

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

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

For details about the EX260 Integrated-type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 35 in this catalog. Please download the Operation Manual via our website.





Series SY5000

2 Type of actuation

G 19	pe oi actuation
1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
Α	4-position dual 3-port valve (N.C./N.C.)
В	4-position dual 3-port valve (N.O./N.O.)
С	4-position dual 3-port valve (N.C./N.O.)

Seal type Rubber seal

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

Nil	None
Н	Built-in

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

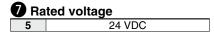
5 Pilot valve option

Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)

6 Coil type

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

- * Be sure to select the power saving circuit type when the valve is continuously energized 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 catalog.

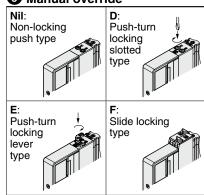


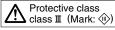
8 Light/surge voltage suppressor and common specification

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

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

9 Manual override





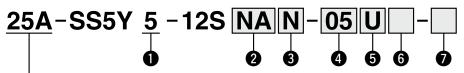


Plug-in Connector Connecting Base

25A-SY5000 Series RoHS



How to Order Manifold



 Series compatible with secondary batteries

Series SY5000

2 SI unit specifications

Symbol	Protocol	Number of	Communication
Cyllibol	1 1010001	outputs	connector
0	W	ithout SI u	nit
QA	DeviceNet™	32	
QB	Devicemet	16	
NA	PROFIBUS	32	
NB	DP	16	
VA	CC-Link	32	
VB		16	M12
DA	EtherCAT	32	IVIIZ
DB	EllielCAT	16	
FA	PROFINET	32	
FB		16	
EA	CabN - 4/IDTM	32	
EB	EtherNet/IP™	16	

For SI unit part number, refer to page 35. DIN rail cannot be mounted without SI

3 SI unit output polarity

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

- * Ensure a match with the common specifications of the value to be used.
- Without SI unit, the symbol is nil.

4 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
16	16 stations	Specified layout*2
02	2 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	Consider all laws with?
:	:	Specified layout*2 (Available up to 16 solenoids)
16	16 stations	

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

A P F nort entry

O 1, E port critiy		
U*1	U side (2 to 10 stations)	
D*1	D side (2 to 10 stations)	
В	Both sides (2 to 24 stations)	

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

6 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

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

Mounting

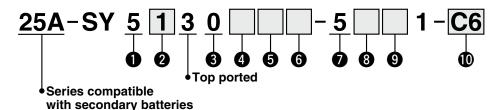
Nil	Direct mounting		
D	DIN rail mounting (With DIN rail) DIN rail mounting (Without DIN rail For 3 stations Specify a longer		
D0			
D3			
:	:	rail than the	
D24	For 24 stations	standard length.	

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

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

For details about the EX260 Integrated-type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 35 in this catalog. Please download the Operation Manual via our website.





Series

SY5000

2 Type of actuation

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

Seal type

Rubber seal

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

	71 /
Nil	None
Н	Built-in

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

6 Pilot valve option

	•
Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)

6 Coil type

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

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

Rated voltage

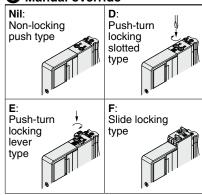
24 VDC

8 Light/surge voltage suppressor and common specification

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

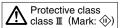
- Select a valve from "R," "U," "S" or "Z" when the SI unit output polarity is Nil (Positive common). Select a valve from "R," "U," "NS" or "NZ" when the SI unit output polarity is "N" (Negative common). Only "Z" and "NZ" types are available for
- the product with power saving circuit.

Manual override



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

	to don manny (mount	-,
Symbol	A, B port	SY5000
C4	ø4 One-touch fitting	•
C6	ø6 One-touch fitting	•
C8	ø8 One-touch fitting	•





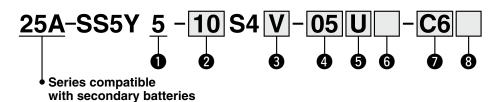
ype 10 Type 11 **Bottom Ported**

Plug-in Connector Connecting Base

25A-SY5000 Series ROHS



How to Order Manifold



Series

SY5000

2 Type

10	Side ported
11	Bottom ported

3 SI unit

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

* Only a terminal block plate is mounted for the valve without SI unit. For SI unit part number, refer to page 35.

4 Valve stations

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

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold
 - 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 the blanking plate assembly.

5 P, E port entry

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

6 SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

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

8 Mounting

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

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

DIN rail option

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

A, B port (Metric)

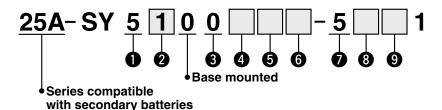
Symb	ol	A, B port		Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000	
C4			ø4 One-touch fitting	•	•	
C	<u>5</u>	5	ø6 One-touch fitting	•	•	
C	3 2	3 [ø8 One-touch fitting	•	•	
CM ³	1 0.	1	Straight port, mixed sizes	•	•	September 1
P,	P, E port size (One-touch fittings)		ø10	ø10		

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

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

For details about the EX126 Integrated-type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 35 in this catalog. Please download the Operation Manual via our website.





1 Series

5 SY5000

2 Type of actuation

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

3 Seal type

Rubber seal

Back pressure check valve (Built-in valve type)

	71 /
Nil	None
Н	Built-in

 The built-in valve type back pressure check valve is not available for the 3-position type. 6 Pilot valve option

Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)

6 Coil type

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

- * Be sure to select the power saving circuit type when the valve is continuously energized 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 catalog.



 Light/surge voltage suppressor and common specification

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

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

Manual override

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



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

Plug-in Connector Connecting Base

Type 12

25A-SY5000 Series ROHS



How to Order Manifold



Series

SY5000

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 number, refer to page 35. 3 Valve stations

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
08	8 stations	
02	2 stations	
:	:	
16	16 stations	

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

4 P. E port entry

• i , = port ontry	
U*1	U side (2 to 10 stations)
D*1	D side (2 to 10 stations)
В	Both sides (2 to 16 stations)

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

5 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

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

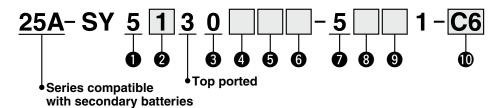
6 Mounting

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

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

For details about the EX126 Integrated-type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 35 in this catalog. Please download the Operation Manual via our website.





Series

5	SY5000
A T.,,	no of actuation
2 Type of actuation	

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

Seal type

Rubber seal

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

Nil	None
Н	Built-in

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

5 Pilot valve option

Nil	Standard (0.7 MPa) Quick response type (0.7 MPa)	
В		

6 Coil type

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

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

Rated voltage

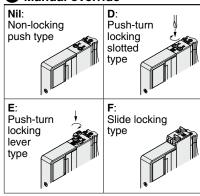
24 VDC

8 Light/surge voltage suppressor and common specification

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

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

Manual override



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

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

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

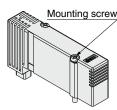
. Caution

Tightening torque for mounting screw M3: 0.8 N·m

Manifold Options

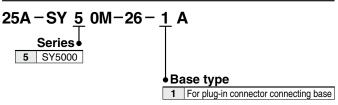
■Blanking plate assembly

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



25A-SY50M-26-1A

How to Order Blanking Plate Assembly





25A-SY5000 Series

SI Unit Part Nos.

Description	SI unit part no.	Note
	EX260-SPR1-X117	PROFIBUS DP M12 connector, 32 outputs, Negative common (PNP)
	EX260-SPR2-X117	PROFIBUS DP M12 connector, 32 outputs, Positive common (NPN)
	EX260-SPR3-X117	PROFIBUS DP M12 connector, 16 outputs, Negative common (PNP)
	EX260-SPR4-X117	PROFIBUS DP M12 connector, 16 outputs, Positive common (NPN)
	EX260-SDN1-X117	DeviceNet TM M12 connector, 32 outputs, Negative common (PNP)
	EX260-SDN2-X117	DeviceNet TM M12 connector, 32 outputs, Positive common (NPN)
	EX260-SDN3-X117	DeviceNet TM M12 connector, 16 outputs, Negative common (PNP)
	EX260-SDN4-X117	DeviceNet TM M12 connector, 16 outputs, Positive common (NPN)
	EX260-SEC1-X117	EtherCAT M12 connector, 32 outputs, Negative common (PNP)
	EX260-SEC2-X117	EtherCAT M12 connector, 32 outputs, Positive common (NPN)
	EX260-SEC3-X117	EtherCAT M12 connector, 16 outputs, Negative common (PNP)
EX260 SI unit	EX260-SEC4-X117	EtherCAT M12 connector, 16 outputs, Positive common (NPN)
EA260 SI UIIII	EX260-SMJ1-X117	CC-Link M12 connector, 32 outputs, Negative common (PNP)
	EX260-SMJ2-X117	CC-Link M12 connector, 32 outputs, Positive common (NPN)
	EX260-SMJ3-X117	CC-Link M12 connector, 16 outputs, Negative common (PNP)
	EX260-SMJ4-X117	CC-Link M12 connector, 16 outputs, Positive common (NPN)
	EX260-SPN1-X117	PROFINET M12 connector, 32 outputs, Negative common (PNP)
	EX260-SPN2-X117	PROFINET M12 connector, 32 outputs, Positive common (NPN)
	EX260-SPN3-X117	PROFINET M12 connector, 16 outputs, Negative common (PNP)
	EX260-SPN4-X117	PROFINET M12 connector, 16 outputs, Positive common (NPN)
	EX260-SEN1-X117	EtherNet/IP™ M12 connector, 32 outputs, Negative common (PNP)
	EX260-SEN2-X117	EtherNet/IP™ M12 connector, 32 outputs, Positive common (NPN)
	EX260-SEN3-X117	EtherNet/IP™ M12 connector, 16 outputs, Negative common (PNP)
	EX260-SEN4-X117	EtherNet/IP™ M12 connector, 16 outputs, Positive common (NPN)
EX126 SI unit	EX126D-SMJ1-X220	CC-Link (Terminal block, 16 outputs, Positive common (NPN))

Valve Mounting Screw Part No.

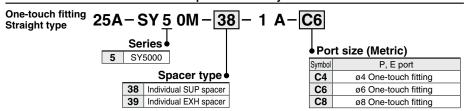
Description	Part no.	Note
Description	25A-SS5Y5	
Round head	SY5000-223-1A	Part numbers shown on the left
combination screw		are for 10 valves. (20 pcs.)

One-touch Fittings Part Nos.

	Port size			25A-SY5000
	A. B	Metric size	ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
	port		ø6 One-touch fitting (Straight type)	
İ	port	Size	ø8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8
	P, E	Metric	ø10 One-touch fitting	90-VVQ2000-51A-C10
	port	size	(Straight type)	90-VVQ2000-51A-C10

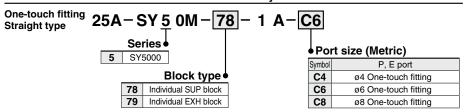
Manifold Options





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

How to Order Individual SUP/EXH Block Assembly



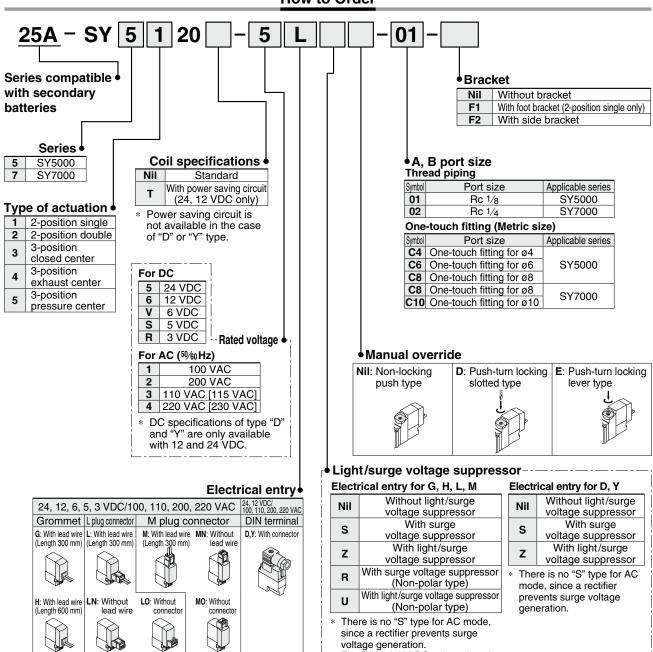


5-Port Solenoid Valve

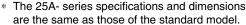
Body Ported/Single Unit

25A-SY5000/7000 Series





- "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.
- 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.



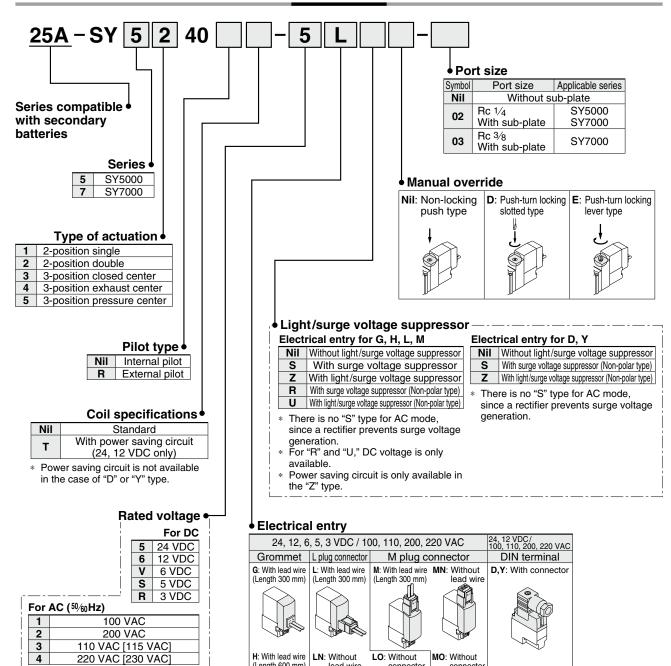


5-Port Solenoid Valve

Base Mounted/Single Unit

25A-SY5000/7000 Series

How to Order



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

lead wire

(Length 600 mm)

"Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).

connector

- 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.



24 VDC.

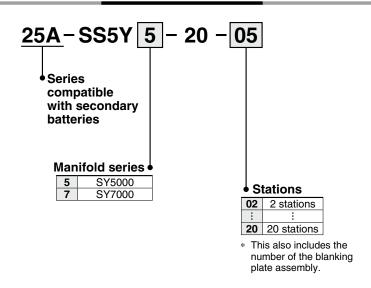
DC specifications of type "D" and "Y" are only available with 12 and

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



25A-SY5000/7000 Series

How to Order Manifold

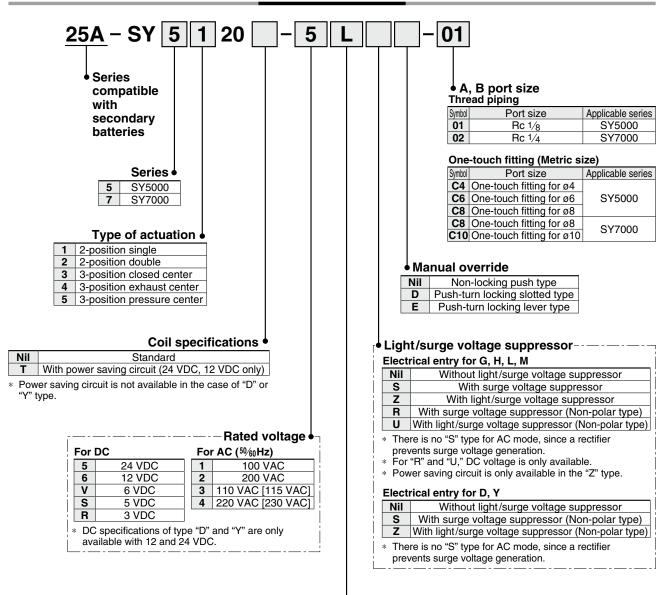


* The 25A- series specifications and dimensions are the same as those of the standard model. However, the blanking plate assembly has different dimensions. Refer to page 42.



25A-SY5000/7000 Series

How to Order Valves



Electrical entry

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

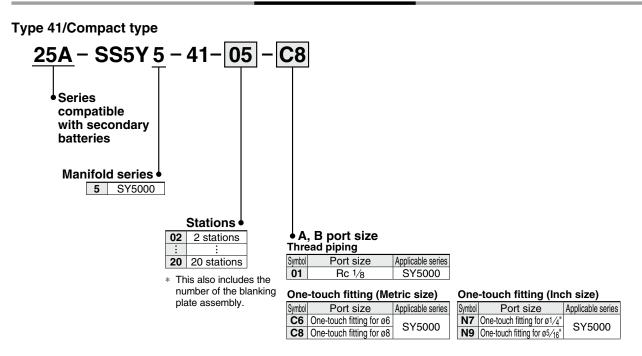
^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

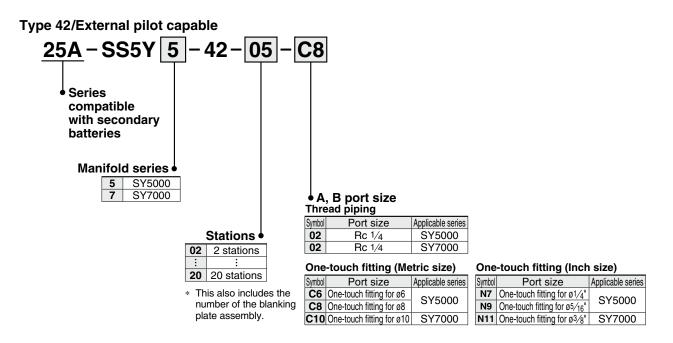




5-Port Solenoid Valve Base Mounted Manifold Bar Stock Type/Individual Wiring 25A-SY5000/7000 Series

How to Order Manifold



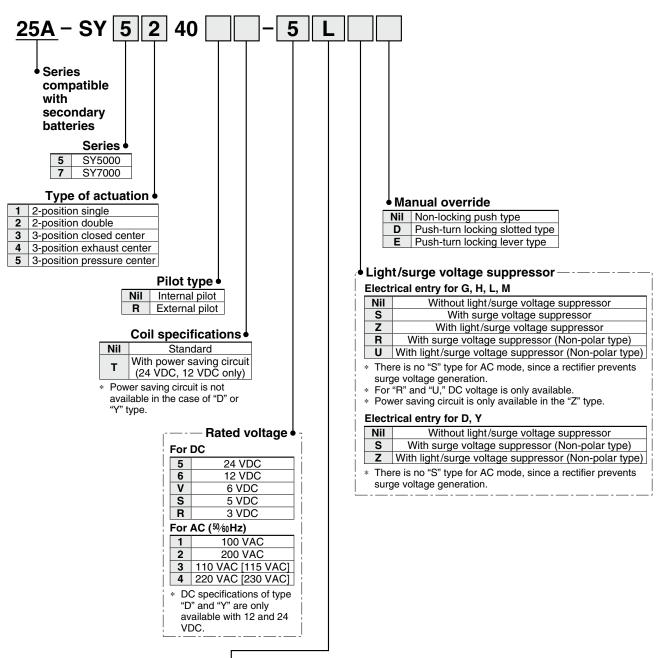


^{*} The 25A- series specifications and dimensions are the same as those of the standard model. However, the blanking plate assembly has different dimensions. Refer to page 42.



25A-SY5000/7000 Series

How to Order Valves



Electrical entry

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

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

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



5-Port Solenoid Valve 25A-SY5000/7000 Series

One-touch Fittings Part Nos. for Body Ported

		<i>,</i>		
Port size			25A-SY5000	25A-SY7000
		ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4	
O dia dan a ant	nort Metric size	ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6	
Cylinder port		90-VVQ1000-51A-C8	90-VVQ2000-51A-C8	
		ø10 One-touch fitting (Straight type)		90-VVQ2000-51A-C10

Gasket Assembly Part 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	SY7000-GS-4

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

Bracket Assembly Part Nos.

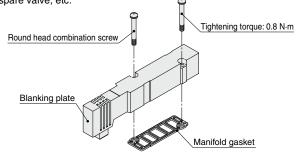
Description	Part no.	
Bracket (For F1)	25A-SX ₇ 000-16-2A (With mounting screw)	
Bracket (For F2)	25A-SX ₇ 000-16-1A (With mounting screw)	

Manifold Options

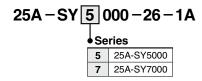
■Blanking plate assembly

(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

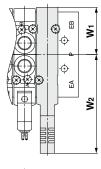


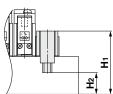
⚠ Caution

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

Dimensions

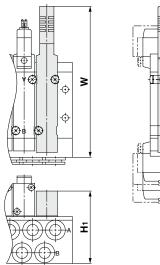
Manifold type/For type 20





Dimensions [mm					
Series	Manifold type	W 1	W2	H ₁	H ₂
25A-SY5000	Type 20	33.3	69.6	44.5	15.2
25A-SY7000	Type 20	39.4	76.4	41.1	18.3

Manifold type/For type 41/42



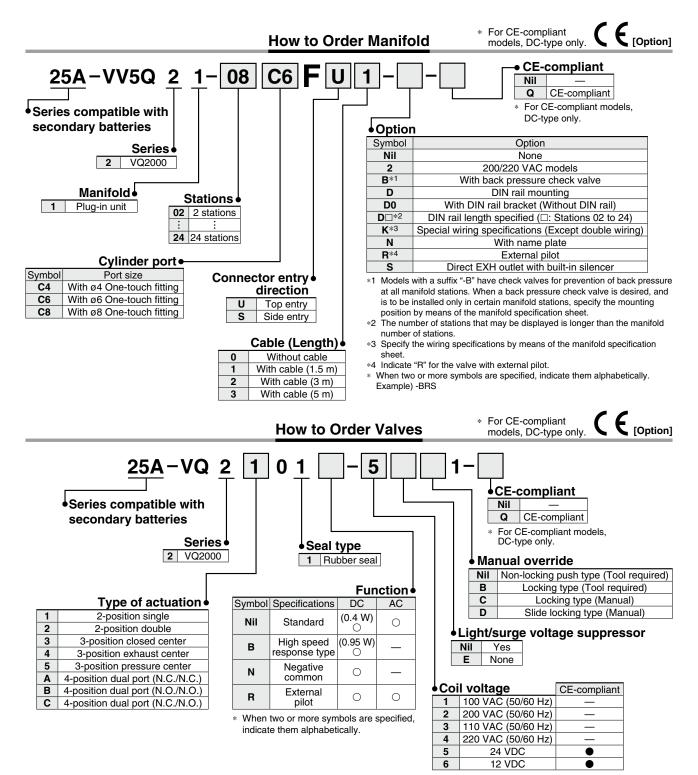
Dimensions [mm]					
Series	Manifold type	w	H1	H2	
25A-SY5000	Type 41	106.4	51	21.7	
	Type 42	107.6	56	26.7	
25A-SY7000	Type 42	118.1	55.6	32.8	



H₂

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

25A-VQ2000 Series





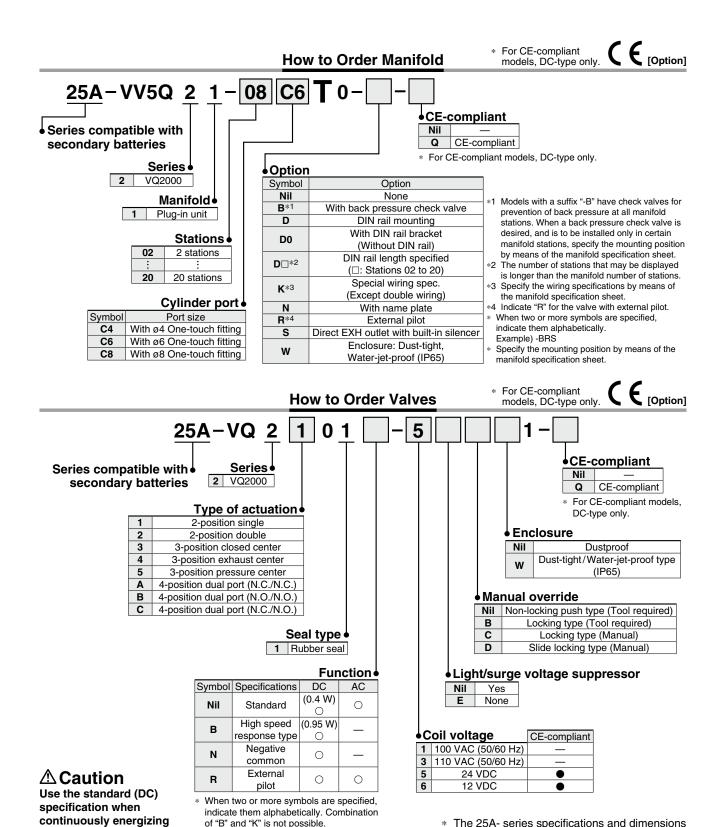
Use the standard (DC) specification when continuously energizing for long periods of time.

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



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

25A-VQ2000 Series



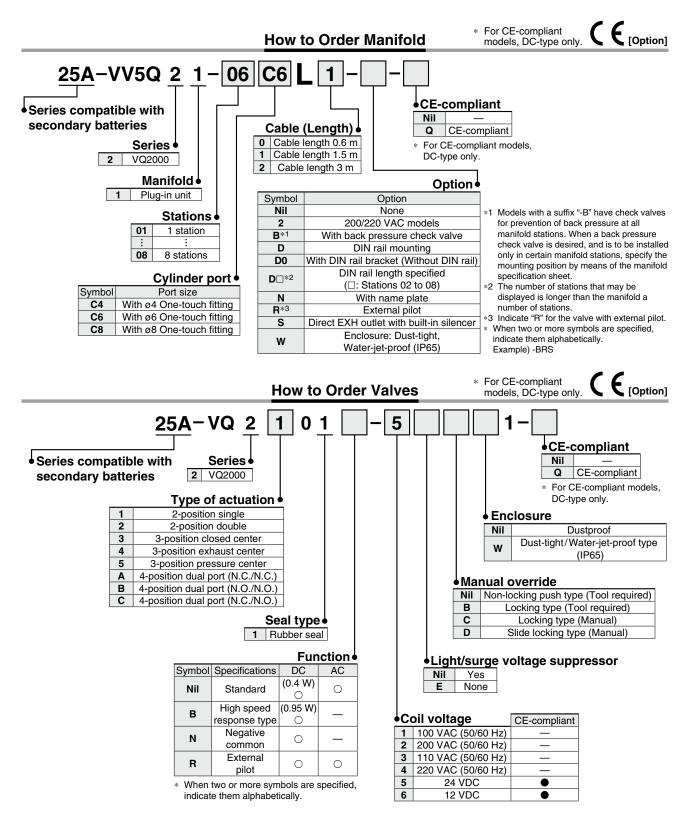


for long periods of time.

Plug-in Unit/Base Mounted

L Kit (Lead wire)

25A-VQ2000 Series



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

25A-VQ2000 Series

C6



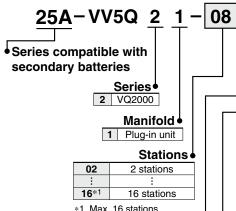
Refer to "SI Unit Part Nos." when ordering the CE-compliant SI unit.

CE-compliant

CE-compliant Refer to "SI Unit Part Nos." when

ordering the CE-compliant SI unit.





*1 Max. 16 stations. (Specify a model with 9 to 16 stations by means of the manifold specification sheet.)

Symbol Port size With ø4 One-touch fitting

Cylinder port

C4 With ø6 One-touch fitting With ø8 One-touch fitting

SI unit specifications

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

Optio		,
Symbol	Option]
Nil	None	
B*1	With back pressure check valve	
D	DIN rail mounting	
D □*2	DIN rail length specified	
D_"-	(□: Stations 02 to 16)	
K *3	Special wiring specifications	
K.s	(Except double wiring)	
N	With name plate	
R*4	With external pilot	
s	Direct EXH outlet	
_ s	with built-in silencer	
W*5	Enclosure: Dust-tight,]
VV**S	Water-jet-proof (IP65)	

SI Unit Part Nos.

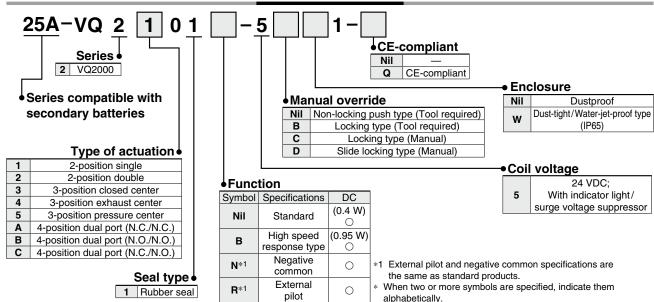
Symbol	Protocol	SI unit part no.
Q	DeviceNet™	EX120-SDN1-X220
V	CC-Link	EX120-SMJ1-X220

- *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.
- Specify the wiring specifications by means of the manifold specification sheet.
- *4 Indicate "R" for the valve with external pilot. *5 Refer to "Dimensions" of the standard products for SI unit and valve, in case of "W" (Dust-tight, Water-
- * When two or more symbols are specified, indicate them alphabetically.

SI Unit Part Nos. (With option W)

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

How to Order Valves

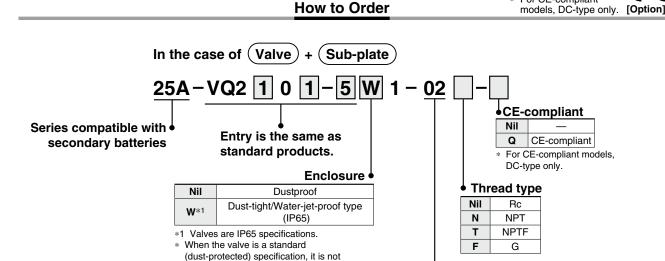


* The 25A- series specifications and dimensions are the same as those of the standard model.



Sub-plate Single Unit

25A-VQ2000 Series



25A-VQ2000-PW-02

compatible with 200 or 220 VAC.

In the case of (Sub-plate)

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

Port size

* For CE-compliant

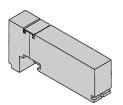
25A-VQ2000 Series

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.

SI Unit Part Nos.

Description	SI unit part no.	Note
EX124 SI unit	EX124D-SMJ1-X220	CC-Link
EX 124 SI unit	EX124D-SDN1-X220	DeviceNet TM
EX120 SI unit	EX120-SMJ1-X220	CC-Link (VQ2000/Without option "W")
EX 120 SI UIIII	EX120-SDN1-X220	DeviceNet [™] (VQ2000/Without option "W")

One-touch Fittings Part Nos.

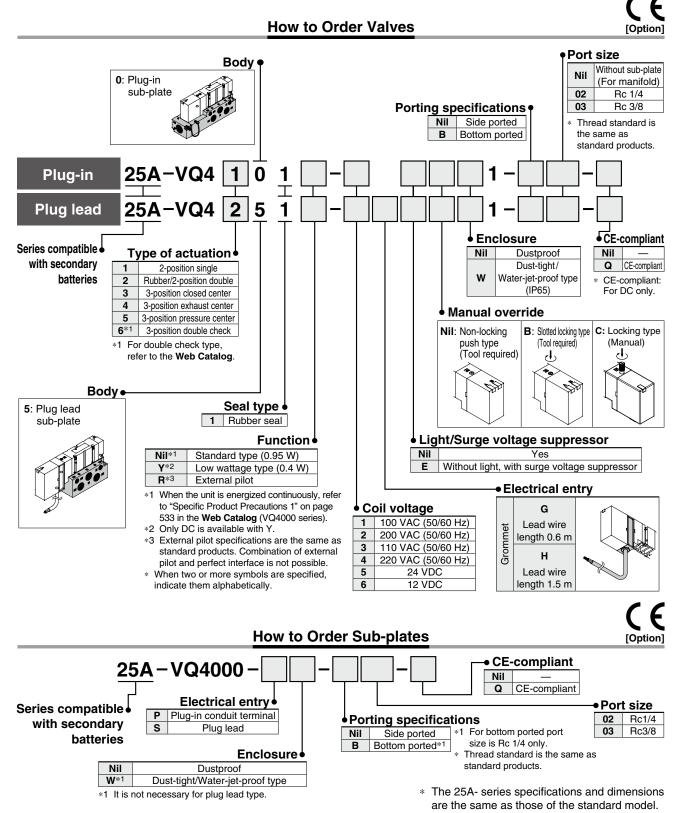
one todon'r ittingo'r ai't 1100.					
Port size			One-touch fitting part no.		
		ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4		
Cylinder port	Cylinder port Metric size	ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6		
		ø8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8		
1 (P), 3 (R) port	Metric size	ø10 One-touch fitting (Straight type)	90-VVQ2000-51A-C10		



Plug-in/Plug Lead: Single Unit

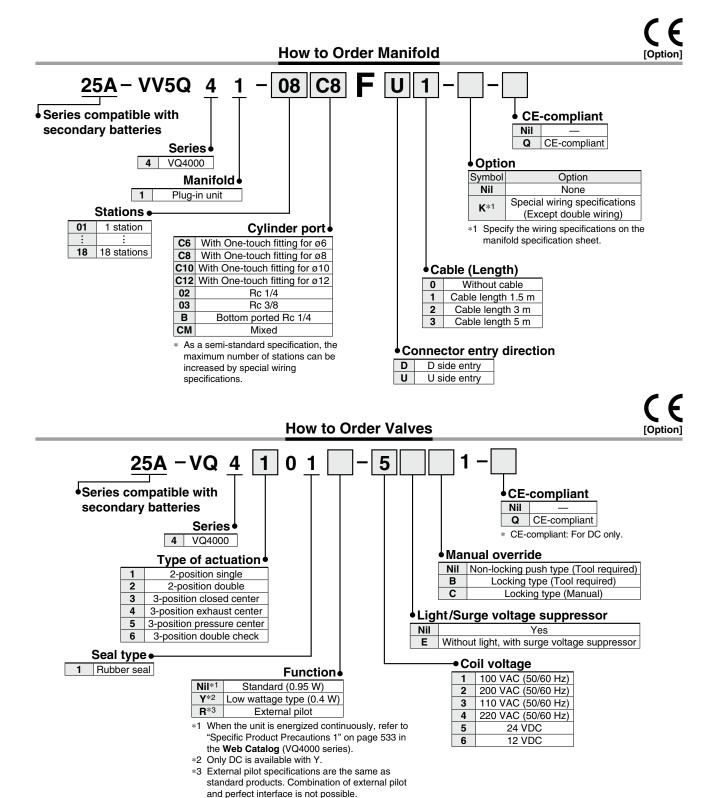
Base Mounted

25A-VQ4000 Series



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

25A-VQ4000 Series





When two or more symbols are specified, indicate

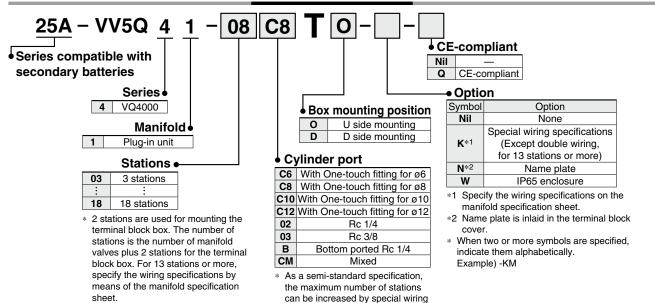
them alphabetically.

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

25A-VQ4000 Series

How to Order Manifold

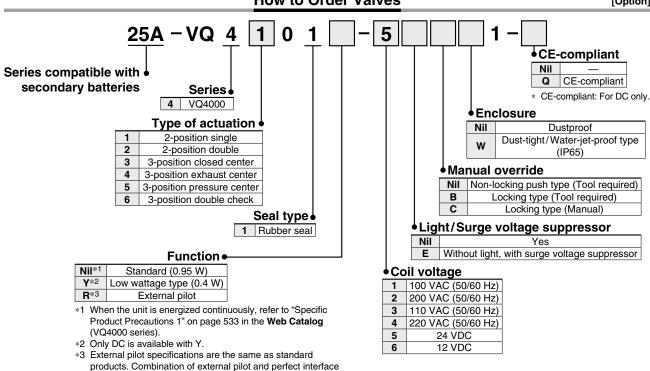
(E



How to Order Valves

specifications

(E



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



is not possible.

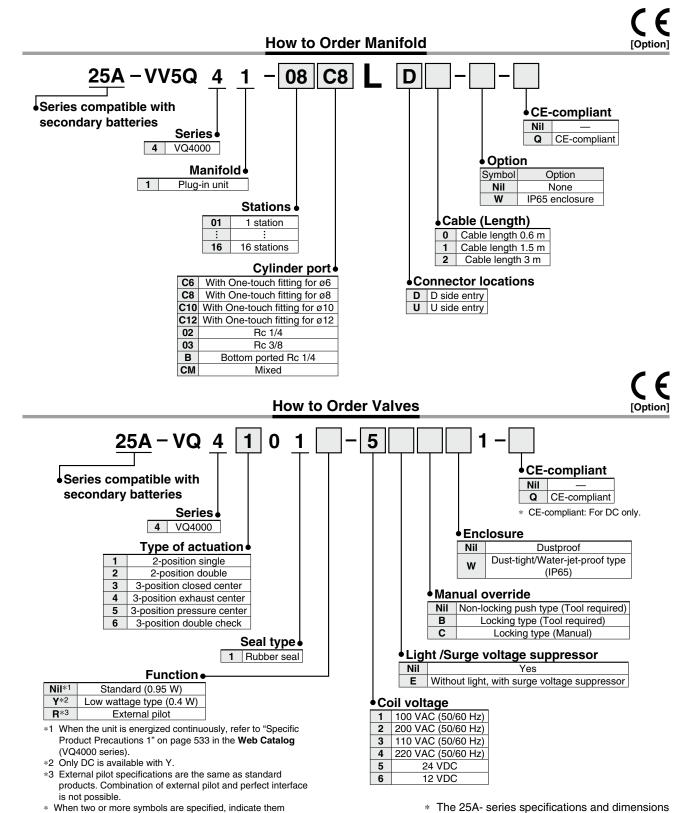
alphabetically.

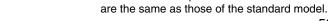
* When two or more symbols are specified, indicate them

Plug-in Unit/Base Mounted

L Kit (Lead wire cable)

25A-VQ4000 Series



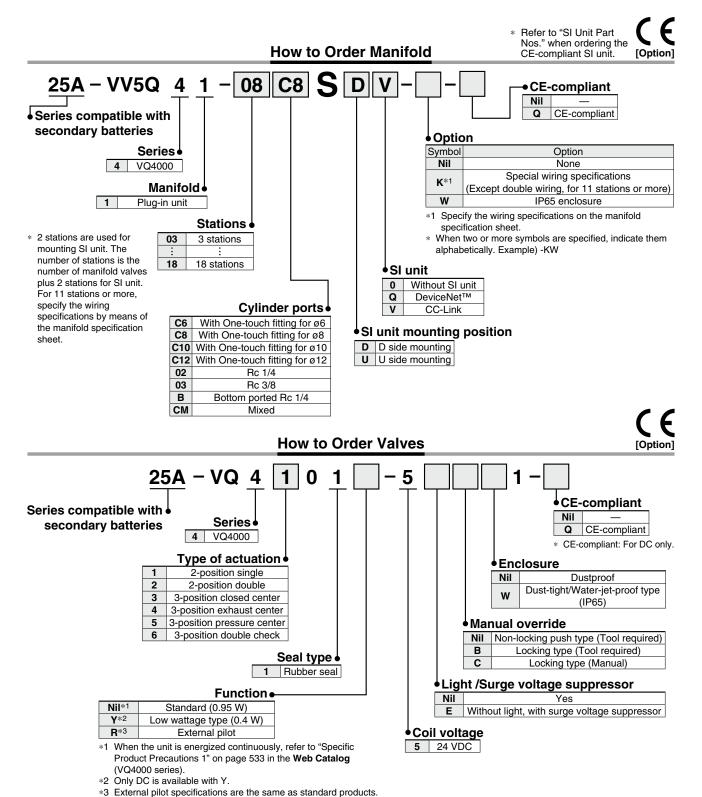




alphabetically.

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

25A-VQ4000 Series



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



Combination of external pilot and perfect interface is not possible.

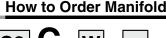
When two or more symbols are specified, indicate them

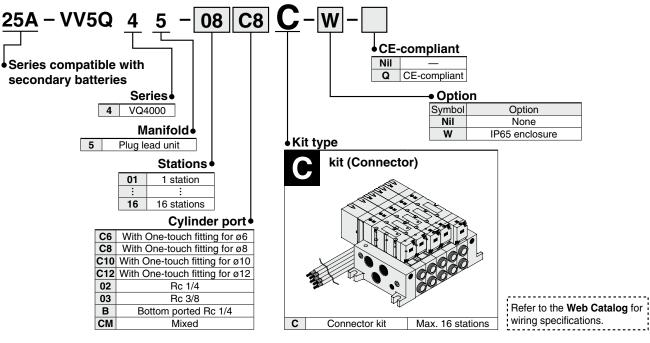
alphabetically.

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

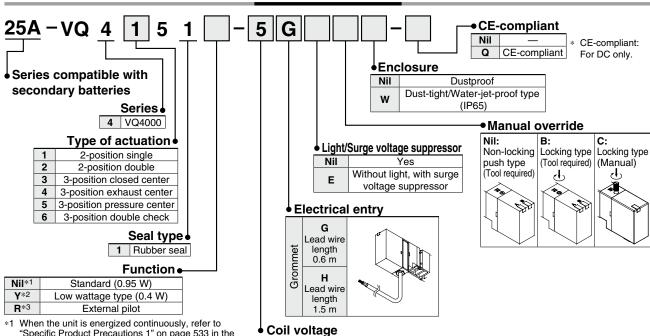


25A-VQ4000 Series





How to Order Valves



'Specific Product Precautions 1" on page 533 in the Web Catalog (VQ4000 series).

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.



100 VAC (50/60 Hz)

200 VAC (50/60 Hz)

3 110 VAC (50/60 Hz)

4

5

220 VAC (50/60 Hz)

24 VDC

12 VDC

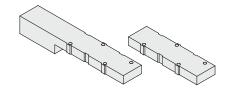
25A-VQ4000 Series

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.

SI Unit Part Nos.

Description	SI unit part no.	Note
	EX124D-SMJ1-X220	CC-Link/D side mounting
EX124 SI unit	EX124D-SDN1-X220	DeviceNet™/D side mounting
EX124 SI UIIII	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	ø6 One-touch fitting (Straight type)	90-VVQ4000-50B-C6	
	Matria aiza	ø8 One-touch fitting (Straight type)	90-VVQ4000-50B-C8
	Wetric Size	ø10 One-touch fitting (Straight type)	90-VVQ4000-50B-C10
		ø12 One-touch fitting (Straight type)	90-VVQ4000-50B-C12

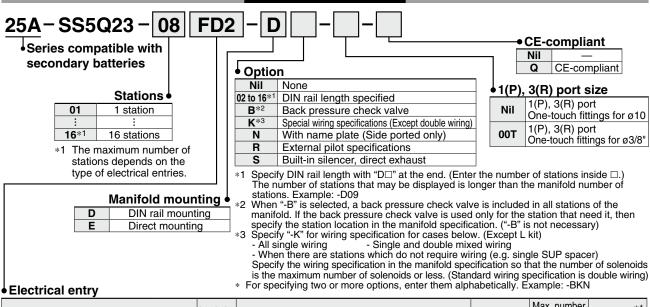


Plug-in Unit

25A-SQ2000 Series



How to Order Manifold



LICCUIC	ai Citti y						
	Kit type		Lead wire connector location	Cable specifications	Station	Max. number of stations for special wiring specifications	*1 Max. number of solenoids
kit parts	electric s are made speer. Stainless steel speer. U side One-touch fitting Body: Stainless steel	FD0 FD1 FD2 FD3	D side	D-sub connector (25P) kit, without cable D-sub connector (25P) kit, with 1.5 m cable D-sub connector (25P) kit, with 3.0 m cable D-sub connector (25P) kit, with 5.0 m cable	1 to 12 stations	16 stations	24
Terminal bloc box kit	sk Selection	TD0	D side	Terminal block box kit	1 to 10 stations	16 stations	16
L kit	Mounting screw: Stainless steel	LD0 LU0	D side U side	Lead wire kit with 0.6 m cable			
		LD1 LU1	D side U side	Lead wire kit with 1.5 m cable	1 to 12 stations	_	_
Lead wire kit	One-touch fitting Body: Stainless steel	LD2 LU2	D side U side	Lead wire kit with 3.0 m cable			
S kit The electric parts are made	Mounting screw:Stainless steel	SDQ	Daide	DeviceNet™	1 to 8 stations	16 stations	16
of copper. Serial transmi EX140 integra	One-touch fitting Body: Stainless steel ission kit ated-type (for output) ssion system*2	SDV	D side	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.)

SI unit part nos.

Symbol	Protocol type	SI unit part no.	Page
SDQ	DeviceNet™	EX140-SDN1-X220	n 60
SDV	CC-Link	EX140-SMJ1-X220	p. 60

Blanking plate assembly

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



^{*2} Refer to the **Web Catalog** for the details of EX140 integrated-type (for output) serial transmission system. Refer to "SI unit part nos." below when ordering the CE-compliant SI unit.

How to Order Valves 25A-SQ2 1 3 1 **C6** 5 Series **♦ CE-compliant** compatible Nil with CE-compliant secondary batteries With/Without manifold block MB Without manifold With manifold With manifold block, built-in Type of actuation block block back pressure check valve 2-position single 1 2-position double 2 (Double solenoid)*1 3 3-position closed center Lead wire is not included. * Lead wire is not included. 4 3-position exhaust center When ordering with manifolds 5 3-position pressure center For adding stations · When only valves are required. 4-position dual 3-port valve Α (N.C./N.C.) ◆ Port plug mounting port 4-position dual 3-port valve В (N.O./N.O.) None Port 4(A) 4-position dual 3-port valve С (N.C./N.O.) В Port 2(B) For double solenoid specification, the function symbol below is "D." Cylinder port C4 One-touch fittings for ø4 Side C6 One-touch fittings for ø6 ported C8 One-touch fittings for Ø8 L4 One-touch fittings for Ø4 Top *1 **L6** One-touch fittings for ø6 ported L8 One-touch fittings for Ø8 *1 Can be changed to side ported configuration. Seal type Rubber seal Manual override Nil В Function • Non-locking push type Locking type Slide locking type (Manual type) (Tool required) (Tool required) * Only side ported type applicable Nil Standard (0.4 W DC) В Quick response type (0.95 W) 2-position double **D***1 (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

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



Light/Surge voltage suppressor

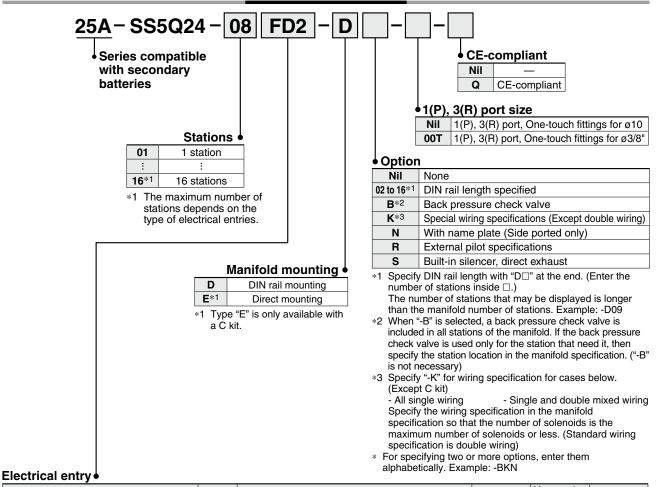
is built-in.

* S kit: 24 VDC only

Plug Lead Unit 25A-SQ2000 Series



How to Order Manifold



Kit type		Lead wire connector location	Cable specifications	01-11	Max. number of stations for special wiring specifications	Max number	
Mounting screw: Stainless steel	FD0		D-sub connector (25P) kit, without cable				
The electric Uside	FD1	D side	D-sub connector (25P) kit, with 1.5 m cable	1 to 12 stations	16 stations	24	
parts are made D side of copper.	FD2	D side	D-sub connector (25P) kit, with 3.0 m cable	1 10 12 Stations	10 Stations	24	
D-sub connector kit Body: Stainless steel	FD3		D-sub connector (25P) kit, with 5.0 m cable				
Mounting screw: Stainless steel One-touch fitting Body: Stainless steel	С	_	Connector kit	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.)

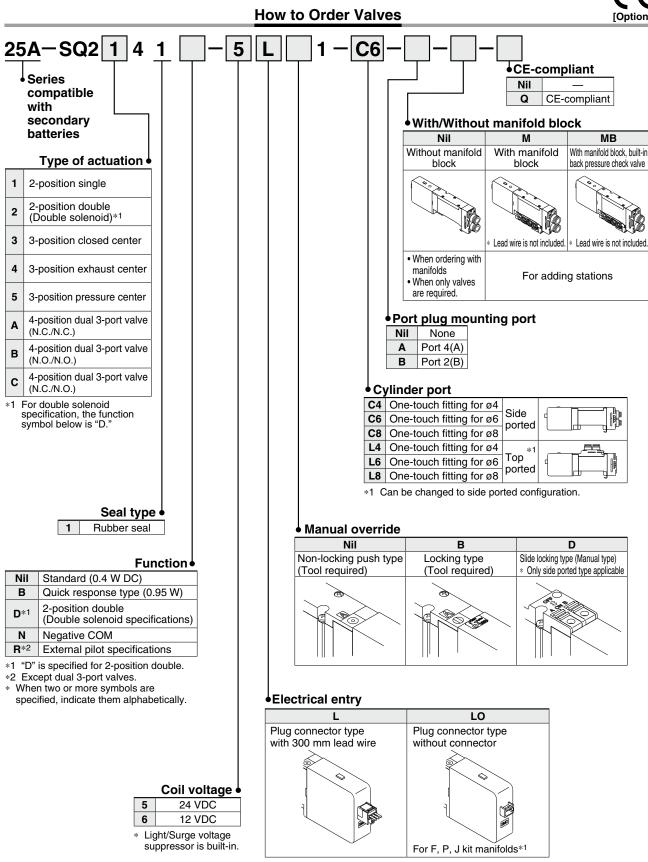
Blanking plate assembly

25A-SSQ2000-10A-4

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



^{*} Refer to the Web Catalog for manifold spare parts.



^{*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.

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

SI Unit Part Nos.

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

One-touch Fittings Part Nos.

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



Base Mounted

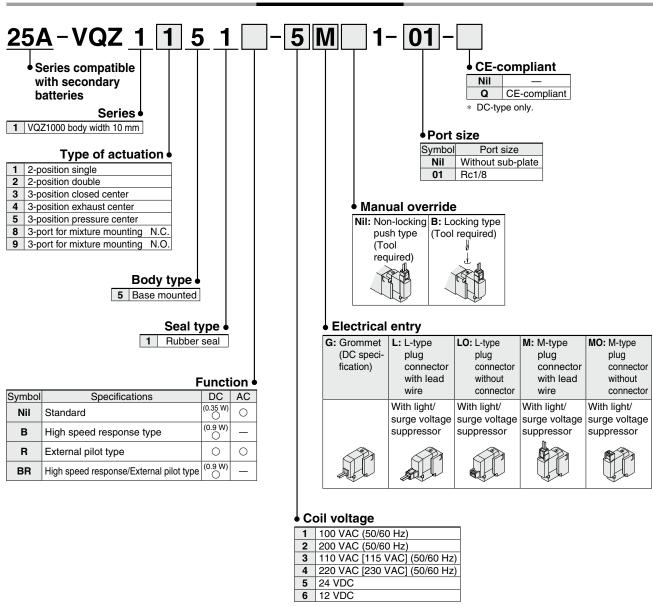
Plug Lead Unit

5-Port Solenoid Valve

25A-VQZ1000 Series Single Unit

(E

How to Order Valves





Use standard (DC) specification for continuous duty.

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



Base Mounted

Plug Lead Unit

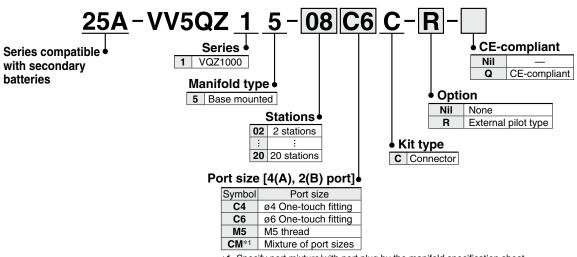
5-Port Solenoid Valve

25A-VQZ1000 Series

Manifold Connector Kit

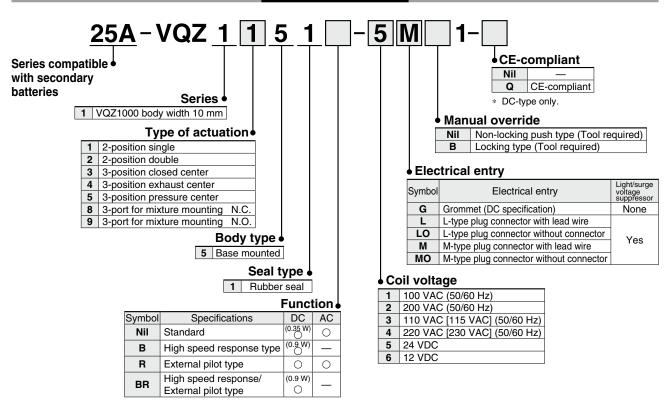


How to Order Manifold



^{*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





Use standard (DC) specification for continuous duty.

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



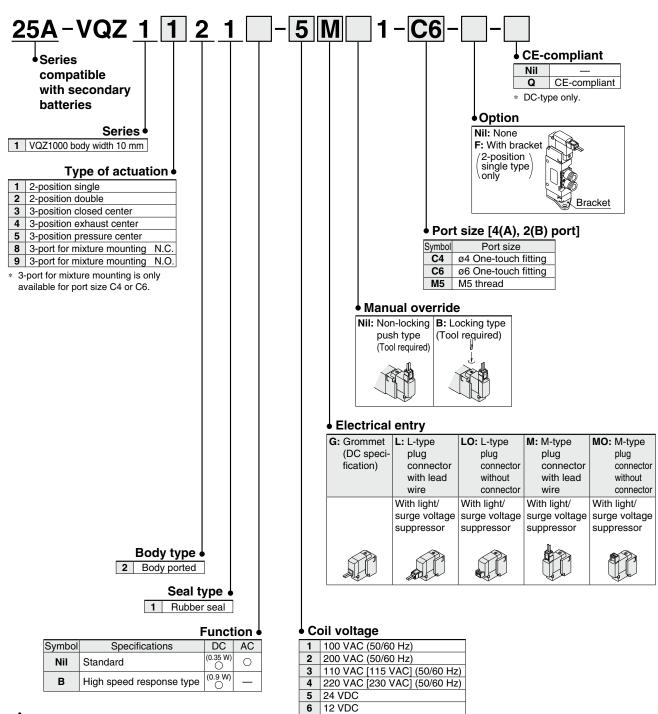
Body Ported

Plug Lead Unit

5-Port Solenoid Valve

25A-VQZ1000 Series Single Unit

How to Order Valves





Use standard (DC) specification for continuous duty.

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



Body Ported

Plug Lead Unit

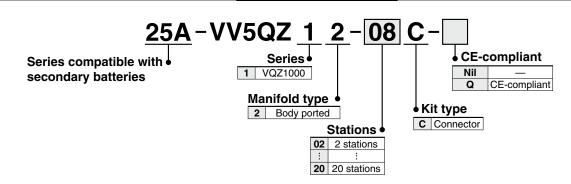
5-Port Solenoid Valve

25A-VQZ1000 Series

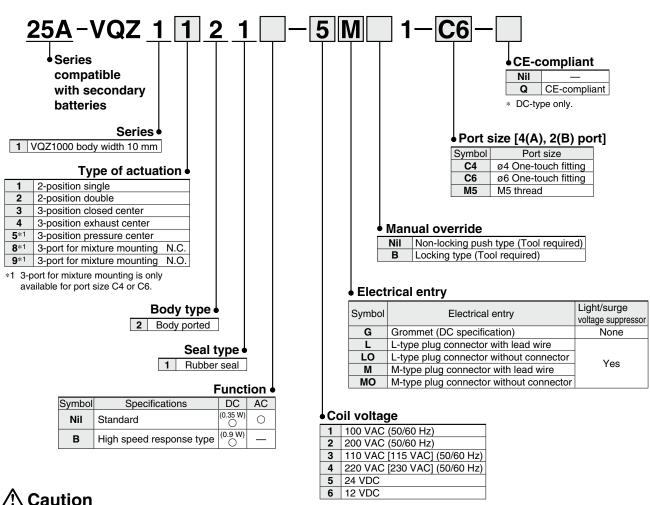
Manifold Connector Kit



How to Order Manifold



How to Order Valves





Use standard (DC) specification for continuous duty.

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

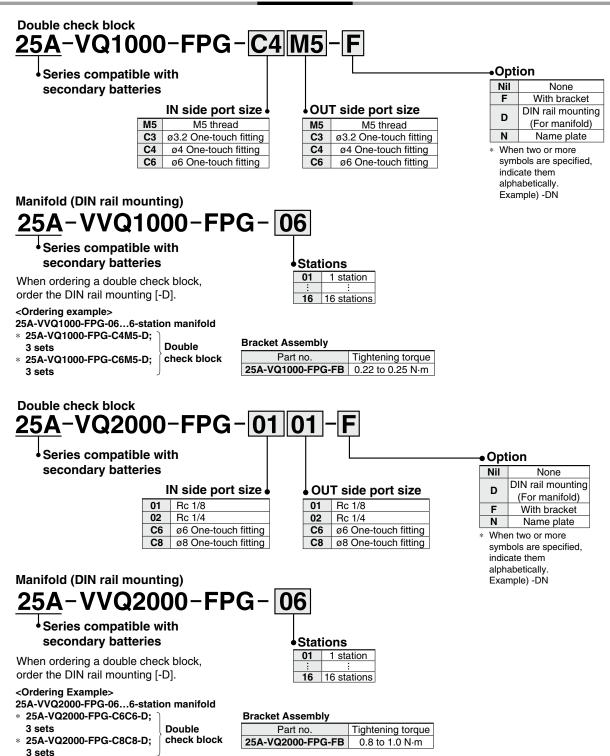


Plug-in Unit Base Mounted

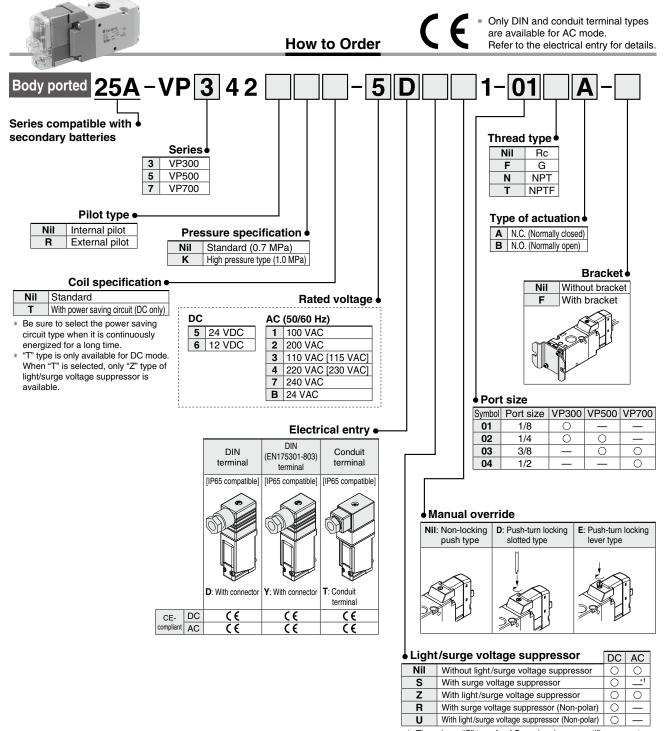
25A-VQ1000/2000 Series

Double check block (Separated)





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



¹ There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

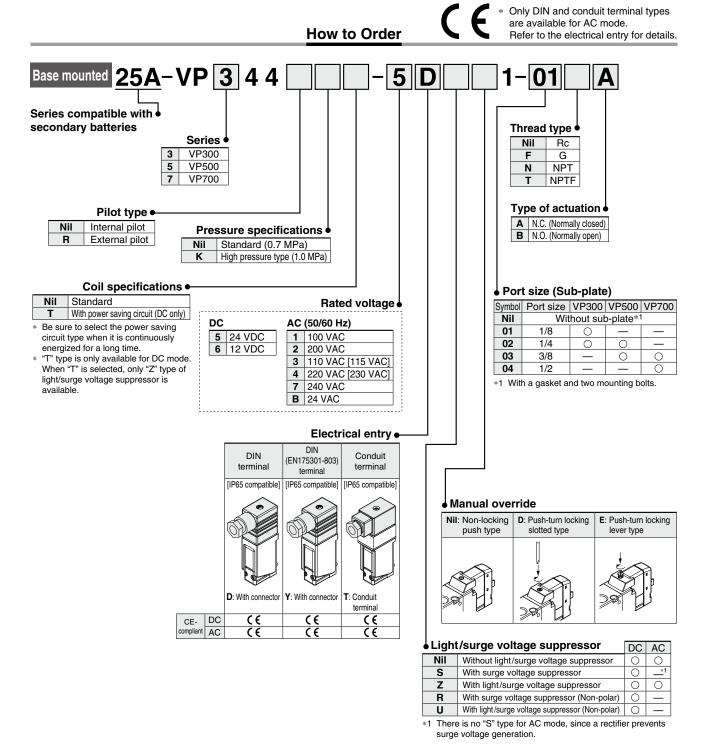
^{*} The 25A- series specifications and dimensions are the same as those of the standard model.



Rubber Seal

3-Port/Pilot Poppet Type

25A-VP344/544/744 Series



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

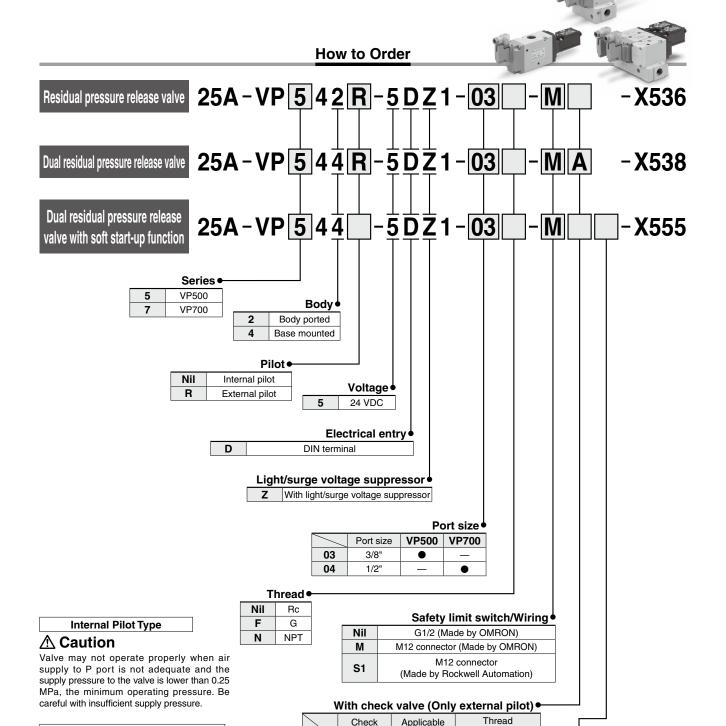


Safety Standard ISO 13849-1 Certified

3-Port Solenoid Valve/Residual Pressure Release Valve with Detection of Main Valve Position 25A-VP500/700-X536, X538, X555







Piping for External Pilot Type

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.

For internal pilot, the symbol is nil.

tube O.D.

ø6

♦ Throttle

Nil	Variable throttle	
10	ø1 fixed orifice	
15	ø1.5 fixed orifice	
20*1	ø2 fixed orifice	

^{*1} VP700 only

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

G

NPT



valve

None

Nil

Α

В

ø1/4"

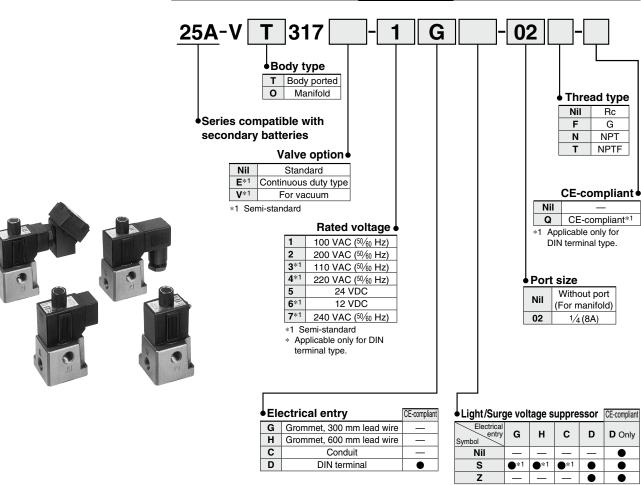
3-Port Solenoid Valve **Direct Operated Poppet Type**

25A-VT317 Series

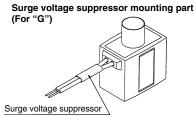
Rubber Seal

* CE-compliant: For DIN terminal type.

How to Order



- S: With surge voltage suppressor *1 Refer to the figure below.
- Z: With light/surge voltage suppressor



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 Catalog.

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



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

Low power consumption

Rubber Seal

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

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

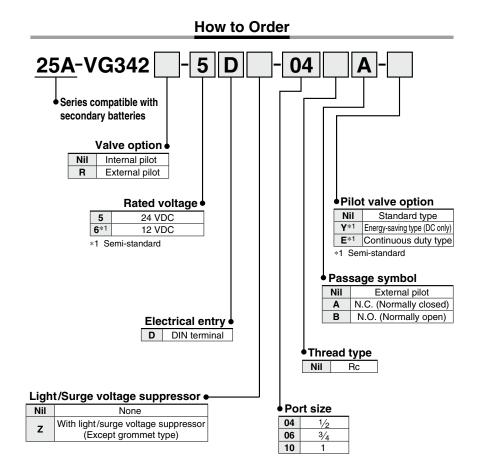
External pilot Vacuum: Up to -101.2 kPa Low pressure: 0 to 0.2 MPa

Changeable actuation:

N.C., N.O., or external pilot Can be used as a selector or divider valve (External pilot)







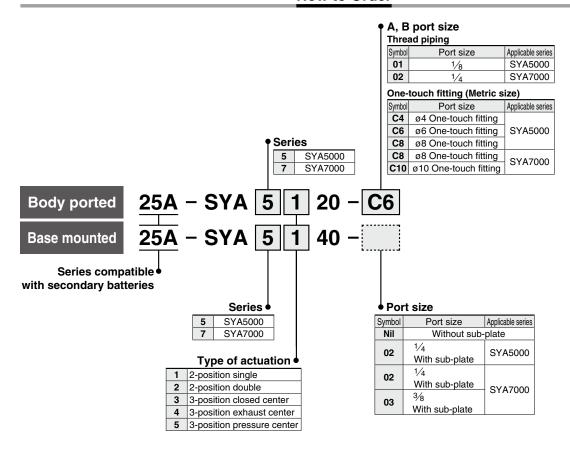
* The 25A- series specifications and dimensions are the same as those of the standard model.



5-Port Air Operated Valve

25A-SYA5000/7000 Series

How to Order



How to Order Manifold Base

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

25A-SS5YA₇⁵ Fill the same as 25A-SS5Y ₇⁵.

(Refer to page 40.)

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

<Example>

The asterisk denotes the symbol for assembly.

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

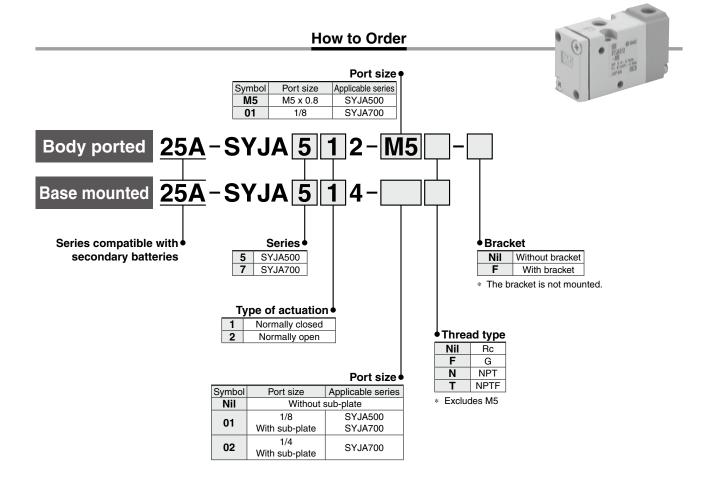
 When single body ported air operated valves are ordered, manifold mounting screws and gaskets are not included. Order them separately if necessary.
 (For details, refer to page 42.)

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



3-Port Air Operated Valve

25A-SYJA500/700 Series





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

25A-SYJA500/700 Series

Manifold Type for the SYJA500

Type 20

How to Order 25A - SS3YJA5 - 20 - 05

Stations

2 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

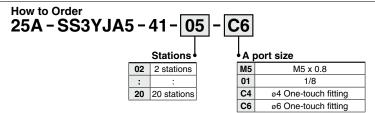
O2 2 stations
: : :
20 20 stations

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



Applicable valve 25A-SYJA5□4

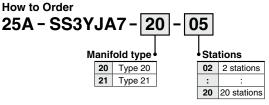
Applicable blanking plate assembly 25A-SYJ500-10-3A

* 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

How to Order

Type 20/21

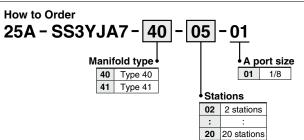


Applicable valve 25A-SYJA7□2

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



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

 Applicable valve 25A-SYJA7□4

Applicable blanking plate assembly 25A-SYJ700-10-2A

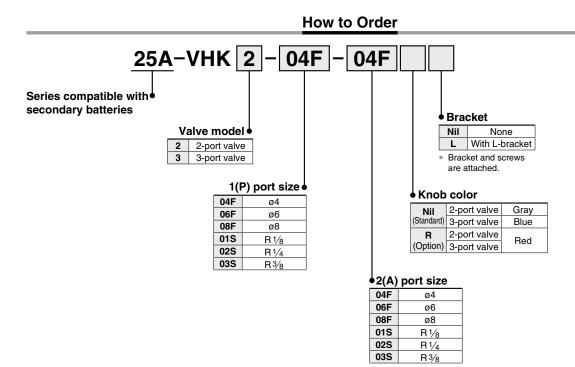
^{*} For more than 9 stations, supply air to both sides of P port and exhaust air from both sides of R port.



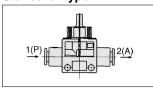
Finger Valve

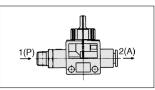
25A-VHK Series

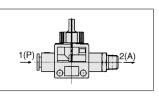




Standard Type







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

	2(A)	Applicable tubing O.D. [mm]			
1(P)\	ø4	ø6	ø8	
Applicable tubing O.D. [mm]	ø4	•			
able to	ø6	•	•		
Applic O	ø8		•	•	

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

	2(A)	Applicable tubing O.D. [mm]			
1(P)	ø4	ø6	ø8	
ш	1/8	•	•	•	
Port size R	1/4		•	•	
Po	3/8		•	•	

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

	2(A)	Port size R			
1(P)\	1/8	1/4	3/8	
Applicable tubing O.D. [mm]	ø4	•			
able tub D. [mm]	ø6	•	•	•	
Applic	ø8	•	•	•	



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

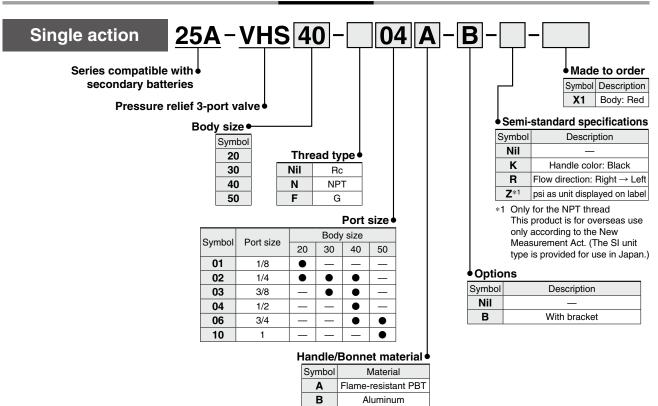
Conforming to OSHA Standard

Pressure Relief 3-Port Valve with Locking Holes (Single Action)

25A-VHS20/30/40/50 Series







Option Part Nos.

75

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.

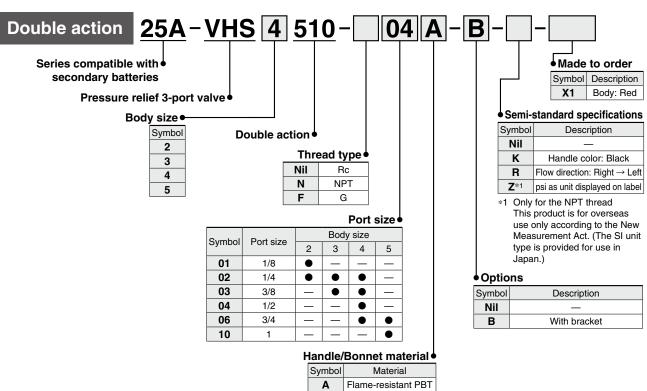
Conforming to OSHA Standard

Pressure Relief 3-Port Valve with Locking Holes (Double Action)

25A-VHS2510/3510/4510/5510 Series







В

Option Part Nos.

op.ioii i ait iiooi						
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.

Aluminum

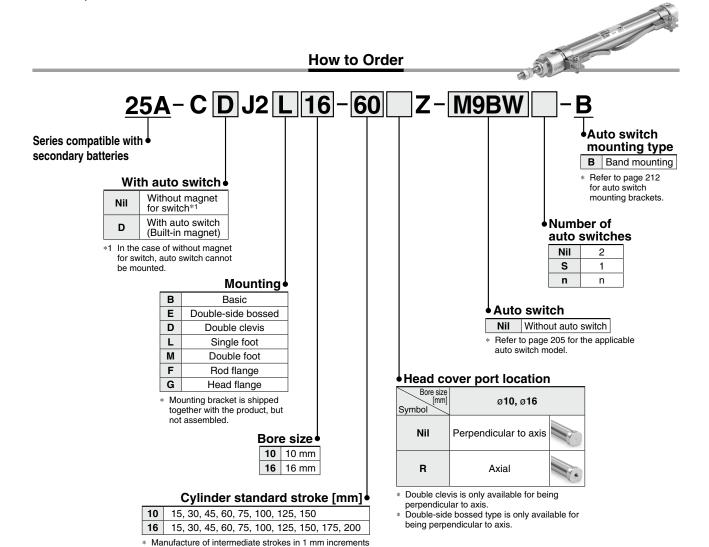


The 25A- series specifications and dimensions are the same as those of the standard model.

Air Cylinder: Standard Type Double Acting, Single Rod

25A-CJ2 Series

ø10, ø16



Built-in Magnet Cylinder Model

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

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

Mounting Bracket Part Nos. for the 25A- Series

is possible. (Spacers are not used.)

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

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

77

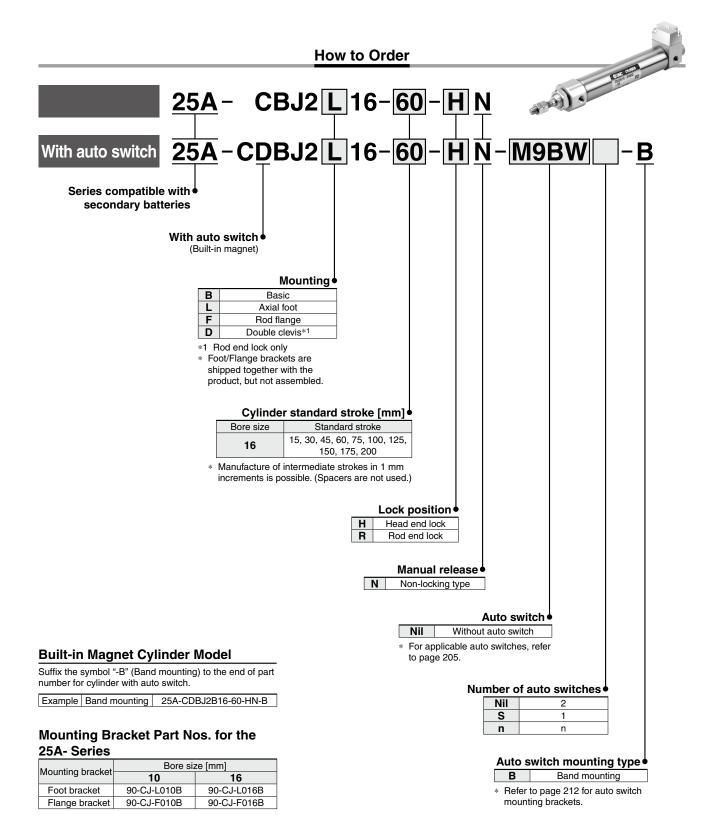


Air Cylinder: With End Lock

25A-CBJ2 Series

Ø16

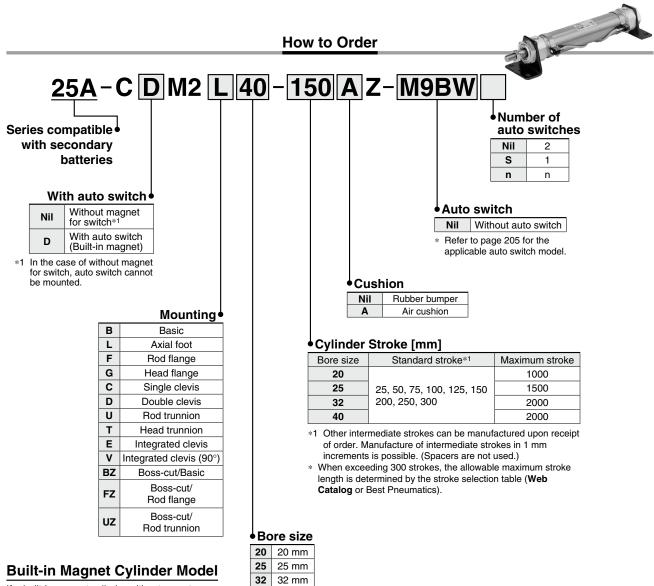




Air Cylinder: Standard Type **Double Acting, Single Rod**

25A-CM2 Series

Ø20, Ø25, Ø32, Ø40



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

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

Mounting Bracket Part Nos. for the 25A- Series

Mounting brookst	Min.	Bore size [mm]				Description (for only
Mounting bracket	order	20 25 32 40		40	Description (for min. order)	
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	25-CM-C020B	25-CM	-C032B	25-CM-C040B	1 single clevis, 3 liners
Double clevis*2*3 (with pin)	1	25-CM-D020B	25-CM-D032B		25-CM-D040B	1 double clevis, 3 liners, 1 clevis pin, 2 retaining rings
Trunnion (with nut)	1	25-CM-T020B	25-CM	-T032B	25-CM-T040B	1 trunnion, 1 trunnion nut

40 mm

^{*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 ø40) are attached.

Air Cylinder: Standard Type Double Acting, Single Rod

25A-CG1 Series

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

How to Order 25A-CDG1LN25-100 Z-M9BW Number of auto Series compatible with switches secondary batteries Nil S 1 n n With auto switch Without magnet Auto switch for switch*1 Nil Without auto switch With auto switch D (Built-in magnet) Refer to page 205 for the applicable auto switch model. In the case of without magnet for switch, auto switch cannot be mounted. Rod end thread Nil Rod end male thread **Mounting** Rod end female thread В Basic **Z***1 Basic (without trunnion mounting female thread) **♦Cylinder stroke [mm]** Axial foot Bore F Rod flange Long stroke*2 Standard stroke*1 size Head flange G [mm] [mm] [mm] U*1 Rod trunnion 25, 50, 75, 100, 125, 150, 200 201 to 1500 20 Head trunnion 25 D Clevis 32 *1 Not available for ø80 or ø100. 40 Mounting bracket is shipped together with the product, 25, 50, 75, 100, 125, 301 to 1500 150, 200, 250, 300 but not assembled. 50.63 The cylinder for F, G, L, D mounting types is Z: Basic 80 (without trunnion mounting female thread).

- *1 Other intermediate strokes can be manufactured upon receipt of order. Manufacture of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)
 *2 The long stroke, phone the maximum manufacturable stroke. For
- *2 The long stroke shows the maximum manufacturable stroke. For details about maximum stroke that can be used for each mounting bracket, refer to the stroke selection table (**Web Catalog** or Best Pneumatics).

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

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

Bore size

Type •

N Rubber bumper

Air cushion

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

Mounting Bracket Part Nos. for the 25A- Series

modificing District Control for the 2011 Control										
Mounting	Min.		Bore size [mm]							
bracket	order	20	25	32	40	50	63	80	100	Description
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

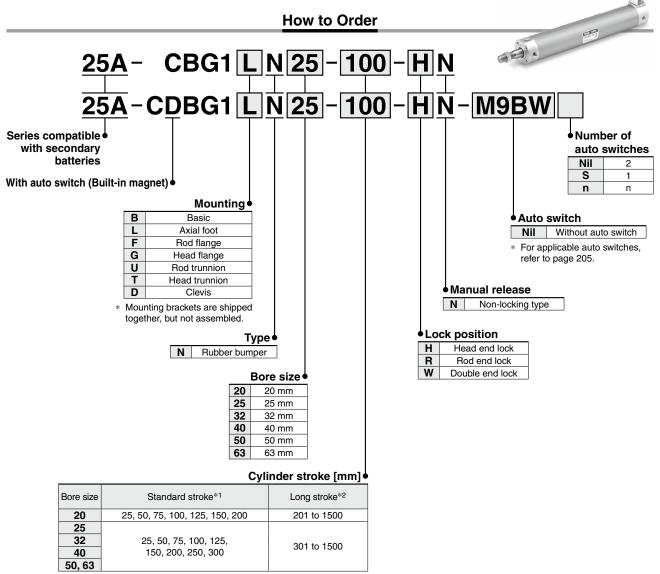
^{*1} Order two foot brackets per cylinder.



Air Cylinder: With End Lock

25A-CBG1 Series

Ø20, Ø25, Ø32, Ø40, Ø50, Ø63



- *1 Other intermediate strokes can be manufactured upon receipt of order. Manufacture of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)
- *2 The long stroke shows the maximum manufacturable stroke. For details about maximum stroke that can be used for each mounting bracket, refer to the stroke selection table (Web Catalog or Best Pneumatics).

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

Mounting Bracket Part Nos. for the 25A- Series

mounting bracket rait 1105. for the 20A Oction									
Mounting	Min.				Description				
bracket	order	20	25	32	40	50	63	Description	
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	

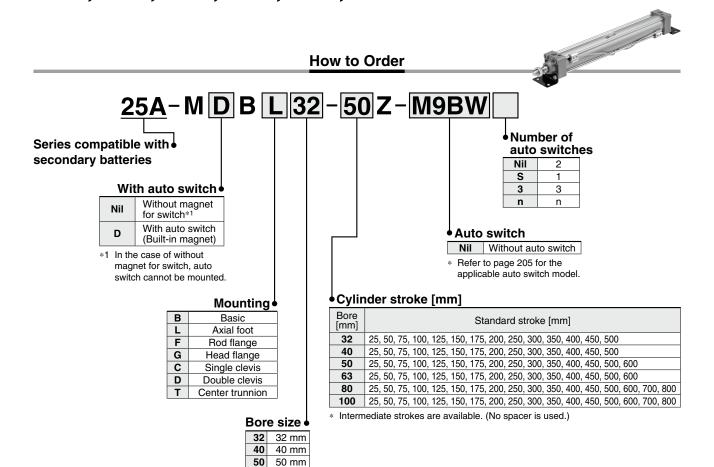
^{*1} Order two foot brackets per cylinder.

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

Air Cylinder: Single Rod

25A-MB Series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



Built-in Magnet Cylinder Model

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

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

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

63 63 mm 80 80 mm 100 100 mm

*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.

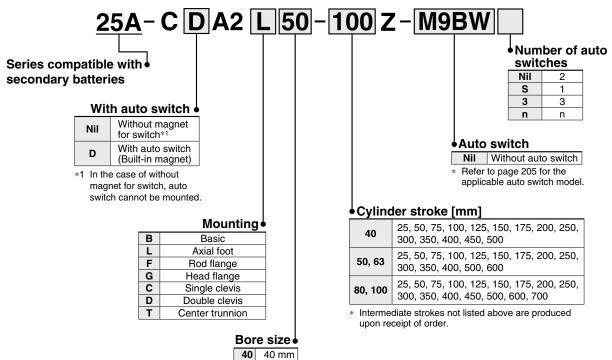
Air Cylinder: Standard Type Double Acting, Single Rod

25A-CA2 Series

Ø40, Ø50, Ø63, Ø80, Ø100

How to Order





Built-in Magnet Cylinder Model

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

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

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

50

80

50 mm 63 mm

80 mm 100 100 mm



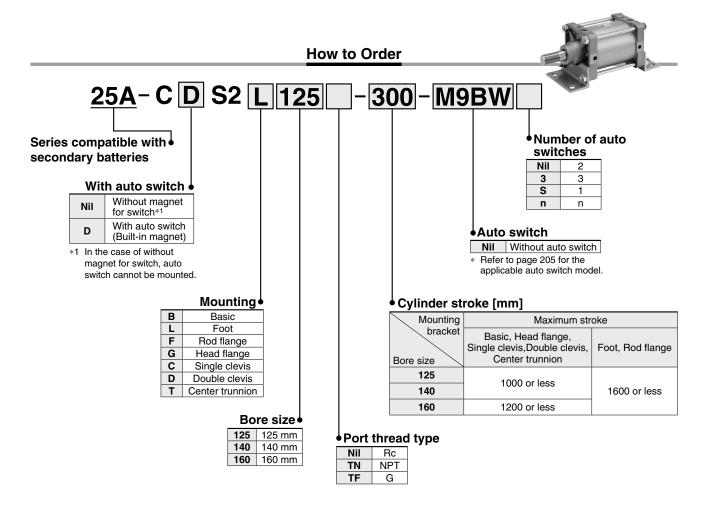
^{*1} When axial foot brackets are used, two pieces should be ordered for each cylinder.

^{*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

ø125, ø140, ø160



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without auto switch is required, there is no need to enter the symbol for auto switch.
(Example) 25A-CS2B125-100

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

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

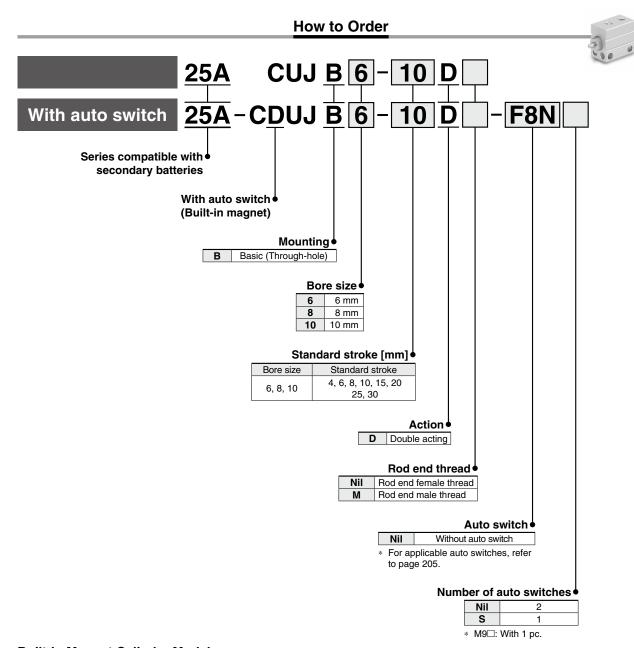
^{*1} Order two foot brackets per cylinder.

^{*2} A clevis pin and split pins are shipped together with double clevis.

Mini Free Mount Cylinder

25A-CUJ Series

Ø6, Ø8, Ø10



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

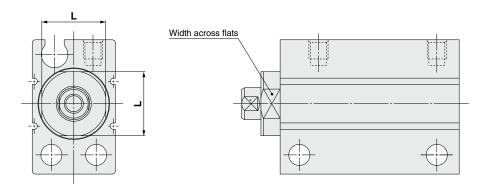


^{*} The 25A- series specifications are the same as those of the standard model.

Mini Free Mount Cylinder 25A-CUJ Series

Dimensions (Dimensions other than those shown below are the same as the standard product.)

25A-C□UJB₁₀



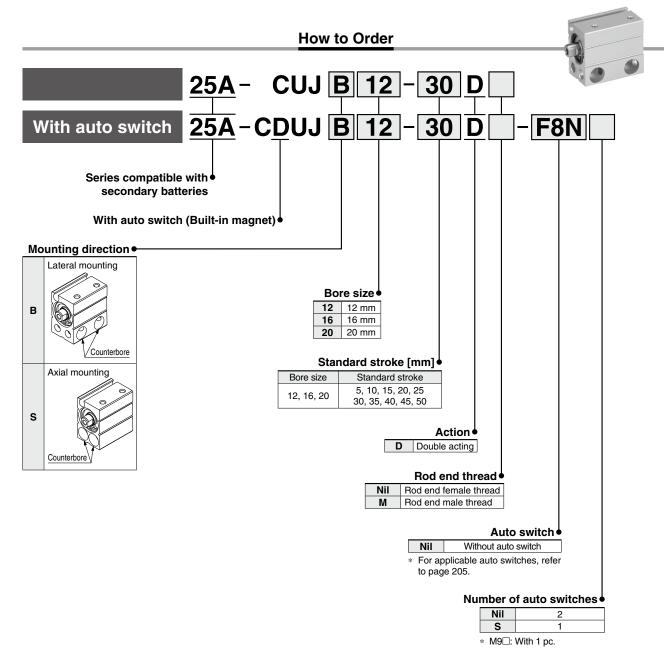
[mm]

	[]
Bore size	L dimension
6	8
8	10
10	11

Mini Free Mount Cylinder

25A-CUJ Series

Ø12, Ø16, Ø20



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

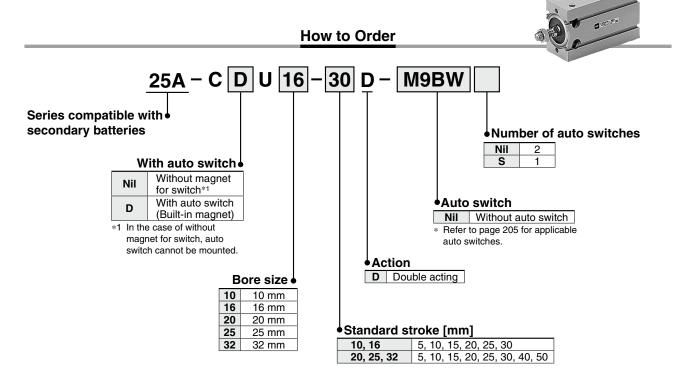


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

Free Mount Cylinder Double Acting, Single Rod

25A-CU Series

Ø10, Ø16, Ø20, Ø25, Ø32



Built-in Magnet Cylinder Model

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

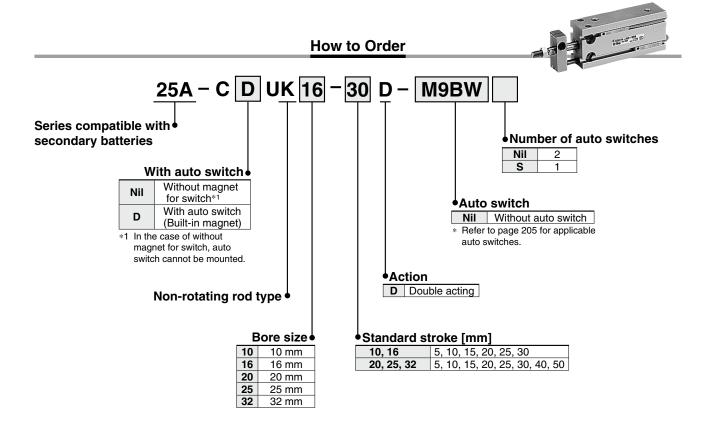
> * The 25A- series specifications and dimensions are the same as those of the standard model.



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

25A-CUK Series

Ø10, Ø16, Ø20, Ø25, Ø32



Built-in Magnet Cylinder Model

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

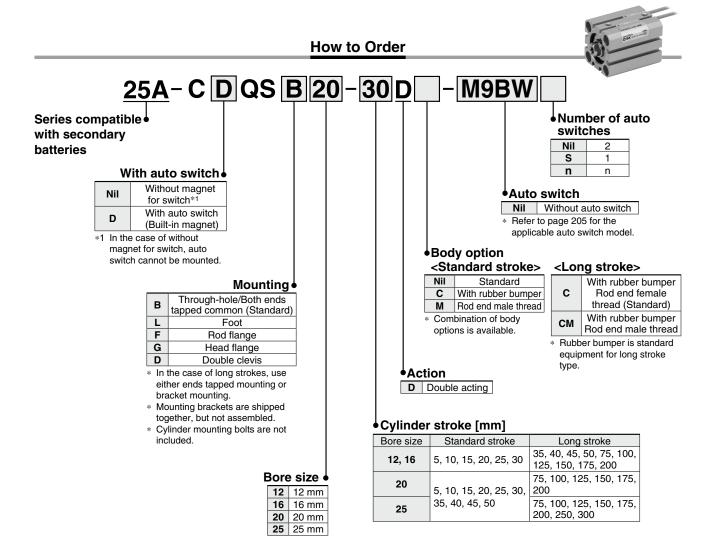


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

Compact Cylinder: Standard Type Double Acting, Single Rod

25A-CQS Series

Ø12, Ø16, Ø20, Ø25



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

Mounting Bracket Part Nos. for the 25A- Series

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

- *1 When ordering foot bracket, order 2 pieces per cylinder.
- Parts belonging to each bracket are as follows.
 Foot or Flange type: Body mounting bolt

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

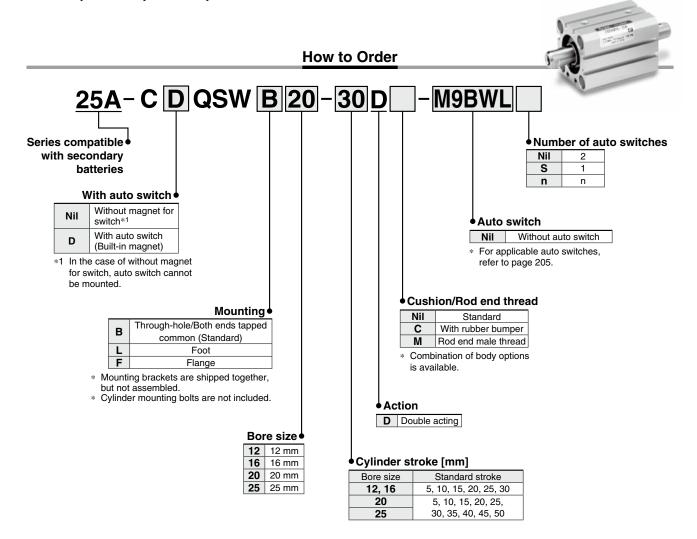
* The 25A- series specifications and dimensions are the same as those of the standard model.



Compact Cylinder: Standard Type Double Acting, Double Rod

25A-CQSW Series

Ø12, Ø16, Ø20, Ø25



Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Flange
12	25-CQS-L012	25-CQS-F012
16	25-CQS-L016	25-CQS-F016
20	25-CQS-L020	25-CQS-F020
25	25-CQS-L025	25-CQS-F025

- *1 When ordering 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

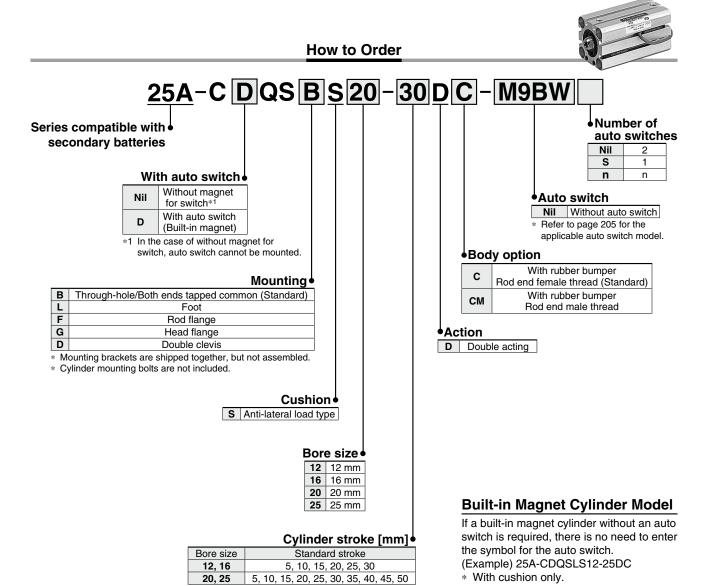


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

Compact Cylinder: Anti-lateral Load Type

25A-CQS Series

Ø12, Ø16, Ø20, Ø25



Mounting Bracket Part Nos. for the 25A- Series

	mountaing Endokot Fait Moor for the 2071 Confee			
Bore size [mm]	Foot*1	Flange	Double clevis	
12	25-CQS-L012	25-CQS-F012	25-CQS-D012	
16	25-CQS-L016	25-CQS-F016	25-CQS-D016	
20	25-CQS-L020	25-CQS-F020	25-CQS-D020	
25	25-CQS-L025	25-CQS-F025	25-CQS-D025	

- *1 When ordering foot bracket, order 2 pieces per cylinder.
- Parts belonging to each bracket are as follows.
 Foot or Flange type: Body mounting bolt

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.



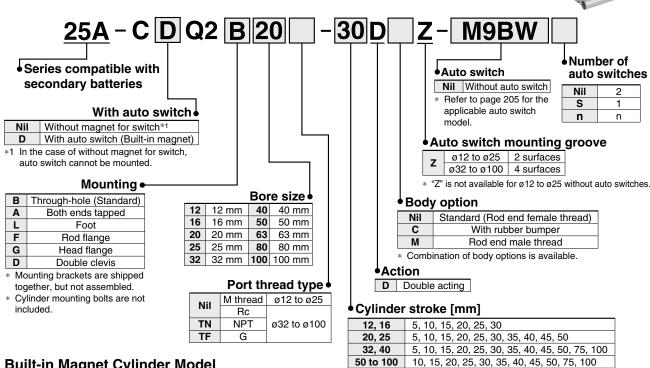
Compact Cylinder: Standard Double Acting, Single Rod

25A-CQ2 Series

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

How to Order





Built-in Magnet Cylinder Model

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

Mounting Bracket Part Nos. for the 25A- Series (Without auto switch)

	3		
Bore size [mm]	Foot*1	Flange	Double clevis
12	25-CQ-L012	25-CQ-F012	25-CQ-D012
16	25-CQ-L016	25-CQ-F016	25-CQ-D016
20	25-CQ-L020	25-CQ-F020	25-CQ-D020
25	25-CQ-L025	25-CQ-F025	25-CQ-D025
32	25-CQ-L032	25-CQ-F032	25-CQ-D032
40	25-CQ-L040	25-CQ-F040	25-CQ-D040
50	25-CQ-L050	25-CQ-F050	25-CQ-D050
63	25-CQ-L063	25-CQ-F063	25-CQ-D063
80	25-CQ-L080	25-CQ-F080	25-CQ-D080
100	25-CQ-L100	25-CQ-F100	25-CQ-D100

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

Mounting Bracket Part Nos. for the 25A- Series (With auto switch)

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

- *1 When ordering a foot bracket, the required quantity will be different depending on the bore size. ø12 to ø25:
 - Without switch: Order 2 pieces per cylinder.
 - With switch: Order 1 piece per cylinder. (Part number for a set of 2 foot brackets) ø32 to ø100:
- Order 2 pieces per cylinder.
- Parts belonging to each bracket are as follows.

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

Simple Joint (Standard)/ Part 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 ø40 • Type A mounting bracketYA-03



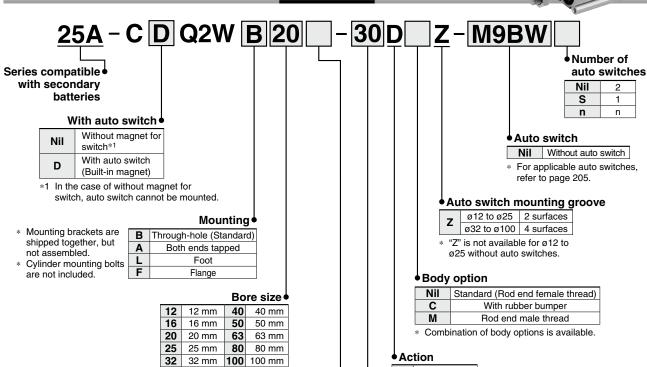
Compact Cylinder: Standard Double Acting, Double Rod

25A-CQ2W Series

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

How to Order





Mounting Bracket Part Nos. for the 25A- Series (Without auto switch)

mountaing Bracket i are recorded tale 2011 Control (maneut date curto)			
Foot*1	Flange		
25-CQ-L012	25-CQ-F012		
25-CQ-L016	25-CQ-F016		
25-CQ-L020	25-CQ-F020		
25-CQ-L025	25-CQ-F025		
25-CQ-L032	25-CQ-F032		
25-CQ-L040	25-CQ-F040		
25-CQ-L050	25-CQ-F050		
25-CQ-L063	25-CQ-F063		
25-CQ-L080	25-CQ-F080		
25-CQ-L100	25-CQ-F100		
	Foot*1 25-CQ-L012 25-CQ-L016 25-CQ-L020 25-CQ-L025 25-CQ-L032 25-CQ-L040 25-CQ-L050 25-CQ-L063 25-CQ-L080		

Mounting Bracket Part Nos. for the 25A- Series (With auto switch)

Bore size [mm]	Foot*1	Flange
12	25-CQ-LZ12	25-CQ-F012
16	25-CQ-LZ16	25-CQ-F016
20	25-CQ-LZ20	25-CQ-F020
25	25-CQ-LZ25	25-CQ-F025
32	25-CQ-L032	25-CQ-F032
40	25-CQ-L040	25-CQ-F040
50	25-CQ-L050	25-CQ-F050
63	25-CQ-L063	25-CQ-F063
80	25-CQ-L080	25-CQ-F080
100	25-CQ-L100	25-CQ-F100

- *1 When ordering a foot bracket, the required quantity will be different depending on the bore size.
 - ø12 to ø25:
 - · Without switch: Order 2 pieces per cylinder.
 - \cdot With switch: Order 1 piece per cylinder. (Part number for a set of 2 foot brackets) $\varnothing 32$ to $\varnothing 100$:
 - · Order 2 pieces per cylinder.
- * Body mounting bolts are included for each bracket.

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

		•
Nil	M thread	ø12 to ø25
IVII	Rc	
TN	NPT	ø32 to ø100
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.

Simple Joint (Standard)/Part Nos.

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

<Ordering:

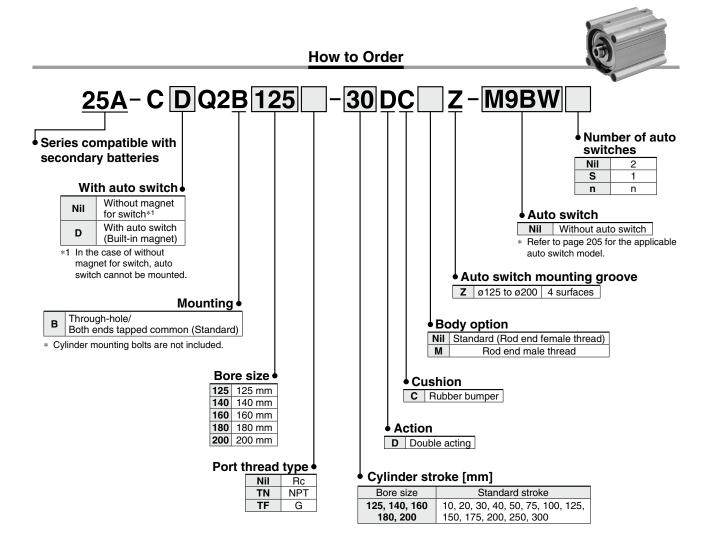
Joints are not included with type A or B mounting brackets. Order them separately.



Compact Cylinder: Large Bore Size Double Acting, Single Rod

25A-CQ2 Series

Ø125, Ø140, Ø160, Ø180, Ø200



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDQ2B140-30DCZ

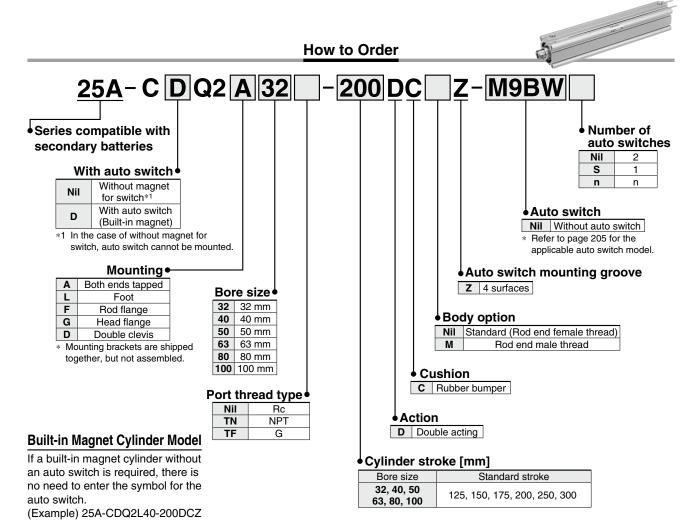
> * The 25A- series specifications and dimensions are the same as those of the standard model.



Compact Cylinder: Long Stroke Double Acting, Single Rod

25A-CQ2 Series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



Simple Joint (Standard)/Part Nos.

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

<Ordering>

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

Bore size ø40 Part no. • Type A mounting bracket ·······YA-03YU-03

Mounting Bracket Part Nos. for the 25A- Series (Without auto switch)

Bore size [mm]	Foot*1	Flange	Double clevis
32	25-CQ-L032	25-CQ-F032	25-CQ-D032
40	25-CQ-L040	25-CQ-F040	25-CQ-D040
50	25-CQ-L050	25-CQ-F050	25-CQ-D050
63	25-CQ-L063	25-CQ-F063	25-CQ-D063
80	25-CQ-L080	25-CQ-F080	25-CQ-D080
100	25-CQ-L100	25-CQ-F100	25-CQ-D100

Mounting Bracket Part Nos. for the 25A- Series (With auto switch)

Bore size [mm]	Foot*1	Flange	Double clevis					
32	25-CQ-L032	25-CQ-F032	25-CQ-D032					
40	25-CQ-L040	25-CQ-F040	25-CQ-D040					
50	25-CQ-L050	25-CQ-F050	25-CQ-D050					
63	25-CQ-L063	25-CQ-F063	25-CQ-D063					
80	25-CQ-L080	25-CQ-F080	25-CQ-D080					
100	25-CQ-L100	25-CQ-F100	25-CQ-D100					

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

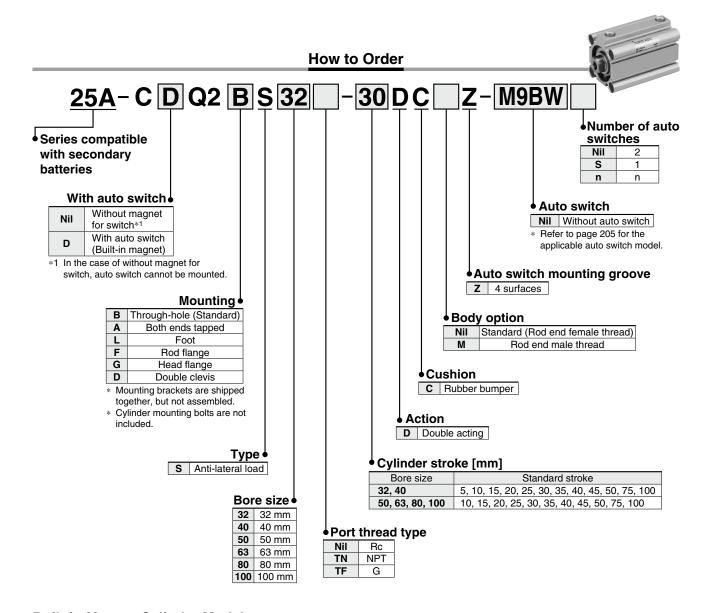
^{*1} Order 2 pieces per cylinder.

Parts belonging to each bracket are as follows. Foot or Flange: Body mounting bolts, Double clevis: Clevis pin, Type C retaining rings for axis, Body mounting bolts

Compact Cylinder: Anti-lateral Load

25A-CQ2 Series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



Built-in Magnet Cylinder Model

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

vitch)

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

Mounting Bracket Part Nos. for the 25A- Series (Without auto switch)

Bore size [mm]	Foot*1	Flange	Double clevis
32	25-CQ-L032	25-CQ-F032	25-CQ-D032
40	25-CQ-L040	25-CQ-F040	25-CQ-D040
50	25-CQ-L050	25-CQ-F050	25-CQ-D050
63	25-CQ-L063	25-CQ-F063	25-CQ-D063
80	25-CQ-L080	25-CQ-F080	25-CQ-D080
100	25-CQ-L100	25-CQ-F100	25-CQ-D100

Mounting Bracket Part Nos. for the 25A- Series (With auto switch)

Bore size [mm]	Foot*1	Flange	Double clevis
32	25-CQ-L032	25-CQ-F032	25-CQ-D032
40	25-CQ-L040) 25-CQ-F040 25-CQ-[
50	25-CQ-L050	25-CQ-F050	25-CQ-D050
63	25-CQ-L063	25-CQ-F063	25-CQ-D063
80	25-CQ-L080	25-CQ-F080	25-CQ-D080
100	25-CQ-L100	25-CQ-F100	25-CQ-D100

^{*1} Order 2 pieces per cylinder.

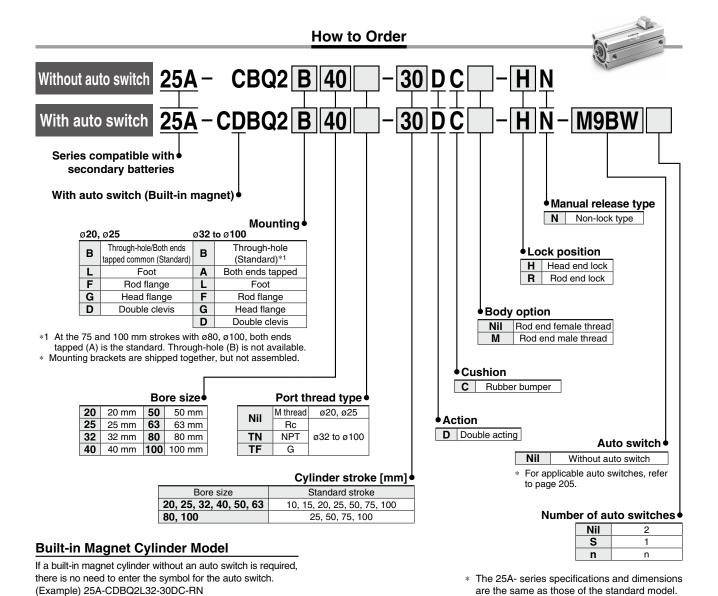
^{*} Parts belonging to each bracket are as follows.

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

Compact Cylinder: With End Lock

25A-CBQ2 Series

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



Mounting Bracket Part Nos. for the 25A- Series (Without auto switch)

mountaing Bracket i art iteer for the 2011 Corne (Without auto Ciriton)								
Bore size [mm]	Foot*1	Flange	Double clevis					
20	25-CQS-L020	25-CQS-F020	25-CQS-D020					
25	25-CQS-L025	25-CQS-F025	25-CQS-D025					
32	25-CQ-L032	25-CQ-F032	25-CQ-D032					
40	25-CQ-L040	-CQ-L040 25-CQ-F040						
50	25-CQ-L050	25-CQ-F050	25-CQ-D050					
63	25-CQ-L063	25-CQ-F063	25-CQ-D063					
80	25-CQ-L080	25-CQ-F080	25-CQ-D080					
100	25-CQ-L100	25-CQ-F100	25-CQ-D100					

Mounting Bracket Part Nos. for the 25A- Series (With auto switch)

mountaing Dia	meaning Diagnost and item in the Lord Control (Trial date of item)								
Bore size [mm]	Foot*1	Flange	Double clevis						
20	25-CQS-L020	25-CQS-F020	25-CQS-D020						
25	25-CQS-L025	25-CQS-F025	25-CQS-D025						
32	25-CQ-L032	25-CQ-F032	25-CQ-D032						
40	25-CQ-L040	25-CQ-F040	25-CQ-D040						
50	25-CQ-L050	25-CQ-F050	25-CQ-D050						
63	25-CQ-L063	25-CQ-F063	25-CQ-D063						
80	25-CQ-L080	25-CQ-F080	25-CQ-D080						
100	25-CQ-L100	25-CQ-F100	25-CQ-D100						

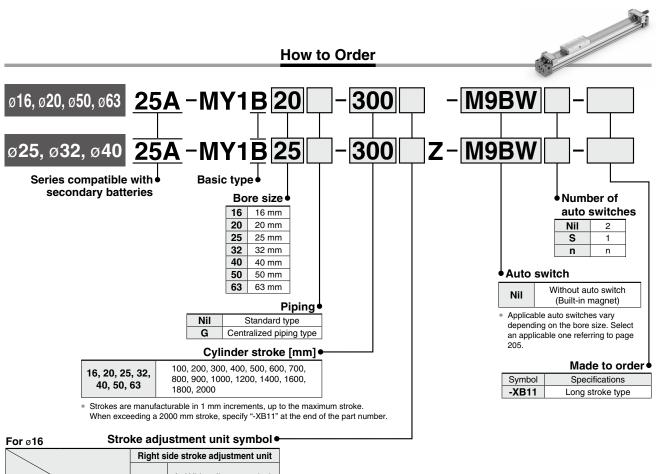
^{*1} Order 2 pieces per cylinder.

^{*} Parts belonging to each bracket are as follows: Foot or Flange: Body mounting bolts, Double clevis: Clevis pin, Type C retaining rings for axis, Body mounting bolts

Mechanically Jointed Rodless Cylinder Basic Type

25A-MY1B Series

Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63



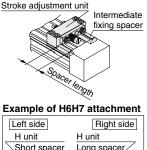
		Right side stroke adjustment unit				
		Without	A: With adjustment bolt			
		unit		With short spacer	With long spacer	
꽃 뜯 Without unit		Nil	SA	SA6	SA7	
without unit A: With adjustment bolt With short spacer With long spacer		AS	Α	AA6	AA7	
		A6S	A6A	A6	A6A7	
adji	With long spacer	A7S	A7A	A7A6	A 7	

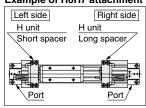
For ø20 to ø40

	1 01 920 10 940											
			Right side stroke adjustment unit									
		Without	A: With	adjustm	ent bolt	L: With lov + Adjustm	v load shoc ent bolt	c absorber	H: With hig + Adjustme	h load shoc ent bolt	k absorber	
		unit		With short spacer	With long spacer		With short spacer	With long spacer		With short spacer	With long spacer	
Ħ	Wit	thout unit	Nil	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
Ħ	A: With adjustment bolt		AS	Α	AA6	AA7	AL	AL6	AL7	AH	AH6	AH7
ustment u		With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7	A6H	A6H6	A6H7
usti		With long spacer	A7S	A7A	A7A6	A7	A7L	A7L6	A7L7	A7H	A7H6	A7H7
adji		oad shock absorber +	LS	LA	LA6	LA7	L	LL6	LL7	LH	LH6	LH7
ş	Adjustment	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7	L6H	L6H6	L6H7
stroke	bolt	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7	L7H	L7H6	L7H7
<u>8</u>	H: With high	load shock absorber +	HS	HA	HA6	HA7	HL	HL6	HL7	Н	HH6	HH7
S	Adjustment	With short spacer	H6S	H6A	H6A6	H6A7	H6L	H6L6	H6L7	Н6Н	H6	Н6Н7
Left	DOIL	With long spacer	H7S	H7A	H7A6	H7A7	H7L	H7L6	H7L7	H7H	H7H6	H7

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

Stroke adjustment unit mounting diagram





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

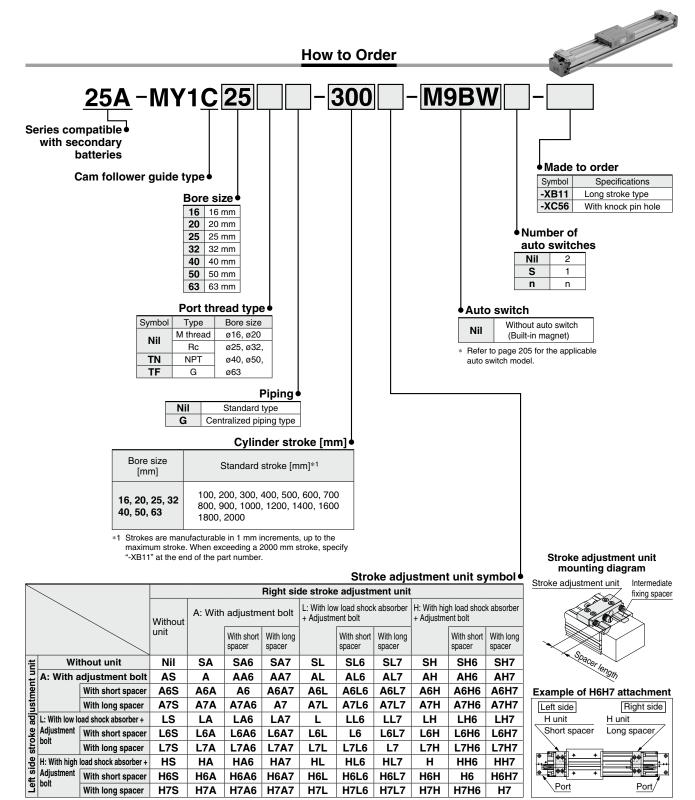


^{*} The 25A-MY1B50 and 63 are not available with the stroke adjustment unit.

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type

25A-MY1C Series

Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63



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

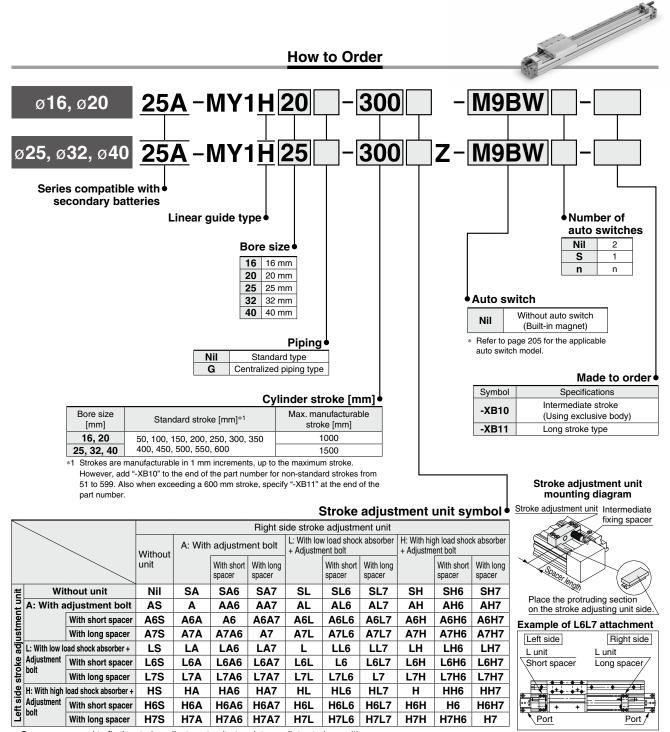
^{*} Stroke adjustment unit H is not available for 25A-MY1C16.

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

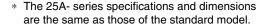
Mechanically Jointed Rodless Cylinder Linear Guide Type

25A-MY1H Series

Ø16, Ø20, Ø25, Ø32, Ø40



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



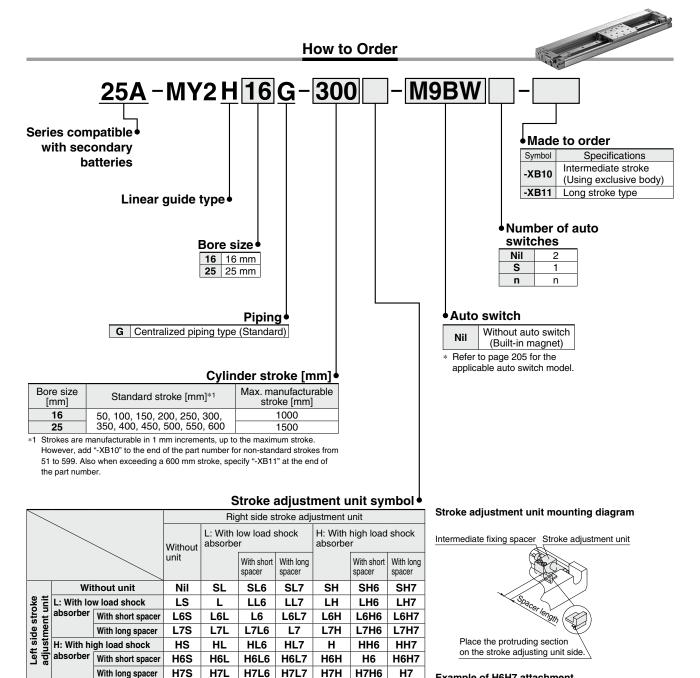


^{*} H: With high load shock absorber + Adjustment bolt is not available for 25A-MY1H16.

Mechanically Jointed Rodless Cylinder Linear Guide Type

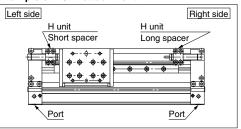
25A-MY2H Series

ø16, ø25



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





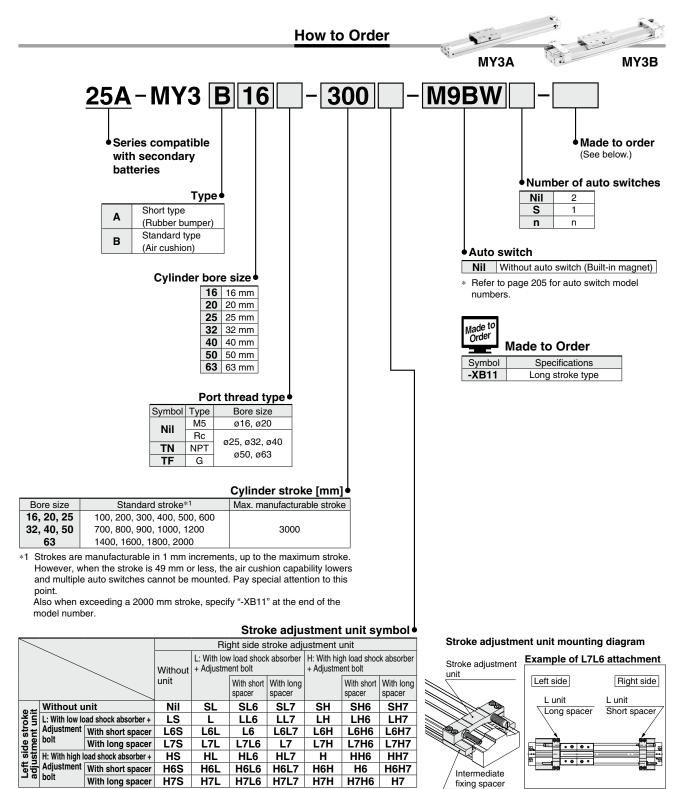
^{*} The 25A- series specifications and dimensions are the same as those of the standard model.



Mechanically Jointed Rodless Cylinder/Basic Type

25A-MY3A/3B Series

Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63



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

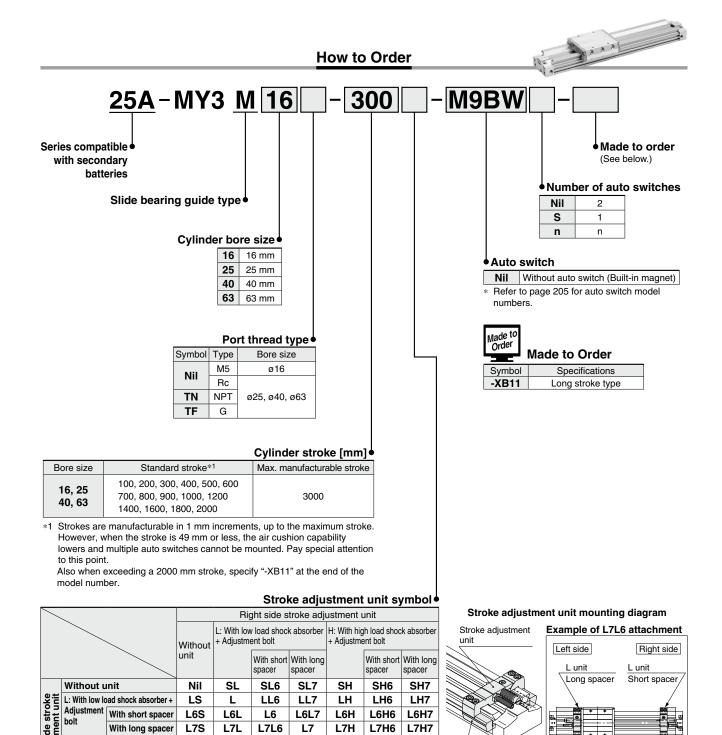
^{*} The 25A- series specifications and dimensions are the same as those of the standard model.



Mechanically Jointed Rodless Cylinder Slide Bearing Guide Type

25A-MY3M Series

Ø16, Ø25, Ø40, Ø63



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

HL

H₆L

H7L

HL6

H6L6

H7L6

HL7

H6L7

H7L7

Н

Н6Н

HS

H₆S

H7S

H: With high load shock absorber +

Adjustment With short spacer

With long spacer



HH₆

H6

HH7

H6H7

H7

Intermediate

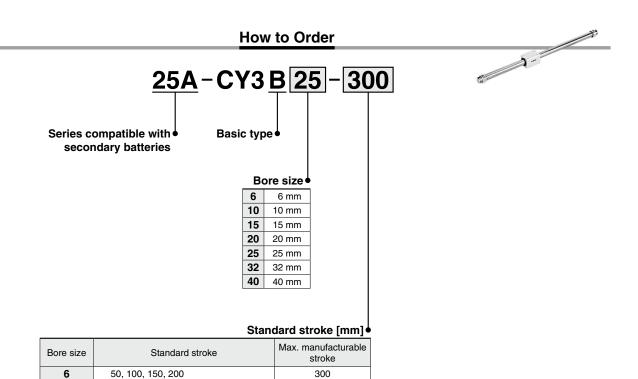
fixing spacer

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

Magnetically Coupled Rodless Cylinder/Basic Type

25A-CY3B Series

Ø6, Ø10, Ø15, Ø20, Ø25, Ø32, Ø40



500

1000

1500

2000

* Please contact SMC if the maximum stroke is exceeded.

50, 100, 150, 200, 250, 300

100, 150, 200, 250, 300, 350

400, 450, 500, 600, 700, 800

100, 150, 200, 250, 300, 350, 400

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

400, 450, 500

50, 100, 150, 200, 250, 300, 350

- 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.

10

15

20

25

32

40

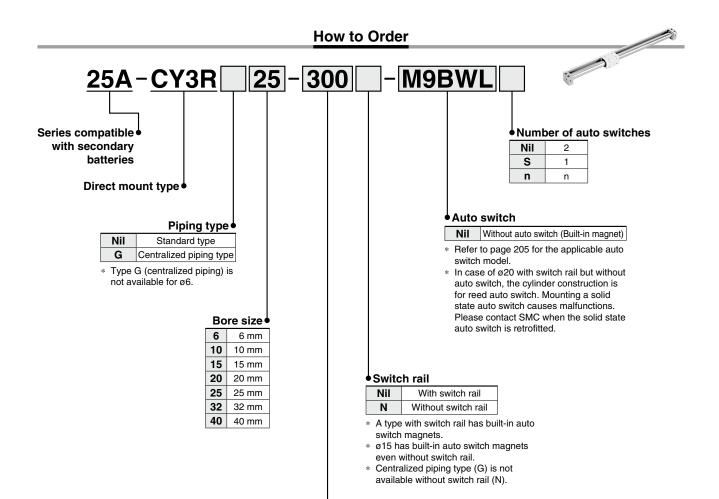


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

Magnetically Coupled Rodless Cylinder/Direct Mount Type

25A-CY3R Series

Ø6, Ø10, Ø15, Ø20, Ø25, Ø32, Ø40



♦ 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	100 150 000 050 000 050	1500	1000
25	100, 150, 200, 250, 300, 350 400, 450, 500, 600, 700, 800	1500	1200
32	100, 100, 000, 000, 700, 000		
40	100, 150, 200, 250, 300, 350 400, 450, 500, 600, 700, 800 900, 1000	2000	1500

- * 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.

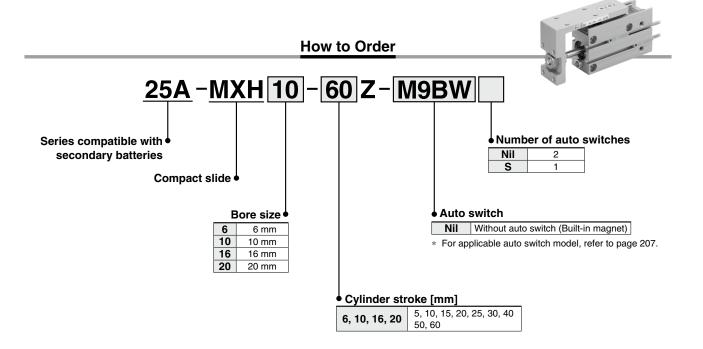


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

Compact Slide

25A-MXH Series

Ø6, Ø10, Ø16, Ø20



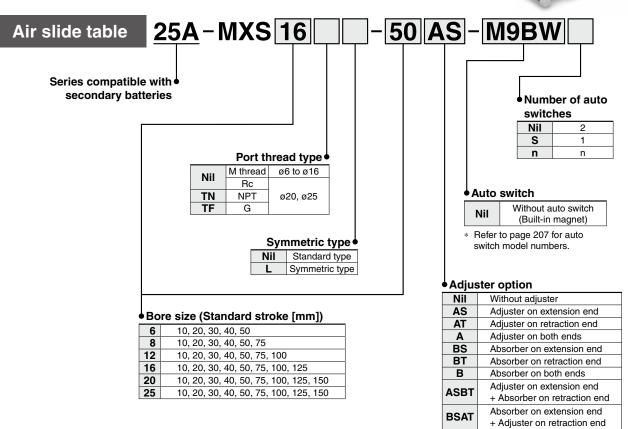
* The 25A- series specifications and dimensions are the same as those of the standard model.

25A-MXS Series

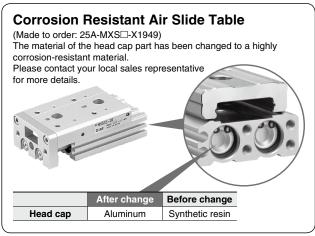
Ø6, Ø8, Ø12, Ø16, Ø20, Ø25

How to Order





- 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.



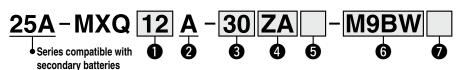
Double-ported Type



25A-MXQ A Series

Ø6, Ø8, Ø12, Ø16, Ø20, Ø25

How to Order





Bore	2 Body option: Double-ported type	3 Standard stroke [mm]
size	Α	
6	Port Port Switch mounting groove Switch mounting groove	10, 20, 30, 40, 50
8		10, 20, 30, 40, 50, 75
12		10, 20, 30, 40, 50, 75, 100
16	Port Port Switch mounting groove Switch mounting groove	10, 20, 30, 40, 50, 75, 100, 125
20	\\ <u>\$</u> \$\$\\\\$	10, 20, 30, 40, 50, 75, 100, 125, 150
25		10, 20, 30, 40, 50, 75, 100, 125, 150*

* The operating speed range of the stroke marked with an asterisk (*) is 50 to 300 mm/s. (Without stroke adjuster)

5 Functional options

Symbol	Functional option	
Nil	Without functional option	
1	With buffer	
2	With end lock	
3	Axial piping	
4	With buffer, end lock	
5	With buffer, axial piping	

Number of auto switches

Nil	2
S	1
n	n

6 Auto switch

Nil Without auto switch (Built-in magnet)

 For applicable auto switches, refer to page 207.

4 Adjuster options/Functional option combinations

					Adjuster mounting Functional option combination								
					posit	ion*1	Nil	1	2	3	4	5	
Symbol		Adjuster type*6			Retraction stroke end	Without functional option	With buffer	With end lock		With buffer,	*2* With Buffe axial pipin		
Z	Wit	hout adjuste	r				0	0	0	0	0	0	
ZA					•	•	0	×	×	0	×	×	
ZB	Me	tal stopper w	/ith	bumper	•		0	×	0	0	×	×	
ZC						•	0	×	×	0	×	×	
ZD					•	•	0	×	×	0	×	×	
ZE	Rul	bber stopper			•		0	0	0	0	0	0	
ZF	- rr				•	0	×	×	0	×	×		
ZG				•	•	0	×	×	0	×	×		
ZH	Shock absorber/RJ		•		0	×	0	0	×	×			
ZJ					•	0	×	×	0	×	×		
ZK					•	0	×	×	0	×	×		
ZL	Me	Metal stopper					0	0	0	0	0	0	
ZM						•	0	×	×	0	×	×	
ZN		Shorter total		Without adjuster		1	0	○*4	×	0	×	0*	
ZP	She			Rubber stopper		•	0	×	×	0	×	×	
ZQ		gth type*3		Shock absorber/RJ] /	•	0	×	×	0	×	X	
ZS	ieni	gurtypers	te.	Metal stopper with bumper] /		0	×	×	0	×	×	
ZT			adjuster	Metal stopper	7	•	0	×	×	0	×	×	
ZBF	_	Metal		Rubber stopper	•	•	0	×	×	0	×	×	
ZBJ	ste	stopper with	end	Shock absorber/RJ		•	0	×	×	0	×	×	
ZBM	adjuster	bumper		Metal stopper	•	•	0	×	×	0	×	×	
ZEC		Rubber	stroke	Metal stopper with bumper	•	•	0	×	×	0	×	×	
ZEJ			st	Shock absorber/RJ	•	•	0	×	×	0	×	×	
ZEM	stopper 5		5	Metal stopper	•	•	0	×	×	0	×	×	
ZHC	stroke	Shock	Retraction	Metal stopper with bumper	•	•	0	×	×	0	×	×	
ZHF	S	absorber/RJ	ita Ta	Rubber stopper	•	•	0	×	×	0	×	×	
ZHM	sion	absorber/HJ &		Metal stopper	•	•	0	×	×	0	×	×	
ZLC	ens	Metal		Metal stopper with bumper	•	•	0	×	×	0	×	×	
ZLF	\sim			Rubber stopper	•	•	0	×	×	0	×	×	
ZLJ	ш .	பி stopper		Shock absorber/RJ	•	•	0	×	×	0	×	×	

- *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 Ø6.



- * 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.



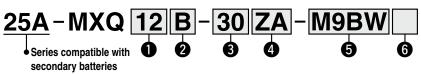
Low Thrust with High Rigidity Type

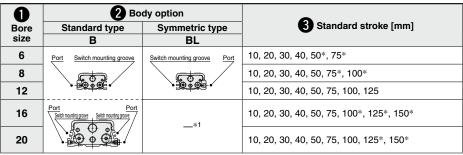


25A-MXQ B Series

Ø6, Ø8, Ø12, Ø16, Ø20

How to Order





- *1 Not available, as the standard model has piping ports and auto switch mounting grooves on both sides. Please use the standard type.
- * The operating speed range of the strokes marked with an asterisk (*) is 50 to 300 mm/s. (Without stroke adjuster)

4 Adjuster options

Symbol		Adju	Adjuster posit	mounting ion*1		
-		•	Extension stroke end	Retraction stroke end		
Z	Wit	thout adjuster				
ZA				•	•	
ZB	Ме	tal stopper with bum	per		•	
ZC						•
ZD					•	•
ZE	Ru	bber stopper			•	
ZF						•
ZG					•	•
ZH	Sh	ock absorber/RJ			•	
ZJ						•
ZK					•	•
ZL	Me	tal stopper			•	
ZM						•
ZN				Without adjuster	. /	
ZP	Ch.	orter total		Rubber stopper		•
ZQ		gth type*2	e	Shock absorber/RJ	/	•
ZS		9 1,00		Metal stopper with bumper	/	•
ZT			nst	Metal stopper	/	•
ZBF		Metal stopper with	adj	Rubber stopper	•	•
ZBJ	ig.	bumper	b	Shock absorber/RJ	•	•
ZBM	adjuster		Retraction stroke end adjuster	Metal stopper	•	•
ZEC	ă		충	Metal stopper with bumper	•	•
ZEJ	end	Rubber stopper		Shock absorber/RJ	•	•
ZEM				Metal stopper	•	•
ZHC	tro	Shock absorber/RJ		Metal stopper with bumper	•	•
ZHF	l s			Rubber stopper	•	•
ZHM	Sio		<u> </u>	Metal stopper	•	•
ZLC	Extension stroke			Metal stopper with bumper	•	•
ZLF	Ш	Metal stopper		Rubber stopper	•	•
71 1		I .	l	Shock absorbor/D I		

6 Auto switch

Nil	Without auto switch	(Built-in magnet)

* For applicable auto switches, refer to page 207.

6 Number of auto switches

Nil	2
S	1
n	n

Shipped together with the product, but not assembled
 Without any symbol for the adjuster mounting position: The adjuster can be mounted afterward.

2 Extension stroke end adjuster mounting holes have been removed to reduce the total length of the table.

3 The metal stopper with bumper option is not available for Ø6.



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.



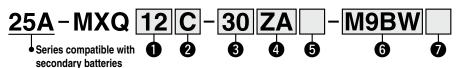
Single Side-ported Type

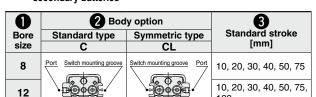


25A-MXQ C Series

ø8, ø12

How to Order





5 Functional options

Symbol	Functional option
Nil	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 207.

Number of auto switches

Nil	2
S	1
n	n

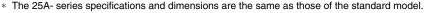
4 Adjuster options/Functional option combinations

						mounting	Functional option combination					
	ool Adjuster type				position*1		Nil	1	2	3	4	5
Symbol				Retraction stroke end	Without functional option	*2 With buffer	With end lock	Axial piping	*2 With buffer, end lock	*3*5 With buffer axial piping		
Z	Wit	hout adjuste	r				0	0	0	0	0	0
ZA					•	•	0	×	×	0	×	×
ZB	Me	tal stopper w	vith	bumper	•		0	×	0	0	×	×
ZC						•	0	×	×	0	×	×
ZD					•	•	0	×	×	0	×	×
ZE	Rul	bber stopper	•		•		0	0	0	0	0	0
ZF						•	0	×	×	0	×	×
ZG				•	•	0	×	×	0	×	×	
ZH	Sho	Shock absorber/RJ			•		0	×	0	0	×	×
ZJ						•	0	×	×	0	×	×
ZK		Metal stopper		•	•	0	×	×	0	×	×	
ZL	Me			•		0	0	0	0	0	0	
ZM						•	0	×	×	0	×	×
ZN				Without adjuster	/		0	○*4	×	0	×	0*4
ZP	Sho	rter overall		Rubber stopper		•	0	×	×	0	×	×
ZQ		ath type*3		Shock absorber/RJ			0	×	×	0	×	×
ZS	ienç	giii type '	ē	Metal stopper with bumper			0	×	×	0	×	×
ZT			adjuster	Metal stopper	/	•	0	×	×	0	×	×
ZBF	_	Metal		Rubber stopper	•	•	0	×	×	0	×	×
ZBJ	djuster	stopper with	end	Shock absorber/RJ	•	•	0	×	×	0	×	×
ZBM	등	bumper		Metal stopper	•	•	0	×	×	0	×	×
ZEC	Ø	Rubber	stroke	Metal stopper with bumper	•	•	0	×	×	0	×	×
ZEJ	□ □		st	Shock absorber/RJ	•	•	0	×	×	0	×	×
ZEM	ao l'			Metal stopper	•	•	0	×	×	0	×	×
CHC	strok	Shook	ξį	Metal stopper with bumper	•	•	0	×	×	0	×	×
ZHF				Rubber stopper	•	•	0	×	×	0	×	×
'HM	0	ausuiuei/HJ	₩	Metal stopper	•	•	0	×	×	0	×	×
ZLC	Sus	Metal		Metal stopper with bumper	•	•	0	×	×	0	×	×
ZLF	\sim 1			Rubber stopper	•	•	0	×	×	0	×	×
ZLJ	 	stopper		Shock absorber/RJ	•	•	0	×	×	0	×	×

- *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.



- * 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.





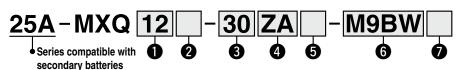
Height Interchangeable Type



25A-MXQ Series

Ø6, Ø8, Ø12, Ø16, Ø20, Ø25

How to Order





0	2 Bod	y option	
Bore	Standard type	Symmetric type	Standard stroke [mm]
size	Nil	L	
6	Port Switch mounting groove	Switch mounting groove Port	10, 20, 30, 40, 50
8			10, 20, 30, 40, 50, 75
12	· EFFFG		10, 20, 30, 40, 50, 75, 100
16	Switch mounting groove Switch mounting groove		10, 20, 30, 40, 50, 75, 100, 125
20		*1	10, 20, 30, 40, 50, 75, 100, 125, 150
25	Port 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.

* The operating speed range of the stroke marked with an asterisk (*) is 50 to 300 mm/s. (Without stroke adjuster)

Functional options

Symbol	Functional option
Nil	Without functional option
1	With buffer
2	With end lock
3	Axial piping
4	With buffer, end lock
5	With buffer, axial piping

Number of auto switches Nil 2 S

6 Auto switch

Nil Without auto switch (Built-in magnet)

For applicable auto switches, refer to page 207.

Adjuster ontions/Functional ontion combinations

	I Adjuster type*6			Adjuster mounting Functional option combination					ination			
					posit	tion*1	Nil	1	1 2		4	5
Symbol			Extension stroke end	Retraction stroke end	Without functional option	*2 With buffer	With end lock	Axial piping	*2 With buffer, end lock	*2*5 With buffer axial piping		
Z	Wi	Without adjuster					0	0	0	0	0	0
ZA					•	•	0	×	×	0	×	×
ZB	Me	etal stopper v	vith	bumper	•		0	×	0	0	×	×
ZC						•	0	×	×	0	×	×
ZD	Rubber stopper			•	•	0	×	×	0	×	×	
ZE				•		0	0	0	0	0	0	
ZF					•	0	×	×	0	×	×	
ZG			•	•	0	×	×	0	×	×		
ZH	Shock absorber/RJ			•		0	×	0	0	×	×	
ZJ				•	0	×	×	0	×	×		
ZK	Metal stopper			•	•	0	×	×	0	×	×	
ZL				•		0	0	0	0	0	0	
ZM					•	0	×	×	0	×	×	
ZN		Without adjuster			/		0	O*4	×	0	×	0*4
ZP	C h	orter total		Rubber stopper	/	•	0	×	×	0	×	×
ZQ	_	ngth type*3		Shock absorber/RJ		•	0	×	×	0	×	×
ZS	iei	igiii type s	adjuster	Metal stopper with bumper] /	•	0	×	×	0	×	×
ZT			l isi	Metal stopper	/	•	0	×	×	0	×	×
'BF	7	Metal			•	•	0	×	×	0	×	×
ZBJ	ste	stopper with	end	Shock absorber/RJ	•	•	0	×	×	0	×	×
BM	adjuster	bumper	0	Metal stopper	•	•	0	×	×	0	×	×
EC		Rubber	봉	Metal stopper with bumper	•	•	0	×	×	0	×	×
ZEJ	en	Stroke en stroke		Shock absorber/RJ	•	•	0	×	×	0	×	×
EM				Metal stopper	•	•	0	×	×	0	×	×
HC	tro			Metal stopper with bumper	•	•	0	×	×	0	×	×
HF				Rubber stopper	•	•	0	×	×	0	×	×
HM	sion	absolbei/No	🖁	Metal stopper	•	•	0	×	×	0	×	×
ZLC	ens	Metal		Metal stopper with bumper	•	•	0	×	×	0	×	×
ZLF	Extens	stopper		Rubber stopper	•	•	0	×	×	0	×	×
71 .I	ш	Juchhai	1	Shock absorber/R.I				~	×	\circ	_ ×	l ×

- 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 ø6.

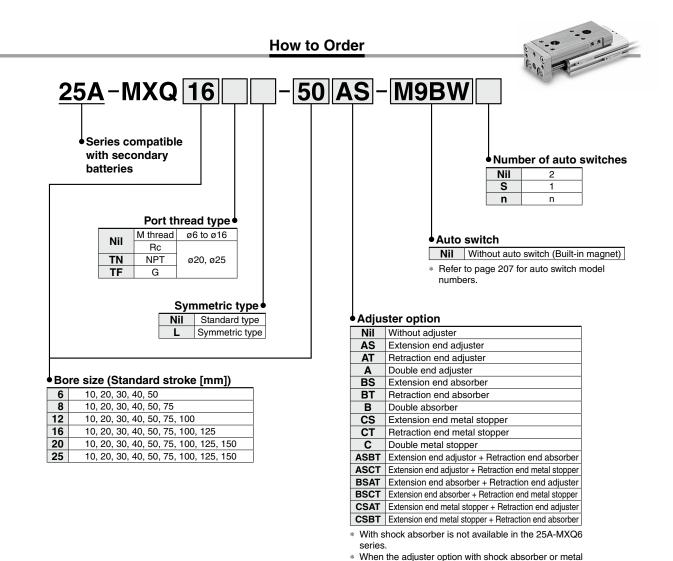


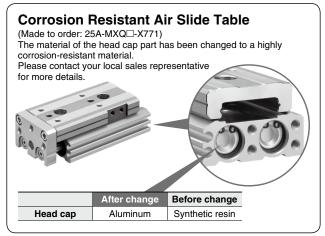
- When the shock absorber, metal stopper with bumper, or adjuster option with metal stopper is used, metal-to-metal collisions occur, and may generate dust particles.
- When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.
- * The 25A- series specifications and dimensions are the same as those of the standard model.



25A-MXQ Series

Ø6, Ø8, Ø12, Ø16, Ø20, Ø25





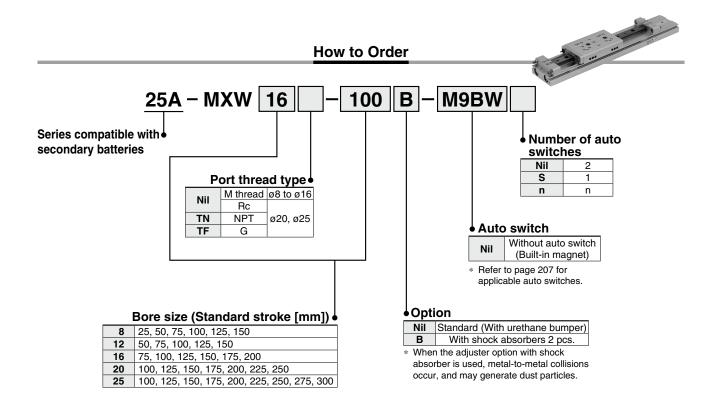
* The 25A- series specifications and dimensions are the same as those of the standard model.

stopper is used, metal-to-metal collisions occur, and

may generate dust particles.

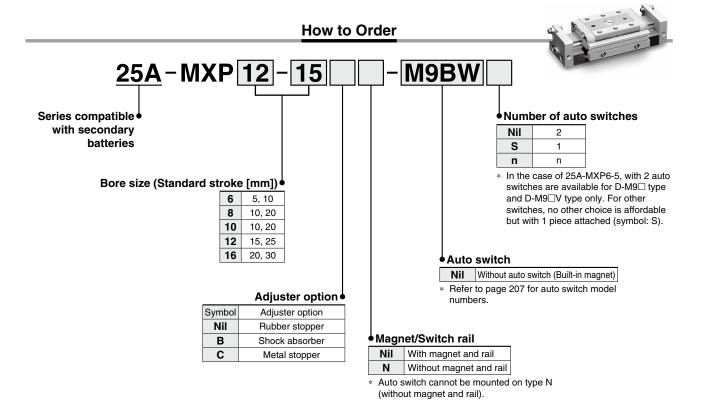
25A-MXW Series

Ø8, Ø12, Ø16, Ø20, Ø25



Air Slide Table 25A-INXP SeriesØ6, Ø8, Ø10, Ø12, Ø16





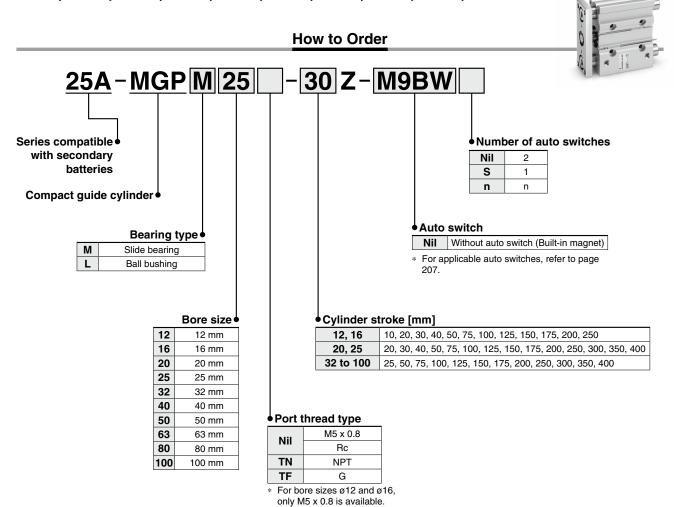
- * Adjuster for 25A-MXP6 series is available for one side only.
- * Shock absorber is not available in 25A-MXP6 and 25A-MXP8 series.
- * When the adjuster option with shock absorber or metal stopper is used, metal-to-metal collisions occur, and may generate dust particles.



Compact Guide Cylinder

25A-MGP Series

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

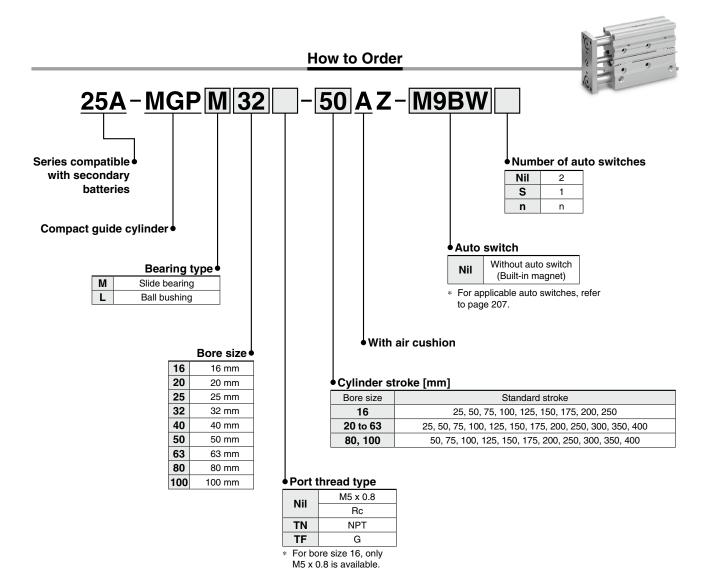


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

Compact Guide Cylinder/With Air Cushion

25A-MGP Series

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

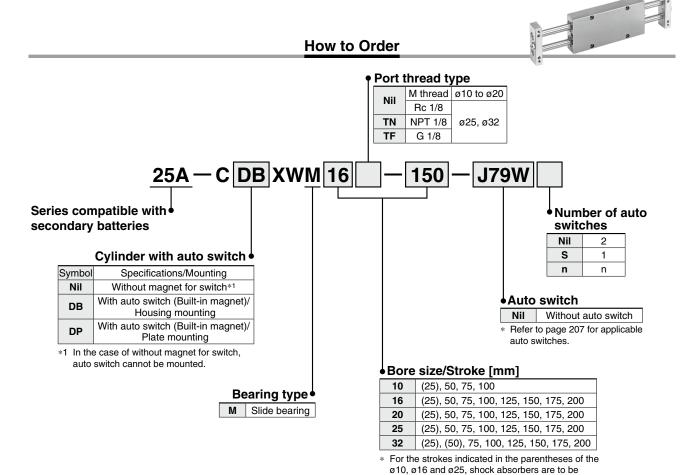


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

Slide Unit: Built-in Shock Absorber Slide Bearing Type

25A-CXWM Series

Ø10, Ø16, Ø20, Ø25, Ø32



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDPXWM20-100

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

mounted on both sides of the plate. For the strokes indicated in the parentheses of the Ø20 and Ø32, a shock absorber is to be mounted on single side of

For the strokes other than those indicated above,

For Ø16, Ø20 and Ø25, strokes up to 300, and for

ø32, strokes up to 250 are available as Made-to-

the plate.

Order.

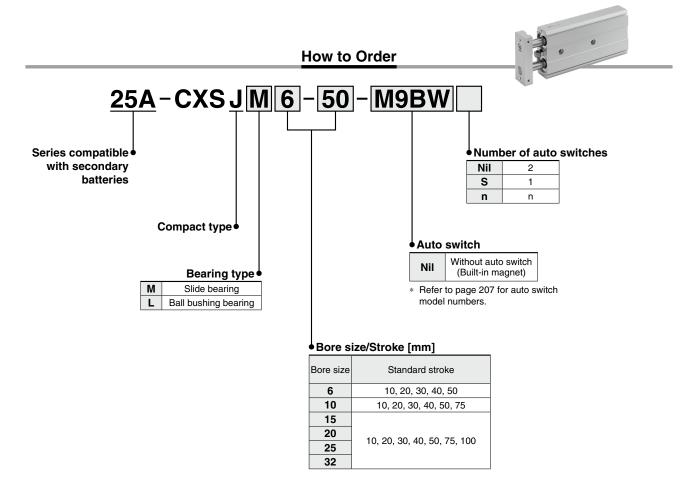
refer to the Web Catalog.



Dual Rod Cylinder/Compact Type

25A-CXSJ Series

Ø6, Ø10, Ø15, Ø20, Ø25, Ø32



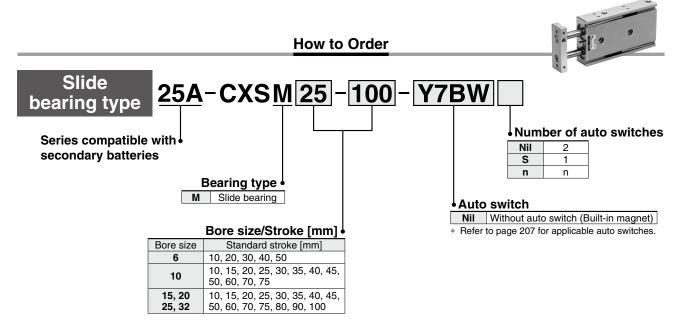
^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

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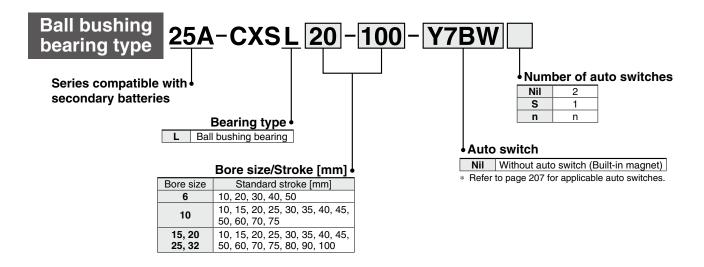
Dual Rod Cylinder Basic Type

25A-CXS Series

Ø6, Ø10, Ø15, Ø20, Ø25, Ø32



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

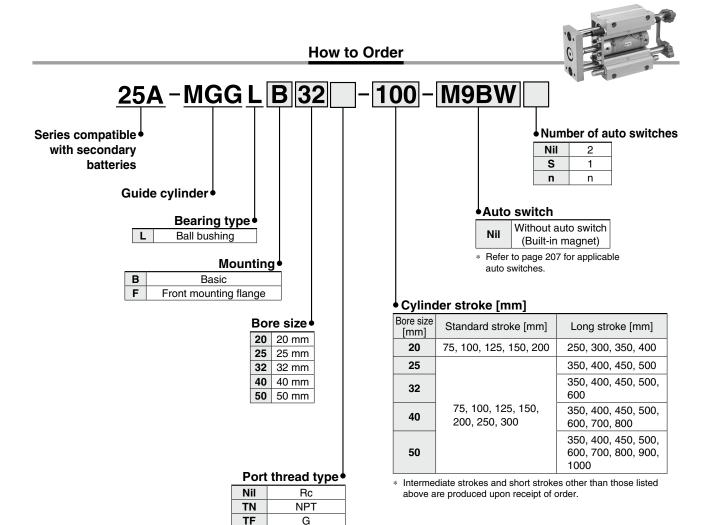




Guide Cylinder

25A-MGG Series

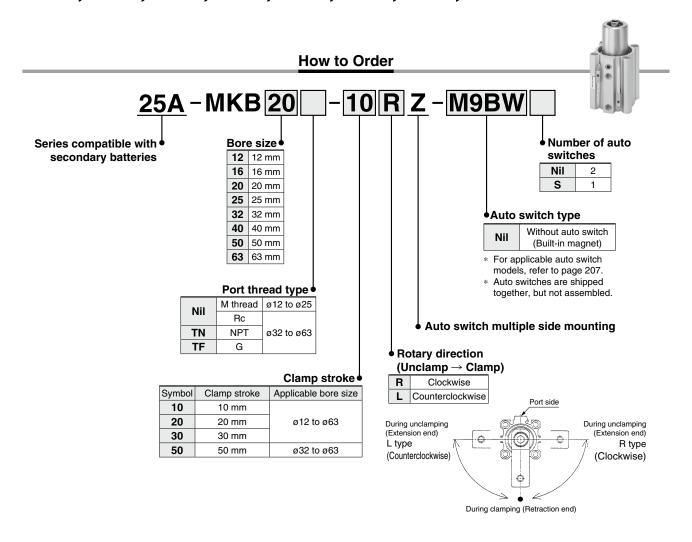
Ø20, Ø25, Ø32, Ø40, Ø50



Rotary Clamp Cylinder: Standard

25A-MK Series

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



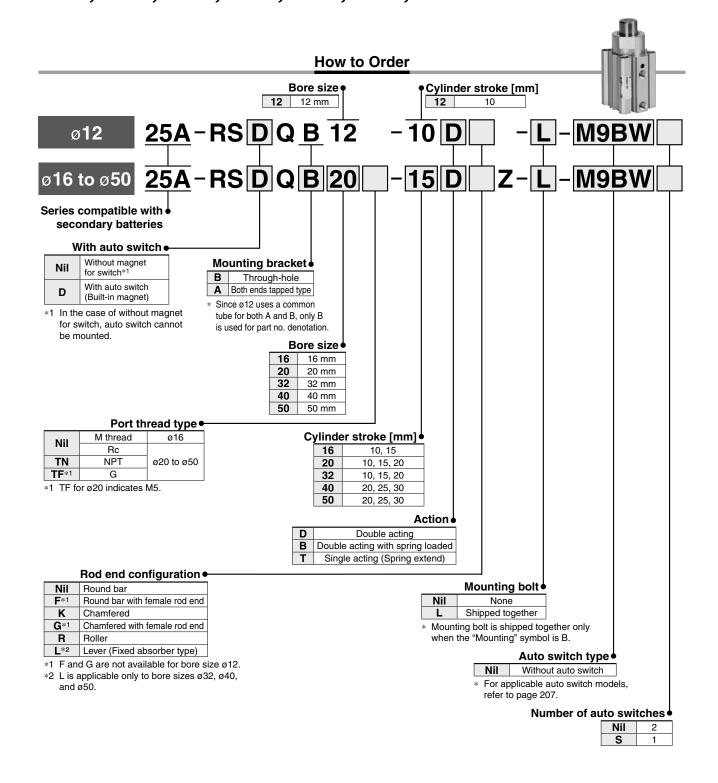


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

Stopper Cylinder/Fixed Mounting Height

25A-RSQ Series

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50



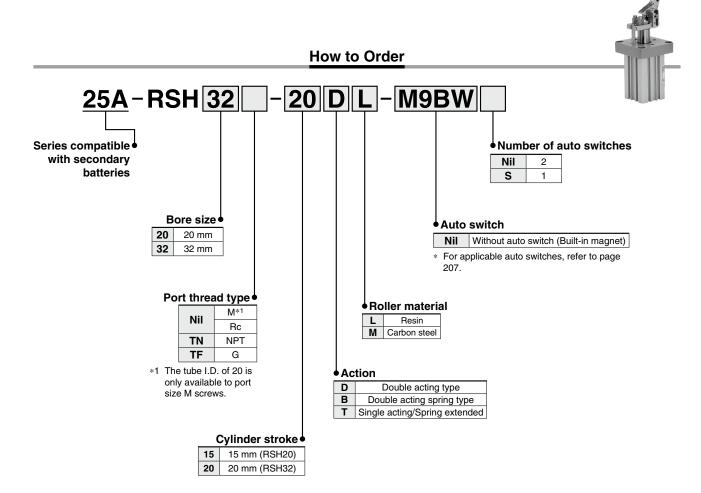
The 25A- series specifications and dimensions are the same as those of the standard model.



Heavy Duty Stopper Cylinder

25A-RSH Series

ø**20**, ø**32**

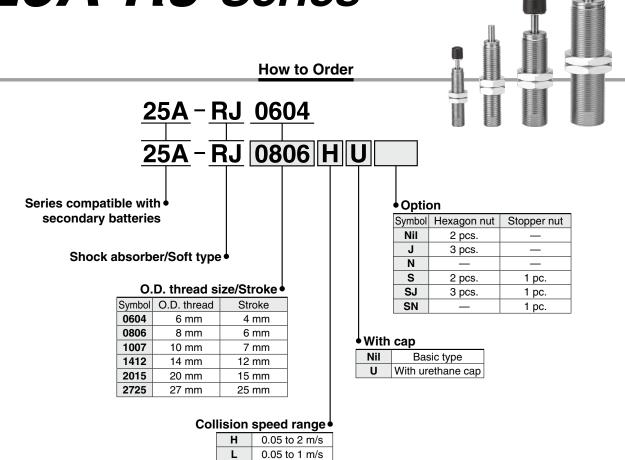


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.



Shock Absorber Soft Type

25A-RJ Series



* 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

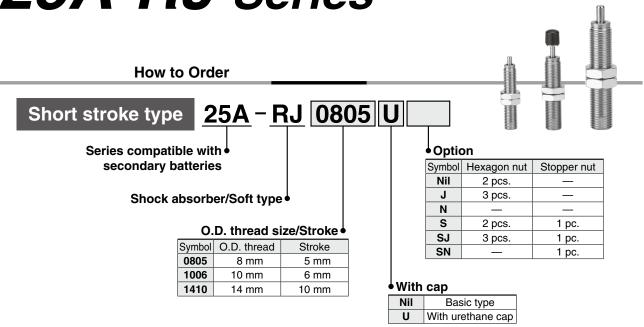
				Thread size		
		М8	M10	M14	M20	M27
Hexagon nut		25-RB08J	25-RB10J	25-RB14J	25-RB20J	25-RB27J
Ctonnor nut	Basic type	25-RB08S	25-RB10S	25-RB14S	25-RB20S	25-RB27S
Stopper nut	With cap	25-RBC08S	25-RBC10S	25-RBC14S	25-RBC20S	25-RBC27S

Material: Special steel
Treatment: Electroless nickel plating



Shock Absorber Short Stroke Type

25A-RJ Series



Hexagon Nut, Stopper Nut (Option) Part Nos. for the 25A- Series

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

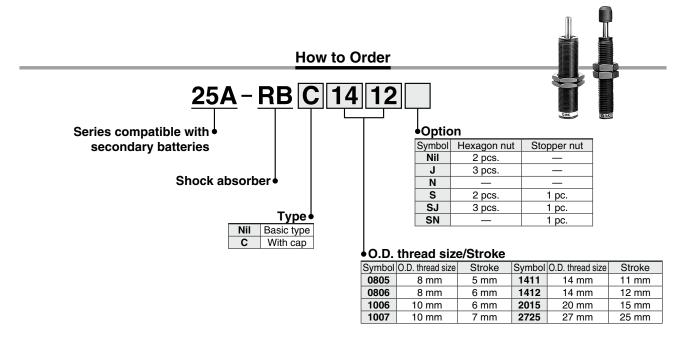
Material: Special steel

Treatment: Electroless nickel plating



Shock Absorber

25A-RB/RBC Series



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
Ctopper put	Basic type	25-RB08S	25-RB10S	25-RB14S	25-RB20S	25-RB27S
Stopper nut	With cap	25-RBC08S	25-RBC10S	25-RBC14S	25-RBC20S	25-RBC27S

Material: Special steel

Treatment: Electroless nickel plating



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

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]

Symbol	Applicable			
Symbol	bore size [mm]			
80	80			
100	100			

 For ø63 or less, please consider using the stainless steel type 25A-JS series. Thread nominal size (Standard)

Applicable cylinder
nominal thread size
M22 x 1.5
M26 x 1.5

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

How to Order



Series compatible with secondary batteries

For compact cylinders/Female thread

Applicable bore size [mm]

Applicable
bore size [mm]
12
16
20
25
32, 40
50, 63
80
100

Thread nominal size

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

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

How to Order

Stainless steel type **25A** - J S **32** - **10-125**

Series compatible with secondary batteries

Stainless steel type

Applicable bore size [mm]

Symbol	Applicable		
Symbol	bore size [mm]		
10	10		
16	10, 16		
20	20		
32	25, 32		
40	40		
63	50, 63		

Thread nominal size

riii cau iioiiiiiai size			
Applicable cylinder			
nominal thread size			
M4 x 0.7			
M5 x 0.8			
M8 x 1.25			
M10 x 1.25			
M14 x 1.5			
M18 x 1.5			



Rotary Table: Vane Type

25A-MSUB Series

Size: 1, 3, 7, 20



Connection •

port location

Nil Side ported

E Axial ported

Available with side ported

90 S

only, when equipped with auto switch unit.

Without auto switch 25A - M SUB 20 - 90 S

Series compatible with

secondary batteries
With auto switch

With auto switch 25A- M D SUB 20

(Built-in magnet)

Nominal size (Torque) ◆

1	MSUB 1
3	MSUB 3
7	MSUB 7
20	MSUB20

Rotating angle

Application	Symbol	Rotating angle
Single	90	90°
vane	180	180°
Double	90	90°
vane		30

Rotation adjustment range Single vane: Both ends $\pm 5^{\circ}$ each Double vane: Both ends $\pm 2.5^{\circ}$ each

Vane type •

S	Single vane
D	Double vane

Number of auto switche

auto	SWILCHES
S	1 *1
Nil	2*2

RoHS

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

Electrical entry/ Lead wire length

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

Nil	Without auto switch
INII	(Built-in magnet)

Refer to page 209 for applicable auto

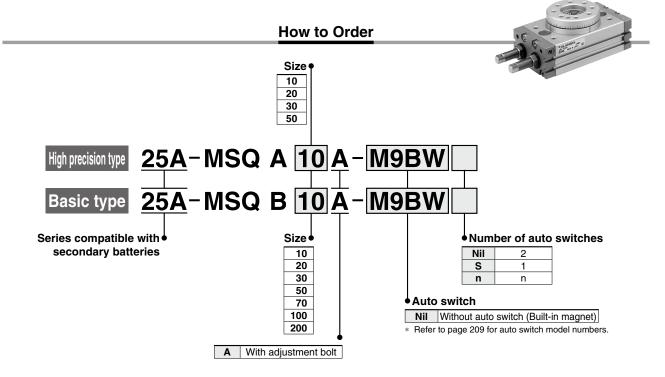
- * The 25A- series specifications and dimensions are the same as those of the standard model.
- Zinc is used in part of deep groove ball bearing.

Rotary Table/Rack & Pinion Type

25A-MSQ Series

Size: 10, 20, 30, 50, 70, 100, 200

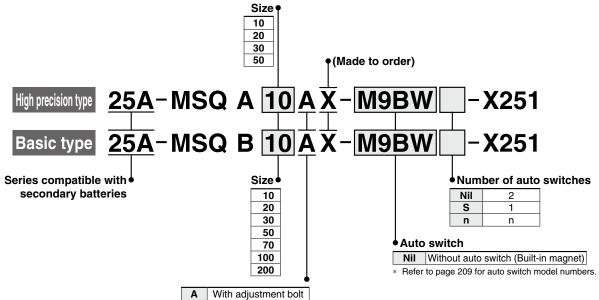




- st Zinc is used in part of deep groove ball bearing and seal washer.
- * Side port cannot be used.

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

With Vacuum Port

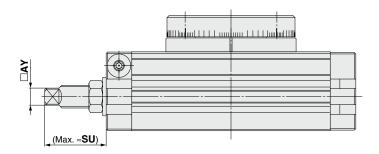


- * Zinc is used in part of deep groove ball bearing and seal washer.
- Side port cannot be used.

25A-MSQ Series

Dimensions

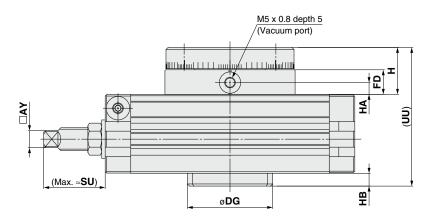
25A-MSQB□A



		[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.

25A-MSQB□AX-X251



								[mm]
Size	AY	DG	FD	Н	HA	НВ	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

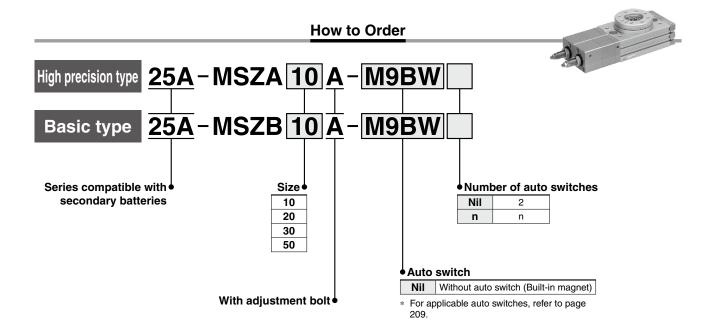
- $\ast\,$ The product with the vacuum port has no hollow shaft at its rotation center.
- * Dimensions other than those shown above are identical to the standard products.

3-Position Rotary Table

25A-MSZ Series

Size: 10, 20, 30, 50





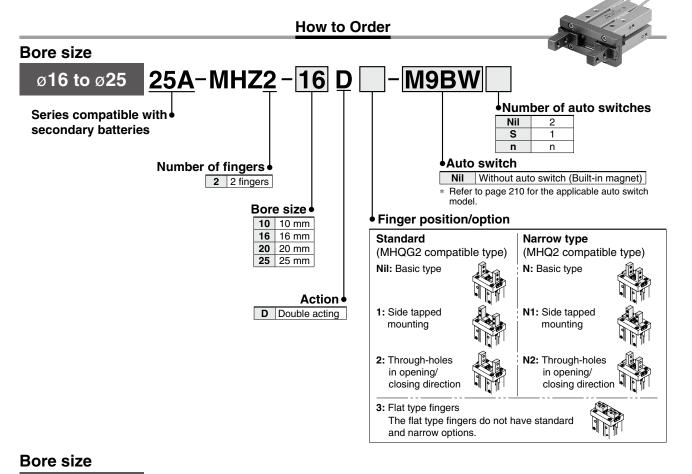
^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

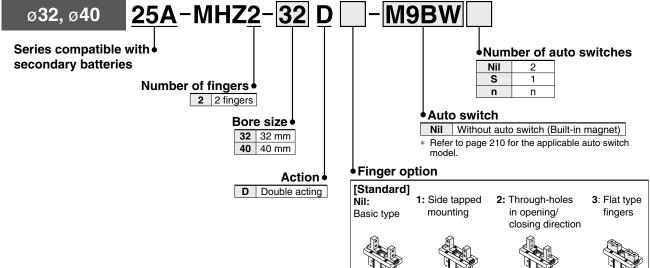
Parallel Type Air Gripper Standard Type

25A-MHZ2 Series

Ø10, Ø16, Ø20, Ø25, Ø32, Ø40





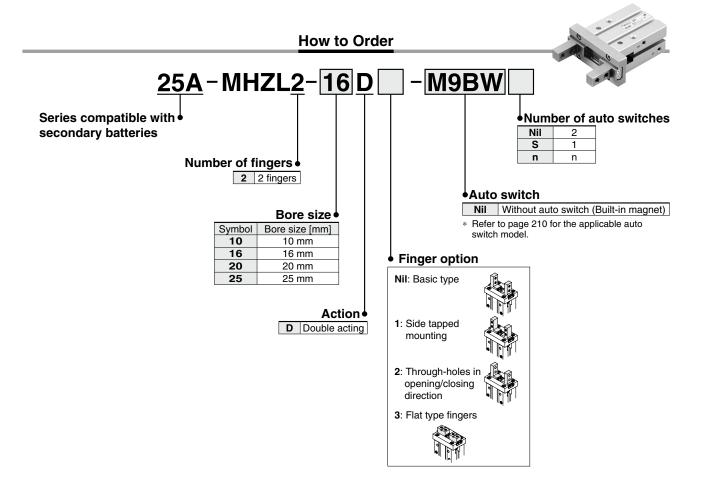


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.



Parallel Type Air Gripper Long Stroke Type 25A-MHZL2 Series



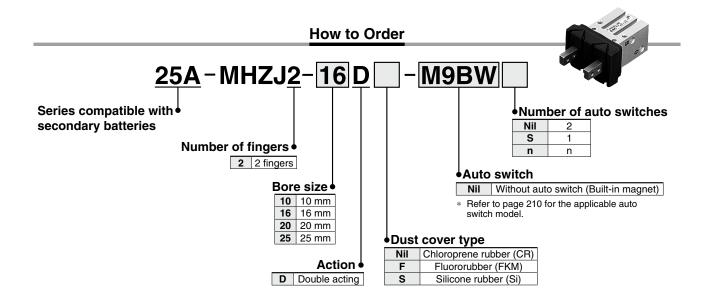




25A-MHZJ2 Series

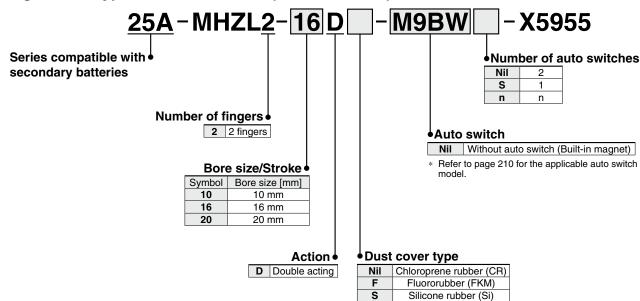
Parallel Type Air Gripper with Dust Cover: Long Stroke Type

25A-MHZL2 Series (Made to Order)



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

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

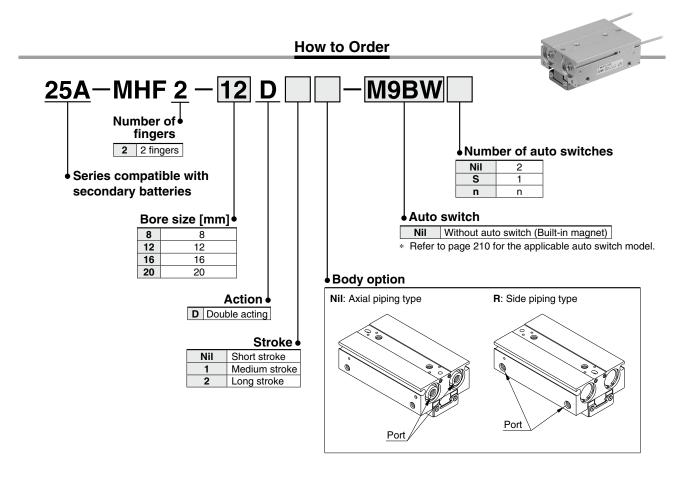




Low Profile Air Gripper

25A-MHF2 Series





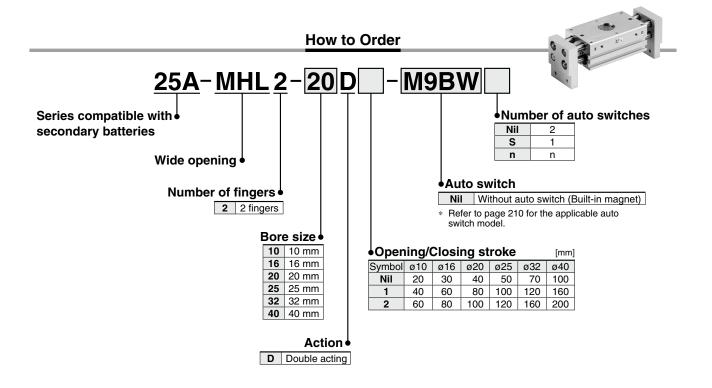


Parallel Type Air Gripper: Wide Type

25A-MHL2 Series

Ø10, Ø16, Ø20, Ø25, Ø32





* The 25A- series specifications and dimensions are the same as those of the standard model. (Weight is not the same.)

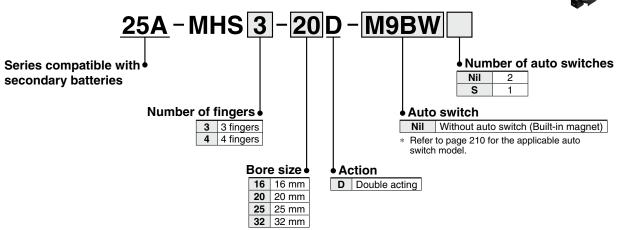
Parallel Type Air Gripper

25A-MHS□ Series

Ø16, Ø20, Ø25



How to Order

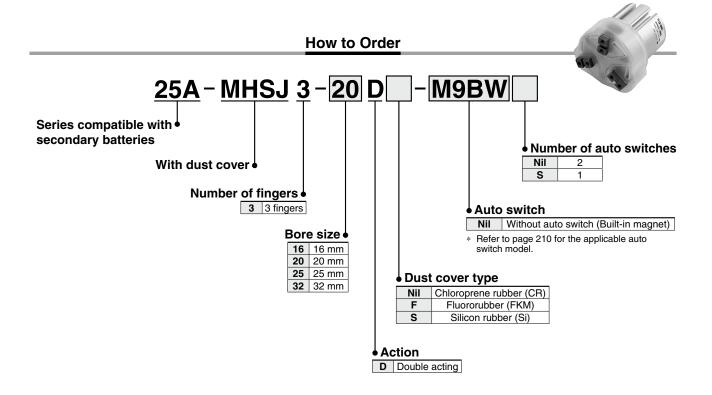


Parallel Type Air Gripper 3-Finger Type with Dust Cover

25A-MHSJ3 Series

Ø16, Ø20, Ø25



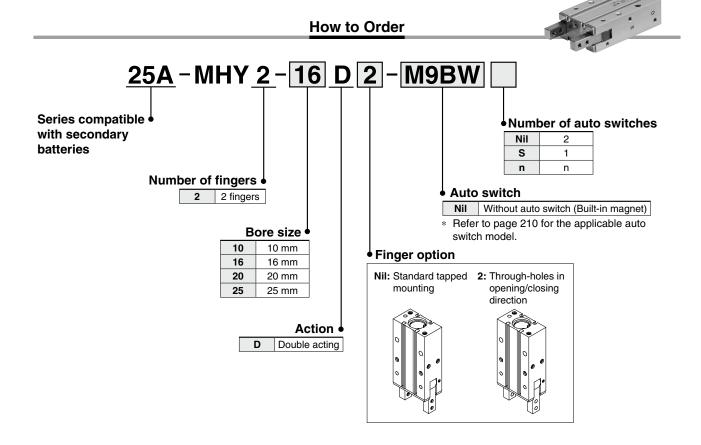


180° Angular Type Air Gripper Cam Type

25A-MHY2 Series

Ø10, Ø16, Ø20, Ø25





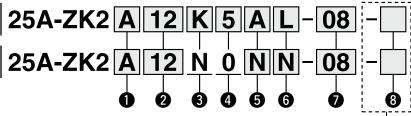
Vacuum Unit

25A-ZK2 Series



Ejector System (with Valve) 25A-ZK2 A

Ejector System (without Valve)



Remains blank when no option is selected.

Supply valve

0 s	System/Body type										
Symbol	System	Body type	Exhaust type								
A			Silencer exhaust	Built-in silencer							
В	Ejector system	Single unit	Port exhaust*1								
G			High-noise reduction silencer exhaust								

*1 Port size of exhaust port: Ø8 (Metric)

With silencer

3 Combination of supply valve and release valve*3

а	ilu lelease valve	Release valve	
Symbol	Supply valve	Release valve	
*5 K	N.C.	N.C.	
J	N.C.	None	
R	Self-holding release valve linked*4	N.C.	
N	None	None	

RoHS

- *3 Only non-locking type is available for the manual override for "K," "J," and "R."
- *4 Self-holding type maintains vacuum by instantaneous energization (20 ms or more). Stopping the vacuum turns on the release valve. (signal to stop vacuum not needed)
- *5 When the digital pressure switch for vacuum with energy saving function is selected for ⑤, select "K" for ⑥ Combination of supply valve and release valve.

2 Nominal nozzle size

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

*2 Standard supply pressure for nozzle size 07 to 12: 0.35 MPa 15: 0.4 MPa

4 Rated voltage*6

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

*6 Rated voltage for the supply and release valve

Manifold type is not available.

Pressure sensor/Digital pressure switch for vacuum specifications

Symbol	Туре	Pressure range [kPa]		Specifications	Pressure sensor		
Р	Pressure	0 to -101	Analo	og output 1 to 5 V			
Т	sensor	-100 to 100	Analo	og output 1 to 5 V			
A B			NPN 2 outputs	Unit selection function*7 SI unit only*8	Digital pressure		
С	Digital pressure	0 to -101	PNP	Unit selection function*7	switch for vacuum		
D E			2 outputs NPN	SI unit only*8 Unit selection function*7			
F		-100 to 100	2 outputs	SI unit only*8	Digital pressure switch		
J			PNP 2 outputs	Unit selection function*7 SI unit only*8	for vacuum with energy saving function		
K	Digital pressure		NPN	Unit selection function*7			
Q R	switch for vacuum with energy saving	-100 to 100	1 output	SI unit only*8 Unit selection function*7			
S	function*9		PNP 1 output	SI unit only*8			
N	Without pressure sensor/ Digital pressure switch for vacuum						

- *7 The Unit selection function is not available in Japan due to the New Measurement Law.
- *8 Fixed unit: kPa
- * When "K," "Q," "R," or "S" is selected, select "K" for
 Combination of supply valve and release valve. Select "W" or "L3" for



Vacuum Unit 25A-ZK2 Series

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

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

Cumbal				1
Symbol	Connector type	Lead wire with connector	connector for pressure switch/ sensor*13	
L		O*11	<u></u> *14	
L1		×*12	<u></u> *14	
L2	L-type plug connector	O*11	×*15	
L3		×*12	×*15	
w			ire for switch with aving function	
Y		-valve	○*14	
Y 1	(without supply/release valve) When "N" is selected for 3		×	
N		elected for both ly/release valve, sor)		

- *10 Solenoid valve with light/surge voltage suppressor
- st 11 The standard lead wire length for the solenoid valve is 300 mm.
- *12 For lead wire lengths other than the standard, select "L1 or L3," and order a connector assembly with the desired length. (Refer to page 143.)
- *13 The standard lead wire length for the pressure sensor is 3 m. The standard length for the lead wire with connector for the vacuum pressure switch and the lead wire length for the switch with energy saving function is 2 m.
- *14 Select "L," "L1," or "Y" when the pressure sensor (P, T) is selected for ⑤ Pressure sensor/ Digital pressure switch for vacuum specifications. Since only the grommet type is available for the pressure sensor, the sensor without a lead wire cannot be selected.
- *15 Select when no vacuum pressure switch, pressure sensor, or vacuum pressure switch with connector without a lead wire is used.

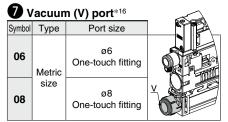
Single Unit and Options*22

	on and options									
0	2	•	4	6	6	0	8			
System/	Nominal	Combination of supply	Rated	Pressure sensor/digital pressure	Supply valve/release valve/digital pressure	Vacuum (V)	Optional			
Body type	nozzle size	valve and release valve	voltage	switch for vacuum specifications	switch for vacuum connector specifications	port	specifications			
				P/T	L/L1					
		ĸ		A/B/C/D/E/F/H/J	L/L1/L2/L3		B/D/J/K/W			
				N	L2/L3	2/L3				
				K/Q/R/S	L3/W		B/D/J/K			
	07		5	P/T	L/L1					
	10	R	6	A/B/C/D/E/F/H/J	L/L1/L2/L3	06	B/D/J/K/W			
A/B/G				N	L2/L3					
	12			P/T	L/L1	08				
	15	J		A/B/C/D/E/F/H/J	L/L1/L2/L3]	B/W			
				N	L2/L3]				
				P/T	Υ	1				
		N	0	A/B/C/D/E/F/H/J	Y/Y1		B/W			
				N	N					

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

For options not listed in the table above, please contact SMC.

* Refer to the Web Catalog when mounting single unit to DIN rail.



*16 Supply (PV) port size of single unit: ø6

8 Optional Specifications*17

	Symbol	Туре	
	Nil Without option		
	В	With one bracket for mounting a single unit (A mounting screw is attached.)	
D With		With individual release pressure supply (PD) port*18	
	7	Vacuum break flow adjusting needle Round lock nut type	
	K	Vacuum break flow adjusting needle Screwdriver operation type	
	W	With exhaust interference prevention valve*19, *20, *21	

- *17 When more than one option is selected, list the option symbols in an alphabetical order. Example) -BJ
- *18 Only M3 is available for PD port size. Use One-touch fittings or barb fittings with O.D. ø6.2 or less for piping. (Recommended fitting: M-3AU-4)
- *19 To prevent backflow of the exhaust air, not for holding vacuum. This option does not completely stop the backflow of the exhaust air. Select the port exhaust type according to the application.
- *20 When "J" is selected for **3** Combination of supply valve and release valve and "W" (exhaust interference prevention valve type) is selected for **3** Optional specifications/Functions/Applications, install a release valve or vacuum breaker.
- *21 When "K," "Q," "R," or "S" is selected for Pressure sensor/Digital pressure switch for vacuum specifications, a model with an exhaust interference prevention valve is provided. So, it is not necessary to select "W."



Replacement Parts/How to Order

■ Valve assembly



Applicable system

A For ejector system

0	Valve	type
---	-------	------

K	Supply valve N.C., Release valve N.C.
R	Supply valve, self-holding type (Linked to release valve)
J	Supply valve only (Single)

Rated voltage 5 24 VDC 6 12 VDC

4 Lead wire entry direction

L	L-type plug connector with lead wire (Individual wiring)
LO	L-type plug connector, without connector

Select the ZK2-VAAK□LO-A for a switch with energy saving function. This assembly does not include special cable assembly for a switch with energy saving function.

■ Vacuum pressure switch assembly

Rated pressure range and function

Е	0 to -101 kPa	Vacuum pressure switch	Onen collector O cutouto
F	-100 to 100 kPa	vacuum pressure switch	Open collector 2 outputs
٧	-100 to 100 kPa	Pressure switch with energy saving function	Open collector 1 output

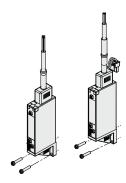
2 Output specifications

Α	NPN
В	PNP

3 Unit specifications

Nil	Unit selection function*1
M	SI unit only*2

- *1 The unit selection function is not available in Japan due to the Measurement Law.
- *2 Fixed unit: kPa



4 Lead wire with connector

Nil		None
G	With lead	When 1 is E or F···For vacuum pressure switch, Lead wire with connector (Length 2 m)
	wire	When 1 is V···For switch with energy saving function, Lead wire with connector (Length 2 m)

■ Connector assembly

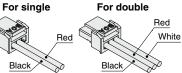
ZK2 – LV W

Applicable valve type

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

Lead	wire lengt	ł
Nil	300 mm	
6	600 mm	
10	1000 mm	
20	2000 mm	
30	3000 mm	

For single



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

■ Pressure sensor assembly

Rated pressure range and specifications

1	0 to -101 kPa, Output: 1 to 5 V, Accuracy: ±2% F.S. or less
3	-100 to 100 kPa, Output: 1 to 5 V, Accuracy: ±2% F.S. or less



■ High-noise reduction silencer case assembly

LXIIaust port size			port size
	4	ø4	For nozzle size 07, 10
	6	ø6	For nozzle size 12, 15

Vacuum Unit 25A-ZK2 Series

Optional Specifications/Functions/Applications

Symbol	Туре	Function/Application
В	With one bracket for mounting a single unit (Mounting screw is attached.)	Use when a single unit is mounted to the floor in an upright position is requested. (The part number for ordering only a bracket is 25A-ZK2-BK1-A. Bolt nuts are included.)
D	With individual release pressure supply (PD) port	Use when supply pressure for vacuum release which pressure is different from the ejector supply pressure is requested.
J	Vacuum break flow adjusting needle Round lock nut type	Thicker than standard hexagon type. More suitable for hand tightening. Round lock nut improves operability when the exhaust port type is used.
К	Vacuum break flow adjusting needle Screwdriver operation type	Slotted type improves fine adjustment performance when the exhaust port 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.





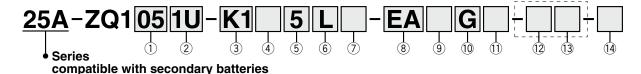
Space Saving Vacuum Ejector

25A-ZQ Series



How to Order

Ejector Unit



1) Nozzle nominal size

_	
05	ø0.5
07	ø0.7
10	α1 O

2 Exhaust type

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 clos		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).)

Nil	Standard (DC: 1 W)*2
Υ	DC low wattage type (0.5 W)*2

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

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

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

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

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

^{*} Combinations ① to ⑩ in the above table are the only possible options.



¹U With silencer for single unit3M With silencer for manifold

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)	B

7 Manual override*4

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

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

8 Vacuum pressure switch suction filter*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 + analog voltage, with suction filter		
EE	0 to -101 kPa/PNP open collector 1 output + analog 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 + analog voltage, with suction filter		
FE	100 to -100 kPa/PNP open collector 1 output + analog voltage, with suction filter		
F	Suction filter only		

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

△ Warning

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

11 Check valve*8

Nil	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.)

Vacuum pressure switch unit specifications

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

- *6 Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.
- *7 Fixed unit: kPa

(10) Vacuum pressure switch lead wire specifications

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

12 Fitting (V port)

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

13 Fitting (P port)

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

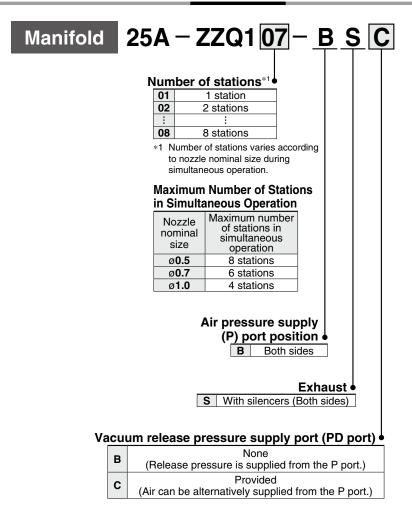
14 CE-compliant

Nil	_
Q	CE-compliant

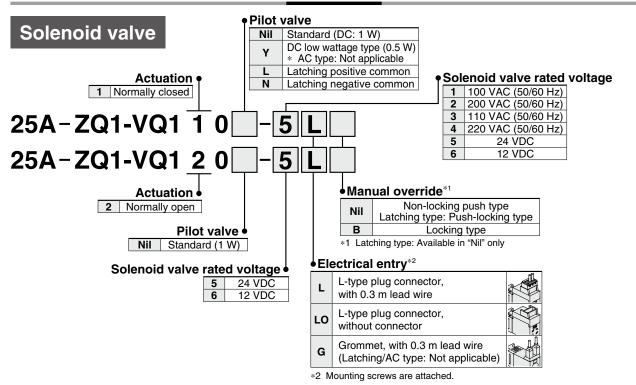
* CE-compliant: For DC only.

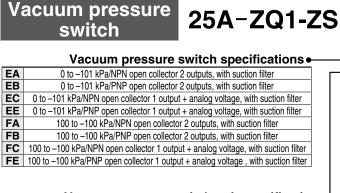






How to Order





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

- *1 Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.
- *2 Fixed unit: kPa

Vacuum pressure switch lead wire specifications

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

\top

Fitting (V port)

Symbol Applicable tubing O.D.

Without fitting (M5 x 0.8)

◆Check valve*3

Nil	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)			



Space Saving Vacuum Pump System



25A-ZQ Series



How to Order

Vacuum pump unit

1 Body type

detached.

U	For single unit		
М	For manifold		

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

Symbol	Supply valve	Vacuum release valve		
K1	Normally closed	Normally closed		
K2*1	Normally open	Normally closed		
J1 Normally closed		None		
J2*1	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

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

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

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

Nil	Standard (DC: 1 W)*2			
Υ	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-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-compliant products are not available for "1," "2," "3" and "4."

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

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

 $[\]ast\,$ Combinations 1 to 1 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

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

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

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 + analog voltage, with suction filter	
EE	0 to -101 kPa/PNP open collector 1 output + analog 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 + analog voltage, with suction filter	
FE	100 to -100 kPa/PNP open collector 1 output + analog voltage, with suction filter	
F	Suction filter only	

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

△Warning

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

Vacuum pressure switch unit specifications

Nil With unit switching function*6 M Fixed SI unit*7	
F	(Initial value psi)

- *6 Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.
- *7 Fixed unit: kPa

9 Vacuum pressure switch lead wire specifications

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

10 Fitting (V port)*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.
Nil Without port		_	Manifold
0	Without fitting (M5 x 0.8)	_	Single unit

12 CE-compliant

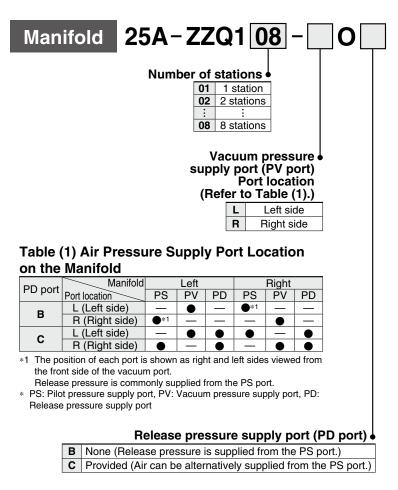
Nil	_
Q	CE-compliant

* CE-compliant: For DC only.

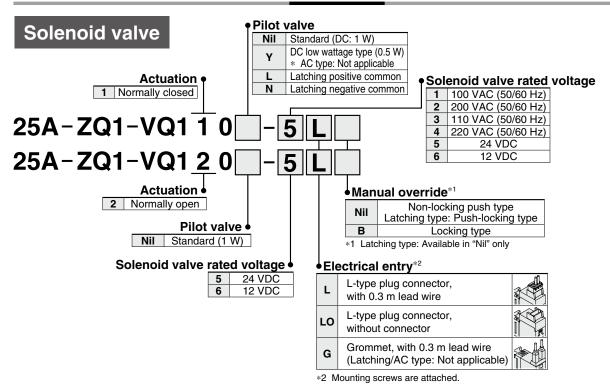


^{*8} For filter only (Without vacuum pressure switch)
When neither V port fitting nor PS/PV port fitting are needed, enter nothing or
-00 in the dotted line "How to Order".

How to Order



How to Order





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

- *1 Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.
- *2 Fixed unit: kPa

Vacuum pressure switch lead wire specifications

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

Fitting (V port)

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

Check valve*3

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

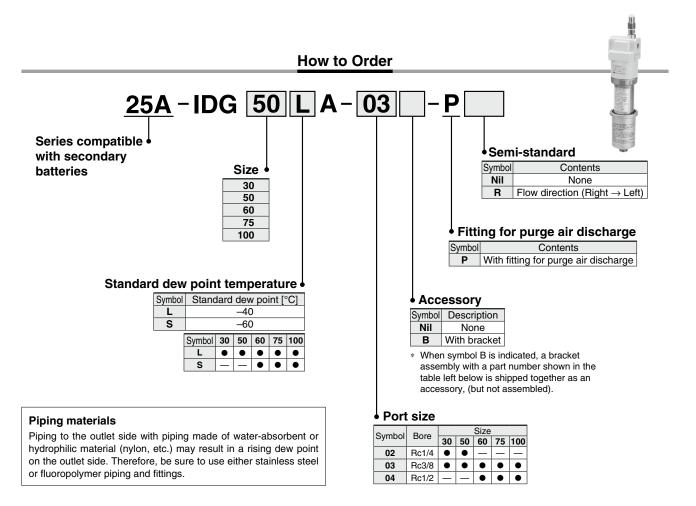


Membrane Air Dryer

25A-IDG Series

Single Unit/Standard Dew Point –40°C/–60°C Specifications





Bracket Assembly (Accessory) Part Nos.

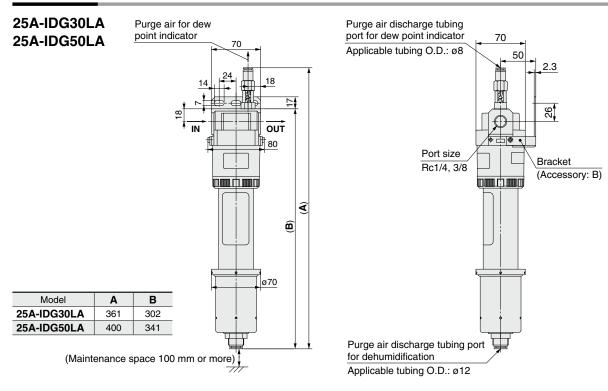
Part no.	Applicable model
25A-BM64	25A-IDG30LA, 50LA
25A-BM65	25A-IDG60LA, 75LA, 100LA

^{*} Assembly of a bracket and 2 mounting screws



Membrane Air Dryer 25A-IDG Series

Dimensions



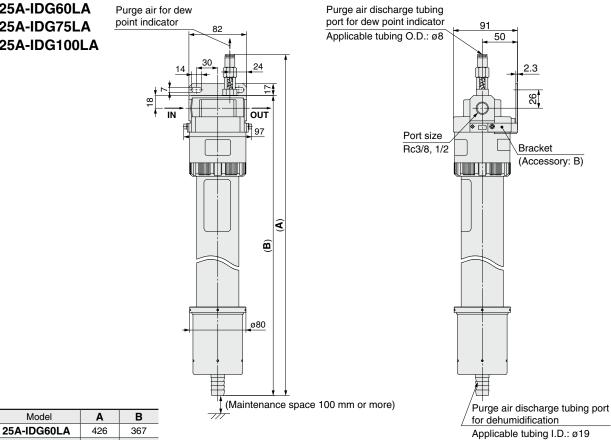


25A-IDG75LA

25A-IDG100LA

436

501

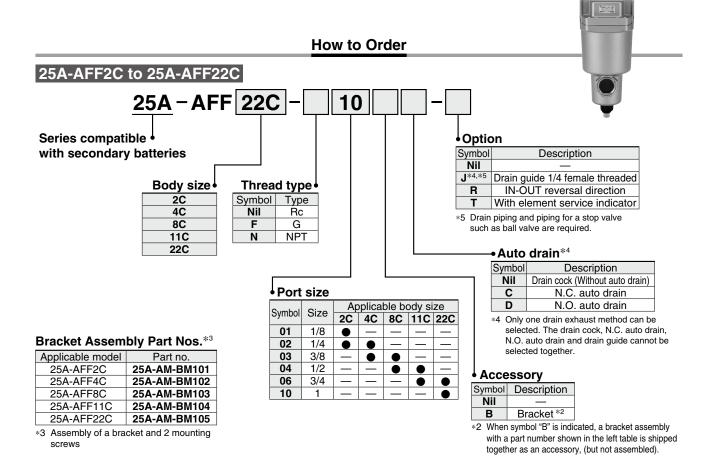




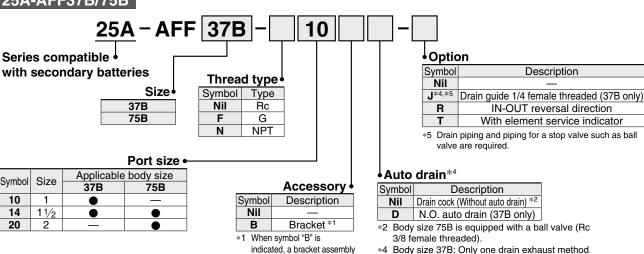
Main Line Filter

25A-AFF Series





25A-AFF37B/75B



Bracket Assembly Part Nos.*3

Applicable model	Part no.
25A-AFF37B	25A-BM56
25A-AFF75B	25A-BM57

^{*3} Assembly of a bracket and 2 mounting screws

with a part number shown in the left table is shipped together as an accessory, (but not assembled).

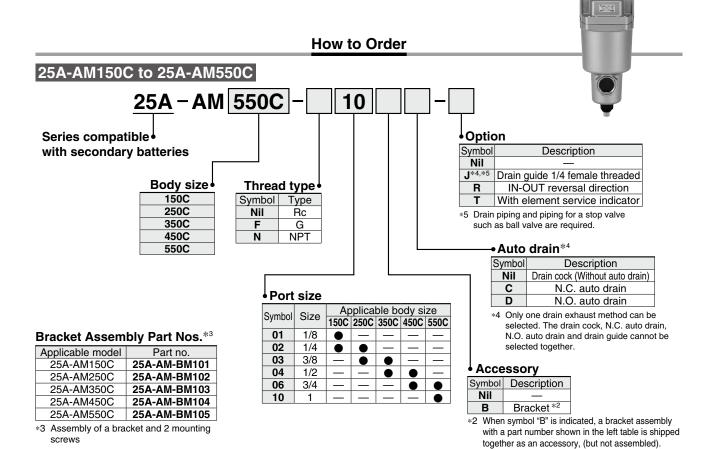
can be selected. The drain cock, N.O. auto drain and drain guide cannot be selected together.



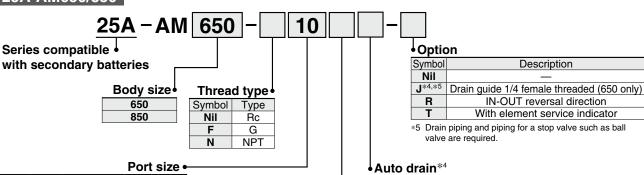
Mist Separator

25A-AM Series





25A-AM650/850



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

Bracket Assembly Part Nos.*3

Applicable model	Part no.
25A-AM650	25A-BM56
25A-AM850	25A-BM57

^{*3} Assembly of a bracket and 2 mounting screws

Accessory 4 Description Symbol Nil Bracket *1 *1 When symbol "B" is

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

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

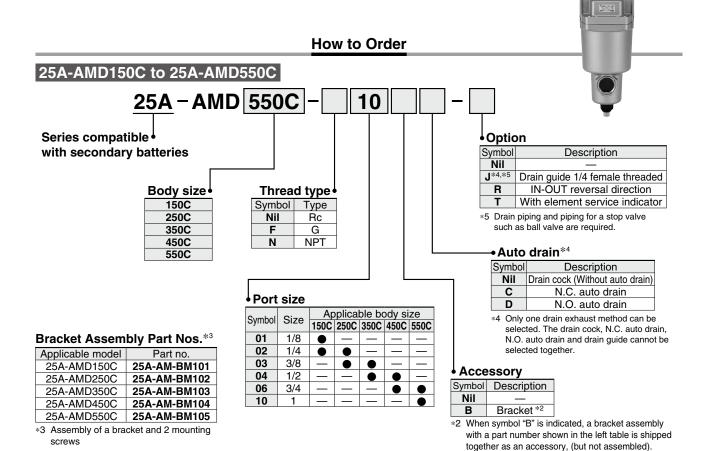
- *2 Body size 850 is equipped with a ball valve (Rc 3/8 female threaded).
- Body size 650: Only one drain exhaust method can be selected. The drain cock, N.O. auto drain and drain guide cannot be selected together.



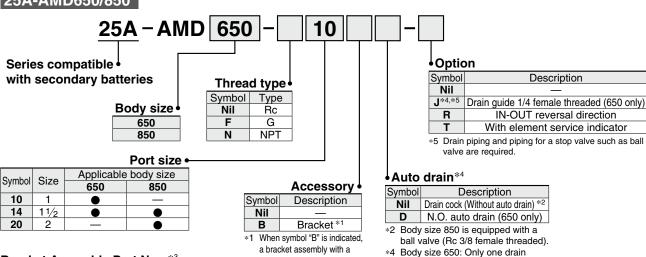
Micro Mist Separator

25A-AMD Series





25A-AMD650/850



^{*3} Assembly of a bracket and 2 mounting

Bracket Assembly Part Nos.*3

Part no.

25A-BM56

25A-BM57

Applicable model

25A-AMD650

25A-AMD850

together.

exhaust method can be selected.

The drain cock, N.O. auto drain

and drain guide cannot be selected

part number shown in the left

table is shipped together as

an accessory, (but not

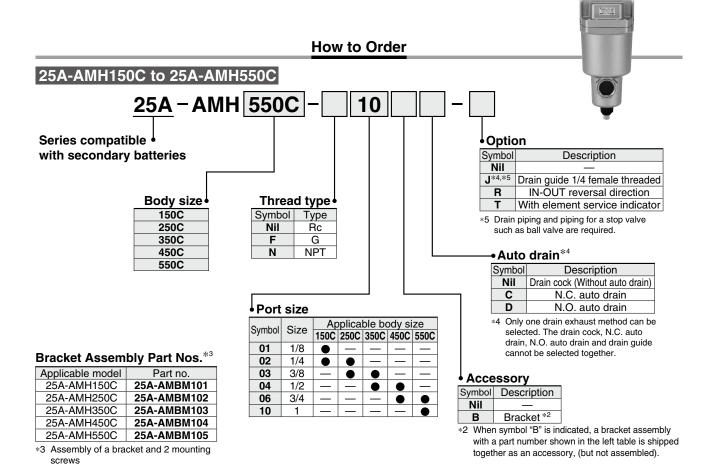
assembled).

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

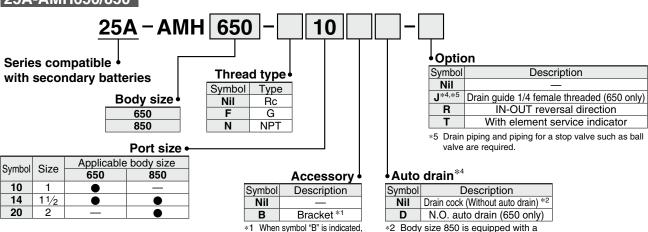
Micro Mist Separator with Pre-filter

25A-AMH Series





25A-AMH650/850



Bracket Assembly Part Nos.*3

Applicable model	Part no.
25A-AMH650	25A-BM56
25A-AMH850	25A-BM57

^{*3} Assembly of a bracket and 2 mounting screws

- ball valve (Rc 3/8 female threaded).

 *4 Body size 650: Only one drain

 exhaust method can be selected
- 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.

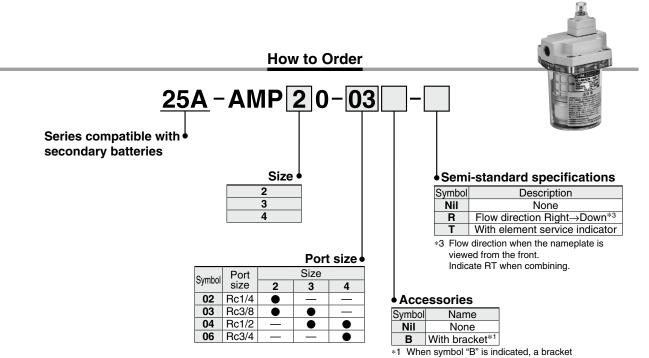
^{*} The 25A- series specifications and dimensions are the same as those of the standard model.



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

Exhaust Cleaner for Clean Room

25A-AMP Series



Bracket Assembly Part Nos.*2

Applicable model	Part no.
25A-AMP220	25A-BM66
25A-AMP320	25A-BM67
25A-AMP420	25A-BM68

^{*2} Assembly of a bracket and 2 mounting screws

assembly with a part number shown in

the left table is shipped together as an accessory, (but not assembled).

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

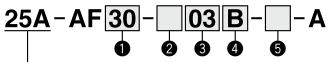
RoHS

Air Filter

25A-AF20-A to 25A-AF60-A



How to Order



Series compatible with secondary batteries

- Option/Semi-standard: Select one each for a to c.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
- Example) 25A-AF30-N03B-RZ-A

							0		
			Symbol	Description			Body size	Э	
					20	30	40	50	60
			Nil	Rc	•	•	•	•	•
2	Pip	e thread type	N	NPT	•	•	•	•	•
			F	G	•	•	•		•
			+						
		Port size		1/8	•		_	_	_
				1/4	•	•	•	_	_
3				3/8			•	_	_
D				1/2	_	_	•	_	_
				3/4	-	_	•	•	_
			10	1	_	_	_		•
			+						
4	Option	a Mounting	Nil	Without mounting option	•		•		•
	<u>g</u> [a Mounting	B *1	With bracket	•		•	•	•
			+						
	DE .	Flow direction	Nil	Flow direction: Left to right	•	•	•	•	•
	ľuď	I low direction	R	Flow direction: Right to left	•		•		
6	Semi-standard		+						
	<u>Ē</u>	c Pressure unit	Nil	Name plate and caution plate for bowl in SI units: MPa	•	•	•	•	•
	Se	r ressure unit	Z *2	Name plate and caution plate for bowl in imperial units: psi, °F	O*2	O*2	O*2	○*2	O*2

^{*1} A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws.

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

Bracket, Bowl Assembly Part Nos. for the 25A- Series

Model Option	25A-AF20-A	25A-AF30-A	25A-AF40-A	25A-AF40-06-A	25A-AF50-A 25A-AF60-A	
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} Assembly of a bracket and 2 mounting screws.



^{*2} O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Law. (The SI unit type is provided for use in Japan.)

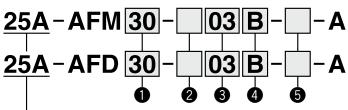
25A-AFM20-A to 25A-AFM40-A

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



Option/Semi-standard: Select one each for a to c.
 Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) 25A-AFM30-N03B-RZ-A

Series compatible with secondary batteries

						0		
			Symbol	Description	Body size			
					20	30	40	
			Nil	Rc	•	•	•	
2	Pip	e thread type	N	NPT	•	•	•	
		7,1	F	G	•	•	•	
			+					
8			01	1/8	•	_	_	
		Port size		1/4	•	•	•	
				3/8	_	•	•	
			04	1/2	_	_	•	
		06		3/4	_	_	•	
			+					
4	Option	Mounting	Nil	Without mounting option	•	•	•	
U	o o	i wounting	B*1	With bracket	•	•	•	
			+					
	ard I	Flow direction	Nil	Flow direction: Left to right	•	•	•	
	ğ L	Flow direction	R	Flow direction: Right to left	•	•	•	
6	Semi-standard		+					
	i li	Pressure unit	Nil	Name plate and caution plate for bowl in SI units: MPa	•	•	•	
	Se	Fressure unit	Z *2	Name plate and caution plate for bowl in imperial units: psi, °F	O*2	O*2	O*2	

^{*1} A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws.

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

Bracket, Bowl Assembly Part Nos. for the 25A- Series

Model Option	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
Bracket assembly*1	25A-AF22P-050AS	25A-AF32P-050AS	25A-AF42P-050AS	25A-AF42P-070AS
Bowl assembly	25A-C2SF-A	25A-C3SF-A	25A-C	4SF-A

^{*1} Assembly of a bracket and 2 mounting screws.



^{*2} O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Law. (The SI unit type is provided for use in Japan.)

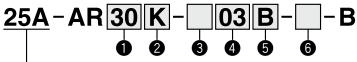
25A-AR20-B to 25A-AR60-B

Regulator with Backflow Function

25A-AR20K-B to 25A-AR60K-B



How to Order



- Series compatible with secondary batteries
- Option/Semi-standard: Select one each for a to f.
 Option/Semi-standard symbol: When more than or
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) 25A-AR30K-03B-1NR-B

	_	_							D		
				Symbol	Description			Body	/ size		
						20	25	30	40	50	60
2		With	n backflow	Nil	Without backflow function		•	•	•	•	
9		f	unction	K	With backflow function		•			•	•
				+							
				Nil	Rc					•	
8	3 Pi		thread type	N	NPT		•	•	•	•	•
			• •	F	G		•			•	
				+							
				01	1/8	•	_	_	_	_	_
				02	1/4		•	•	•	_	_
	4	Б	ort size	03	3/8	_	•	•	•	_	_
4		Port Size		04	1/2	_	_	_		_	_
				06	3/4	_	_	_			_
				10	1		_	_			
				+							
_	*1			Nil	Without mounting option					•	
6	Option *1	a	Mounting	B *2	With bracket						
	ပြင်			Н	With set nut (For panel fitting)					_	_
				+							
		b	Cot proceure	Nil	0.05 to 0.85 MPa setting		•			•	
		Ы	Set pressure	1 *3	0.02 to 0.2 MPa setting		•	•	•	•	
				+							
			Exhaust mechanism	Nil	Relieving type	•					
	힏	C		N	Non-relieving type	•	•	•	•	•	•
	Semi-standard			+							
	a	_1		Nil	Flow direction: Left to right						
6	-st	d	Flow direction	R	Flow direction: Right to left	•	•	•	•	•	
	Ξ			+	·			,			
	Se		14 1	Nil	Downward						
		e	Knob	Υ	Upward				•	•	
				+							
				Nil	Name plate in SI units: MPa					•	
		f	Pressure unit	Z *4	Name plate in imperial units: psi	O*4	O*4	O*4	O*4	O*4	O*4
				_							

- *1 Option "B", "H" are not assembled and supplied loose at the time of shipment.
- *2 Assembly of a bracket and set nuts (25A-AR20(K) to 25A-AR40(K)). Including 2 mounting screws for the 25A-AR50(K) and 25A-AR60(K).
- *3 Pressure can be set at the upper limit of the specification or more, however, be sure to set the pressure within specification.
- *4 O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Law. (The SI unit type is provided for use in Japan.)

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

Bracket, Set Nut Part Nos. for the 25A- Series

Model Option	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 Assembly of a bracket and set nuts.
- *2 Assembly of a bracket and 2 mounting screws.
- *3 Please consult with SMC regarding the set nuts for the 25A-AR50(K) and 25A-AR60(K).



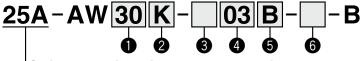
25A-AW20-B to 25A-AW60-B

Filter Regulator with Backflow Function

25A-AW20K-B to 25A-AW60K-B



How to Order



Series compatible with secondary batteries

• Option/Semi-standard: Select one each for a to e. • Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

Example) 25A-AW30K-03B-1N-B

	_						•	.	
	Sy		Symbol Description			Body			
			-,			30	40	60	
				Nil	Without backflow function		•	•	
2	Wit	th ba	ackflow function	K	With backflow function				
				+	THE BUSINESS INCOME.				
				Nil	Rc	•	•	•	•
3	F	Pipe	thread type	N	NPT	•	•	•	•
		•	,,	F	G	•	•	•	•
				+					
				01	1/8	•	_	_	_
				02	1/4	•	•	•	_
			Port size	03	3/8	_	•	•	_
4		04 06 10		04	1/2	_	_	•	_
				06	3/4	_	_	•	•
				10	1	_	_	_	•
				+					
	*1		Mounting Nil B*2 H		Without mounting option	•	•	•	•
6	2ption ≛	а			With bracket	•	•	•	•
	ŏ				With set nut (For panel fitting)	•		•	_
				+					1
		b	Set pressure	Nil	0.05 to 0.85 MPa setting	•	•	•	•
			Cot procedure	1*3	0.02 to 0.2 MPa setting			•	
	-			+					1
	lar	С	Exhaust	Nil	Relieving type	•	•	•	•
	Semi-standard		mechanism	N	Non-relieving type				
6	-st			+					_
	Ë	ឝ្ត់	Nil	Flow direction: Left to right	•	•	•	•	
	S G I IOW direction		R	Flow direction: Right to left					
				+	<u> </u>				
		е	Pressure unit	Nil	Name plate and caution plate for bowl in SI units: MPa	0 ::4	0.04	0 #4	0 0 0 4
		e i lessure unit		Z *4	Name plate and caution plate for bowl in imperial units: psi, °F	O*4	○*4	○*4	O*4

- *1 Option "B", "H" are not assembled and supplied loose at the time of shipment.
- *2 Assembly 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 at the upper limit of the specification or more, however, be sure to set the pressure within specification.
- *4 〇: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Law. (The SI unit type is provided for use in Japan.)

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

Bracket, Set Nut. Bowl Assembly Part Nos. for the 25A- Series

Bracket, Got Hat, Both Accomply Fait Noc. for the 20A Conce							
Model Option	25A-AW20(K)-B	25A-AW30(K)-B	25A-AW40(K)-B	25A-AW60(K)-B			
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} Assembly of a bracket and set nuts.

^{*2} Assembly of a bracket and 2 mounting screws. *3 Please consult with SMC regarding the set nuts for the 25A-AW60(K).



Precision Regulator



25A-IR1000/2000/3000-A Series

How to Order



25A-IR	1 0	0	0	-	01	B-	- - - A
	•	2	8	4	6	6	•

- 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	3
		0.005 to 0.2 MPa	•	•	_
	0	0.01 to 0.2 MPa	_	_	•
essure range	1	0.01 to 0.4 MPa	•	•	•
	2	0.01 to 0.8 MPa	•	•	•
	+				
	0	Bottom exhaust	•	•	•
ust direction	1	Front exhaust	_	_	•
	2	Rear exhaust	_	_	•
	+				
		-	•	•	•
			•	•	•
		G	•	•	•
	+				
			•	_	_
Port size 02 03 04		· · · · · · · · · · · · · · · · · · ·	_	•	•
			_	_	•
		1/2	_	_	•
	+				,
	Nil	Without mounting option	•	•	•
Mounting	B *2	With bracket	•	•	•
a Mounting B*		With hexagon panel nut (for panel mount)	•	•	•
	+				
Flow direction		Flow direction: Left to right	•	•	•
b Flow direction c Knob		Flow direction: Right to left	•	•	•
	+				
Knoh		Upward	•	•	•
KIIUU	V	Downward	•	•	•
1	essure range ust direction thread type fort size Mounting Flow direction Knob	Dessure range	O	1	1 2

^{*1} Options are shipped together with the product, but not assembled. B and H cannot be selected at the same time. The current bracket cannot be used for this product.

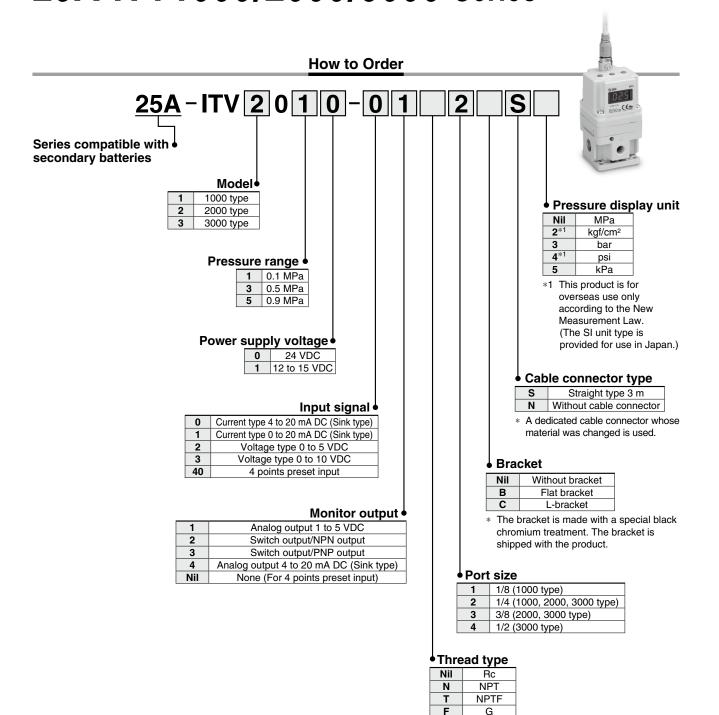


^{*2} Assembly of a bracket and set nuts



Electro-Pneumatic Regulator 25A-ITV1000/2000/3000 Series





- * 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.



Booster Regulator

25A-VBA Series



How to Order



25A - VBA 40A

Series compatible with secondary batteries

10A 1/4", Handle-operated type Pressure increase 20A 3/8", Handle-operated type 40A 1/2", Handle-operated type

ratio: Twice

Body size

Thread type*1

Sym	bol	Thread type
Ni	_	Rc
F		G
N		NPT
Т		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
Nil	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

D!	Thread			Option			Semi-standard
Body size	type	Nil	N	S	LN	LS	Nil
	Nil	•	•	•	•	•	•
10A	F	•	•	•	•	•	•
IUA	N	•	•	_	•	_	•
	Т	•	•	_	•	_	•
	Nil	•	•	•			•
20A	F	•	•	•	1		•
20A	N	•	•	•	1 /		•
	Т	•	•	•			•
	Nil	•	•	•			•
40A	F	•	•	•	1		•
	N	•	•	•	1 /		•
	Т				1/		

⚠ 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

The same companions, court					
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 167 for details on air tanks.

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

Air Tank

25A-VBAT Series



How to Order

- For the booster regulator, use the 25A-VBA.
- It can be used alone as a tank.



 The thread type for each port is Rc.





Tank internal • capacity

Symbol	Internal capacity
05	5 L
10	10 L
20	20 L
38	38 L

Symbol	Material
Α	Carbon steel (SS400)
S	Stainless steel

- Order drain valve (VBAT-V2) separately.
- * Safety valve is not available as an option.

Series compatible with secondary batteries

⚠ Caution

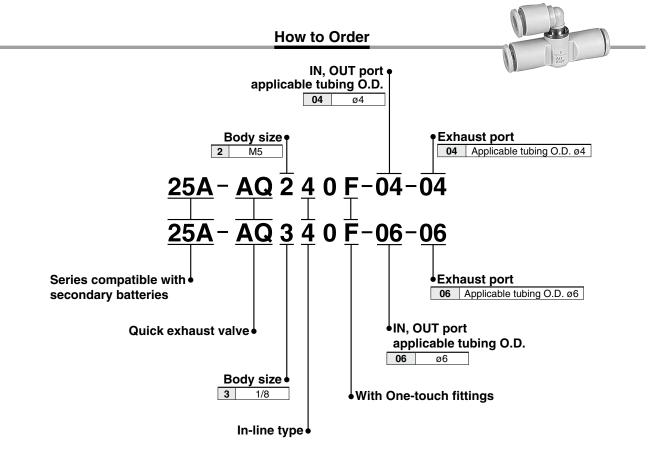
 When used as a single unit (not connected with a booster regulator) and pressurized at over 1 MPa at normal temperatures, the air tank falls under the scope of the "High Pressure Gas Safety Act" in Japan.



Quick Exhaust Valve with One-touch Fittings



25A-AQ240F/340F Series

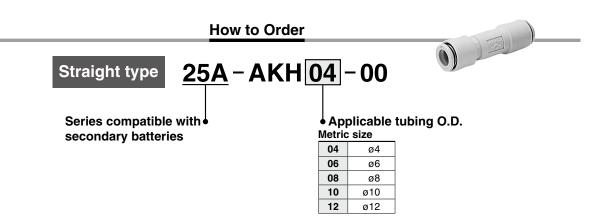




Check Valvewith One-touch Fittings

25A-AKH Series





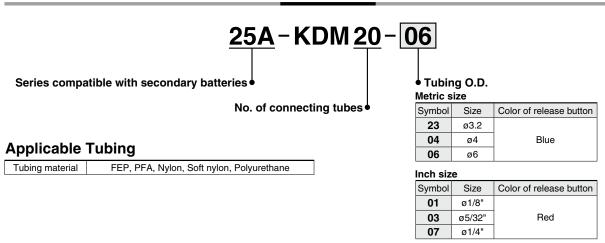
Rectangular Multi-connector

25A-KDM Series

No. of Connecting Tubes: 20



How to Order



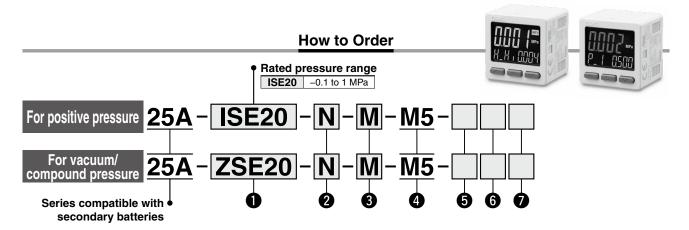


3-Screen Display High-Precision Digital Pressure Switch



IP40

25A-ZSE20(F)/ISE20 Series



Rated pressure range

ZSE20	0 to -101 kPa
ZSE20F	-100 to 100 kPa

2 Output specification

Symbol	Description	
N	NPN open collector 1 output	
Р	PNP open collector 1 output	

3 Unit specification

Symbol	Description	
Nil	Units selection function*1	
М	SI unit only*2	
P Units selection function (Initial value psi)*1		

- *1 Under the New Measurement Act, switches with the units selection function are not permitted for use in Japan.
- *2 Fixed unit: kPa, MPa

4 Piping specification

Symbol	Description	
M5	M5 female thread Piping port	

Option 1

Symbol	Description	
Nil	Without lead	wire
L	Lead wire with connector (3-core, 2 m lead wire)	ZS-46-3L Without waterproof cover

Option 3

Symbol	Operation manual*1	Calibration certificate*1
Nil	0	_
Υ	_	_
K	0	0
Т	_	0

^{*1} All texts are in both English and Japanese.

6 Option 2

O Option 2		
Description		
None		
Panel mount adapter	ZS-46-B	
Panel mount adapter + Front protection cover	ZS-46-D	
	Panel mount adapter Panel mount adapter + Front	

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.

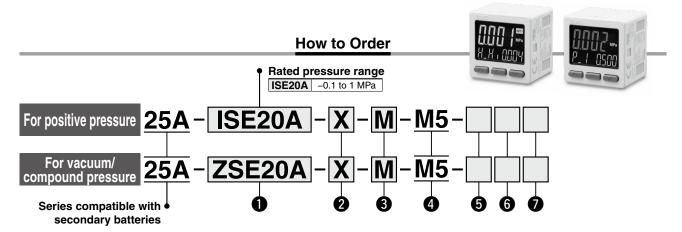
2 Outputs + Analog Output (Voltage/Current)

3-Screen Display High-Precision Digital Pressure Switch

RoHS

IP40

25A-ZSE20A(F)/ISE20A Series



Rated pressure range

	p
ZSE20A	0 to -101 kPa
ZSE20AF	-100 to 100 kPa

2 Output specification

Symbol	Description	
R	NPN open collector 2 outputs + Analog voltage output *1	
S	NPN open collector 2 outputs + Analog current output *1	
Т	PNP open collector 2 outputs + Analog voltage output *1	
V	PNP open collector 2 outputs + Analog 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	
Nil	Units selection function*1	
M	SI unit only*2	
Р	Units selection function (Initial value psi)*1	

- *1 Under the New Measurement Act, switches with the units selection function are not permitted for use in Japan.
- *2 Fixed unit: kPa, MPa

4 Piping specification

Symbol	Description	
	M5 female thread	
M5	Piping port	

5 Option 1

Symbol	Description	
Nil	Without lead	l wire
J	Lead wire with connector (5-core, 2 m lead wire)	ZS-46-5L Without waterproof cover

7 Option 3

Symbol	Operation manual*1	Calibration certificate*1
Nil	0	_
Υ	_	_
K	0	0
Т	_	0

^{*1} All texts are in both English and Japanese.

6 Option 2

Symbol	Description		
Nil	None		
В	Panel mount adapter	ZS-46-B	
D	Panel mount adapter + Front protection cover	ZS-46-D	

Options/Part Nos.

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	_



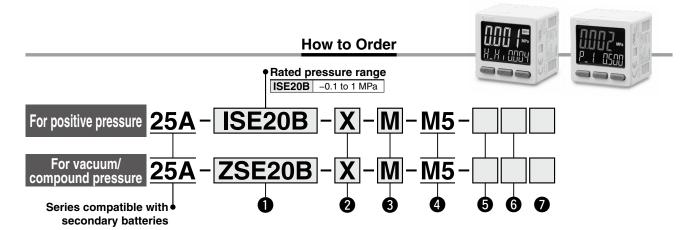
2 Outputs + Analog Output (Voltage/Current)

3-Screen Display High-Precision **Digital Pressure Switch**



25A-ZSE20B(F)/ISE20B Series

IP65



Rated pressure range

<u> </u>		
ZSE20B	0 to -101 kPa	
ZSE20BF	-100 to 100 kPa	

2 Output specification

Symbol	Description		
R	NPN open collector 2 outputs + Analog voltage output *1		
S	NPN open collector 2 outputs + Analog current output *1		
Т	PNP open collector 2 outputs + Analog voltage output *1		
V	PNP open collector 2 outputs + Analog 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

Description	
Units selection function*1	
SI unit only*2	
Units selection function (Initial value psi)*1	

- *1 Under the New Measurement Act, switches with the units selection function are not permitted for use in Japan.
- *2 Fixed unit: kPa, MPa

4 Piping specification

Symbol	Description	
	M5 female thread	
M5	Piping port	

Option 1

Symbol	Description	
Nil	Without lead	wire
w	Lead wire with connector (5-core, 2 m lead wire, With waterproof cover)	ZS-46-5F With waterproof cover

7 Option 3

Symbol	Operation manual*1	Calibration certificate*1
Nil	0	_
Υ	_	_
K	0	0
Т	_	0

^{*1} All texts are in both English and Japanese.

6 Option 2

Symbol	Description		
Nil	None		
В	Panel mount adapter	ZS-46-B	
D	Panel mount adapter + Front protection cover	ZS-46-D	

Options/Part Nos.

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	_



2 Outputs + Analog Output (Voltage/Current)

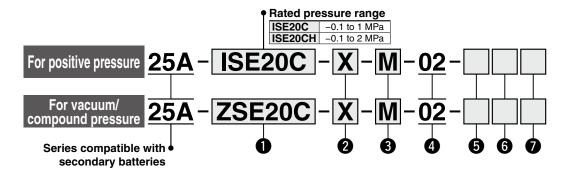
3-Screen Display High-Precision Digital Pressure Switch for General Fluids

25A-ZSE20C(F)/ISE20C(H) Series



How to Order





Rated pressure range

•	process cange
ZSE20C	0 to -101 kPa
ZSE20CF	-100 to 100 kPa

2 Output specification

Symbol	Description	
R	NPN open collector 2 outputs + Analog voltage output*1	
S	NPN open collector 2 outputs + Analog current output*1	
Т	PNP open collector 2 outputs + Analog voltage output*1	
V	PNP open collector 2 outputs + Analog 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
Nil	Units selection function*1
M	SI unit only*2
Р	Units selection function (Initial value psi)*1

- *1 Under the New Measurement Act, switches with the units selection function are not permitted for use in Japan.
- *2 Fixed unit: kPa, MPa

4 Piping specification

Symbol	Description	
02	R1/4 (M5 female threaded)	

5 Option 1

Symbol	Description	
Nil	Without lead	l wire
w	Lead wire with connector, 5-core (2 m lead wire, With waterproof cover)	ZS-46-5F With waterproof cover

Option 3

Symbol	Operation manual*1	Calibration certificate*1
Nil	0	_
Υ	_	_
K	0	0
Т	_	0

*1 All texts are in both English and Japanese.

6 Option 2

Symbol		Description		
Nil		None		
В	Panel mount adapter	ZS-46-B		
D	Panel mount adapter + Front protection cover	ZS-46-D		

Options/Part Nos.

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



2-Color Display

Digital Flow Switch



25A-PFMB7 Series

How to Order



Series compatible with

secondary batteries Rated flow range

> (Flow rate range) 201 2 to 200 L/min

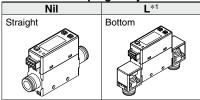
Port size

25A-PFMB7201-C8 -AW-M

C8	ø8 (5/16") One-touch fitting	
02*1	Rc1/4	
N02*1	NPT1/4	
F02*1	G1/4 * ²	

- *1 Made to order
- *2 ISO1179-1 compliant

Piping entry direction



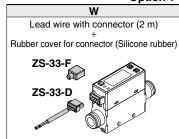
*1 Made to order

Output specification •

	OUT1	OUT2	Applicable monitor unit model
Α	NPN	NPN	_
В	PNP	PNP	_
С	NPN	Analog 1 to 5 V	PFG300 series
D	NPN	Analog 4 to 20 mA	PFG310 series
E*1	PNP	Analog 1 to 5 V	PFG300 series
F*1	PNP	Analog 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



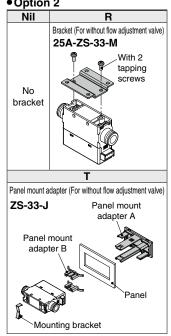
When only optional parts are required, refer to Option 1/Part Nos. on page 176.

Calibration certificate *1

Nil	None
A *2	With calibration certificate

- *1 Certificate in both English and Japanese
- *2 Made to order

Option 2



Options are shipped together with the product, but not assembled.

When only optional parts are required, refer to Option 2/Part Nos. on page 176

Unit specification

M	SI unit only *1
Nil	Units selection function *2

- *1 Fixed unit: Instantaneous flow: L/min Accumulated flow: L
- *2 This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in

Unit can be changed. Instantaneous flow: L/min ⇔ cfm Accumulated flow: $L \Leftrightarrow ft^3$



2-Color Display Digital Flow Switch 25A-PFMB7 Series

How to Order



Series compatible with secondary batteries

501	5 to 500 L/min
102	10 to 1000 L/min
202	20 to 2000 L/min

Thread type Nil Ν NPT

*1 ISO228 compliant

F

Port size

G *1

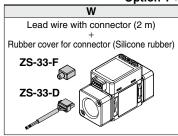
	Port	Rated flow range			
	size	501	102	202	
04	1/2	•	•	_	
06	3/4	_	_	•	

Output specification

	OUT1	OUT2	Applicable monitor unit model
Α	NPN	NPN	_
В	PNP	PNP	_
С	NPN	Analog 1 to 5 V	PFG300 series
D	NPN	Analog 4 to 20 mA	PFG310 series
E*1	PNP	Analog 1 to 5 V	PFG300 series
F*1	PNP	Analog 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

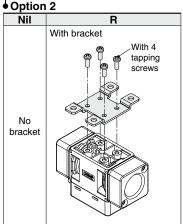


When only optional parts are required, refer to Option 1/Part Nos. below.

♦Calibration certificate *1

Nil	None	
A *2	With calibration certificate	

- *1 Certificate in both English and Japanese
- *2 Made to order



Options are shipped together with the product, but not assembled. When only optional parts are required, refer to Option 2/Part Nos. below.

Unit specification

M	SI unit only *1	
Nil	Units selection function *2	

- *1 Fixed unit: Instantaneous flow: L/min Accumulated flow: L
- *2 This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)

Unit can be changed. Instantaneous flow: L/min \Leftrightarrow cfm Accumulated flow: $L \Leftrightarrow ft^3$

Option 1/Part Nos

- 1	option in artitos.			
Option		Part no.	Qty.	Note
	Lead wire with connector	ZS-33-D	1	Lead wire: 2 m
ſ	Bubber cover (Silicone rubber)	7S-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.



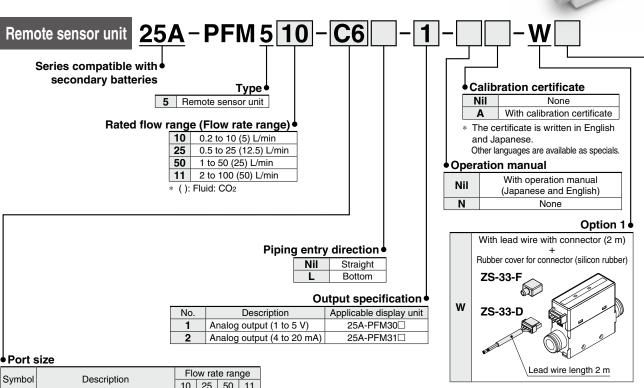
2-Color Display





25A-PFM5 Series





Symbol	Description	Flow rate range			
Symbol	Description	10	25	50	11
01	Rc1/8	•	•	•	
02	Rc1/4				•
N01	NPT1/8	•	•	•	
N02	NPT1/4				•
F01	G1/8*1	•	•	•	
F02	G1/4*1				•
C6	ø6 One-touch fitting	•	•	•	•
C8	ø8 (5/16") One-touch fitting		•	•	•

^{*1} ISO228-1 compliant

Option 2 Nil R Bracket Panel mount adapter (For without flow adjustment valve) (For without flow adjustment valve) 25A-ZS-33-M ZS-33-J Panel mount adapter A Mounting screw Panel mount (accessory) adapter B None Panel Mounting bracket

· Options are shipped together with the product, but not assembled.

Piping Variations

	With One-touch	fittings (C6, C8)	Female thread (01, 02,	101, N02, F01, F02)	
	Straight (Nil)	Bottom (L)	Straight (Nil)	Bottom (L)	
Without flow adjustment valve (NiI)					



Flow Sensor Monitor

25A-PFM3 Series

How to Order



Output specification •

0	2 NPN outputs + 1 to 5 V output	
1	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

Operation manual

ı		
l	Nil	With operation manual (Japanese and English)
l	N	None

Calibration certificate

Nil	None	
Α	With calibration certificate	

The certificate is written in English and Japanese. Other languages are available as specials.

25A-PFM3 0 0 - M

Series compatible with secondary batteries

Type •

3 Remote display unit

Input specification •

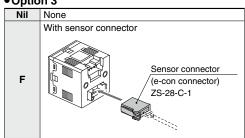
Symbol	Content	Applicable remote type sensor unit
0	Voltage input	25A-PFM5□□-□-1-□
1	Current input	25A-PFM5□□-□-2-□

Unit specification •

Nil With unit switching function*		
М	Fixed SI unit*2	

- *1 Under the New Measurement Act, flow sensor monitors with the unit switching function are not permitted for use in Japan.
- *2 Fixed unit: Instantaneous flow: L/min Accumulated flow: L

Option 3

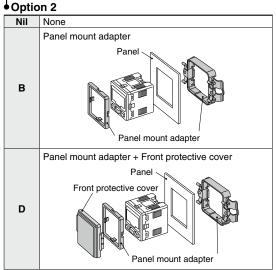


The connector does not come connected, but it is shipped together with the product.

Option 1

	- I
Nil	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.



Options are shipped together with the product, but not 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	



3-Color Display



Digital Flow Monitor for Water

25A-PF3W Series



How to Order

25A -PF3W 30 A



Series compatible with secondary batteries

Type 4 3 Remote monitor unit

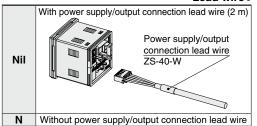
For remote sensor units, select the analog output 1 to 5 V type. Applicable sensors: PF3W5□□-□□-1(T)

Output specification

Symbol	OUT1	OUT2	
Α	NPN	NPN	
В	PNP	PNP	
С	NPN	Analog 1 to 5 V	
D	NPN	Analog 4 to 20 mA	
E	PNP	Analog 1 to 5 V	
F	PNP	Analog 4 to 20 mA	
G	G NPN External		
Н	PNP	External input	
J	Analog 1 to 5 V	Analog 1 to 5 V	
K	Analog 4 to 20 mA	Analog 4 to 20 mA	

In combination with remote sensor unit with temperature sensor, only OUT2 can be set for temperature sensor output.

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	Ĺ	°F

- * Under the New Measurement Act, units other than SI (symbol "M") cannot be used in Japan.
- G, F, J: Made to order

Reference: 1 [L/min] ← 0.2642 [gal/min] 1 [gal/min] ← 3.785 [L/min]

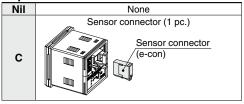
 $^{\circ}F = 9/5^{\circ}C + 32$

♦ Calibration certificate (Only flow monitor)

Nil	None	
Α	With calibration certificate	

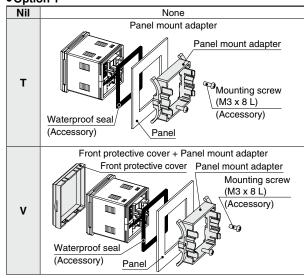
* The certificate is written in both Japanese and English.

Option 2



The connector does not come connected, but it is shipped together with the product.

Option 1



Options/Part Nos.

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 slave units

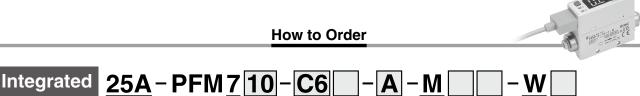
^{*} The 25A- series specifications and dimensions are the same as those of the standard model.



2-Color Display Digital Flow Switch display

Integrated

25A-PFM7 Series



N

Series compatible with secondary batteries

display

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				
Symbol	Description	10	25	50	11	
01	Rc1/8	•	•			
02	02 Rc1/4		_	_		
N01	NPT1/8				_	
N02	2 NPT1/4		_	_		
F01	G1/8		•		_	
F02			_	_		
C6			•	•	•	
C8	ø8 (5/16") One-touch fitting	_				

Piping entry direction

Nil	Straight
L	Bottom

Output specifications

B 2 PNP outputs C 1 NPN output + Analog output (1 to 5 V) D 1 NPN output + Analog output (4 to 20 mA) E 1 PNP output + Analog output (1 to 5 V) F 1 PNP output + Analog output (4 to 20 mA) G 1 NPN output + External input* H 1 PNP output + External input*		Α	2 NPN outputs
D 1 NPN output + Analog output (4 to 20 mA) E 1 PNP output + Analog output (1 to 5 V) F 1 PNP output + Analog output (4 to 20 mA) G 1 NPN output + External input*3		В	2 PNP outputs
E 1 PNP output + Analog output (1 to 5 V) F 1 PNP output + Analog output (4 to 20 mA) G 1 NPN output + External input*3		С	1 NPN output + Analog output (1 to 5 V)
F 1 PNP output + Analog output (4 to 20 mA) G 1 NPN output + External input*3	ſ	D	1 NPN output + Analog output (4 to 20 mA)
G 1 NPN output + External input*3		Е	1 PNP output + Analog output (1 to 5 V)
		F	1 PNP output + Analog output (4 to 20 mA)
H 1 PNP output + External input*3		G	1 NPN output + External input*3
11 11 11 Odtput + External Input		Н	1 PNP output + External input*3

*3 User can select from accumulated value external reset, auto-shift and auto-shift zero.

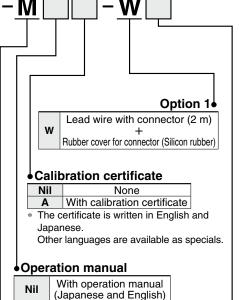
Unit specifications •

Nil	With unit switching function*2
M	Fixed SI unit*1

- *1 Fixed unit: Instantaneous flow: L/min Accumulated flow: L
- *2 Under Japan's New Measurement Act, this is only for overseas sales.

(SI units are to be used inside Japan.)

- * 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.



None

	Option 2
Nil	None
	Bracket (For without flow adjustment valve) 25A-ZS-33-M
R	Mounting screw (Accessory)
	Panel mount adapter (For without flow adjustment valve) ZS-33-J Panel mount adapter A Panel mount
Т	Panel Mounting bracket
	incaring bracket



3-color display

Digital Flow Switch for Water

25A-PF3W Series

 ϵ



How to Order

Remote sensor unit

Output specification/Temperature sensor

Symbol	OUT1	OUT2	Temperature sensor		
Syllibol	Flow rate	Temperature	Temperature sensor		
1	Analog 1 to 5 V	_	Nama		
2	Analog 4 to 20 mA	_	None		
1T	Analog 1 to 5 V	Analog 1 to 5 V	With temperature sensor		

* To use in combination with remote monitor (PF3W3 series), select analog output of 1 to 5 V of flow rate (output symbol "-1" or "-1T").

Remote sensor unit/Unit printed on label

Symbol	Instantaneous flow rate	Temperature	
Nil	L/min	°C	
G *1	L/min	°C/°F	
G	(gal/min)	0/ 1	

 Under the New Measurement Law, units other than SI (symbol: "Nil") cannot be used in Japan.
 G: 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

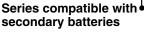


display

25A-PF3W 5 04 - 03 - 17

Integrated

25A-PF3W 704 - 03-AT - M



5 Remote sensor unit 7 Integrated display



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

Flow adjustment valve

Cumbal	With/without flow	Rated flow rate				
Symbol	adjustment valve	04	20	40	11	
Nil	Nil None		•	•	•	
S Yes		•	•	•	_	

100 L/min type is not available with flow adjustment valve.

Thread type Nil Rc N NPT F G

Port size

Port	Rated flow range				
size	04	20	40	11	
3/8		•	_	_	
1/2	_	•		_	
3/4	_	_			
1/1		_			
	size 3/8 1/2 3/4	size 04 3/8 ● 1/2 — 3/4 —	size 04 20 3/8 • • 1/2 - • 3/4	size 04 20 40 3/8 • • - 1/2 - • • 3/4 - - •	

Integrated display

Output specification/ Temperature sensor

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

	3011301			
Symbol	OUT1	OL	JT2	Temperature
Symbol	Flow rate	Flow rate	Temperature	sensor
Α	NPN	NPN	_	
В	PNP	PNP	_	
С	NPN	Analog 1 to 5 V	_	
D	NPN	Analog 4 to 20 mA	_	None
E	PNP	Analog 1 to 5 V	_	None
F	F PNP Analog 4 to 20 mA		_	1
G	NPN	External input*1	_	
Н	PNP	External input*1	_	
AT	NPN		2 NPN	
ВТ	PNP (PNP) *2 PNP NPN (Analog 1 to 5 V) *2 Analog 1 to 5		² PNP	With
CT NPN		(Analog 1 to 5 V) *	Analog 1 to 5 V	
DT			Analog 4 to 20 mA	temperature sensor
ET	PNP	(Analog 1 to 5 V) *		
FT	PNP	(Analog 4 to 20 mA) *	2 Analog 4 to 20 mA	

Options/Part Nos.

When optional parts are required separately, use the following part numbers to place an order.

	······································							
	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)				

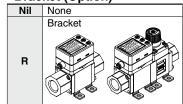
*1 For units with flow adjustment valve, 2 brackets are required.

Calibration certificate (Only flow sensor)

	(0111)
Nil	None
Α	With calibration certificate

 The certificate is written in both English and Japanese. Integrated display type with temperature sensor can only display flow rate.

Bracket (Option)

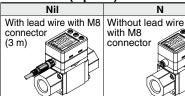


Integrated display/Unit specification

Symbol	Instantaneous flow rate	Accumulated flow	Temperature	
M	L/min	L	°C	
G	gal/min	gal	°C	
F	gal/min	gal	°F	
J	L/min	L	°F	

- Under the New Measurement Law, units other than SI (symbol: "M") cannot be used in Japan.
- 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)



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



3-color display

Digital Flow Switch for PVC Piping

25A-PF3W Series





How to Order

Remote sensor unit Output appoification

Out	put specification
Symbol	OUT1
1	Analog 1 to 5 V
2	Analog 4 to 20 mA

To use in combination with remote monitor (PF3W3 series), select analog output of 1 to 5 V of flow rate (output symbol "-1").

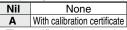
Remote sensor unit/Unit printed on label

Symbol	Instantaneous flow rate		
Nil	L/min		
G *1	L/min (gal/min)		

- *1 Under the New Measurement Law, units other than SI (symbol: "Nil") cannot be used in Japan.
- G: Made to Order

Reference: 1 [L/min] ↔ 0.2642 [gal/min] 1 [gal/min] ↔ 3.785 [L/min]

Calibration certificate (Only flow sensor)



The certificate is written in both English and Japanese.

Remote sensor unit

25A-PF3W <u>5</u> <u>11</u> - <u>U</u> <u>25</u> -

Integrated display

25A - PF3W 7 11 - U 25

Series compatible with secondary batteries



5 Remote sensor unit Integrated display

Rated flow range (Flow range)

Type •

Symbol Rated flow range **11** 10 to 100 L/min

U PVC pipe

PVC pipe O.D.

Symbol	Port size	Pipe O.D.*1
25	25A	32 mm
	*1 JIS k	(6742 equivalen

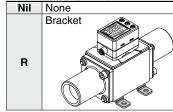
Integrated display Output specification

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

Symbol	OUT1	OUT2
Α	NPN	NPN
В	PNP	PNP
С	NPN	Analog 1 to 5 V
D	NPN	Analog 4 to 20 mA
E	PNP	Analog 1 to 5 V
F	PNP	Analog 4 to 20 mA
G	NPN	External input*1
Н	PNP	External input*1

*1 External input: The accumulated value, peak value, and bottom value can be reset.

Bracket (Option)



Integrated display/Unit specification

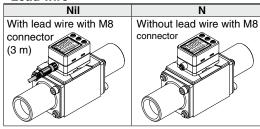
Symbol	Instantaneous	Accumulated
Symbol	flow rate	flow
M	L/min	L
G	gal/min	gal

- * Under the New Measurement Law, units other than SI (symbol: "M") cannot be used in Japan.
- G: Made to Order

Reference: 1 [L/min] ← 0.2642 [gal/min]

1 [gal/min] ↔ 3.785 [L/min]

Lead wire



Options/Part Nos.

When optional parts are required separately, use the following part numbers to place an order.

gpan-and-and-and-and-and-and-and-and-and-a								
	Description	Part no.	Qty.	Note				
	Bracket	25A-ZS-40-M	1	For PF3W711/511 With 4 tapping screws (4 x 10)				
Lead w	rire 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.



Direct Operated 2-Port Solenoid Valve 25A-VX21/22/23 Series







How to Order (Single Unit)

25A-VX2 1 0 A A

Series compatible with secondary batteries

Fluid • 0 For air

Common Specifications Valve type N.C. Seal material NBR Coil insulation type | Class B Thread type Rc

Size/Valve type				♦ Body material/Port size/Orifice diameter			
Symbol Size Valve type				Symbol	Body material	Port size	Orifice diameter
				Α			2
				В		1/8	3
] i		5

		type	L		matemai		ulameter
				Α			2
				В		1/8	3
				С	Aluminum		5
				D	Alullillulli		2
	Size 1	Single unit N.C.		Е		1/4	3
1				F			5
				Н		ø6 One-touch fitting	2
				J	J K L M		3
				K			5
				L		ø8 One-touch fitting	2
				М			3
			1	N			5
				Α			4

2	Size 2	Single unit N.C.		A B D E H	Aluminum	1/4 3/8 Ø8 One-touch fitting	4 7 4 7 4 7
_	0.20 2	Ñ.C.			Resin	ø8 One-touch fitting	7
			L M	L M	7100111	ø10 One-touch fitting	7

				L		ado One touch fitting	4
			L	М		ø10 One-touch fitting	7
							_
				Α			5
				В		1/4	8
	Size 3	Single unit N.C.		С			10
				D	Aluminum	3/8	5
				E			8
				F			10
3				G		1/2	10
				Н		ø10 One-touch fitting	5
				J			8
				K	Resin		10
				L			5
				M		ø12 One-touch fitting	8
				N			10

For other special options, refer to the standard products.

On a sint walks are	48 VAC			
	220 VAC			
Special voltage	240 VAC			
	12 VDC			
DIN terminal with light				
Conduit terminal with light				
Low concentration ozone resistant (Seal material: FKM)				
Oil-free				
G thread				
NPT thread				
100				

Voltage Electrical entry Grommet **24 VDC** Α 100 VAC В Grommet With surge С 110 VAC voltage 200 VAC D suppressor Ε 230 VAC F 24 VDC G 24 VDC DIN terminal /With surge Н 100 VAC voltage 110 VAC suppressor 200 VAC 230 VAC M 24 VDC Conduit terminal With surge 100 VAC voltage suppressor Ρ 110 VAC 200 VAC R 230 VAC S 24 VDC Conduit With surge Т 100 VAC voltage suppressor U 110 VAC ν 200 VAC W 230 VAC Flat terminal Υ 24 VDC

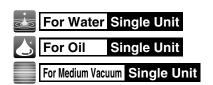
Other voltages and electrical options



Z

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

Direct Operated 2-Port Solenoid Valve 25A-VX21/22/23 Series





How to Order (Single Unit)

25A - VX2 1 4 A A

Series compatible with secondary batteries

	Fiula●
2	For water
3	For oil
4	For medium vacuum

 Size	e/Valve ty	ype		Body	material/P	ort size/Orii	iice diameter
Symbol	Size	Valve type		Symbol	Body material	Port size	Orifice diameter
				Н			2
				J		1/8	3
1	Size 1	Single		K	Stainless		5
•	Size i	N.C.		L	steel	1/4	2
	14.6.			M			3
			N			5	
			r	Н			4
	2 Size 2	Single unit N.C.	J Stainless	1/4	7		
2				L	steel	2/2	4
				М		3/8	7
		·					_
				Н			5
3 Size:		Single		J		1/4	8
			Single unit	K	Stainless steel		10
	Size 3	unit		L			5
		N.C.		М	31361	3/8	8

N

For other special options,

refer to the standard products.					
Special voltage	48 VAC				
	220 VAC				
	240 VAC				
	12 VDC				
DIN terminal with	light				
Conduit terminal with light					
G thread					
NPT thread					

Optimition opcomi	outiono
Valve type	N.C.
Seal material	FKM
Coil insulation type	Class B
Thread type	Rc
·	

Common Specifications

Volt	Voltage/Electrical entry							
Symbol	Voltage	Electrical entry						
A	24 VDC	Grommet						
В	100 VAC	Grommet						
С	110 VAC	With surge voltage						
D	200 VAC	\suppressor/						
E	230 VAC							
F	24 VDC							
G	24 VDC	DIN terminal						
Н	100 VAC	With surge voltage						
J	110 VAC	\suppressor/						
K	200 VAC							
L	230 VAC							
M	24 VDC	Conduit terminal						
N	100 VAC	With surge voltage						
Р	110 VAC	\suppressor//						
Q	200 VAC							
R	230 VAC	*						
S	24 VDC	Conduit						
Т	100 VAC	With surge voltage						
U	110 VAC	\suppressor/						
V	200 VAC							
W	230 VAC	₩						
Υ	24 VDC	Flat terminal						
Z	Other voltages and electrical options							

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



10

10

1/2

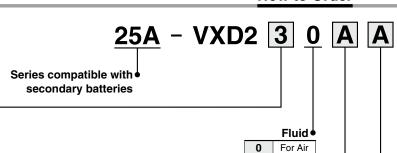
Pilot Operated 2-Port Solenoid Valve

For Air

25A-VXD Series



How to Order





Common Specifications

Common opcome	Julionio
Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Size—Valve type Body material/Port size/Orifice diameter

Valve type				Though material/Fort Size/Office diamete				
Symbol	Size	Valve type		Symbol	Body material	Port size	Orifice diameter	
3	8A	N.C.		Α		1/4		
	10A		-	В	Aluminum	3/8	10	
A	15A	N.O.		С		1/2		
=								
4	10A	N.C.		J	Stainless	3/8	15	
В	15A	N.O.	L	K	steel	1/2	15	
=								
5	20A	N.C.		м	Stainless	3/4	20	
С	20A	N.O.	L	IVI	steel	3/4	20	
				_				
6	25A	N.C.		Р	Stainless	1	25	
D	23A	N.O.		_	steel	!	25	

♦ Voltage/Electrical entry

Symbol	Voltage	Electrical entry				
A	24 VDC	Grommet				
В	100 VAC	Grommet				
С	110 VAC	/With surge voltage				
D	200 VAC	\suppressor/				
E	230 VAC					
F	24 VDC					
G	24 VDC	DIN terminal				
Н	100 VAC	/With surge voltage				
J	110 VAC	\suppressor/				
K	200 VAC					
L	230 VAC					
M	24 VDC	Conduit terminal				
N	100 VAC	With surge voltage				
Р	110 VAC	\suppressor/				
Q	200 VAC					
R	230 VAC					
S	24 VDC	Conduit				
Т	100 VAC	/With surge voltage				
U	110 VAC	\suppressor/				
V	200 VAC					
W	230 VAC	ST.				
Υ	24 VDC	Flat terminal				
Z	Other special options					

All other special options are the same as those of the standard model.

24 VAC				
48 VAC				
220 VAC				
240 VAC				
12 VDC				
ght				
Conduit terminal with light				
Without DIN connector				
Low concentration ozone resistant				
(Seal material: FKM)				
Seal material: EPDM				
Oil-free				
G thread				
NPT thread				
Special electrical entry direction				

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



Pilot Operated 2-Port Solenoid Valve

For Water

25A-VXD Series



How to Order



Series compatible with secondary batteries

Fluid •
2 For Water

e—Valve type

Body material/Port size/Orifice diameter

Size	-vaive	уре	 • Boa	y materiai	/Port size/Orli	ice diameter
Symbol	Size	Valve type	Symbol	Body material	Port size	Orifice diameter
3	8A	N.C.	D	04-1-1	1/4	
	10A		E	Stainless steel	3/8	10
Α	15A	N.O.	F	31001	1/2	
=						
4	10A	N.C.	J	Stainless	3/8	15
В	15A	N.O.	 K	steel	1/2	15
_						i .
5	20A	N.C.	М	Stainless	3/4	20
С	20/1	N.O.	 IVI	steel	3/4	20
_						
6	25A	N.C.	Р	Stainless	1	25
D	25A	N.O.		steel	'	25



Common Specifications

Common opcom	Juli 0110
Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Voltage/Electrical entry

Volt	age/Electri	cal entry
Symbol	Voltage	Electrical entry
A	24 VDC	Grommet
В	100 VAC	Grommet
С	110 VAC	With surge voltage
D	200 VAC	\suppressor/
E	230 VAC	
F	24 VDC	OLD STATE OF THE S
G	24 VDC	DIN terminal
Н	100 VAC	/With surge voltage
J	110 VAC	\suppressor/
K	200 VAC	
L	230 VAC	
M	24 VDC	Conduit terminal
N	100 VAC	With surge voltage
Р	110 VAC	\suppressor/
Q	200 VAC	
R	230 VAC	
S	24 VDC	Conduit
Т	100 VAC	With surge voltage
U	110 VAC	\suppressor/
V	200 VAC	
W	230 VAC	
Y	24 VDC	Flat terminal
_		

All other special options are the same as those of the standard model

same as tnose of the	same as those of the standard model.					
	24 VAC					
	48 VAC					
Special voltage	220 VAC					
	240 VAC					
	12 VDC					
DIN terminal with lig	ght					
Conduit terminal with light						
Without DIN connector						
Applicable to deionized water						
(Seal material: FKN	1)					
Seal material: EPD	M					
Oil-free						
G thread						
NPT thread						
With bracket						
Special electrical entry direction						

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

Other voltages and electrical option



Z

Zero Differential Pressure Type Pilot Operated 2-Port Solenoid Valve/For Air

25A-VXZ Series

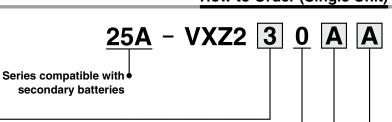


How to Order (Single Unit)

Fluid •

For Air

0



Size/Valve type Body material/Port size/Orifice diameter

93126	valve ty	he		Body material/Fort size/Office diameter					
Symbol	Body size	Valve type		Symbol	Body material				
3	10A	N.C.		Α	Aluminum	1/4	10		
Α	TUA	N.O.		В	Aluminum	3/8			
4	15A	N.C.		G	Stainless	1/2	15		
В	10/1	N.O.			steel	1/2	15		
5	004	N.C.			Stainless	0/4			
С	20A	N.O.		J	steel	3/4	20		
6	25A	N.C.			Stainless	1	25		
D	_ 23A	N.O.		_	steel	1	25		



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Voltage/Electrical entry

◆ Volt	age/Electri	cal entry
Symbol	Voltage	Electrical entry
A	24 VDC	Grommet
В	100 VAC	Grommet
С	110 VAC	With surge voltage
D	200 VAC	suppressor
Е	230 VAC	
F	24 VDC	
G	24 VDC	DIN terminal
H	100 VAC	With surge voltage
J	110 VAC	suppressor
K	200 VAC	
L	230 VAC	
M	24 VDC	Conduit terminal
N	100 VAC	(With surge voltage
Р	110 VAC	suppressor
Ø	200 VAC	
R	230 VAC	
S	24 VDC	Conduit
T	100 VAC	With surge voltage
U	110 VAC	suppressor
V	200 VAC	
W	230 VAC	
Y	24 VDC	Flat terminal

All other special options are the same as those of the standard model.

	24 VAC		
	48 VAC		
Special voltage	220 VAC		
	240 VAC		
	12 VDC		
DIN terminal with lig	ght		
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 (Stand	dard for resin body)		
Special electrical er	ntry direction		

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

Other voltages



Z

Zero Differential Pressure Type

Pilot Operated 2-Port Solenoid Valve/For Water

25A-VXZ Series



Common Specifications

Class B

Rc

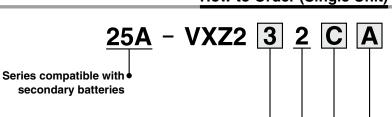
Seal material

Thread type

♦ Voltage/Electrical entry

Coil insulation type

How to Order (Single Unit)



Fluid

2 For Water								
Size/Valve type					y material/Po	ort size/Orif	ice diameter	
Symbol	Body size	Valve type		Symbol	Body material	Port size	Orifice diameter	
3	104	N.C.		С	Stainless	1/4	10	
Α	10A	N.O.		D	steel	3/8	10	
4		N.O.						
4	15A	N.C.		G	Stainless	1/2	15	
В		N.O.			steel			
5		N.C.			01.1.1			
_	20A			J	Stainless	3/4	20	
С		N.O.			steel			
6		N.C.			Ctainless			
	25A			L	Stainless steel	1	25	
D		N.O.			sieei			

Symbol	Voltage	Electrical er	ntry
A	24 VDC	Grommet	
В	100 VAC	Grommet	~
С	110 VAC	/ With surge \ voltage	
D	200 VAC	\suppressor /	
E	230 VAC		
F	24 VDC		
G	24 VDC	DIN terminal	~
Н	100 VAC	With surge voltage	
J	110 VAC	suppressor	
K	200 VAC		
L	230 VAC		
M	24 VDC	Conduit terminal	
N	100 VAC	With surge voltage	
Р	110 VAC	suppressor	
Q	200 VAC		
R	230 VAC		
S	24 VDC	Conduit	
Т	100 VAC	/ With surge \ voltage	
U	110 VAC	suppressor	
٧	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.					
	24 VAC				
	48 VAC				
Special voltage	220 VAC				
	240 VAC				
	12 VDC				
DIN terminal with light					
Conduit terminal with light					
Without DIN connector					
Applicable to deion	ized water				
(Seal material: FKN	1)				
Seal material: EPD	M				
Oil-free					
G thread					
NPT thread					
With bracket					
Special electrical entry direction					

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



Electric Actuator/Slider Type

Ball Screw Drive Secondary Battery Compatible

(€ c%us

Applicable to the **LEC**□ series

25A-LEFS Series LEFS16, 25, 32, 40

(RoHS)

Refer to the Web Catalog for model selection.

Refer to page 191 for the communication protocols EtherCAT®, EtherNet/IP™, PROFINET, and DeviceNet™.

How to Order

<u>25A</u> -LEFS	Η	25	R		В	-200		K-	-S	1	6N	1	
Series compatible with	0	2	8	4	6	6	0	8	9	•	•	12	1 3

<u> </u>	Juliuoy
Nil	Basic type
Н	High-precision type

2 Siz	е
16	
25	
32	
40	

Motor mounting position

• motor mounting poortion							
Nil	In-line						
R	Right side parallel						
L	Left side parallel						

6 Lead [mm]

Symbol	LEFS16	LEFS25	LEFS32	LEFS40
Α	10	12	16	20
В	5	6	8	10

6 Stroke [mm]

_	
50	50
to	to
1000	1000

^{*} Refer to the applicable stroke table.

7 Motor option

Nil	Without option
В	With lock

Motor type

Symbol	Timo		Applica	Compatible controller/			
Symbol	Type	LEFS16	LEFS25	LEFS32	LEFS40	driver	
Nil	Step motor (Servo/24 VDC)	•	•	•	•	LECP6 LECP1 LECPA LECPMJ	
A	Servo motor (24 VDC)	•	•	_	_	LECA6	

∕.\Caution

[CE-compliant products]

① EMC compliance was tested by combining the electric actuator LEF series and the controller LEC series.

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

2 For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA).

Refer to the **Web Catalog** for the noise filter set. Refer to the LECA Operation Manual for installation. 3 CC-Link direct input type (LECPMJ) is not CE-compliant.

[UL-compliant products]

When conformity to UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

Applicable S	pplicable Stroke Table Standard																				
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	ຂດດ	850	900	950	1000	Manufacturable
Model	30	100	130	200	230	300	330	700	730	300	330	000	030	700	730	000	030	300	330	1000	stroke range [mm]
LEFS16		•	•	•	•	•	•	•		•	_	_	_	_	_	_	_	_	_	_	50 to 500
LEFS25	•		•	•	•	•							_	_	_	_	_	_	_	_	50 to 600
LEFS32		•	•	•	•	•	•	•	•				•		•		_	_	_	_	50 to 800
LEFS40	_	_	•	•	•	•	•	•		•					•				•	•	150 to 1000

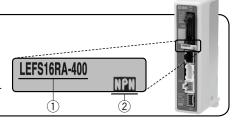
^{*} Please consult with SMC for non-standard strokes as they are produced as special orders.

The actuator and controller/driver are sold as a package.

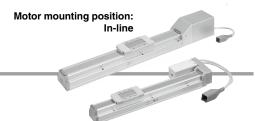
Confirm that the combination of the controller/driver and the actuator is correct.

<Check the following before use.>

- ① Check the actuator label for model number (after "25A-"). This matches the controller/driver.
- ② Check Parallel I/O configuration matches (NPN or PNP).







Motor mounting position: Right side parallel

Positioning pin hole

• restricting pin rists								
Ni	il	Housing B bottom*1	Housing B bottom					
K		Body bottom 2 locations	Body bottom					

*1 Refer to the body mounting example in the Web Catalog for the mounting method.

Controller/Driver type*1

Nil	Without controller/drive	er					
6N	LECP6/LECA6 NPI						
6P	(Step data input type)	PNP					
1N	LECP1*2	NPN					
1P	(Programless type)	PNP					
MJ	LECPMJ*2 *3 (CC-Link direct input type)	_					
AN	LECPA*2 *4	NPN					
AP	(Pulse input type)	PNP					

- *1 For details on controllers/drivers and compatible motors, refer to the compatible controller/driver below.
- *2 Only available for the motor type "Step motor".
- *3 Not applicable to CE.
- *4 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) separately.

9 Actuator cable type*1

Nil	Without cable
S	Standard cable*2
R	Robotic cable (Flexible cable)*3

- *1 The standard cable should be used on fixed parts. For using on moving parts, select the robotic cable.
- *2 Only available for the motor type "Step motor".
- *3 Fix the motor cable protruding from the actuator to keep it unmovable. For details about fixing method, refer to Wiring/Cables in the Electric Actuators Precautions.

1/O cable length [m]*1, Communication plug

Nil	Without cable (Without communication plug connector)*3
1	1.5
3	3*2
5	5* ²
S	Straight type communication plug connector *3
Т	T-branch type communication plug connector *3

- *1 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to the Web Catalog if I/O cable is required.
- *2 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector.
- *3 When "CC-Link direct input type" is selected for controller/driver types, I/O cable is not included. Only "Nil", "S" or "T" can be selected.

Actuator cable length [m]

_	0 1 1
Nil	Without cable
1	1.5
3	3
5	5
8	8*1
Α	10* ¹
В	15* ¹
С	20*1

*1 Produced upon receipt of order (Robotic cable only)

(B) Controller/Driver mounting

Nil	Screw mounting
D	DIN rail mounting*1

*1 DIN rail is not included. Order it separately.

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

Compatible Controller/Driver

Туре	Step data input type	Step data input type	CC-Link direct input type	Programless type	Pulse input type		
Series	LECP6	LECA6	LECPMJ	LECP1	LECPA		
Features		data) input controller	CC-Link direct input	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)				
Maximum number of step data		64 points		14 points	_		
Power supply voltage			24 VDC				

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.



Electric Actuator/Slider Type

Ball Screw Drive Secondary Battery Compatible

Applicable to the JXC□ series

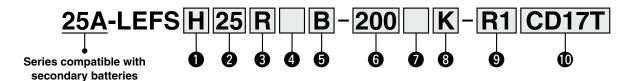
25A-LEFS Series LEFS16, 25, 32, 40

(RoHS)

Refer to the Web Catalog for model selection.

How to Order

Refer to page 189 for the communication protocol CC-Link.



Accuracy

9 71000100									
Nil	Basic type								
Н	High-precision type								

2 Size 25 32

40

Motor mounting position

Nil	In-line
R	Right side parallel
L	Left side parallel

Motor type

	Cumbal	Time		Compatible			
Symbol	Type	LEFS16	LEFS25	LEFS32	LEFS40	controller	
	Nil	Step motor (Servo/24 VDC)	•	•	•	•	JXCE1 JXC91 JXCP1 JXCD1

5 Lead [mm]

Symbol	LEFS16	LEFS25	LEFS32	LEFS40
Α	10	12	16	20
В	5	6	8	10

6 Stroke [mm]

50	50
to	to
1000	1000

^{*} Refer to the applicable stroke table.

7 Motor option

Nil	Without option
В	With lock

8 Positioning pin hole

Nil	Housing B bottom*	Housing B bottom
К	Body bottom 2 locations	Body bottom

^{*} Refer to the body mounting example in the Web Catalog for the mounting method.

[CE-compliant products]

EMC compliance was tested by combining the electric actuator LE series and the JXCE1/91/P1/D1 series.

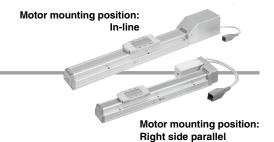
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

Applicable Stroke Table

: Standard

Stroke Model [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
LEFS16	•	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	_	_	50 to 500
LEFS25	•	•	•	•	•	•	•	•	•	•	•	•	_	_	_	_	_	_	_	_	50 to 600
LEFS32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_	_	_	_	50 to 800
LEFS40	_	_	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	150 to 1000

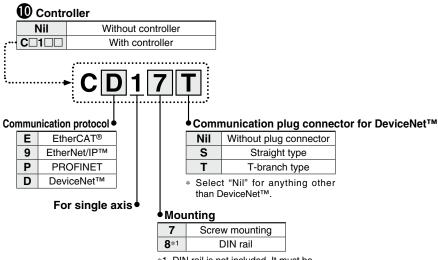
^{*} Please consult with SMC for non-standard strokes as they are produced as special orders.



Actuator cable type/length

Nil	Without cable						
S1	Standard cable 1.5 m						
Standard cable 3 m							
S5	Standard cable 5 m						
R1	Robotic cable 1.5 m						
R3	Robotic cable 3 m						
R5	Robotic cable 5 m						
R8	Robotic cable 8 m*1						
RA	Robotic cable 10 m*1						
RB	Robotic cable 15 m*1						
RC	Robotic cable 20 m*1						

- *1 Produced upon receipt of order (Robotic cable only)
- * The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable.



*1 DIN rail is not included. It must be ordered separately.

Compatible Controller

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

Туре	EtherCAT® direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet™ direct input type						
Series	JXCE1	JXC91	JXCP1	JXCD1						
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input						
Compatible motor		Step motor (Servo/24 VDC)								
Maximum number of step data		64 p	points							
Power supply voltage	24 VDC									

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.



Electric Actuator/Slider Type

Ball Screw Drive Secondary Battery Compatible

25A-LEFS Series LEFS25, 32, 40

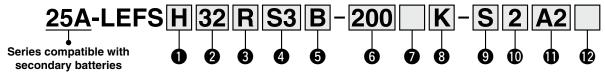
Refer to the Web Catalog for model selection.

LECY□ Series Page 194





How to Order



Accuracy

Nil Basic type High-precision type 2 Size

25

32

 Motor mounting position In-line Right side parallel Left side parallel

Lead [mm] Symbol

25A-LEFS25 25A-25A-LEFS32 LEFS40 16 20 8

6 Stroke [mm]

50 50 to 1000 Refer to the applicable stroke table.

Motor option Nil Without option With lock

Motor type

Symbol	Type	Output [W]	Actuator size	Compatible driver	UL-compliant
S2*1	AC servo motor	100	25	LECSA□-S1	
S3	(Incremental	200	32	LECSA□-S3	_
S4	encoder)	400	40	LECSA2-S4	_
S6*1		100	25	LECSB□-S5 LECSC□-S5 LECSS□-S5	_
S7	AC servo motor (Absolute encoder)	200	32	LECSB□-S7 LECSC□-S7 LECSS□-S7	_
S8		400	40	LECSB2-S8 LECSC2-S8 LECSS2-S8	_
T6*2	AC servo motor	100	25	LECSS2-T5	
T7	(Absolute	200	32	LECSS2-T7	•
T8	encoder)	400	40	LECSS2-T8	

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 suffix is T5.

8 Positioning pin hole			
Nil	Housing B bottom*1	Housing B bottom	
K	Body bottom 2 locations	Body bottom	
A Before the third control of the control of the			

*1 Refer to the body mounting example in the Web Catalog for the mounting method.

Cable type*1, *2

<u> </u>				
Nil	Without cable			
S	Standard cable			
В	Robotic cable			
R	(Flexible cable)			

- *1 The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
- *2 Standard cable entry direction is · Parallel: (A) Axis side
 - · In-line: (B) Counter axis side

1/O cable length [m]*3

Nil	Without cable		
Н	Without cable (Connector only)		
1	1.5		

Applicable Stroke Table

*3 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if I/O cable is required.

Cable length* [m]

Nil	Without cable		
2	2		
5	5		
Α	10		

The length of the encoder, motor and lock cables are the same.

> Standard Manufacturable

> > stroke range

[mm]

50 to 600

50 to 800

150 to 1000

Driver type

	Compatible	Power supply	Size		UL-	
	driver	voltage [V]	25	32	40	compliant
Nil	Without driver	_				_
A1	LECSA1-S□	100 to 120			 —	_
A2	LECSA2-S□	200 to 230				
B1	LECSB1-S□	100 to 120			 —	_
B2	LECSB2-S□	200 to 230	•	•		_
C1	LECSC1-S□	100 to 120			_	_
C2	LECSC2-S□	200 to 230				_
S1	LECSS1-S□	100 to 120			_	_
S2	LECSS2-S□	200 to 230				_
32	LECSS2-T□	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

* Please consult with SMC for non-standard strokes as they are produced as special orders

100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800

Compatible Driver

25A-LEFS25

25A-LEFS32

193

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

Companible Di	compatible Driver					
Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET III type	type	
Series	LECSA	LECSB	LECSC	LECSS	LECSS-T	
Number of point tables	Up to 7	_	Up to 255 (2 stations occupied)	_	_	
Pulse input	0	0	_	_	_	
Applicable network	_	_	CC-Link	SSCNETⅢ	SSCNET II/H	
Control encoder	Incremental	Absolute	Absolute	Absolute	Absolute	
Control encoder	17-bit encoder	18-bit encoder	18-bit encoder	18-bit encoder	22-bit encoder	
Communication function	ction USB communication USB communication, RS422 communication		USB communication, RS422 communication	ication USB communication		
Power supply voltage [V]	[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)		

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.

Electric Actuator/Slider Type

Ball Screw Drive Secondary Battery Compatible

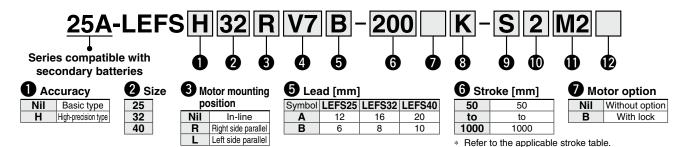
25A-LEFS Series LEFS25, 32, 40

Refer to the Web Catalog for model selection.

(F RoHS

LECS□ Series Page 193

How to Order



Motor type

Symbol	Type	Output [W]	Size	Compatible driver
V6*1	AC servo motor (Absolute encoder)	100	25	LECYM2-V5/LECYU2-V5
V7		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.

I/O cable length [m]*3

Nil	Without cable			
Н	Without cable (Connector only)			
1	1.5			

^{*3} When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if I/O cable is required.

8 Positioning pin hole

Nil	Housing B bottom*1	Housing B bottom
K	Body bottom 2 locations	Body bottom

*1 Refer to the body mounting example in the Web Catalog for the mounting method.

Cable length*1 [m]

Nil	Without cable
3	3
5	5
A 10	
С	20

*1 The length of the encoder motor and lock cables are the same.

9 Cable type*1, *2

Nil	Without cable			
S	Standard cable			
R	Robotic cable			
К	(Flexible cable)			

- *1 The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
- *2 Standard cable entry direction is · Parallel: (A) Axis side
 - · In-line: (B) Counter axis side

Driver type

<u> </u>				
	Compatible driver	Power supply voltage [V]		
Nil	Without driver	_		
M2	LECYM2-V□	200 to 230		
U2	LECYU2-V□	200 to 230		

Applicable Stroke Table

Applicab	le S	Stro	ke '	Tab	le															●:	Standard
Stroke																					Manufacturable
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	stroke range
Model																					[mm]
25A-LEFS25	lacktriangle					lacktriangle	•		lacktriangle		lacktriangle	lacksquare	_	_	—	_	_	_	_	_	50 to 600
25A-LEFS32	lacktriangle				•		•	•	•	•	•			•	•		_	_	_	_	50 to 800
25A-LEFS40	_	_					•		•					•							150 to 1000

^{*} Please consult with SMC for non-standard strokes as they are produced as special orders.

Compatible Driver

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

Driver type	MECHATROLINK-II type	MECHATROLINK-Ⅲ type				
Series	LECYM	LECYU				
Applicable network	MECHATROLINK-II	MECHATROLINK-Ⅲ				
Control encoder		encoder				
Communication device	USB communication,	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

Refer to the Web Catalog for model selection.

LECY□ Series Page 196







25A-LEJS	Н	40	S2	A	500	•	-
Series compatible with secondary batteries	0	2	3	4	6	6	7 8 9 0

Accuracy

	J
Nil	Basic type
Н	High-precision type



6 Str	oke [mm]*
200	
to	
1500	

*3 Refer to the applicable stroke table for details.

3 Motor type

Symbol	Туре	Output [W]	Actuator size	Compatible driver	UL- compliant
S2*1	AC servo motor	100	40	LECSA□-S1	_
S3	(Incremental encoder)	200	63	LECSA□-S3	_
S6*1	AC servo motor	100	40	LECSB□-S5 LECSC□-S5 LECSS□-S5	_
S 7	(Absolute encoder)	200	63	LECSB□-S7 LECSC□-S7 LECSS□-S7	_
T6*2	AC servo motor	100	40	LECSS2-T5	
T7	(Absolute encoder)	200	63	LECSS2-T7	

6 Motor option

Nil	Without option
В	With lock

~ 1	To motor type 32 and 30, the compatible driver part number
	suffixes are S1 and S5 respectively.
	For motor type TC, the competible driver port number suffix i

Symbol	25A-LEJS40	25A-LEJS63		
Н	24	30		
Α	16	20		
В	8	10		
9 Driver type*5				

4 Lead [mm]

<u> </u>	10. 1990		
	Compatible driver	Power supply voltage [V]	UL-compliant
Nil	Without driver	_	_
A1	LECSA1-S□	100 to 120	_
A2	LECSA2-S□	200 to 230	_
B1	LECSB1-S□	100 to 120	_
B2	LECSB2-S□	200 to 230	_
C1	LECSC1-S□	100 to 120	_
C2	LECSC2-S□	200 to 230	_
S1	LECSS1-S□	100 to 120	_
60	LECSS2-S□	200 to 230	_

*5 When a driver type is selected, a cable is included. Select the cable type and cable length.

200 to 240

Example)

S2S2: Standard cable (2 m) + Driver (LECSS2) : Standard cable (2 m) : Without cable and driver

LECSS2-T□

7 Cable type*5, *6, *7

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

- *6 The motor and encoder cables are included. (The lock cable is included when the motor with lock option is selected.)
- *7 Standard cable entry is "(A) Axis side".

8 Cable length [m]*5, *8

Nil	Without cable
2	2
5	5
Α	10

*8 The length of the motor, encoder and lock cables are the same.

Applicable Stroke Table*4

Applicable 5	uoke	I able	• • •							U : St	andard
Stroke Model [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40							•		•		_
25A-LEJS63	-	•	•				•		•	•	

*4 Please consult with SMC for non-standard strokes as they are produced as special orders.

I/O cable length [m]*9

	• " • • • • • • • • • • • • • • • • • •				
Nil Without cable		Without cable			
H Without cable (Connector only)		Without cable (Connector only)			
	1	1.5			

*9 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if I/O cable is required.

For auto switches, refer to page 211.

Compatible Driver

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

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETⅢ type	type
Series	LECSA	LECSB	LECSC	LECSS	LECSS-T
Number of point tables	Up to 7	_	Up to 255	_	_
Pulse input	0	0	_	_	_
Applicable network	_	_	CC-Link	SSCNETⅢ	SSCNET III/H
Control encoder	Incremental	Absolute	Absolute	Absolute	Absolute
Control encoder	17-bit encoder	18-bit encoder	18-bit encoder	18-bit encoder	22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB com	munication
Power supply voltage [V]		100 to 120 VAC (50/60 Hz),	200 to 230 VAC (50/60 Hz	2)	200 to 240 VAC (50/60 Hz)

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

Electric Actuator/High Rigidity Slider Type

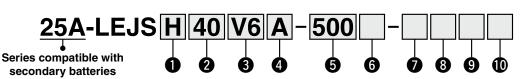
Ball Screw Drive Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

Refer to the Web Catalog for model selection.

LECS□ Series Page 195

How to Order



Accuracy

<u> </u>			
Nil	Basic type		
Н	High-precision type		



M o	tor	type	*1
Symbol		Т	vne

Symbol	Туре	Output [W]	Actuator size	Compatible driver
V 6	AC servo motor (Absolute encoder)	100	40	LECYM2-V5 LECYU2-V5
V 7	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
Н	24	30
Α	16	20
В	8	10

Stroke [mm]*3

200	*3 Refer to the	
to	applicable stroke	
1500	table for details.	

Motor option			
Nil	Without option		
В	With lock		

7 Cable type*5, *6, *7

Nil	Without cable	
S	Standard cable	
R	Robotic cable (Flexible cable)	

- *6 The motor and encoder cables are included. (The lock cable is included when the motor with lock option is
- *7 Standard cable entry is "(A) Axis side".

8 Cable length [m] *5, *6

Nil	Without cable	
3	3	
5	5	
Α	10	
С	20	

*6 The length of the motor, encoder and lock cables are the same.

9 Driver type *5

	Compatible driver	Power supply voltage [V]
Nil	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)

: Standard cable (2 m) : Without cable and driver

I/O cable length [m]*9

Nil	Without cable									
Н	Without cable (Connector only)									
1	1.5									

*9 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if I/O cable is required.

Applicable Stroke Table*4

Applicable 3	Standard U. Standard										
Stroke Model [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40											l —
25A-LEJS63	_		•	•	•	•	•	•	•		•

*4 Please consult with SMC for non-standard strokes as they are produced as special orders.

Solid state auto switches should be ordered separately. For details about auto switches, refer to page 211.

Applicable auto switches

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900 D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Compatible Driver

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

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, I	USB communication, RS-422 communication								
Power supply voltage [V]	200 to 230 V	AC (50/60 Hz)								

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.



Electric Actuator/ Rod Type Secondary Battery Compatible

Applicable to the **LEC**□ series

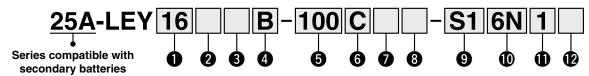
25A-LEY Series LEY16, 25, 32, 40

(RoHS)

Refer to the Web Catalog for model selection.

How to Order

Refer to page 199 for the communication protocols EtherCAT®, EtherNet/IP™, PROFINET, and DeviceNet™.



2 Motor mounting position							
Nil	Top mounting						
R	Right side parallel						
L	Left side parallel						
D	In-line						

O Mo	Motor type Size Compatible									
Symbol	Turno		Compatible							
Symbol	Туре	LEY16	LEY25	LEY32/40	controller/driver					
Nil	Step motor (Servo/24 VDC)	•	•	•	LECP6 LECP1 LECPA LECPMJ					
Α	Servo motor	•	•	_	LECA6					

4 Lead [mm]

Symbol	LEY16	LEY32/40			
Α	10	12	16		
В	5	6	8		
С	2.5	3	4		

6 Motor option

С	With motor cover
W	With lock/motor cover

When "With lock/motor cover" is selected for the top mounting and right/left side parallel types, the motor body will stick out of the end of the body for size 16/40 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.

5 Stroke [mm]

30	30
to	to
500	500

* Refer to the applicable stroke table.

Rod end thread

Nil	Rod end female thread
М	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			
16	25-LEY-L016	25-LEY-F016	25-LEY-D016			
25	25-LEY-L025	25-LEY-F025	25-LEY-D025			
32, 40	25-LEY-L032	25-LEY-F032	25-LEY-D032			
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)			

- *1 When ordering foot brackets, order 2 pieces per actuator.
- Parts belonging to each bracket are as follows.

Applicable strake table

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

* Applicable stro	ке та	bie										: Standard
Stroke [mm] Model		50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
LEY16	•			•	•		•	_	_	_	_	10 to 300
LEY25	•	•		•	•					—	—	15 to 400
LEY32/40												20 to 500

Please consult with SMC for non-standard strokes as they are produced as special orders.

. Caution

[CE-compliant products]

1) EMC compliance was tested by combining the electric actuator LEY series and the controller LEC series.

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

- 2 For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the Web Catalog for the noise filter set. Refer to the LECA Operation Manual for installation.
- 3 CC-Link direct input type (LECPMJ) is not CE-compliant.

[UL-compliant products]

When conformity to UL is required, the electric actuator and controller/ driver should be used with a UL1310 Class 2 power supply.

Solid state auto switches should be ordered separately. For details about auto switches, refer to page 211.

Applicable auto switches

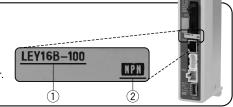
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900 D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and the actuator is correct.

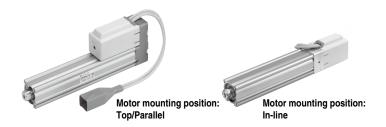
<Check the following before use.>

- ① Check the actuator label for model number (after "25A-"). This matches the controller/driver.
- 2 Check Parallel I/O configuration matches (NPN or PNP)









8 Mounting*1

<u> </u>					
Tymo	Motor mounting position				
туре	Top/Parallel	In-line			
Ends tapped/ Body bottom tapped *2	•	•			
Foot	•	_			
Rod flange*2	•	•			
Head flange*2	●*4	_			
Double clevis*3	•	_			
	Foot Rod flange*2 Head flange*2	Type TopParallel			

- *1 Mounting bracket is shipped together, (but not assembled).
- *2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
 - · LEY25: 200 mm or less
 - · LEY32/40: 100 mm or less
- *3 For mounting with the double clevis, use the actuator within the following stroke range.
 - · LEY16: 100 mm or less
 - · LEY25: 200 mm or less
 - · LEY32/40: 200 mm or less
- *4 Head flange is not available for the LEY32/40.

Controller/Driver mounting

<u> </u>				
Nil	Screw mounting			
D	DIN rail mounting*1			

*1 DIN rail is not included. Order it separately.

9 Actuator cable type/length*2

Nil	Without cable	
S1	Standard cable 1.5 m*3	
S3	Standard cable 3 m*3	
S5	Standard cable 5 m*3	
R1	Robotic cable 1.5 m	
R3	Robotic cable 3 m	
R5	Robotic cable 5 m	
R8	Robotic cable 8 m*1	
RA Robotic cable 10 m*1 RB Robotic cable 15 m*1		
		RC

- *1 Produced upon receipt of order (Robotic cable only)
- *2 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable.
- *3 Only available for the motor type "Step motor."

I/O cable length [m]*1, Communication plug

Nil	Without cable (Without communication plug connector)*	
1	1.5	
3	3*2	
5	5* ²	
S	Straight type communication plug connector*3	
Т	T-branch type communication plug connector*3	

Controller/Driver type*1

Controller/Driver type					
Nil	Nil Without controller/driver				
6N	LECP6/LECA6	NPN			
6P					
1N	LECP1*2	NPN			
1P	(Programless type)	PNP			
MJ	LECPMJ*2 *3 (CC-Link direct input type)	_			
AN	AN LECPA*2 *4 (Pulse input type)				
AP					

- *1 For details on controllers/drivers and compatible motors, refer to the compatible controller/driver below.
- *2 Only available for the motor type "Step motor".
- *3 Not applicable to CE.
- *4 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-\(\Brightarrow\) separately.
- *1 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to the Web Catalog if I/O cable is required.
- *2 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector.
- *3 When "CC-Link direct input type" is selected for controller/driver types, I/O cable is not included. Only "Nil", "S" or "T" can be selected.
 - * The 25A- series specifications and dimensions are the same as those of the standard model.

Compatible Controller/Driver

Companible Con					
Туре	Step data input type	Step data input type	CC-Link direct input type	Programless type	Pulse input type
Series	LECP6	LECA6	LECPMJ	LECP1	LECPA
Features	Value (Step data) input Standard controller		CC-Link direct input	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)		
Maximum number of step data		64 points		14 points	_
Power supply voltage	ply voltage 24 VDC				

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



Electric Actuator/ Rod Type Secondary Battery Compatible

Applicable to the JXC□ series

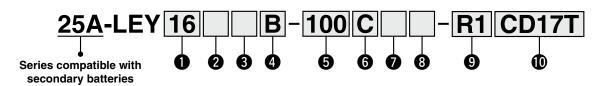
25A-LEY Series LEY16, 25, 32, 40

RoHS

Refer to the Web Catalog for model selection.

How to Order

Refer to page 197 for the communication protocol CC-Link.



Size 16 25 32 40

2 Motor mounting position			
Nil Top mounting			
R	Right side parallel		
L	Left side parallel		
D	In-line		

3 Motor type

Sum	Symbol	Туре	Size			Compatible
Sylli			LEY16	LEY25	LEY32/40	Compatible controller JXCE1 JXC91 JXCP1
Ni	ı	Step motor (Servo/24 VDC)	•	•	•	JXC91

4 Lead [mm]

Symbol	LEY16	LEY25	LEY32/40
Α	10	12	16
В	5	6	8
С	2.5	3	4

5 Stroke [mm]

30	30
to	to
500	500

^{*} Refer to the applicable stroke table.

6 Motor option

С	With motor cover
W	With lock/motor cover

^{*} When "With lock/motor cover" is selected for the top mounting and right/left side parallel types, the motor body will stick out of the end of the body for size 16/40 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.

Rod end thread

Nil	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

∕.∖Caution

[CE-compliant products]

EMC compliance was tested by combining the electric actuator LE series and the JXCE1/91/P1/D1 series.

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	Flange	Double clevis
16	25-LEY-L016	25-LEY-F016	25-LEY-D016
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32, 40	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

- *1 When ordering foot brackets, order 2 pieces per actuator.
- * Parts belonging to each bracket are as follows.

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

Anniloskie Otrolos Tokie

Applicable Stroke Table Standa								•: Standard				
Stroke [mm] Model		50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range [mm]
LEY16	•	•	•	•	•	•	•	_	_	_	_	10 to 300
LEY25	•	•	•	•	•	•	•	•	•	_	_	15 to 400
LEY32/40	•	•		•	•	•	•		•	•	•	20 to 500

Please consult with SMC for non-standard strokes as they are produced as special orders.

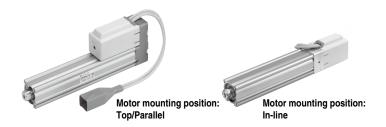
Solid state auto switches should be ordered separately. For details about auto switches, refer to page 211.

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







8 Mounting*1

Cumbal	Type	Motor mounting position		
Symbol	Type	Top/Parallel	In-line	
Nil	Ends tapped/ Body bottom tapped *2	•	•	
L	Foot	•	_	
F	Rod flange*2	•	•	
G	Head flange*2	●*4	_	
D	Double clevis*3	•	_	

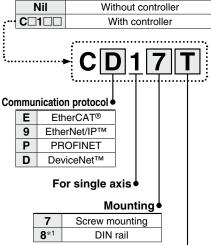
- *1 Mounting bracket is shipped together, (but not assembled).
- *2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
 - · LEY25: 200 mm or less
 - · LEY32/40: 100 mm or less
- *3 For mounting with the double clevis, use the actuator within the following stroke range.
 - · LEY16: 100 mm or less
 - · LEY25: 200 mm or less
 - · LEY32/40: 200 mm or less
- *4 Head flange is not available for the LEY32/40.

9 Actuator cable type/length

Nil	Without cable			
S1	Standard cable 1.5 m			
S3	Standard cable 3 m			
S5	Standard cable 5 m			
R1	Robotic cable 1.5 m			
R3	Robotic cable 3 m			
R5	Robotic cable 5 m			
R8	Robotic cable 8 m*1			
RA	Robotic cable 10 m*1			
RB	Robotic cable 15 m*1			
RC	Robotic cable 20 m*1			

- *1 Produced upon receipt of order (Robotic cable only)
- * The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable.





*1 DIN rail is not included. It must be ordered separately.

Communication plug connector for DeviceNet™

Nil Without plug connec			
S	Straight type		
Т	T-branch type		

Select "Nil" for anything other than DeviceNet™.

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

mnatible Controller

Туре	EtherCAT® direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet TM direct input type		
Series	JXCE1	JXC91	JXCP1	JXCD1		
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input		
Compatible motor	ible motor Step motor (Servo/24 VDC)					
Maximum number of step data		64 points				
Power supply voltage	24 VDC					

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



Electric Actuator/ Rod Type Secondary Battery Compatible



25A-LEY Series LEY25, 32 Size

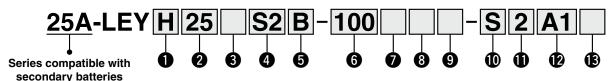




LECY□ Series Page 203

Refer to the Web Catalog for model selection.

How to Order



Accuracy

Nil Basic type H High-precision type

2 Siz	е
25	
32	

Motor mounting position Top mounting Right side parallel Left side parallel D In-line

Lead [mm]

Symbol	LEY25	LEY32*1
Α	12	16 (20)
В	6	8 (10)
С	3	4 (5)

*1 The values shown in () are the lead for size 32 top mounting, right/left side parallel types. (Equivalent lead which includes the pulley ratio [1.25:1])

Motor type*1

Symbol	Туре	Output [W]	Actuator size	Compatible drivers*3	UL- compliant
S2*1	AC servo motor (Incremental encoder)	100	25	LECSA□-S1	_
S 3		200	32	LECSA□-S3	_
S6*1	AC servo motor	100	25	LECSB□-S5 LECSC□-S5 LECSS□-S5	_
S7	(Absolute encoder)	200	32	LECSB□-S7 LECSC□-S7 LECSS□-S7	_
T6*2	AC servo motor	100	25	LECSS2-T5	_
T7	(Absolute encoder)	200	32	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 suffix is T5.
- *3 For details about the driver, refer to the Web Catalog.

6 Stroke [mm]

Rod end thread

Nil

М

30	30
to	to
500	500

* Refer to the applicable stroke table for details.

Motor option

Nil	Without option With lock*1			
В				
4 140	MARIN 1 181 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

When "With lock" is selected for the top mounting and right/ left side parallel types, the motor body will stick out of the end of the body for size 25 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.



9 Mounting*1

Cumbal	Tuno	Motor mounting position		
Symbol	Туре	Top/Parallel	In-line	
Nil	Ends tapped/ Body bottom tapped *2	•	•	
L	Foot	•	_	
F	Rod flange*2	●*4	•	
G	Head flange*2	●*5	_	
D	Double clevis*3	•	_	

- *1 Mounting bracket is shipped together, (but not assembled).
- For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
 - · 25A-LEY25: 200 mm or less
 - 25A-LEY32: 100 mm or less
- *3 For mounting with the double clevis, use the actuator within the following stroke range.
 - · 25A-LEY25: 200 mm or less
- 25A-LEY32: 200 mm or less
- *4 Rod flange is not available for the LEY25 with stroke 30 mm and motor option "With lock".
- *5 Head flange is not available for the 25A-LEY32.

Mounting Bracket Part Nos. for the 25A- Series

Rod end female thread Rod end male thread

(1 rod end nut is included.)

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 belonging to each bracket are as follows.

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

 Applicable stroke table Standard Manufacturable 50 100 150 200 250 300 350 400 450 500 Model stroke range [mm] 25A-LEY25 15 to 400 25A-LEY32 20 to 500

Please consult with SMC for non-standard strokes as they are produced as special orders.

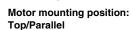
Solid state auto switches should be ordered separately. For details about auto switches, refer to page 211.

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









Motor mounting position: In-line

Cable type*1

Capic type		
Nil	Without cable	
S	Standard cable	
R	Robotic cable (Flexible cable)	

- *1 The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
- *1 Standard cable entry direction is
 - · Top/Parallel: (A) Axis side
 - · In-line: (B) Counter axis side

Cable length*1 [m]

Nil	Without cable
2	2
5	5
Α	10

*1 The length of the encoder, motor and lock cables are the same.

Driver type*1

	71: -		
	Compatible driver	Power supply voltage [V]	UL-compliant
Nil	Without driver	_	_
A1	LECSA1-S□	100 to 120	_
A2	LECSA2-S□	200 to 230	_
B1	LECSB1-S□	100 to 120	_
B2	LECSB2-S□	200 to 230	_
C1	LECSC1-S□	100 to 120	_
C2	LECSC2-S□	200 to 230	_
S1	LECSS1-S□	100 to 120	_
S2	LECSS2-S□	200 to 230	_
32	LECSS2-T□	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 (LECSS2)

S2 : Standard cable (2 m) Nil : Without cable and driver

I/O cable length [m]*1

Nil	Without cable
Н	Without cable (Connector only)
1	1.5

*1 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if I/O cable is required.

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

Compatible Driver

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETII type	type
Series	LECSA	LECSB	LECSC	LECSS	LECSS-T
Number of point tables	Up to 7	_	Up to 255 (2 stations occupied)	_	_
Pulse input	0	0	_	_	_
Applicable network	_	_	CC-Link	SSCNETⅢ	SSCNET III/H
Control encoder	Incremental 17-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication USB communication, RS422 communication USB communication, RS422 communication USB communication USB communication				munication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz) 200 to 240 VA (50/60 Hz)		200 to 240 VAC (50/60 Hz)		

^{*} Copper and zinc materials are used for the motors, cables, controllers/drivers.



Electric Actuator/ Rod Type Secondary Battery Compatible

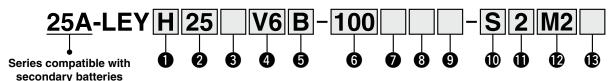
25A-LEY Series LEY25, 32 Size



LECY□ Series Page 201

Refer to the Web Catalog for model selection.

How to Order



Accuracy

Nil Basic type H High-precision type

2 Siz	е
25	
32	

3 Motor mounting positio		
Nil	Top mounting	
R	Right side parallel	
L	Left side parallel	
D	In-line	

Motor type

Symbol	Туре	Output [W]	Size	Compatible driver
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.

Lead [mm]

Symbol	25A-LEY25	25A-LEY32*1
Α	12	16 (20)
В	6	8 (10)
С	3	4 (5)

*1 The values shown in () are the lead for size 32 top mounting, right/left side parallel types. (Equivalent lead which includes the pulley ratio [1.25:1])

6 Stroke [mm]

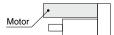
30	30
to	to
500	500

Refer to the applicable stroke table for details.

Motor option

Nil	Without option
В	With lock*1

*1 When "With lock" is selected for the top mounting and right/ left side parallel types, the motor body will stick out of the end of the body for size 25 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.



8 Rod end thread

Nil	Rod end female thread
М	Rod end male thread (1 rod end nut is included.)

Mounting*1

Cumbal	Tuno	Motor mounting position						
Symbol	Туре	Top/Parallel	In-line					
Nil	Ends tapped/ Body bottom tapped *2	•	•					
L	Foot	•	_					
F	Rod flange*2	●*4	•					
G	Head flange*2	●*5	_					
D	Double clevis*3	•	_					

- *1 Mounting bracket is shipped together, (but not assembled).
- *2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range. · LEY25: 200 mm or less · LEY32: 100 mm or less
- *3 For mounting with the double clevis, use the actuator within the following stroke range. · LEY25: 200 mm or less · LEY32: 200 mm or less
- *4 Rod flange is not available for the LEY25 with stroke 30 mm and motor option "With lock".
- *5 Head flange 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 belonging to each bracket are as follows. Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, D-M9NW(V)-900, D-M9PW(V)-900, D-M9PW(V)-900 Body mounting bolt

Solid state auto switches should be ordered separately. For details about auto switches, refer to page 211.

Applicable auto switches

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900

203

Applicable stroke table												Standard
Stroke	30	50	100	150	200	250	300	350	400	450	500	Manufacturable
Model [mm]	30	30	100	130	200	230	300	330	700	730	300	stroke range [mm]
25A-LEY25	•	•	•	•	•	•	•	•	•	_	_	15 to 400
25A-LEY32	•	•	•	•	•	•	•	•	•	•		20 to 500

* Please consult with SMC for non-standard strokes as they are produced as special orders.



Motor mounting position: Top/Parallel



Motor mounting position: In-line

Cable type*1

4	oic type
Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

- *1 The motor and encoder cables are included. (The lock cable is also included when the motor with lock option is selected.)
- *1 Standard cable entry direction is
 - · Top/Parallel: (A) Axis side
 - · In-line: (B) Counter axis side

Cable length [m]*1

Nil	Without cable
3	3
5	5
Α	10
С	20

*1 The length of the motor and encoder cables are the same. (For with lock)

1 Driver type

	Compatible driver	Power supply voltage [V]
Nil	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.

I/O cable length [m]*1

	case iongin [m]
Nil	Without cable
Н	Without cable (Connector only)
1	1.5

*1 When "Without driver" is selected for driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if I/O cable is required.

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

Compatible Driver

Compatible Driver		
Driver type	MECHATROLINK-II type	MECHATROLINK-III type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder		olute encoder
Communication device	USB communication, F	RS-422 communication
Power supply voltage [V]	200 to 230 V	AC (50/60 Hz)

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



25A - Series

Applicable Auto Switches

Applicable Cylinder Series

				Auto	switches									Air cyl	inders			
	Special	Electrical	Indicator	Wiring	Electrical	Auto switch	Lead	d wire	lengt	h [m]	Pre-wired	CD(B)J2	CDM2	CD(I	B)G1	MDB	CDA2	
Type	function	entry	light	(Output)	entry	model	0.5	1	3	5	connector	α10 α16	a20 to a40	a20 to a63	α 8 0 α100	ø32 to ø100	a/0 to a100	
				O L. (AIDAI)	direction	D MON OOO	Nil	M	L	Z	SDPC				000, 0 100			
				3-wire (NPN)	In-line	D-M9N-900	•	•	•	0	_	•	•	•	_	•	•	
				3-wire (PNP)	in-line	D-M9P-900	•	•	•	0	_	•	•	•	_	•	•	
	_			2-wire 3-wire (NPN)		D-M9B-900 D-M9NV-900	•	•	•	0		•	•	•	_	•	•	
				3-wire (NPN)	Dornandiaular	D-M9PV-900	•	•	•	0			=			•	•	
				2-wire	reipenulculai	D-M9BV-900	•	•	•	0							•	
		-		3-wire (NPN)		D-M9NW-900	•	•		0		-	•	-				
				3-wire (PNP)	In-line	D-M9PW-900	•	•		0		•					•	
	Diagnostic			2-wire	111-11116	D-M9BW-900	•	•	•	0	0	•	•	•			•	
	indication			3-wire (NPN)		D-M9NWV-900	•	•	-	0								
	(2-color indicator)			3-wire (PNP)	Pernendicular	D-M9PWV-900	•	•	•	0				_	_		•	
				2-wire	r cipcilaloulai	D-M9BWV-900	•	•	•	0	0				_		•	
		1		3-wire (NPN)		D-Y59A-900	•	•	-	0	_	<u> </u>	_	_	<u> </u>	 	_	
				3-wire (PNP)	In-line	D-Y7P-900	•	•		0	_	_	<u> </u>	_	_	 _ _	_	
				2-wire	0	D-Y59B-900	•	•	•	0	_	_	_	_	_	_	_	
	-			3-wire (NPN)		D-Y69A-900	•	•		0	_	_	_	_	_	 _	_	
				3-wire (PNP)	Perpendicular	D-Y7PV-900	•	•	•	0	_	_	_	_	_	—	_	
				2-wire		D-Y69B-900	•	•	•	0	_	_	_	_	_	l _	_	
		1		3-wire (NPN)		D-Y7NW-900	•	•	•	0	_	_	<u> </u>	_	_	—	_	
				3-wire (PNP)	In-line	D-Y7PW-900	•	•	•	0	_	_	_	_	_	_	_	
	Diagnostic			2-wire		D-Y7BW-900	•	•	•	0	_	_	_	_	_	_	_	
Solid	indication			3-wire (NPN)		D-Y7NWV-900	•	•	•	0	_	_	_	_	_	_	_	
state auto (2 switch	(2-color indicator)	Grommet	Yes	3-wire (PNP)	Perpendicular	D-Y7PWV-900	•	•	•	0	_	_	_	_	_	_	_	
				2-wire		D-Y7BWV-900	•	•	•	0	_	_	_	_	_	_	_	
]		3-wire (NPN))	D-G59-900	•	_	•	0	_	_	_	_	•	_	•	
	_			3-wire (PNP)		D-G5P-900	•	_	•	0	_	_	_	_	•	_	•	
				2-wire	In-line	D-K59-900	•	_	•	0	_	_		_	•		•	
	Diagnostic			3-wire (NPN)	111-11116	D-G59W-900	•	_	•	0	_	_		_	•	_	•	
	indication			3-wire (PNP)		D-G5PW-900	•	_	•	0	_	_	_	_	•	_	•	
	(2-color indicator)			2-wire		D-K59W-900	•	_	•	0	0	_		_	•		•	
				3-wire (NPN)		D-F79-900	•	_	•	0				_				
				3-wire (PNP)	In-line	D-F7P-900	•	_	•	0	_	_	_	_	_		_	
	_			2-wire		D-J79-900	•	_	•	0	_	_			_		_	
				3-wire (NPN)		D-F7NV-900	•	_	•	0	_	_	-	_	_	-	_	
				3-wire (PNP)	Perpendicular	D-F7PV-900	•	_	•	0	_	_	_	_	_	_	_	
				2-wire		D-F7BV-900	•	_	•	0	_							
	<u> </u>			3-wire (NPN)		D-F79W-900	•	_	•	0						 -		
	Diagnostic			3-wire (PNP)	In-line	D-F7PW-900	•	_		0	_	_	_	_	_		_	
	indication			2-wire		D-J79W-900	•		•	0	_	_	_			-		
	(2-color indicator)			3-wire (NPN)		D-F7NWV-900	•			0								
		-		2-wire		D-F7BWV-900	•		•	0		_	_		_			
				3-wire (NPN)	rerpendicular	D-F8N-900	•		•	0	_	_						
	_			3-wire (PNP)		D-F8P-900	•	_	•	0								
				2-wire		D-F8B-900	•			0	_	_	_	_	_	-	_	
Docat	_		No	2-wire	In-line	D-A90-900 D-Z80-900	_	_	•	_	_	•	•	•	_	-	•	
Reed		Grommet		2 wire (NIDN equity)		D-280-900 D-E76A	-				_	_		_	_	-		
auto switch		diominet	Yes	3-wire (NPN equiv.)	In line	D-E78A				_	_	_		_	_	-	_	
SWILCH	_		No	2-wire		D-E/3A D-E80A	•		•	_	_	_	_	_	_	-	_	
			140			D-EOUA												

^{*} Solid state auto switches marked with "O" are produced upon receipt of order.

Ordering the Auto Switches

Please be aware that the order part numbers for the cylinder mounted and individual auto switches are different. (Example) Part number for ordering D-M9BWL-900:

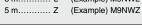
 Cylinder mounted type: 25A-CDJ2L16-60-M9BWL (Omit the first "D-" and the last "-900" or "-901".)

* Lead wire length symbols: 0.5 m.....Nil (Example) M9NW 1 m..... M (Example) M9NWM

• Individual auto switch: D-M9BWL-900

3 m..... L (Example) M9NWL

(Place the order with the part number for auto switch shown in the table above.)



				Comp	act cyli	nders				Rodless cylinders											
(CDS2	CDUJ	CDU	CDUK		CDQ	2(W)	CDI	BQ2	MY1B-Z	MY1H-Z		MY1B			'1C		H MY2H MY3		CY	3R
0'	125 to ø160	ø6 to ø20	ø10 to ø32	ø16 to ø32	ø12 to ø25	ø12 to ø100	ø125 to ø200	ø 20 , ø 25	ø32 to ø100	ø25 to ø40	ø25 to ø40	ø16, ø20	ø 50	ø 63	ø16, ø20	ø25 to ø63	ø16, ø20	ø16, ø25	ø16 to ø63	ø6 to ø20	ø25 to ø63
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	•	•
-	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	• -	• -
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	_	_
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	_	
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	_	
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	_	_
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25A- Series

Applicable Cylinder Series

				Au	uto switches							
	Special	Electrical	Indicator	Wiring	Electrical		L	_ead wire	length [n	n]	Pre-wired	
Type	function	entry	light	(Output)	entry	Auto switch model	0.5	1	3	5	connector	
	14.101.011	o,	g	(Galpai)	direction		Nil	М	Ĺ	Z	SDPC	
				3-wire (NPN)		D-M9N-900	•	•	•	0	_	
				3-wire (PNP)	In-line	D-M9P-900	•	•	•	0	_	
	_			2-wire		D-M9B-900	•	•	•	0	_	
				3-wire (NPN)		D-M9NV-900	•	•	•	0	_	
				3-wire (PNP)	Perpendicular	D-M9PV-900	•	•	•	0	_	
				2-wire		D-M9BV-900	•	•	•	0	_	
				3-wire (NPN)		D-M9NW-900	•	•	•	0	_	
	Diagnostic			3-wire (PNP)	In-line	D-M9PW-900	•	•	•	0	_	
	indication			2-wire		D-M9BW-900	•	•	•	0	0	
	(2-color indicator)			3-wire (NPN)		D-M9NWV-900	•	•	•	0	_	
	(E color malcator)			3-wire (PNP)	Perpendicular	D-M9PWV-900	•	•	•	0	_	
				2-wire		D-M9BWV-900	•	•	•	0	0	
				3-wire (NPN)		D-Y59A-900	•	•	•	0		
				3-wire (PNP)	In-line	D-Y7P-900	•	•	•	0	_	
				2-wire		D-Y59B-900	•	•	•	0	_	
	_			3-wire (NPN)	_	D-Y69A-900	•	•	•	0	_	
				3-wire (PNP)		D-Y7PV-900	•	•	•	0	_	
				2-wire	In-line	D-Y69B-900	•	•	•	0	_	
				3-wire (NPN)		D-Y7NW-900	•	•	•	0	_	
	Diagnostic			3-wire (PNP)		D-Y7PW-900	•	•	•	0	_	
	indication			2-wire		D-Y7BW-900	•	•	•	0	_	
Solid state (into switch	(2-color indicator)	Grommet	Yes	3-wire (NPN)		D-Y7NWV-900	•	•	•	0	_	
	(2 color indicator)	Grommet	162	3-wire (PNP)	Perpendicular	D-Y7PWV-900	•	•	•	0		
				2-wire		D-Y7BWV-900	•	•	•	0	_	
				3-wire (NPN)		D-G59-900	•	_	•	0	_	
	_			3-wire (PNP)		D-G5P-900	•	_	•	0	_	
				2-wire	In-line	D-K59-900	•	_	•	0	_	
	Diagnostic			3-wire (NPN)	111 11110	D-G59W-900	•	_	•	0	_	
	indication			3-wire (PNP)		D-G5PW-900	•	_	•	0	_	
	(2-color indicator)			2-wire		D-K59W-900	•	_	•	0	0	
				3-wire (NPN)		D-F79-900	•	_	•	0	_	
				3-wire (PNP)	In-line	D-F7P-900	•	_	•	0	_	
	_			2-wire		D-J79-900	•	_	•	0	_	
				3-wire (NPN)		D-F7NV-900	•		•	0	_	
				3-wire (PNP)	Perpendicular	D-F7PV-900	•		•	0		
				2-wire		D-F7BV-900	•		•	0	_	
				3-wire (NPN)		D-F79W-900	•		•	0	_	
	Diagnostic			3-wire (PNP)	In-line	D-F7PW-900	•		•	0	_	
	indication			2-wire		D-J79W-900	•	_	•	0	_	
	(2-color indicator)			3-wire (NPN)		D-F7NWV-900	•		•	0	_	
				2-wire		D-F7BWV-900	•		•	0	_	
				3-wire (NPN)	Perpendicular	D-F8N-900	•		•	0	_	
	-			3-wire (PNP)		D-F8P-900	•		•	0	_	
				2-wire		D-F8B-900	•		•	0		
	_		No	2-wire	In-line	D-A90-900			•	_	_	
Reed auto						D-Z80-900			•	_	_	
switch		Grommet	Yes	3-wire (NPN equiv.)		D-E76A	•		•	_		
OWITOH	-		103	2-wire	In-line	D-E73A	•	_	•	_	_	
			No	2-wire		D-E80A		l —	•	_	_	I



Applicable Auto Switches **25A-Series**

	MXH to Ø20	MXS ø6 to ø25	Table com	MXQ	MXW	MXP	MGP	MGP-H/R			ylinders					mp/Stop	
Ø6	•		α6 to α25			141771	INIGP	MGP-H/K	MGG	GG CXSJ CXS			3XW	CDBPXW	MK	RSQ	RSH
	•		90 to 923	ø 6 to ø 25	ø 8 to ø 25	ø6 to ø16	ø12 to ø100	ø20 to ø100	ø20 to ø50	ø6 to ø32	ø6 to ø32	ø 10	ø16 to ø32	ø10 to ø32	ø12 to ø63	ø12 to ø50	ø 20 , ø 32
	•		•	•	•	•	•	•	•	•	_	_	_	_	•	•	•
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Applicable Rotary Actuator Series

				Au	to switches								Rotary a	ctuators	3
	Special	Electrical	Indicator	Wiring	Electrical	Auto switch	Lea	d wire	length	[m]	Pre-wired	MSQ	MSZ	MD	SUB
Type	function	entry	light	(Output)	entry direction	model	0.5 Nil	1 M	3 L	5 Z		10 to 200	10 to 50	1, 3	7, 20
				3-wire (NPN)		D-M9N-900	•	•	•	0	Pre-wired connector SDPC	•	•	_	_
				3-wire (PNP)	In-line	D-M9P-900	•	•	•	0	_	•	•	_	_
				2-wire		D-M9B-900	•	•	•	0	_	•	•	_	_
	_			3-wire (NPN)		D-M9NV-900	•	•	•	0	_	•	•	_	_
				3-wire (PNP)	Perpendicular	D-M9PV-900	•	•	•	0	_	•	•	_	_
				2-wire		D-M9BV-900	•	•	•	0	_	•	•	_	_
				3-wire (NPN)		D-M9NW-900	•	•	•	Ü	_	•	•	_	_
	Diagnostic			3-wire (PNP)	In-line	D-M9PW-900	•	•	•	0	_	•	•	_	_
	Diagnostic indication			2-wire		D-M9BW-900	•	•	•	0	0	•	•	_	_
	(2-color indicator)			3-wire (NPN)		D-M9NWV-900	•	•	•	0	_	•	•		_
	(=,	1		3-wire (PNP)	Perpendicular	D-M9PWV-900	•	•	•	0	_	•	•	_	_
				2-wire		D-M9BWV-900	•	•	•	0	0	•	•		
				3-wire (NPN)		D-Y59A-900	•	•	•	0	_	_	_		_
				3-wire (PNP)	In-line	D-Y7P-900	•	•	•	0		_		_	_
	_			2-wire		D-Y59B-900	•	•	•	0	_	_	_		_
				3-wire (NPN)		D-Y69A-900	•	•	•	0	_	_	_	_	_
				3-wire (PNP)	Perpendicular	D-Y7PV-900	•	•	•	0	_	_	_		_
				2-wire		D-Y69B-900	•	•	•	0	_	_	_		_
				3-wire (NPN)		D-Y7NW-900	•	•	•	0	_		_		_
	Diagnostic	tic		3-wire (PNP)		D-Y7PW-900	•	•	•	0		_	_		_
Solid state	indication	Grommet	Yes	2-wire		D-Y7BW-900	•	•	•	0			_		_
auto switch	(2-color indicator)			3-wire (NPN)		D-Y7NWV-900	•	•	•	0		_	_		_
				` ′		D-Y7PWV-900	•	•	•	0					_
				2-wire		D-Y7BWV-900	•	•	•	0		_			_
				3-wire (NPN)		D-S991-901*1	•		•	0		_	_	•	
						D-S992-901*1	•		•	0				•	_
				3-wire (PNP)	In-line	D-S9P1-901*1	•	_	•	0	_	_		•	_
						D-S9P2-901*1	•		•	0			_	•	_
				2-wire		D-T991-901*1	•		•	0	_	_	_	•	_
						D-T992-901*1	•	_	•	0		_	_	•	_
				3-wire (NPN)		D-S99V1-901*1	•	_	•	0		_	_	•	_
						D-999V2-901*1	•		•	0		_	_	•	_
	_			3-wire (PNP)	Perpendicular	D-S9PV1-901*1 D-S9PV2-901*1	•	_	•	0			_	•	_
							•	_	•	0		_	_	•	
				2-wire		D-T99V1-901*1 D-T99V2-901*1	•		•	0			_	•	_
						D-199V2-901*1	•	_	•	0			_	•	-
				3-wire (NPN)		D-S791-901*1				0	_				
						D-S792-901*1	•	_	•		H				•
				3-wire (PNP)	In-line	D-S7P1-901*1		_	•	0		_			•
						D-37P2-901*1	-			0					-
				2-wire		D-1791-901*1	•	_		0					•
Reed auto		_		_										_	-
switch	-	Grommet	No	2-wire	In-line	D-A90-900		_	•	_		•	•	_	

^{*} Solid state auto switches marked with "O" are produced upon receipt of order.

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".)
- * Lead wire length symbols: 0.5 m........Nil (Example) M9NW 1 m......M (Example) M9NWM
- Individual auto switch: D-M9BWL-900 (Place the order with the part number for auto switch shown in the table above.)
- 3 m...... L (Example) M9NWL 5 m...... Z (Example) M9NWZ

^{*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.



^{*} 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, MHZ2-10, MHZ2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper.

When the MHZ2-10, MHZL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper. When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 214.

Applicable Air Gripper Series

				Auto	switch	es									Aiı	r gripp	ers				
Type	Special	Electrical		Wiring	Electrical entry	Auto switch		wire	_		Pre-wired connector	MHZ2	MHZL2	MHZJ2	MHZL2 -X5955	MHL2	MHF2	MHS3 MHS4	MHSJ3	MHY2	
.,,,,	function	entry	light	(Output)	direction	model	0.5 Nil	1 M	3 L	5 Z	SDPC	10 to 40	10 to 25	10 to 25	10 to 20	10 to 40	8 to 20	16 to 32	16 to 32	16 to 25	
				3-wire (NPN)		D-M9N-900	•	•	•	0	_	•	•	•	•	•	•	•	•	•	
				3-wire (PNP)	In-line	D-M9P-900	•	•	•	0	_	•	•	•	•	•	•	•	•	•	
				2-wire		D-M9B-900	•	•	•	0	_	•	•	•	•	•	•	•	•	•	
	_			3-wire (NPN)		D-M9NV-900	•	•	•	0	_	•	•	•	•	•	•	•	•	•	
				3-wire (PNP)	Perpendicular	D-M9PV-900	•	•	•	0	_	•	•	•	•	•	•	•	•	•	
				2-wire	·	D-M9BV-900	•	•	•	0	<u> </u>	•	•	•	•	•	•	•	•	•	
				3-wire (NPN)		D-M9NW-900	•	•	•	0	_	•	•	•	•	•	•	_	•	•	
				3-wire (PNP)	In-line	D-M9PW-900	•	•	•	0	_	•	•	•	•	•	•	_	•	•	
	Diagnostic			2-wire		D-M9BW-900	•	•	•	0	0	•	•	•	•	•	•	_	•	•	
	indication (2-color indicator)			3-wire (NPN)		D-M9NWV-900	•	•	•	0	_	•	•	•	•	•	•	_	•	•	
	(2-vuivi illulval01)	3-	3-wire (PNP)	Perpendicular	D-M9PWV-900	•	•	•	0	_	•	•	•	•	•	•	_	•	•		
			2-wire		D-M9BWV-900	•	•	•	0	0	•	•	•	•	•	•	_	•	•		
				3-wire (NPN)		D-Y59A-900	•	•	•	0	_	•	•	_	_	•	_	_	_	_	
				3-wire (PNP)	In-line	D-Y7P-900	•	•	•	0	_	•	•	_	_	•	_	_	_	_	
				2-wire		D-Y59B-900	•	•	•	0	_	•	•	_	_	•	_	_	_	_	
	_			3-wire (NPN)		D-Y69A-900	•	•	•	0	_	•	•	_	_	•	_	_	_	_	
			3-wire (PNP)	Perpendicular	D-Y7PV-900	•	•	•	0	_	•	•	_	_	•	_	_	_	l —		
				2-wire		D-Y69B-900	•	•	•	0	_	•	•	_	_	•	_	_	_	_	
				3-wire (NPN)		D-Y7NW-900	•	•	•	0	_	•	•		_	•	-	_	_	-	
	5			3-wire (PNP)	In-line	D-Y7PW-900	•	•	•	0	_	•	•	_	_	•	_	_	_	_	
Solid state	Diagnostic indication	Grammat	Grommet Yes	Yes	2-wire		D-Y7BW-900	•	•	•	0	_	•	•		_	•	-	_	_	
auto switch	(2-color indicator)	Grommet		3-wire (NPN)	D-Y7NWV-900	•	•	•	0	_	•	•	_	_	•	-	_	_	—		
	(2 00:01			3-wire (PNP)	Perpendicular	D-Y7PWV-900	•	•	•	0	—	•	•	_	_	•	_	_	_	_	
				2-wire		D-Y7BWV-900	•	•	•	0	_	•	•	_	_	•	-	_	_		
				3-wire (NPN)		D-S991-901*1	•	_	•	0	_	1	_	_	-	_	_	_	_	-	
				3-WIIE (INFIN)		D-S992-901*1	•	_	•	0	_	_	_	_	_	_	_	_	_	_	
				3-wire (PNP)	In-line	D-S9P1-901*1	•	_	•	0	_		_	_	_	_	_	_	_	_	
				5-Wile (FIVE)	111-11116	D-S9P2-901*1	•	_	•	0				_	_	_	_	_	_	_	
				2-wire		D-T991-901*1	•	_	•	0			_	_	_	_	_	_	_	_	
				Z-WIIG		D-T992-901*1	•	_	•	0				_	_			_	_	_	
				3-wire (NPN)		D-S99V1-901*1	•	_	•	0			_	_		_		_	_	_	
				O WIIO (INI IN)		D-999V2-901*1	•	_	•	0	_			_	_	_	_	_	_	_	
	_			3-wire (PNP)	Pernendicular	D-S9PV1-901*1	•	_	•	0				_	_			_	_	_	
	_			O WIIO (I INF)	i orportutoural	D-S9PV2-901*1	•	_	•	0	_			_	_	_	_	_	_	_	
				2-wire		D-T99V1-901*1	•	_	•	0	_			_	_	_	-	_	_	_	
				~ WIIIC		D-T99V2-901*1	•	_	•	0	_	_	_	_	_	_	-	_	_	_	
				3-wire (NPN)		D-S791-901*1	•	_	•	0				_			<u> </u>	_	_	_	
				5 mil (141 14)		D-S792-901*1	•	_	•	0	_			_	_		-	_	_	-	
		2 wire	3-wire (PNP)	In-line	D-S7P1-901*1	•	_	•	0	_			_			<u> </u>	_	_	-		
				3-wire (PNP) In-line		D-S7P2-901*1	•	_	•	0	_			_	_	_	-	_	_	_	
		2-wire		2-wire		D-T791-901*1	•	_	•	0	_			_		_	<u> </u>	_	_	_	
				,,,,		D-T792-901*1	•	_	•	0				_			<u> </u>	_	_	<u> </u>	
Reed auto switch	_	Grommet	No	2-wire	In-line	D-A90-900	_	_	•	_	_			_	_	_		_	_	_	

- * Solid state auto switches marked with "O" 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, MHZ2-10 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 214.

Ordering the Auto Switches

Please be aware that the order part numbers for the air gripper mounted and individual auto switches are different. (Example) Part number for ordering D-M9BWL-900:

- Air gripper mounted type: 25A-MHZ2-16D-M9BWL
- (Omit the first "D-" and the last "-900" or "-901".)
- Individual auto switch: D-M9BWL-900
- (Place the order with the part number for auto switch shown in the table above.)
- * Lead wire length symbols: 0.5 m.....Nil (Example) M9NW
 - 1 m...... M (Example) M9NWM
 3 m..... L (Example) M9NWL

(Example) M9NWZ

^{*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

				Au	ito switches	3						Electric a	actuators
Type	Special	Electrical	Indicator	Wiring	Electrical entry	Auto switch	Lead wire length [m]				Pre-wired connector	LEJS	LEY
Туре	function	entry	light	(Output)	direction	model	0.5 Nil	1 M	3 L	5 Z	SDPC	40 to 63	16 to 40
		Grommet	No	2-wire	In-line	D-A90-900	_	_	•	_	_	_	_
				3-wire (NPN)		D-M9N-900	•	•	•	0	_	•	•
				3-wire (PNP)	In-line	D-M9P-900	•	•	•	0	_	•	•
	_			2-wire		D-M9B-900	•	•	•	0	_	•	•
				3-wire (NPN)	-	D-M9NV-900	•	•	•	0	_	•	•
Solid state				3-wire (PNP)		D-M9PV-900	•	•	•	0	_	•	•
auto switch				2-wire		D-M9BV-900	•	•	•	0	_	•	•
				3-wire (NPN)		D-M9NW-900	•	•	•	0	_	•	•
				3-wire (PNP)	In-line	D-M9PW-900	•	•	•	0	_	•	•
	Diagnostic indication			2-wire		D-M9BW-900	•	•	•	0	0	•	•
	(2-color indicator)			3-wire (NPN)		D-M9NWV-900	•	•	•	0	_	•	•
	(L color malaator)			3-wire (PNP)	Perpendicular	D-M9PWV-900	•	•	•	0	_	•	•
				2-wire		D-M9BWV-900	•	•	•	0	0	•	•

^{*} Solid state auto switches marked with "O" are produced upon receipt of order.

Ordering the Auto Switches

• Individual auto switch: D-M9BWL-900

(Place the order with the part number for auto switch shown in the table above.)

* Lead wire length symbols: 0.5 m.....Nil (Example) M9NW

1 m..... M (Example) M9NWM 3 m..... L (Example) M9NWL 5 m..... Z (Example) M9NWZ

^{*} 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.

25A - Series

Auto Switch Mounting

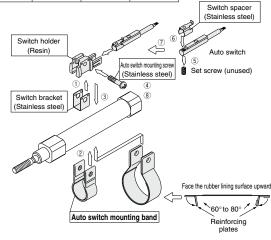
Band Mounting Type

Applicable cylinder series: 25A-CDJ2, 25A-CDBJ2, 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		Applicable bore size [mm]													
series	10	16	20	25	32	40	50	63	80	100					
25A-CDJ2	*1	*1													
25A-CDBJ2	25A-BJ7-010S	25A-BJ7-016S	_	_	_	_	_	_	_	_					
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).



25A-BM6, 25A-BMA4

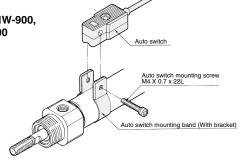
Applicable cylinder series: 25A-CDG1, 25A-CDBG1

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	Applicable bore size [mm]					
series	80	100				
25A-CDG1 25A-CDBG1	BA-08S	BA-10S				



Tie-rod Mounting Type

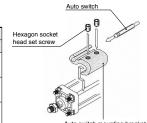
Applicable cylinder series: 25A-MDB, 25A-CDA2, 25A-CDS2

Applicable auto switches: D-M9□-900, D-M9□V-900, D-M9□W-900, D-M9□WV-900, D-M9BWSDPC-900, D-M9BWVSDPC-900

: D-A90-900

Auto Switch Mounting Bracket Part Nos.

Cylinder				Applica	ıble bore siz	e [mm]			
series	32	40	50	63	80	100	125	140	160
25A-MDB	90-	90-	90-	90-	90-	90-			
25A-IVIDB	BMB5-032	BMB5-032	BA7-040	BA7-040	BA7-063	BA7-063	_	_	_
25A-CDA2		90-	90-	90-	90-	90-			
25A-CDA2	_	BA7-040	BA7-040	BA7-063	BA7-080	BA7-080		_	_
25A-CDS2							25A-	25A-	25A-
25A-CD52	_						BS6-125	BS6-125	BS6-160





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Rail Mounting Type

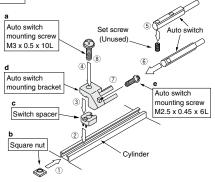
Applicable cylinder series: 25A-CDBQ2

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	er Applicable bore size [mm]									
series	20	25	32	40	50	63	80	100		
25A-CDBQ2	_	_	2	25A-BQ2-03	2	_	_	_		



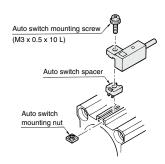
Applicable auto switches: D-F79-900, D-F7P-900, D-J79-900, D-F7NV-900,

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		Applicable bore size [mm]										
series	20	25	32 40 50 63 80									
25A-CDBQ2	_	_			25A-	BQ-2						



Direct Mounting Type

Applicable cylinder series : 25A-MY1B, 25A-MY1H, 25A-MY3□,

25A-CY3R, 25A-MGP-Z, 25A-MGP-AZ,

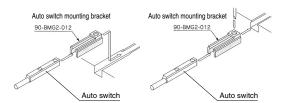
25A-MGP-H/R, 25A-RSH

Applicable air gripper series: 25A-MHZ(L) 2, 25A-MHL2, 25A-MHS3, MHS4 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-A90L-900



Auto Switch Mounting Bracket Part Nos.

Cylinder series					Д	pplicable bo	ore size [mm	ո]				
Air gripper series	10	12	15	16	20	25	32	40	50	63	80	100
25A-MY1B-Z	_	-	_	_	_	BMY3-016	BMY3-016	BMY3-016	_	_	_	_
25A-MY1H-Z	_	-	_	_	_	BMY3-016	BMY3-016	BMY3-016	_	_	_	_
25A-MY1B	_	_	_	Not required	Not required	_	_	_	_	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	_	_	_	_	_	_	_
25A-MY3□	_	-	_	BMY3-016	_	_						
25A-CY3R	_	-	Not required	_	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	_	_	_	_
25A-MGP-Z 25A-MGP-AZ	_	Not required	_	Not required								
25A-MGP-H/R	_	ı	_	-	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012
25A-RSH	_	ı	_	-	90- BMG2-012	_	90- BMG2-012	_	_	_	_	_
25A-MHZ2	90- BMG2-012	١	_	*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.





Precautions

⚠ Caution

■ Change of material

The 25A- series are copper- and zinc-free products and restrict the use of materials including copper and zinc as main components. However, some parts including solenoid valves, motors, cables, drivers for electric actuators, and coils, connector pins, lead wires for auto switches whose materials are difficult to be changed to alternative ones use copper 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

■ 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 trademark of ODVA.

EtherNet/IP™ is a trademark of ODVA.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

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





UNIT CONVERSIONS

	unit	conversion	result
length	m	x 3.28	ft
	mm	x 0.04	in
mass	g	x 0.04	OZ
volume	cm ³	÷ 16.387	in ³
	L	x 61.024	in ³
speed	mm/s	÷ 25.4	in/s
pressure	MPa	x 145	psi
	kPa	÷ 6.895	psi
temperature	e °C	x1.8 then add 32	°F
torque	N·m	x 0.738	ft-Ib
force	Ν	÷ 4.448	lbf
flow	L/min	÷ 28.317	cfm



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VENEZUELA

SMC Neumatica Venezuela S.A

U.S. & Canadian Sales Offices

WEST **Austin**

Dallas

Denver El Paso

Phoenix Portland

San Jose

CENTRAL Chicago

Cincinnati Cleveland **Detroit**

Des Moines Grand Rapids

Indianapolis **Kansas City**

Milwaukee

Minneapolis

St. Louis

Albany Atlanta

Birmingham **Boston** Charlotte Los Angeles

Knoxville Nashville **New Jersey**

Rochester **Tampa**

CANADA

Vancouver **Toronto** Windsor

Montreal **Quebec City**

Regional Distribution Centers

Central warehouse 0 0 e c

Sales Branches

CO