Series Compatible with Secondary Batteries

25A-Series

Copper (Cu) and Zinc (Zn) Restrictions

Compatible with dew points as low as

Longer life

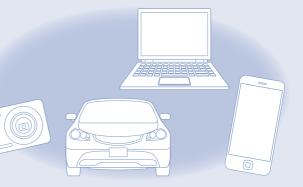
due to use of grease compatible with low dew points

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

Compatible with the various environments of each manufacturing process



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



Series Compatible with Secondary Batteries 25A- Series

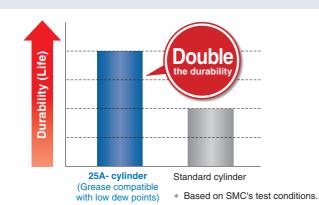


Improved performance in environments with low dew points

Uses grease compatible with low dew points

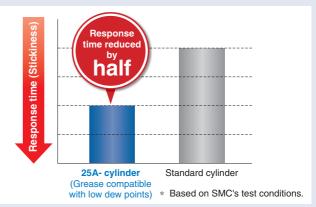
Double the durability

Durability comparison (Air cylinder)



Response time reduced by half

Comparison of cylinder response times after being pressurised and stored



Material Restrictions

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

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



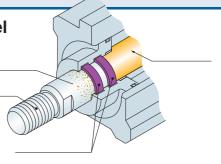
Dustproof Products

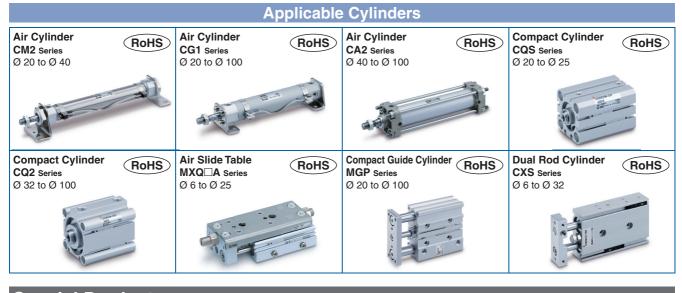
Durability is 4 times stronger than the standard model in micro-powder (10 to 100 µm) environments.

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

Cylinder with Stable Lubrication Function (Lube-retainer)

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



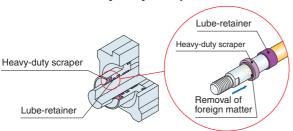


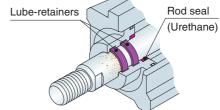
Special Products (Please contact your local sales representative for more details.)

Lube-retainer + Heavy-duty scraper

 Improved dust prevention due to the luberetainer and heavy-duty scraper

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



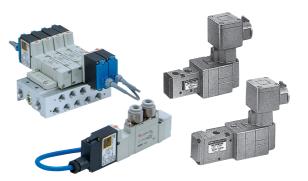


Double Lube-retainer + Urethane seal

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



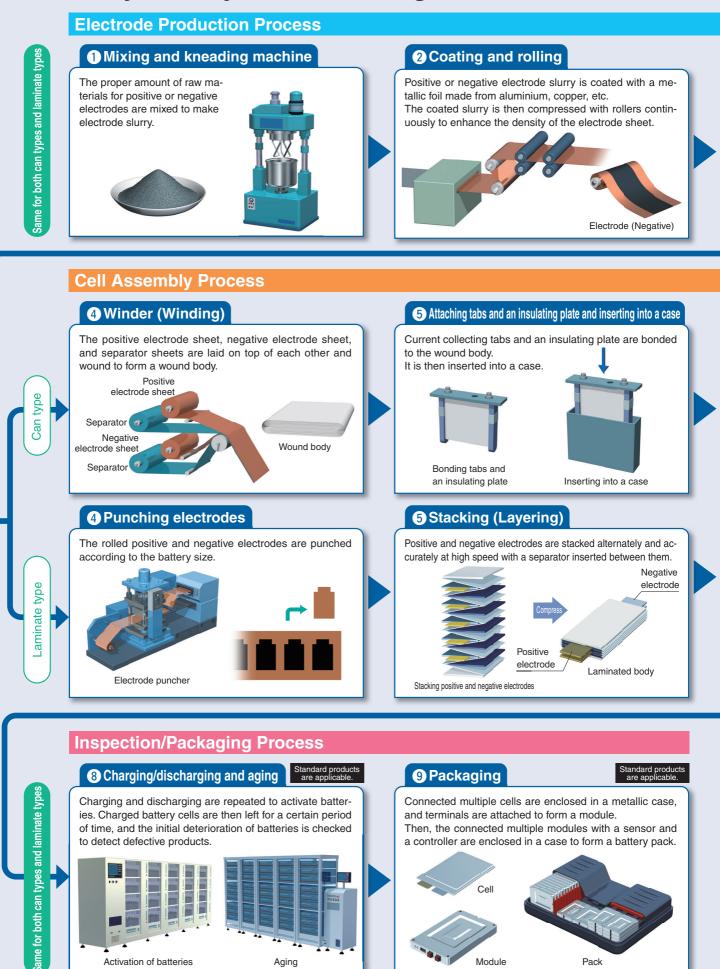
Series Compatible with Secondary Batteries



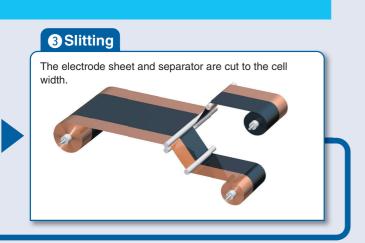
SMC

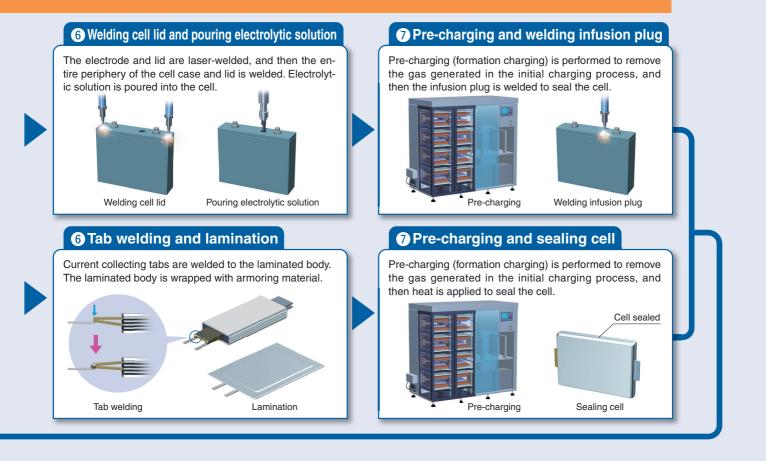


Secondary Battery Manufacturing Process



SMC









25A- Series Applicable Products

	Description	25A- Series	
	Description	Model (Type)	Page
	5-Port	25A-JSY3000 (Plug-in connector connecting base)	p. 14-1
	Solenoid Valve	25A-JSY3000 (Non plug-in metal base)	p. 14-11
	Entry Market	25A-SY5000 (Plug-in connector connecting base)	p. 15
		25A-SY5000, 7000	p. 36
		25A-VQ2000, 4000 (W)	p. 43
	•	25A-SQ2000	p. 56
		25A-VQZ1000	p. 61
Directional Control Valves	Separate Type Double Check Block	25A-VQ1000, 2000 (Double check block)	p. 65
ol Va	3-Port	25A-VP342, 542, 742 (Body ported)	p. 66
ntro	Solenoid Valve	25A-VP344, 544, 744 (Base mounted)	p. 67
°	and the second sec	25A-VP500, 700 (Safety Standard ISO 13849-1)	p. 68
nal		25A-VT317	p. 69
ctio	e o ³	25A-VG342	p. 70
Dire	5-Port Air Operated Valve	25A-SYA5000, 7000	p. 71
	3-Port Air Operated Valve	25A-SYJA500, 700	p. 72
	Finger Valve	25A-VHK-A	p. 73-1
		25A-VHK	p. 74
	Conforming to OSHA Standard Pressure Relief 3-Port Valve with	25A-VHS20(W), 30(W), 40(W), 50(W)-D	p. 75-1
	Locking Holes	25A-VHS20, 30, 40, 50	p. 75
	and an	25A-VHS2510, 3510, 4510, 5510	p. 76
	Air Cylinder	25A-CJP2 (Standard)	p. 76-1
	(Certe	25A-CJ2 (Standard)	p. 77
		25A-CJ2K (Standard)	p. 77-1
lers	and the second s	25A-CBJ2 (With end lock)	p. 78
Air Cylinders	(a) + (a)	25A-CM2 (Standard)	p. 79
cy		25A-CG1 (Standard)	p. 80
Air		25A-CBG1 (With end lock)	p. 81
	40 000	25A-MB (Standard)	p. 82
		25A-CA2 (Standard)	p. 83
		25A-CS2 (Standard)	p. 84
Compact Air Cylinders	Mini Free Mount Cylinder	25A-CUJ (Standard)	p. 85
Compact . Cylinders	Free Mount Cylinder	25A-CU (Standard)	p. 88
ပိပ်	a a a	25A-CUK (Non-rotating rod)	p. 89
7		600	

Description 25A- Series Model (Type)		25A- Series	
		Model (Type)	Page
	Compact Cylinder	25A-CQS (Standard)	p. 90
S	and the second sec	25A-CQSW (Standard, Double rod)	p. 91
inde		25A-CQS (Anti-lateral load)	p. 92
cyli		25A-CQ2 (Standard)	p. 93
Air		25A-CQ2W (Standard, Double rod)	p. 94
Compact Air Cylinders	6	25A-CQ2 (Large bore size)	p. 95
dmo		25A-CQ2 (Long stroke)	p. 96
Ŭ		25A-CQ2 S (Anti-lateral load)	p. 97
	and the second sec	25A-CBQ2 (With end lock)	p. 98
	Mechanically Jointed Rodless Cylinder	25A-MY1B (Basic)	p. 99
	Houless Cylinder	25A-MY1M (Slide bearing guide type)	<mark>p. 99-1</mark>
		25A-MY1C (Cam follower guide)	p. 100
Rodless Cylinders		25A-MY1H (Linear guide)	p. 101
/line		25A-MY2C (Cam follower guide)	<mark>p. 101-1</mark>
s C		25A-MY2H/HT (Linear guide)	p. 102
dles	The second se	25A-MY3A (Basic short type, Rubber bumper)	<mark>p. 103</mark>
Boo	y and	25A-MY3B (Basic standard type, Air cushion)	<mark>p. 103</mark>
		25A-MY3M (Slide bearing guide type)	<mark>p. 104</mark>
	Magnetically Coupled Rodless Cylinder	25A-CY3B (Basic)	p. 105
		25A-CY3R (G) (Direct mount)	p. 106
	Compact Slide	25A-MXH (Recirculating linear guide)	p. 107
	Air Slide Table	25A-MXS (Cross roller guide)	p. 108
ers	6 6 6	25A-MXQ A (Recirculating linear guide/Double-ported type)	p. 109
Table Cylinders	61-9 ST	25A-MXQDB (Recirculating linear guide/Low thrust with high rigidity type)	p. 110
cyl	- Cont	25A-MXQCC (Recirculating linear guide/Single side-ported type)	p. 111
able	1	25A-MXQ (Recirculating linear guide/Height interchangeable type)	p. 112
Ĥ	RING -	25A-MXQ (Recirculating linear guide)	p. 113
		25A-MXW (Recirculating linear guide)	p. 114
		25A-MXP (Recirculating linear guide)	p. 115
Ś	Compact Guide Cylinder	25A-MGPM (Slide bearing)	p. 116
Guide Cylinders		25A-MGPL (Ball bushing bearing)	p. 116
		25A-MGPM (Slide bearing, Air cushion type)	p. 117
de C		25A-MGPL (Ball bushing bearing, Air cushion type)	p. 117
Gui	Guide Cylinder	25A-MGGL (Ball bushing bearing)	p. 121



		25A- Series	
	Description	Model (Type)	Page
		inodel (Type)	rage
Guide Cylinders	Slide Unit	25A-CXWM (Slide bearing)	p. 118
lind	Dual Rod Cylinder	25A-CXSJM (Slide bearing)	p. 119
C		25A-CXSJL (Ball bushing bearing)	p. 119
nide	it is a	25A-CXSM (Slide bearing)	p. 120
ษี		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
ts		25A-RB (Standard)	p. 127
Related Products		25A-RBC (Standard)	p. 127
Pro	Floating Joint	25A-JA (Standard/80, 100 only)	p. 128
ted		25A-JB (For compact cylinders)	p. 128
telat		25A-JS (Stainless steel type)	p. 128
Œ	Simple Joint for CQ2	YA (Type A mounting bracket)	*1
		YB (Type B mounting bracket)	*1
	0 , m (YU (Joint)	*1
	Rotary Table	25A-MSUB (Vane type)	p. 129
Rotary Actuators	is a man	25A-MSQ (Rack & Pinion type)	p. 130
otar uato		25A-MSQ-X251 (Rack & Pinion type, With vacuum port)	p. 130
Act	3-Position	25A-MSZA (High precision type)	p. 132
	Rotary Table	25A-MSZB (Basic type)	p. 132
	Parallel Type Air Gripper	25A-MHZ2 (Standard)	p. 133
		25A-MHZL2 (Long stroke)	p. 134
		25A-MHZJ2 (With dust cover)	p. 135
ers		25A-MHZJ2-X6100 (With dust cover type)	p. 135
ipp€		25A-MHZL2-X5955 (Long stroke, With dust cover)	p. 135
Air Grippers		25A-MHF2 (Low profile type)	p. 136
Air		25A-MHL2 (Wide type)	p. 137
		25A-MHS (3-finger, 4-finger)	p. 138
	and a fact	25A-MHSJ3 (3-finger, With dust cover)	p. 139
		25A-MHY2 (180° Angular type)	p. 140
		25A-MHW2	p. 140-1

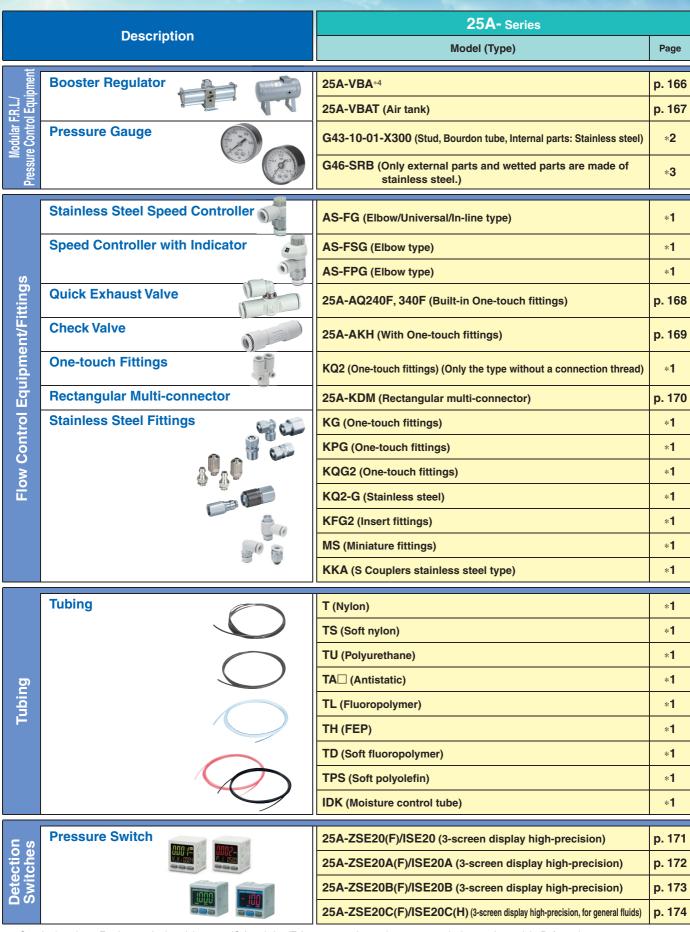
*1 Standard products: Standard products are copper (Cu) and zinc (Zn) free. Refer to the Catalogue at www.smc.eu for details.

SMC

		25A- Series	
	Description	Model (Type)	Page
	Vacuum Ejector	25A-ZK2 (Vacuum unit) Single unit only	p. 141
	Space Saving Vacuum Ejector	25A-ZQ (Ejector unit) Single unit/Manifold	p. 145
		25A-ZQ (Vacuum pump unit) Single unit/Manifold	p. 149
ner		ZH DA (Body ported) (Only the models without connection threads)	*1
ipn	and the second second	ZH BA (Box type) (Only the models without connection threads)	*1
Equ	In-line Type Vacuum Ejector	ZUDDA (In-line type) (Only the models without connection threads)	*1
Vacuum Equipment	In-line Air Filter	ZFC (With One-touch fittings)	*1
Vac	Vacuum Pad	ZP (Pad only)	*1
	Vacuum Regulator	25A-IRV	p. 152-1
	Adsorption Plate	SP	*1
uo	Membrane Air Dryer	25A-IDG (Single unit/Standard dew point -40 °C/-60 °C specifications)	p. 153
Air Preparation Equipment	Air Preparation Filter	25A-AFF (Main line filter)	p. 155
epa ipm		25A-AM (Mist separator)	p. 156
Pre		25A-AMD (Micro mist separator)	p. 157
Air	Ψ	25A-AMH (Micro mist separator)	p. 158
			p. 100
vir "	Clean Air Filter	SFD100	*1
Clean Air Filters		SFD200	*1
Fil		25A-AMP (Exhaust cleaner for clean room)	p. 159
U		SFE (Clean exhaust filter)	*1
	Modular F.R.L. Units	25A-AC□B-D, AC□C-D, AC□D-D	*2
		25A-AC□B-A, AC□C-A, AC□D-A	*2
	Air Filter Separator	25A-AF-D (Air filter)	<mark>p. 160-1</mark>
ent		25A-AFM-D (Mist separator)	<mark>p. 161-1</mark>
L./ quipment		25A-AFD-D (Micro mist separator)	<mark>p. 161-1</mark>
L./		25A-AF-A (Air filter)	<mark>p. 160</mark>
F.R ol E		25A-AFM-A (Mist separator)	p. 161
dular F.F Control I		25A-AFD-A (Micro mist separator)	p. 161
	Regulator	25A-AR-D (Regulator)	<mark>p. 162-1</mark>
Mc Pressure	i i i i i i i i i i i i i i i i i i i	25A-AR	<mark>p. 162-1</mark>
ess		25A-AW-D (Filter regulator)	<mark>p. 163-1</mark>
Pr	-	25A-AW K-D (Filter regulator with backflow function)	<mark>p. 163-1</mark>
		25A-AR-B (Regulator)	<mark>p. 162</mark>
	1.0°	25A-AR	p. 162
	11	25A-AW-B (Filter regulator)	<mark>p. 163</mark>
		25A-AW	p. 163
vi Ctond	and products: For the standard model, copper (Cu) and zinc (Zn) are not i		

*1 Standard products: For the standard model, copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Refer to the **Catalogue at www.smc.eu** for details. *2 Available as simple specials. Please contact your local sales representative for more details.





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

*2 Copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Please contact your local sales representative for more details.
*3 Standard products: Aside from the external parts and wetted parts, copper (Cu) and zinc (Zn) are used as main components in the metal materials. Refer to the Catalogue at www.smc.eu for details.

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.

SMC

		25A- Series	
	Description	Model (Type)	Page
Detection Switches	Flow Switch	25A-PFMB7 (2-colour display)	p. 175
itc	Q an and	25A-PFM5 (2-colour display, Remote sensor unit)	p. 177
Sw	and a second the second	25A-PFM3 (Monitor for air)	p. 178
ion		25A-PF3W (3-colour display, Monitor for water)	p. 179
ecti		25A-PFM7 (2-colour display, Integrated display)	p. 180
Det	CE	25A-PF3W (3-colour display, for water)	p. 181
	18	25A-PF3W (3-colour display, for PVC piping)	p. 182
-	Direct Operated	25A-VX2 (For air)	p. 183
Control pment	2-Port Solenoid Valve	25A-VX2 (For water/oil/medium vacuum)	p. 184
Contro ipment	Pilot Operated	25A-VXD (For air)	p. 185
Fluid (Equi	2-Port Solenoid Valve	25A-VXD (For water)	p. 186
Щщ	Zero Differential Pressure Type	25A-VXZ (For air)	p. 187
	Pilot Operated 2-Port Solenoid Valve	25A-VXZ (For water)	p. 188
^P rocess Gas Equipment	Diaphragm Valve for Ultra High Purity	AZ3542 & 4542□25A (Air operated type)	p. 188-1
Proce Equi	Diaphragm Valves for General Applications	AK3542 & 4542 25A (Air operated type)	p. 188-3
	Electric Actuator	25A-LEFS (Slider type/Step motor, Servo motor: Applicable to the LEC)	p. 189
	1 - 1 - P	25A-LEFS (Slider type/Step motor: Applicable to the JXC)	p. 191
ors		25A-LEFS (Slider type/AC servo motor: Applicable to the LECS	p. 193
uaț		25A-LEFS (Slider type/AC servo motor: Applicable to the LECY)	p. 194
Actuators		25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECS	p. 195
		25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECY)	p. 196
Electric		25A-LEY (Rod type/Step motor, Servo motor: Applicable to the LEC	p. 197
Ē		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	<mark>p. 203</mark>
	Solid State Auto Switch	D-M9□□-900	
		D-F8□-900	
les		D-Y7□□-900	From
itch	2.8	D-G59, G5P, K59-900	p. 205
Auto Switches		D-F79, F7P, J79-900	
Ito		D-F7□V-900	
AL	Reed Auto Switch	D-A90-900	
	~	D-Z80-900	From p. 205
		D-E73A, E76A, E80A	

25A- series grease pack*1 **applicable models** *1 Air cylinders (Except guide unit). For other models, please contact your local sales representative.

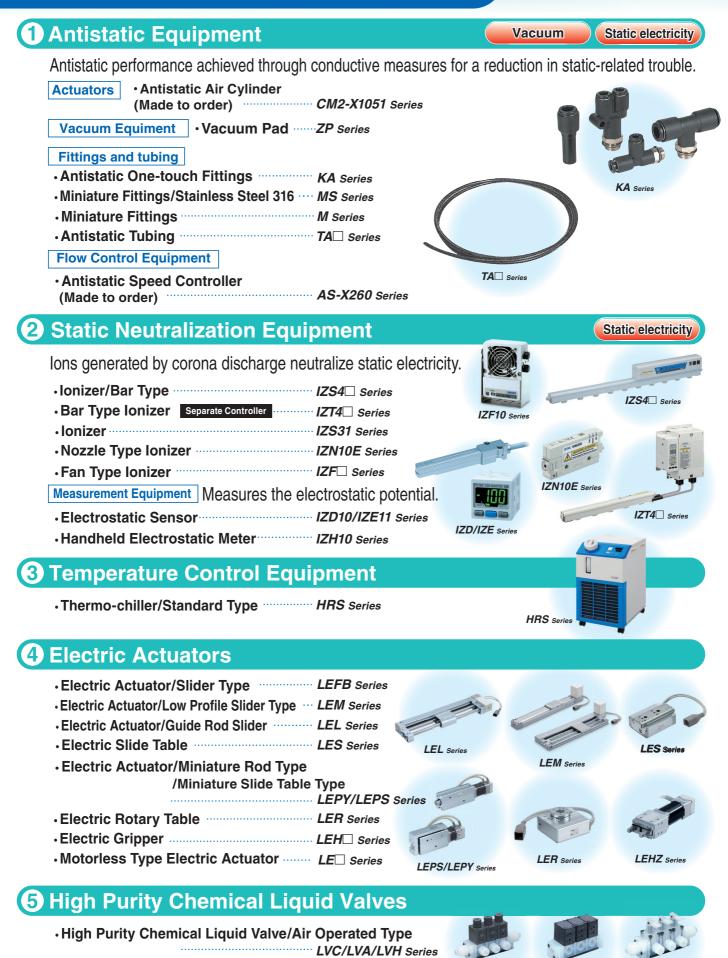
Grease pack part no.	Quantity
GR-D-005	5 g
GR-D-010	10 g
GR-D-100	100 g

Contained in a plastic container.

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

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 Cylinders	Air Cylinder With End Lock	CBM2 MBB CNG□N CNA2□N CLQ
1	Heavy Duty Stopper Cylinder	RSQ RS2H
ipment	Vacuum Pad	ZP□
Vacuum Equipment	Non-contact Gripper	XT661
Vacut	Vacuum Regulator	IRV (Standard)
/acuum pment	Aluminium	XLA (Normally closed)
High V Equip	High Vacuum Angle Valve	XLC (Double acting)

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





LVC Serie

LVH Se

LVA Series

Plug-in Connector Connecting Base

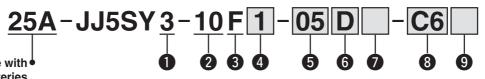
D-sub Connector

Type 10 Side Ported

25A-JSY3000 Series RoHS

Internal Pilot

How to Order Manifolds



Series compatible with secondary batteries

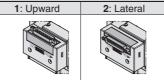


2 Туре 10 Side ported

Connector type

•••••••••••••••••••••••••••••••••••••••	
F: D-sub connector	
Connector	<ip40></ip40>
entry	(25 pins)
direction	
adjustable	
	1
	1
o l	
	~

4 Connector entry direction



The connector entry direction for connector types "FW," "FC," and "P□C" cannot be rotated. If it is necessary to change, order connector block assembly and SUP/EXH block assembly separately.

5 Valve stations

F: D-sub connector (25 pins)			
Symbol Stations Note		Note	
02	2 stations	Double wiring*1	
	:		
12	12 stations		
02	2 stations	Creatified laws #*?	
:	:	Specified layout*2 (Up to 16 solenoids available)	
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 blanking plates.

6 P, E port entry

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

SUP/EXH block assembly

_	Internal pilot
s	Internal pilot,
U	Built-in silencer

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

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

<u>``</u>	
vmbol	A. B port

Cynhoor		A, D poir	
C6	Straight	Ø 6	
C8		Ø 8	Ref 199
CM*1		Straight port, mixed sizes	08
		port size buch fittings)	Ø 10

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

9 Mounting and Option

	<u> </u>			
Symbol		Mounting		
—	Direct mounting			
D	DIN rail mounting			
DIN Rail Option				
—	DIN rail mounting (With DIN rail)			
0	DIN rail mounting (Without DIN rail)			
3	For 3 stations			
:	:	Specify a longer rail than the standard length.		
16	For 16 stations	Stanuaru ieriyill.		

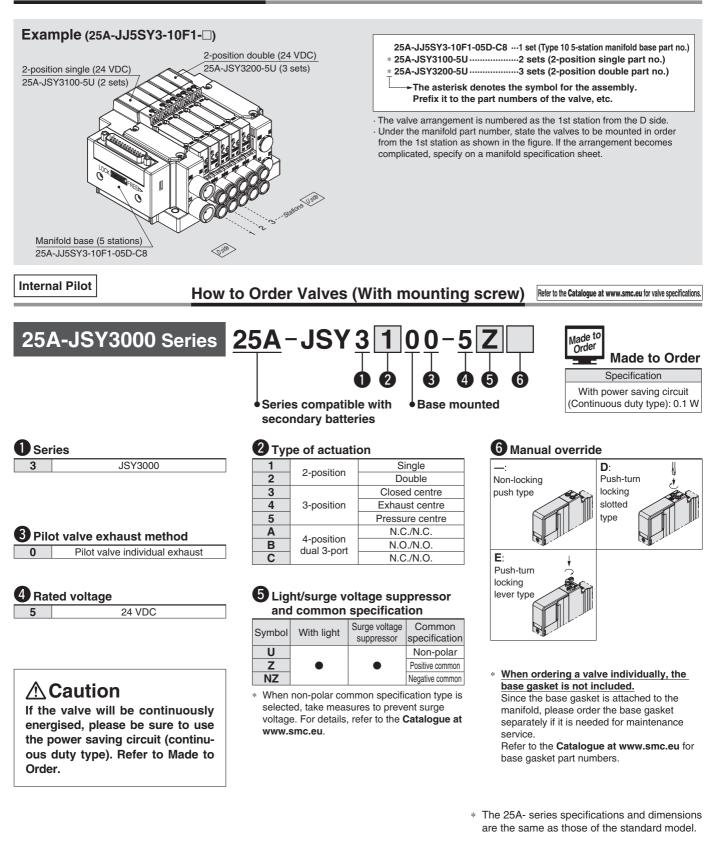
- Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown on the above.)
- * Refer to the Catalogue at www.smc.eu for the fixation of DIN rail mounting type manifold

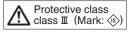
* The 25A- series specifications and dimensions are the same as those of the standard model.



Rugin Connector Connecting Base 25A-JSY3000 Series

How to Order Manifold Assembly





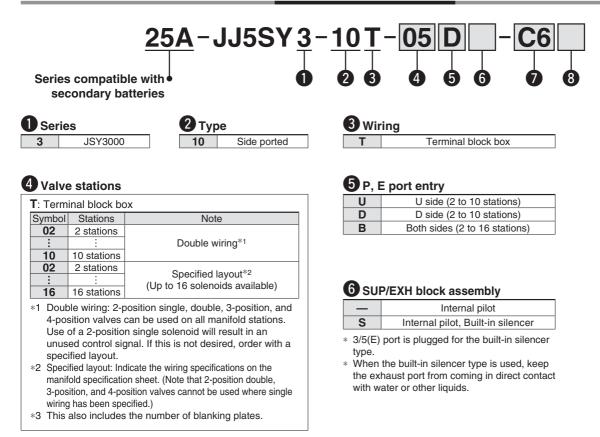
Plug-in Connector Connecting Base

Type 10 Side Ported

25A-JSY3000 Series

Internal Pilot

How to Order Manifolds



Terminal Block Box

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

Symbol		A, B port	
C6	t	Ø 6	
C8	Straight	Ø 8	
CM *1		Straight port, mixed sizes	08
	P, E port size (One-touch fittings)		

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

8 Mounting and Option

Symbol	Mounting
—	Direct mounting
D	DIN rail mounting

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

* Refer to the **Catalogue at www.smc.eu** for the fixation of DIN rail mounting type manifold.

DIN Rail Option

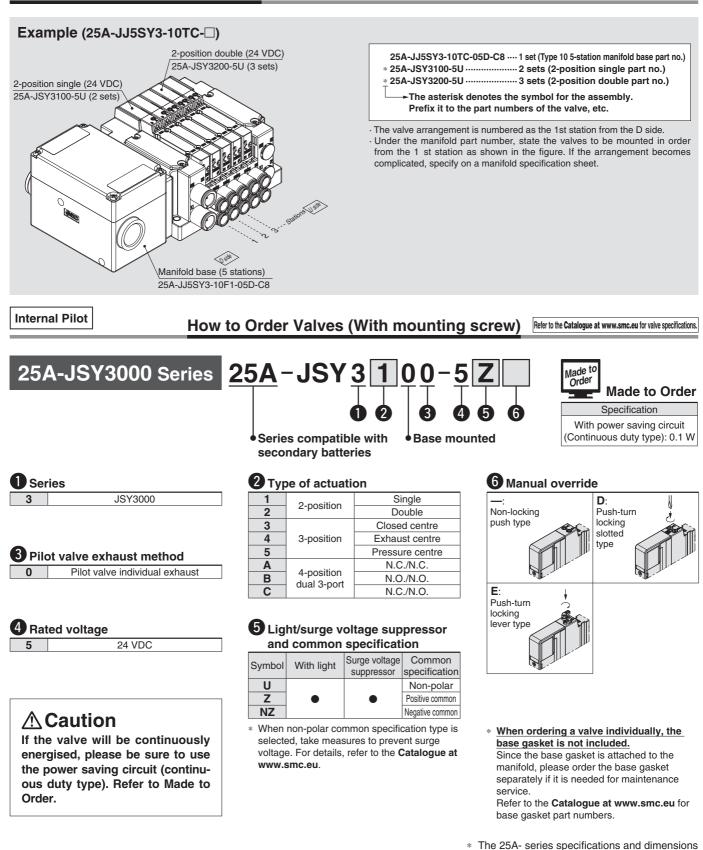
	•			
—	DIN rail mounting (With DIN rail)			
0	DIN rail mounting (Without DIN rail)			
3	For 3 stations			
:	÷	Specify a longer rail than the standard length.		
16	For 16 stations	the standard lefigth.		

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

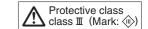


Rugin Connector Connecting Base 25A-JSY3000 Series

How to Order Manifold Assembly



are the same as those of the standard model.



Plug-in Connector Connecting Base

EX260

25A-JSY3000 Series RoHS

Internal Pilot

Type 10 Side Ported

How to Order Manifolds

U side (2 to 10 stations)

D side (2 to 10 stations)

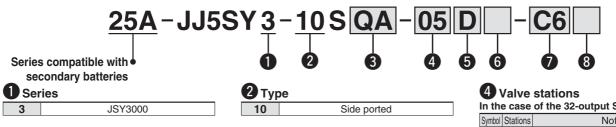
Both sides (2 to 16 stations)

Internal pilot

Internal pilot, Built-in silencer 3/5(E) port is plugged for the built-in silencer

When the built-in silencer type is used, keep

the exhaust port from coming in direct contact



5 P, E port entry

6 SUP/EXH block assembly

with water or other liquids.

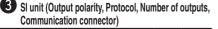
U

D

В

S

type



Symbol (Ou	tput polarity)		Number	Communication
Positive common (NPN)	Negative common (PNP)	Protocol	of outputs	connector
0	*1	Without	SI unit	
QA	QAN	DeviceNet™	32	M12
QB	QBN	Devicemet	16	
NA	NAN	PROFIBUS	32	M12
NB	NBN	DP	16	
VA	VAN	CC-Link	32	M12
VB	VBN	CC-LINK	16	
DA	DAN	EtherCAT	32	M12
DB	DBN	Elliercat	16	IVIIZ
FA	FAN	PROFINET	32	M12
FB	FBN	FROMINET	16	IVI I Z
EA	EAN	EtherNet/IP™	32	M12
EB	EBN	Luienvel/IF ····	16	10112

Without SI unit, the output polarity is decided by the SI unit used. Ensure a match with the common

specification of the valves to be used.

* DIN rail cannot be mounted without SI unit.

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

Symbol	A, B port		
C6	Straight	Ø 6	
C8		Ø 8	
CM *1		Straight port, mixed sizes	08
(P, E port size (One-touch fittings)		

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

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

In the case of the 32-output SI unit

Symbol	Stations	Note				
02	2 stations					
1	÷	Double wiring ^{*1}				
16	16 stations					

In the case of the 16-output SI unit

	in the case of the ro-output of this				
Symb	ol Stations	Note			
02	2 2 stations				
:	:	Double wiring ^{*1}			
30	8 stations				
02	2 2 stations	0			
:	:	Specified layout*2 (Up to 16 solenoids available)			
16	5 16 stations	(Op to 16 soleriolds available)			

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

8 Mounting and Option

Symbol	Mounting
—	Direct mounting
D	DIN rail mounting

- ∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to the Catalogue at www.smc.eu for the fixation of DIN rail mounting type manifold.
- * DIN rail mounting (DD) is not available for the product without the SI unit (S0).

DIN Rail Option

	DIN rail mounting (With DIN rail)			
0	DIN rail mounting (Without DIN rail)			
3	For 3 stations	0 11 11		
:	:	Specify a longer rail than the standard length.		
16	For 16 stations	ine standard length.		

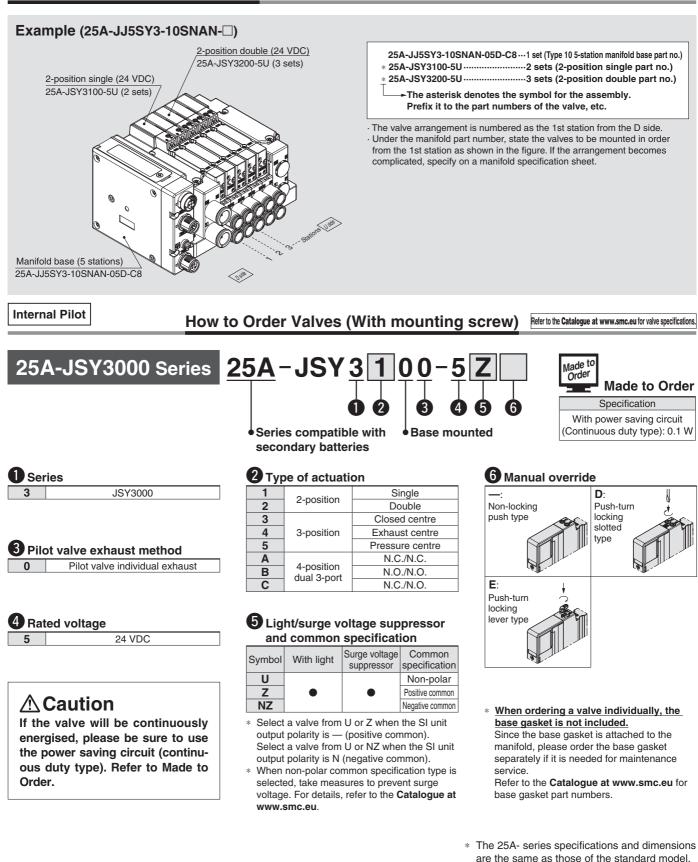
Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to the Catalogue at www.smc.eu for the DIN rail part number.)

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



Rugin Connector Connecting Base 25A-JSY3000 Series

How to Order Manifold Assembly



Protective class class II (Mark: (\b))

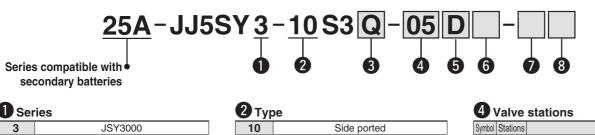
Plug-in Connector Connecting Base

Type 10 Side Ported

25A-JSY3000 Series (E RoHS

Internal Pilot

How to Order Manifolds



EX120

B si	unit
-------------	------

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

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

10	Side ported	

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)
В	Both sides (2 to 16 stations)

6 SUP/EXH block

-	
_	Internal pilot
S	Internal pilot, Built-in silencer

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

Symbol	Stations	Note	
02	2 stations		
:	÷	Double wiring ^{*1}	
08	8 stations		
02	2 stations	0	
:	:	Specified layout*2 (Up to 16 solenoids available)	
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 blanking plates.

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

Symbol	A, B port		
C6		Ø 6	
C8	Straight	Ø 8	
CM *1		Straight port, mixed sizes	08
(P, E port size (One-touch fittings)		Ø 10

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

8 Mounting and Option

Symbol	Mounting	
—	Direct mounting	
D	DIN rail mounting	

- * Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to the **Catalogue at www.smc.eu** for the fixation of DIN rail mounting type manifold.

DIN Rail Option

	DIN reil me	unting (Mith DIN weil)
—	Din rai mo	unting (With DIN rail)
0	DIN rail mounting (Without DIN rail)	
3	For 3 stations	
:		Specify a longer rail that the standard length.
16	For 16 stations	the standard length.

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

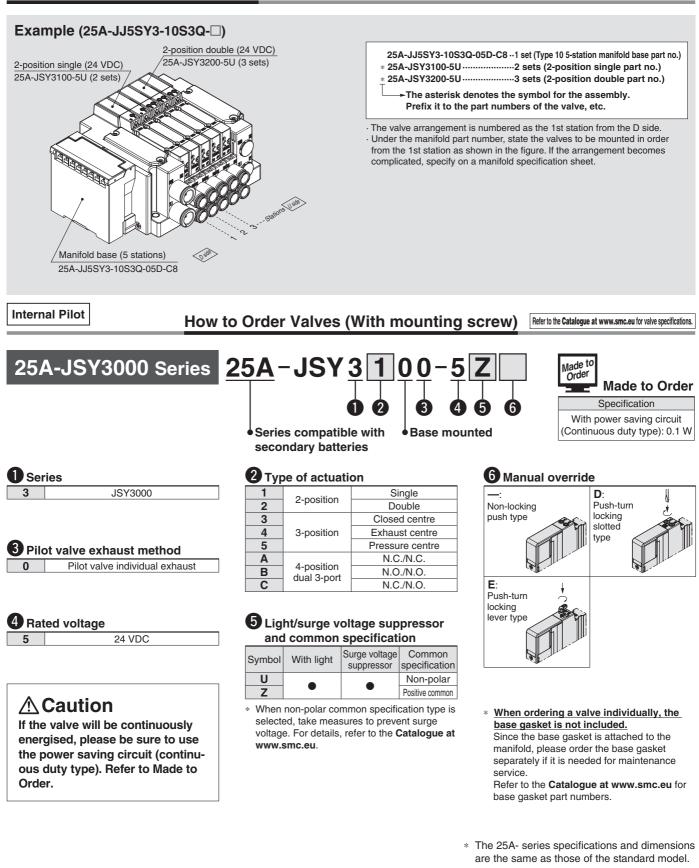
* The 25A- series specifications and dimensions are the same as those of the standard model.

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

SMC

Plug-in Connector Connecting Base 25A-JSY3000 Series

How to Order Manifold Assembly





25A-JSY3000 Series Manifold Options

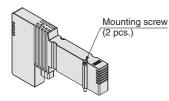
Blanking plate assembly

(With two mounting screws)

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



25A - JSY <u>3</u> 1M - 26P - 1A Series• <u>3</u> JSY3000



SI Unit Part Nos.

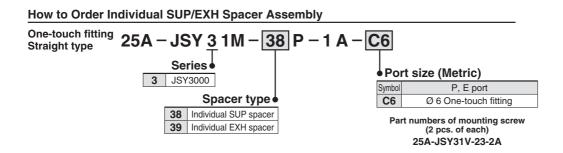
Description	SI unit part no.	Note
	EX260-SPR1-X117	PROFIBUS DP M12 connector, 32 outputs, Negative common (PNP)
	EX260-SPR2-X117	PROFIBUS DP M12 connector, 32 outputs, Positive common (NPN)
	EX260-SPR3-X117	PROFIBUS DP M12 connector, 16 outputs, Negative common (PNP)
	EX260-SPR4-X117	PROFIBUS DP M12 connector, 16 outputs, Positive common (NPN)
	EX260-SDN1-X117	DeviceNet [™] M12 connector, 32 outputs, Negative common (PNP)
	EX260-SDN2-X117	DeviceNet [™] M12 connector, 32 outputs, Positive common (NPN)
	EX260-SDN3-X117	DeviceNet [™] M12 connector, 16 outputs, Negative common (PNP)
	EX260-SDN4-X117	DeviceNet [™] M12 connector, 16 outputs, Positive common (NPN)
	EX260-SEC1-X117	EtherCAT M12 connector, 32 outputs, Negative common (PNP)
	EX260-SEC2-X117	EtherCAT M12 connector, 32 outputs, Positive common (NPN)
	EX260-SEC3-X117	EtherCAT M12 connector, 16 outputs, Negative common (PNP)
EX260 SI unit	EX260-SEC4-X117	EtherCAT M12 connector, 16 outputs, Positive common (NPN)
EX200 SI dilit	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	EX126-SMJ1-X220	CC-Link (Terminal block, 16 outputs, Positive common (NPN))
	EX120-SDN1-X220	DeviceNet [™] (Terminal block, 16 outputs, Positive common (NPN))

Valve Mounting Screw Part No.

Description	Part no.	Note	
Description	25A-JJ5SY3		
Round head combination screw	25A-JSY31V-23-1A	Part numbers shown on the left are for 10 valves. (20 pcs.)	

One-touch Fittings Part Nos.

		Port size	25A-JSY3000
A, B	Metric	Ø 6 One-touch fitting (Straight type)	25A-KQSY30-C6
А, Б port	size	Ø 8 One-touch fitting	25A-KQSY30-C8-X1336
		(Straight type)	254 100 100 00 11000
P, E	Metric	Ø 10 One-touch fitting	25A-KQSY31-C10-X1336
port	size	(Straight type)	25A-KQ5151-C10-X1550



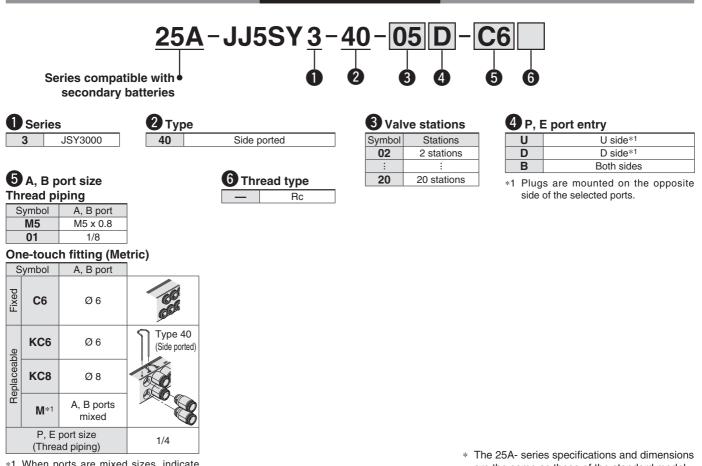


Non Plug-in Metal Base 25A-JSY3000 Series

Internal Pilot

Type 40 Side Ported

How to Order Manifolds

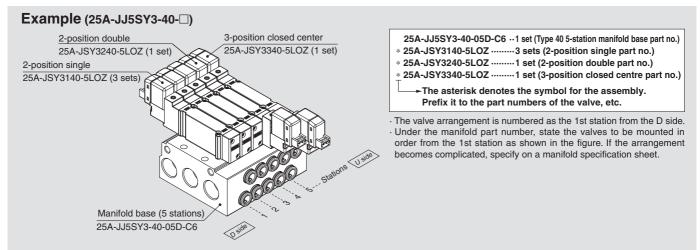


*1 When ports are mixed sizes, indicate the piping specifications on the manifold specification sheet.

are the same as those of the standard model.

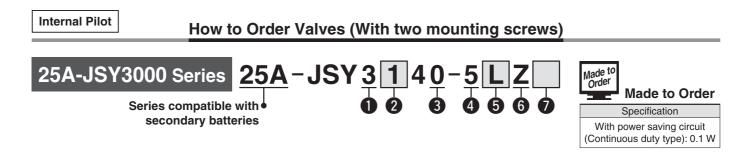
RoHS

How to Order Manifold Assembly



SMC

Non Plug-in Metal Base 25A-JSY3000 Series



U Ser	ies
3	JSY3000

2-position single

2-position double

3-position closed centre

3-position exhaust centre

3-position pressure centre

Dual 3-port (N.C./N.C.)

Dual 3-port (N.O./N.O.)

Dual 3-port (N.C./N.O.)

Pilot valve individual exhaust

24 VDC

B Pilot valve exhaust method

2 Type of actuation

2

3

4

5

Α

B C

0

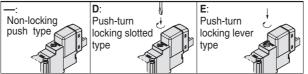
5

5 Electrical entry

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

* Refer to the Catalogue at www.smc.eu for the lead wire length of L and M plug connectors.

Manual override



4 Rated voltage

6 Light/surge voltage suppressor

oupproceer		
7	With light/surge volta	

Z With light/surge voltage suppressor
--

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

Caution

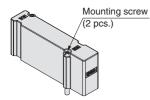
If the valve will be continuously energised, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order.

25A-JSY3000 Series Manifold Options

Blanking plate assembly

(With two mounting screws)

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



How to Order Blanking Plate Assembly



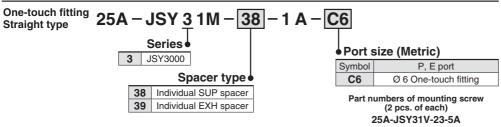
Valve Mounting Screw Part No.

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

One-touch Fittings Part Nos.

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

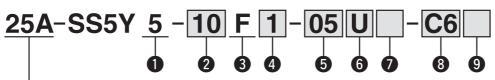
How to Order Individual SUP/EXH Spacer Assembly





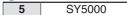


How to Order Manifold



Series compatible with secondary batteries

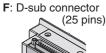
Series



2 Type

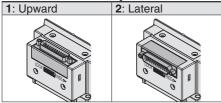
10	Side ported
11	Bottom ported

3 Connector type

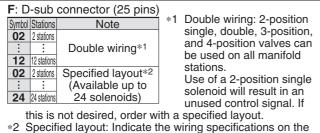




4 Connector entry direction



5 Valve stations



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	
--------------------------	--

S)	
5)	
Both sides (2 to 24 stations)	

SUP/EXH block assembly		
—	Internal pilot	
	Internal nilot	

c	Internal pilot,				
3	Built-in silencer				
* 3/5(E) port is plugged for					

the built-in silencer type.

8 A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000	
C4		Ø 4 One-touch fitting		•	
C6	ligh	Ø 6 One-touch fitting			
C8	itra	Ø 6 One-touch fitting Ø 8 One-touch fitting			
CM *1	0)	Straight port, mixed sizes			elenser.
P, E	ро	rt size (One-touch fittings)	Ø 10	Ø 10	

*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.

9 Mounting

Symbol	Mounting	DIN rail option			
	Direct mounting	—	 Standard length 		
—		0		ket (Without DIN rail)	
	DIN rail mounting	3	For 3 stations	Specify a longer rail	
D		:	:	than the total length	
		24	For 24 stations	of specified stations.	

Enter the number of stations inside
. (Refer to "DIN Rail Option" above.)

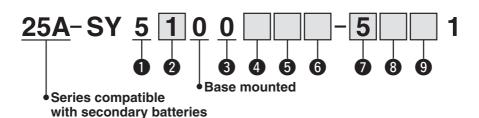
Only direct mounting is available for Type 11 (Bottom ported).

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



Plug-in Connector Connecting Base D-sub Connector 25A-SY5000 Series

How to Order Valves (With two mounting screws)



1 Series	
5	SY5000

Type of actuation		
1	2-position single	
2	2-position double	
3	3-position closed centre	
4	3-position exhaust centre	
5	3-position pressure centre	
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

3-position type.

Rubber seal

$(\mathbf{4})$ Back pressure check valve (Built-in valve type)

—	None
Н	Built-in
	ouilt-in valve type back pressure k valve is not available for the

9 Pilot valve option

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

6 Coil type

- Standard Т With power saving circuit (Continuous duty type)
- Be sure to select the power saving circuit type when the valve is continuously
- energised for long periods of time. Be careful of the energising time when the power saving circuit is selected. For details, refer to the standard product catalogue.

Rated voltage

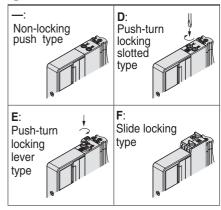
5	24 VDC
6	12 VDC

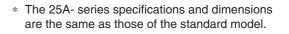
8 Light/surge voltage suppressor and common specification

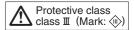
Without light/surge voltage suppres (Non-polar)	
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ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

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

9 Manual override

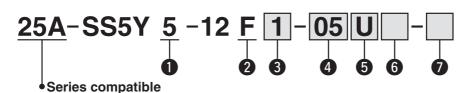






Plug-in Connector Connecting Base D-sub Connector **C C C U**s **25A-SY5000 Series RoHS**

How to Order Manifold

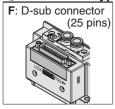


1 Series

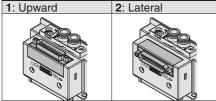
with secondary batteries



2 Connector type



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	
:	:	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.

5 P, E port entry

· · · ·	_ point on in j	
U *1	U side (2 to 10 stations)	
D *1	D side (2 to 10 stations)	
В	Both sides (2 to 24 stations)	

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

6 SUP/EXH block assembly

_	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.)

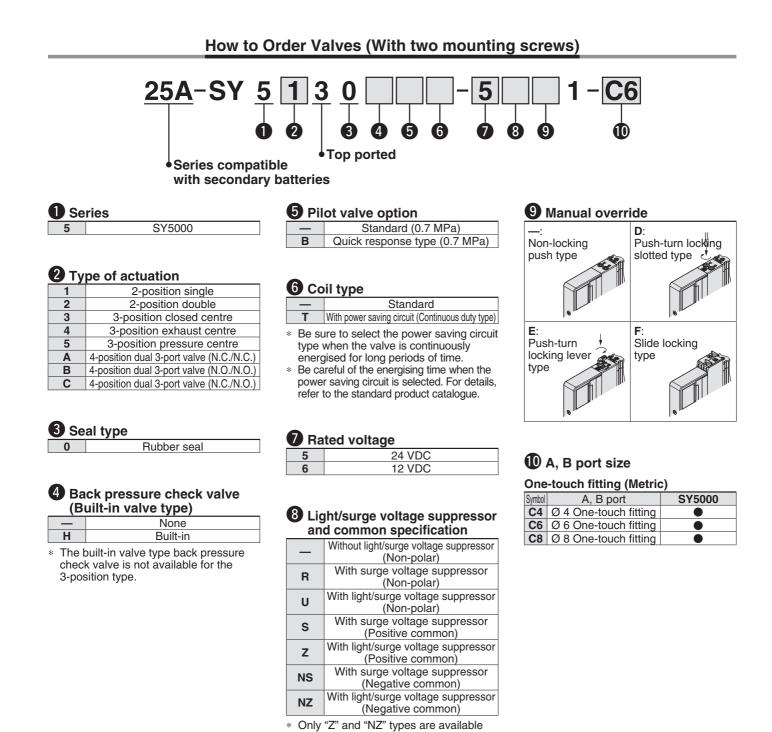
Mounting

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

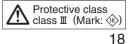
* The 25A- series specifications and dimensions are the same as those of the standard model.



Plug-in Connector Connecting Base D-sub Connector 25A-SY5000 Series



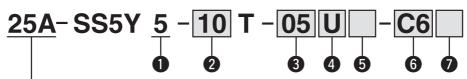
* The 25A- series specifications and dimensions are the same as those of the standard model.



for the product with power saving circuit.



How to Order Manifold



Series compatible with secondary batteries

*

1 Se	ries
5	SY5000

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

- 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

S

Symbol	Mounting	
_	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

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

6 A, B port size (Metric)

Symbol	A, B port		Side ported	Bottom ported	
			SY5000	SY5000	
C 4	÷	Ø 4 One-touch fitting			
C6	ligh	Ø 6 One-touch fitting			
C 8	Ø 8 One-touch fitting				2 Cont
CM*1	¹ Straight port, mixed sizes				A STATE
P, E port size (One-touch fittings)		Ø 10	Ø 10		

*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.

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

A . . .

2 Type

10

11

3	5 Valve stations				
Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring* ¹			
10	10 stations				
02	2 stations	Specified lawout*2			
:	:	Specified layout*2			
20	20 stations	(Available up to 20 solenoids			

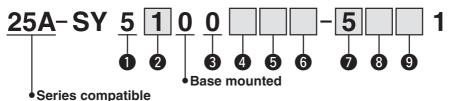
Side ported

Bottom ported

- *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.

Plug-in Connector Connecting Base Terminal Block Box 25A-SY5000 Series





with secondary batteries

0	Se	rie	S

3 Seal type

3-position type.

0

(4)

н

SY5000

Dilot valve option

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

2 Type of actuation

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

Rubber seal

None

Built-in

Back pressure check valve

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

(Built-in valve type)

6 Coil type

Standard With power saving circuit (Continuous duty type)

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

Rated voltage

5	24 VDC
6	12 VDC

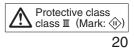
8 Light/surge voltage suppressor and common specification

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

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

9 Manual override D: Non-locking Push-turn push type locking slotted type E: E: Slide locking type Push-turn locking lever type

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



Plug-in Connector Connecting Base Terminal Block Box (C Star Stress St

How to Order Manifold



Series compatible with secondary batteries

1 Series		
5	SY5000	

B P, E port entry

ype 12 op Ported

U *1	U side (2 to 10 stations)
D *1	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

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

SUP/EXH block assembly

-	Internal pilot
3	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.

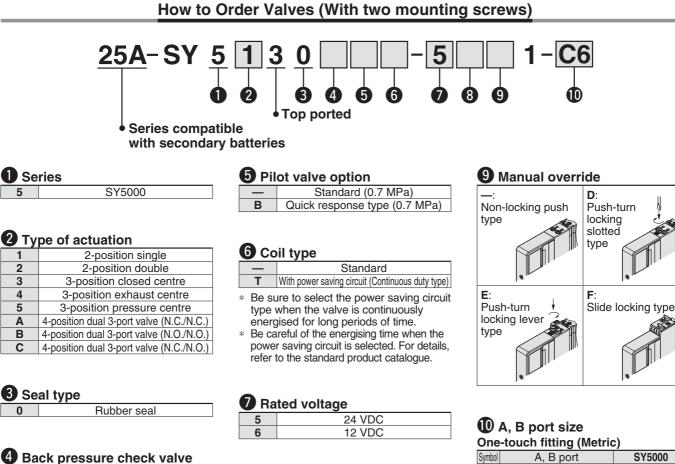
6 Mounting

S

<u> </u>			
—	Direct mounting		
D	DIN rail mounting (With DIN rail)		
D0	DIN rail mounting (Without DIN rail)		
D3	For 3 stations Specify a longer rail		
:	:	than the standard	
D20	For 20 stations	length.	

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

Plug-in Connector Connecting Base Terminal Block Box 25A-SY5000 Series



Back pressure check valve (Built-in valve type)

	— None	
H Built-in		Built-in
*	checl	puilt-in valve type back pressure k valve is not available for the sition type.

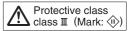
8 Light/surge voltage suppressor and common specification

К	n surge voltage suppressor (Non-polar) ight/surge voltage suppressor (Non-polar)
U With I	
	(
s ^{With}	n surge voltage suppressor (Positive common)
z With I	ight/surge voltage suppressor (Positive common)
NS With	n surge voltage suppressor (Negative common)
NZ With I	ight/surge voltage suppressor (Negative common)

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

Symbol A, B port		SY5000			
C4	Ø 4 One-touch fitting				
C6	Ø 6 One-touch fitting				
C 8	Ø 8 One-touch fitting				

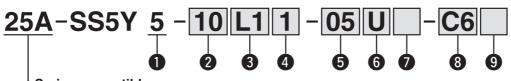
*	The 25A- series specifications and dimensions
	are the same as those of the standard model.



SMC	Ø.	SN	/(C
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How to Order Manifold



 Series compatible with secondary batteries



3 Number of cores

(Lead wire)				
L1	34 cores			
L2	17 cores			
L3	9 cores			

2	Гуре
---	------

10	Side ported
11	Bottom ported

4 Lead wire length

1	0.6 m
2	1.5 m
3	3 m

5 Valve stations

(L1□)				(L3□)			
Symbo	Stations	Note		Symbol	Stations	Note	
02	2 stations			02	2 stations		
:	:	Double wiring*1		:	:	Double wiring*1	
16	16 stations			04	4 stations		
02	2 stations	Specified layout*2		02	2 stations	Specified layout*2	
:	:	Available up to		:	:	(Available up to	
24	24 stations	32 solenoids)		08	8 stations	8 solenoids)	

(12	
L		_,

	_/		
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

• • • ,	E port citti y
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

 Internal pilot 	
S Internal pilot, Built-in silence	r

- * 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	
			010000	010000	
C4		Ø 4 One-touch fitting			
C6	lgh	Ø 6 One-touch fitting			
C 8	Stra	Ø 8 One-touch fitting			
CM*1	0)	Straight port, mixed sizes			al Bassie
P, E port size (One-touch fittings)		Ø 10	Ø 10		

- *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.

9 Mounting

Symbol	Mounting
—	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**

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

* 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

How to Order Valves (With two mounting screws) 25A-SY 5 1 O З 4 6 Base mounted

Series compatible with secondary batteries

🚺 Se	ries
E	

SY5000

5 Pilot valve option

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

> Standard With power saving circuit (Continuous duty type)

6 Coil type

*

2 Type of actuation		
1	2-position single	
2	2-position double	
3	3-position closed centre	
4	3-position exhaust centre	
5	3-position pressure centre	
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 0

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

—	None
Н	Built-in
	ouilt-in valve type back pressure

check valve is not available for the 3-position type.

energised for long periods of time. Be careful of the energising time when the

power saving circuit is selected. For details, refer to the standard product catalogue.

Be sure to select the power saving circuit

type when the valve is continuously

Rated voltage

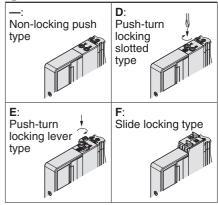
5	24 VDC
6	12 VDC

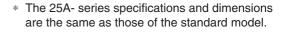
8 Light/surge voltage suppressor and common specification

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

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

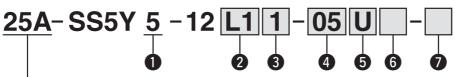
9 Manual override





Plug-in Connector Connecting Base Lead Wire 25A-SY5000 Series ROHS

How to Order Manifold



Series compatible with secondary batteries

Series

-	
5	SY5000

ype 12 op Ported

2 Number of cores

(Lead wire)	
L1	34 cores
L2	17 cores
L3	9 cores

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

4 Valve stations

(L1	⊐)		(L3)	⊐)	
Symbol	Stations	Note	Symbol	Stations	Note
02	2 stations		02	2 stations	
:	÷	Double wiring*1	:	÷	Double wiring*1
16	16 stations		04	4 stations	
02	2 stations	Specified layout*2	02	2 stations	Specified layout*2
÷	÷	(Available up to	:	:	Available up to
24	24 stations	32 solenoids)	08	8 stations	8 solenoids)
(L2	□)				
Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring*1			
08	8 stations	-			
02	2 stations	Specified layout*2			

16 16 stations Double wiring: 2-position single, double, 3-position, and *1 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.

Available up to

16 solenoids)

- *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.

G P F port entry

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

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

6 SUP/EXH block assembly

—	Internal pilot
0	The second se

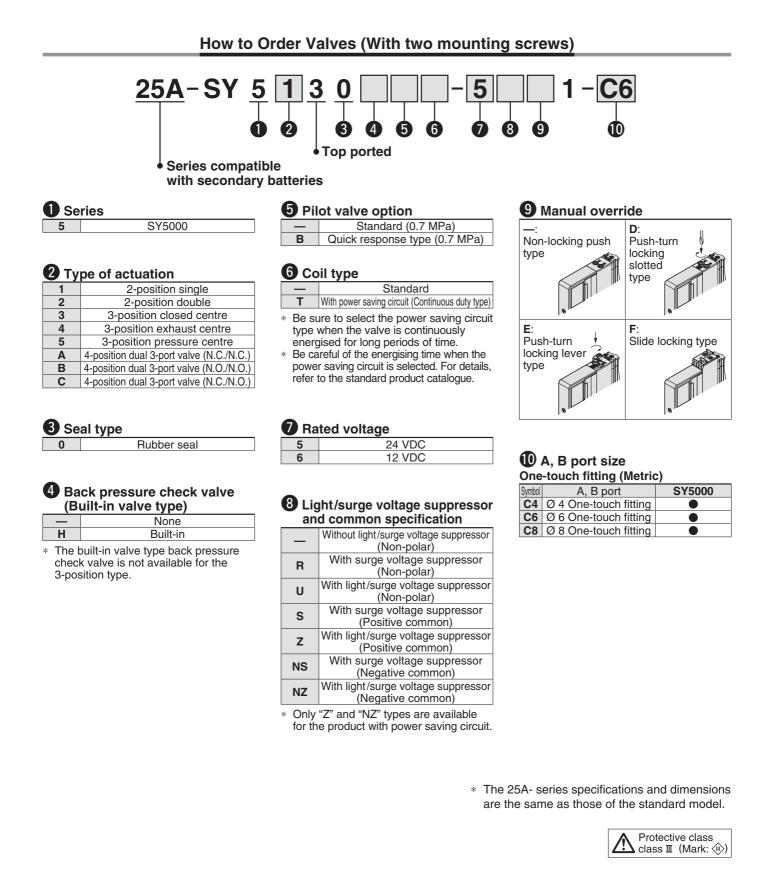
- S Internal pilot, Built-in silencer
- For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)
-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

7 Mounting

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

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

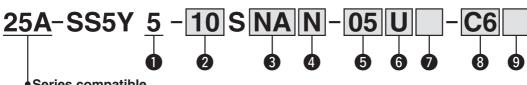
Plug-in Connector Connecting Base Lead Wire 25A-SY5000 Series



SMC

Type 10 Side Ported Type 11 Bottom Ported Plug-in Connector Connecting Base (EX260 25A-SY5000 Series RoHS

How to Order Manifold



 Series compatible with secondary batteries

1 Se	ries
5	SY5000

2 Ту	ре	
10	Side ported	
11	Bottom ported	

3 SI unit specifications

Symbol	Protocol	Number of	Communication
Symbol	FIOLOCOI	outputs	connector
0	Wi	thout 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	IVITZ
DB		16	
FA	PROFINET	32	
FB		16	
EA	EtherNet/IP™	32	
EB		16	

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

4 SI unit output polarity

—	Positive common
Ν	Negative common

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

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	Specified loveut*2	
:	:	Specified layout*2 (Available up to 32 solenoids)	
24	24 stations		

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
08	8 stations	_
02	2 stations	Creation lowert*2
:	:	Specified layout*2 (Available up to 16 solenoids)
16	16 stations	(Available up to To soleholds)

*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.

6 P, E port entry

• •••	E port chury
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

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

9 Mounting

Symbol	Mounting	
—	Direct mounting	
D	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

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

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

- **8** A, B port size (Metric) Type 10/ Type 11/ Side ported Bottom ported Symbol A, B port SY5000 SY5000 Ø 4 One-touch fitting C4 ල් Ø 6 One-touch fitting **C**6 Ø 8 One-touch fitting **C**8 S CM*1 Straight port, mixed sizes Ø 10 P, E port size (One-touch fittings) Ø 10
- Indicate the sizes on the manifold specification sheet in the case of "CM."

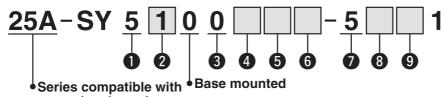
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details about the EX260 Integrated-type (For Output) Serial Transmission System, refer to the Catalogue at www.smc.eu and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 35 in this catalogue. Please download the Operation Manual via our website, https://www.smc.eu



Plug-in Connector Connecting Base 25A-SY5000 Series

How to Order Valves (With two mounting screws)



secondary batteries

1 Se	ries
5	SY5000

2 Type of actuation

0

Giy	pe of actuation	
1	2-position single	
2	2-position double	
3	3 3-position closed centre	
4	3-position exhaust centre	
5	3-position pressure centre	
Α	A 4-position dual 3-port valve (N.C./N.C.)	
B 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

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

—	None
Н	Built-in
* The b	ouilt-in valve type back pressure

check valve is not available for the 3-position type.

Dilot valve option

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

6 Coil type

Rated voltage

5

- Standard With power saving circuit (Continuous duty type)
- Be sure to select the power saving circuit type when the valve is continuously
- energised for long periods of time. Be careful of the energising time when the power saving circuit is selected. For details,
- refer to the standard product catalogue.

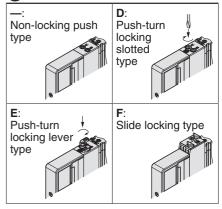
24 VDC

8 Light/surge voltage suppressor and common specification

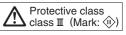
R	With surge voltage suppressor (Non-polar)
U With light/surge voltage suppres (Non-polar)	
S With surge voltage suppress (Positive common)	
z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

- Select a valve from "R," "U," "S" or "Z" * when the SI unit output polarity is -(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

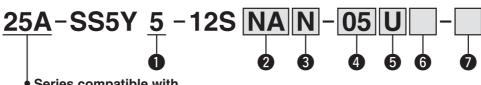


* The 25A- series specifications and dimensions are the same as those of the standard model.



Plug-in Connector Connecting Base EX260 (C Starson Series Rolls) 25A-SY5000 Series Rolls)

How to Order Manifold



Series compatible with secondary batteries

1 Series SY5000

Type 12 Top Ported

O SI unit specifications

Symbol	Protocol		Communication
Cymbol	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	IVITZ
DB		16	
FA		32	
FB	PROFINET	16	
EA		32	
EB	EtherNet/IP™	16	

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

3 SI unit output polarity

_	-	
	—	Positive common (NPN)
Ν		Negative common (PNP)
-	Enou	ro a match with the common

 Ensure a match with the common specifications of the value to be used.
 Without Stupit, the symbol is

Without SI unit, the symbol is —

4 Valve stations

In the case of the 32-output SI unit			
Symbol	Stations	ons Note	
02	2 stations		
:	:	Double wiring*1	
16	16 stations	_	
02	2 stations	Orace sifie of levels at *2	
:	:	Specified layout*2 (Available up to 32 solenoids)	
24	24 stations	(Available up to 32 soleriolds)	

In the case of the 16-output SI unit

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring*1	
08	8 stations	_	
02	2 stations	Creating lowert*?	
:	:	Specified layout*2 (Available up to 16 solenoids)	
16	16 stations	(Available up to 16 soleholds)	

*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.

9 P, E port entry

•••	E port ond y
U *1	U side (2 to 10 stations)
D *1	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

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

6 SUP/EXH block assembly

_	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

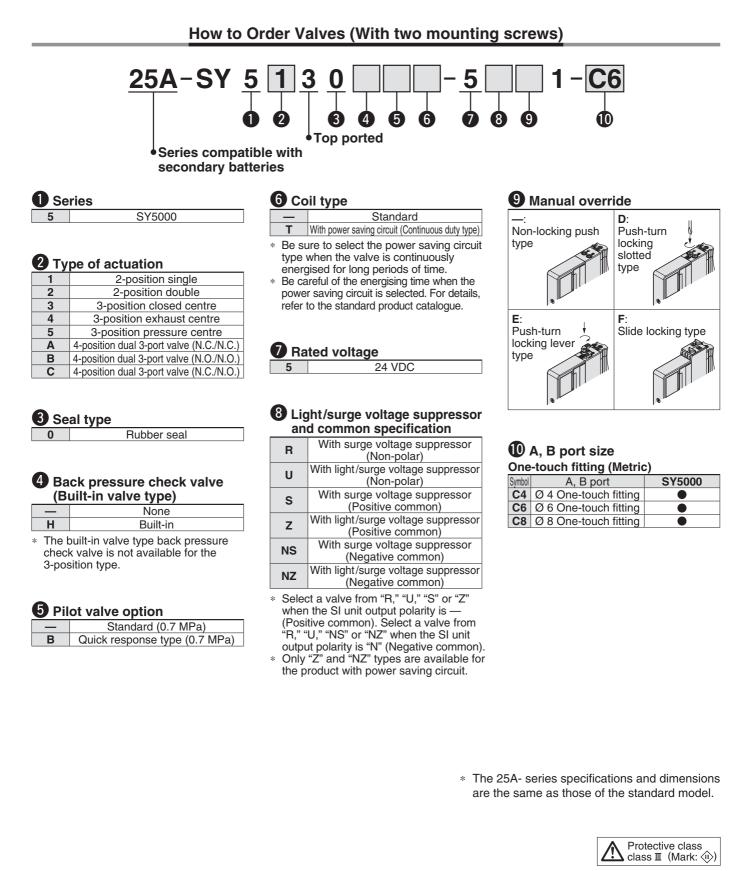
—	Direct mounting		
D	DIN rail mounting (With DIN rail)		
D0	DIN rail mounting (Without DIN rail)		
D3	For 3 stations	Specify a longer	
:		rail than the	
D24	For 24 stations	standard length.	

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

 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 Catalogue at www.smc.eu and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 35 in this catalogue. Please download the Operation Manual via our website, https://www.smc.eu

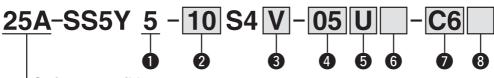
Plug-in Connector Connecting Base 25A-SY5000 Series



SMC

Plug-in Connector Connecting Base [ype 10 **EX126** Side Ported 25A-SY5000 Series RoHS Type 11 **Bottom Ported**

How to Order Manifold



Series compatible with secondary batteries

*

Series		ries
	5	SY5000

9 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

- 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.

A, B port (Metric)

Symbol		A, B port	Type 10/ Side ported SY5000	Type 11/ Bottom ported SY5000	
C 4	+	Ø 4 One-touch fitting			
C6	ビック 6 One-touch fitting				
C 8	Stra	Ø 6 One-touch fitting Ø 8 One-touch fitting			
CM *1	0	Straight port, mixed sizes			al and a state
P, E	po	rt size (One-touch fittings)	Ø 10	Ø 10	

*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 Catalogue at www.smc.eu and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 35 in this catalogue. Please download the Operation Manual via our website, https://www.smc.eu

11

2 Туре

10

B SI	unit
-------------	------

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

Side ported

Bottom ported

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	Specified layout* ² (Available up to 16 solenoids)	
:	:		
16	16 stations	(Available up to 10 soleholds)	

*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.

8 Mounting			
Symbol	Mounting		
_	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

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

Plug-in Connector Connecting Base 25A-SY5000 Series

How to Order Valves (With two mounting screws) 25A-SY 5 1 1 3 (4 **Base mounted** Series compatible with secondary batteries 9 Manual override **5** Pilot valve option SY5000 Standard (0.7 MPa)

2 Type of actuation			
1	2-position single		
2	2-position double		
3	3-position closed centre		
4	3-position exhaust centre		
5	3-position pressure centre		
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

Series

5

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

-	_	None		
H Built-in				
C	* The built-in valve type back pressure check valve is not available for the 3-position type.			

В Quick response type (0.7 MPa)

6 Coil type

- Standard Т
- With power saving circuit (Continuous duty type) Be sure to select the power saving circuit * type when the valve is continuously
- energised for long periods of time. Be careful of the energising time when the power saving circuit is selected. For details, refer to the standard product catalogue.

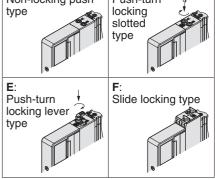
Rated voltage 5 24 VDC

8 Light/surge voltage suppressor and common specification

-	With surge voltage suppressor	
R	(Non-polar)	
U	With light/surge voltage suppressor (Non-polar)	
S	S With surge voltage suppressor (Positive common)	
z	With light/surge voltage suppressor (Positive common)	
<u> </u>	****	

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

D: Non-locking push Push-turn locking



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



Plug-in Connector Connecting Base EX126 (C Sub 25A-SY5000 Series RoHS)

How to Order Manifold



Series compatible with secondary batteries

🚺 Se	ries	
5		SY5000

Type 12

op Ported

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	Creating lowert*?	
:	:	Specified layout*2 (Available up to 16 solenoids)	
16	16 stations	(Available up to 16 soleriolds	

- *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
- *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

•••	_ point officially
U *1	U side (2 to 10 stations)
D *1	D side (2 to 10 stations)
В	Both sides (2 to 16 stations)

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

5 SUP/EXH block assembly

_	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

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

* 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 Catalogue at www.smc.eu and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 35 in this catalogue. Please download the Operation Manual via our website, https://www.smc.eu

How to Order Valves (With two mounting screws)

Plug-in Connector Connecting Base EX126 25A-SY5000 Series

25A-SY 5 **Top ported** Series compatible with secondary batteries Series **5** Pilot valve option 9 Manual override Standard (0.7 MPa) SY5000 D: Quick response type (0.7 MPa) Non-locking push Push-turn locking type 2 Type of actuation slotted 6 Coil type type 2-position single 2-position double Standard 2 3 3-position closed centre With power saving circuit (Continuous duty type) 4 3-position exhaust centre Be sure to select the power saving circuit E: E: 5 3-position pressure centre type when the valve is continuously Slide locking type Push-turn 4-position dual 3-port valve (N.C./N.C.) energised for long periods of time. Α locking lever В 4-position dual 3-port valve (N.O./N.O.) Be careful of the energising time when the type power saving circuit is selected. For details, С 4-position dual 3-port valve (N.C./N.O.) refer to the standard product catalogue. **3** Seal type Rated voltage Rubber seal 24 VDC 5 A, B port size (4) Back pressure check valve 8 Light/surge voltage suppressor **One-touch fitting (Metric)** (Built-in valve type) SY5000 and common specification A, B port Symbol C4 Ø 4 One-touch fitting With surge voltage suppressor None R C6 Ø 6 One-touch fitting Н Built-in (Non-polar) C8 Ø 8 One-touch fitting With light/surge voltage suppressor The built-in valve type back pressure U (Non-polar) check valve is not available for the * The 25A- series specifications With surge voltage suppressor 3-position type. S and dimensions are the same (Positive common) as those of the standard model. With light/surge voltage suppressor 7 (Positive common) Only "Z" type is available for models **▲**Caution with a power saving circuit. Tightening torque for mounting screw M3: 0.8 N·m Manifold Options How to Order Blanking Plate Assembly Blanking plate assembly (With two mounting screws) 25A-SY 5 0M-26-1 A Used when valve additions are expected or for maintenance. A structure is in place on the blanking plate Series to prevent the mounting screws from sliding. 5 SY5000 Mounting screw Base type 1 For plug-in connector connecting base * The 25A- series specifications and dimensions are the same as those of the standard model. 25A-SY50M-26-1A 34 **SMC**

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 [™] M12 connector, 32 outputs, Negative common (PNP)	
	EX260-SDN2-X117	DeviceNet [™] M12 connector, 32 outputs, Positive common (NPN)	
	EX260-SDN3-X117	DeviceNet [™] M12 connector, 16 outputs, Negative common (PNP)	
	EX260-SDN4-X117	DeviceNet [™] M12 connector, 16 outputs, Positive common (NPN)	
	EX260-SEC1-X117	EtherCAT M12 connector, 32 outputs, Negative common (PNP)	
	EX260-SEC2-X117	EtherCAT M12 connector, 32 outputs, Positive common (NPN)	
	EX260-SEC3-X117	EtherCAT M12 connector, 16 outputs, Negative common (PNP)	
EX260 SI unit	EX260-SEC4-X117	EtherCAT M12 connector, 16 outputs, Positive common (NPN)	
EA200 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))	

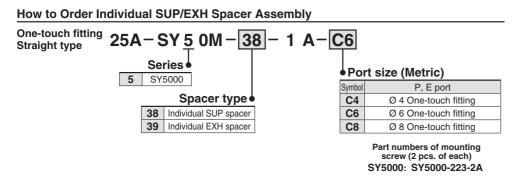
Valve Mounting Screw Part No.

Description	Part no.	Note	
Description	25A-SS5Y5	Note	
Round head	SY5000-223-1A	Part numbers shown on the left	
combination screw	313000-223-1A	are for 10 valves. (20 pcs.)	

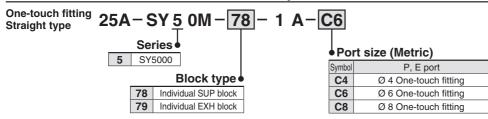
One-touch Fittings Part Nos.

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

Manifold Options

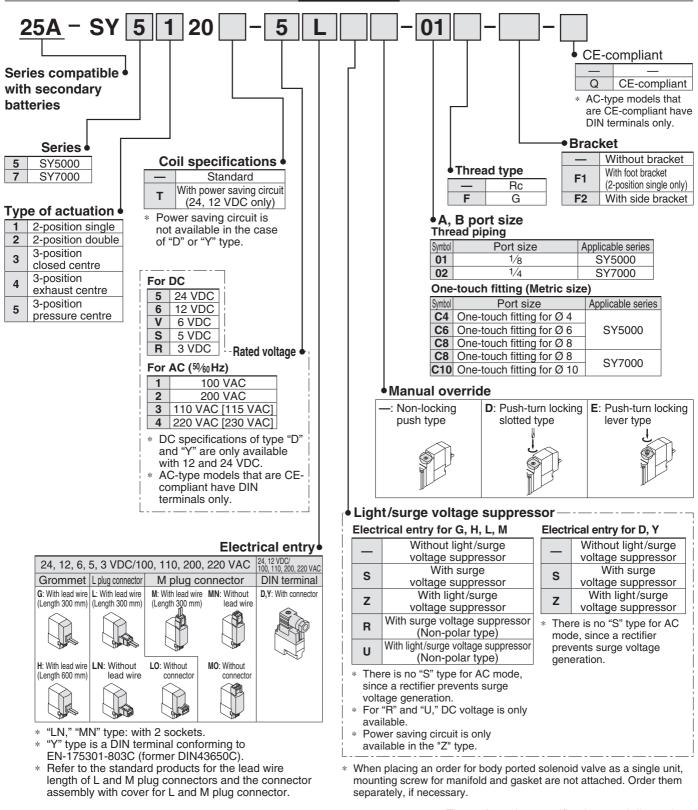


How to Order Individual SUP/EXH Block Assembly



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

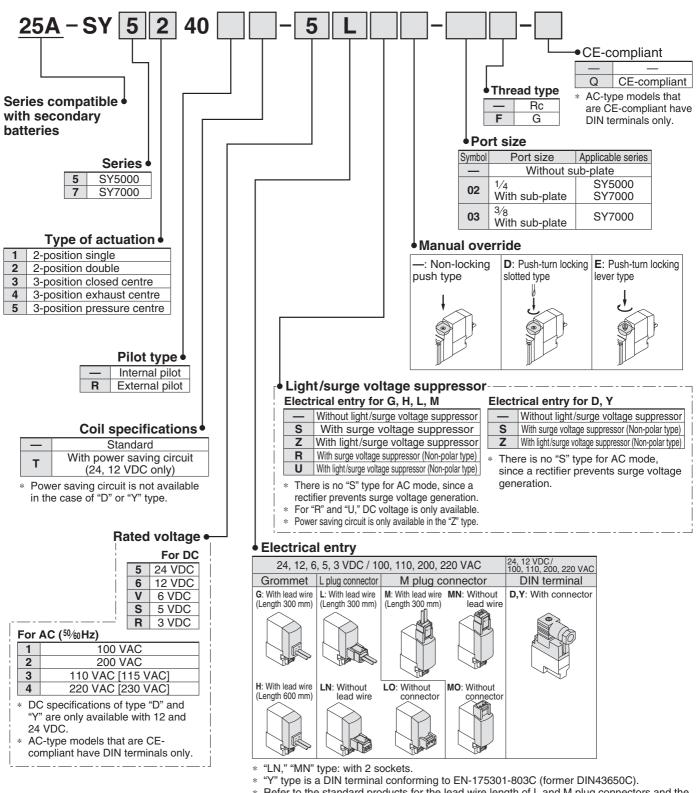
How to Order



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

5-Port Solenoid Valve Base Mounted/Single Unit ^C € ^{RoHS} 25A-SY5000/7000 Series

How to Order



* 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.

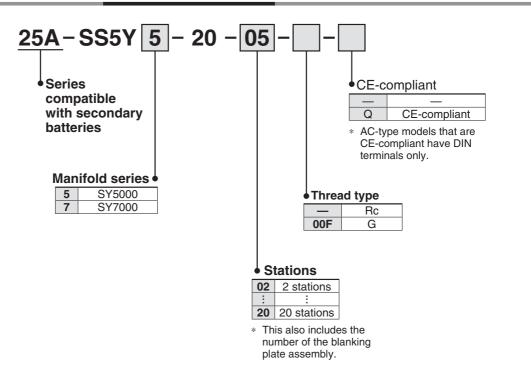
* The 25A- series specifications and dimensions are the same as those of the standard model.



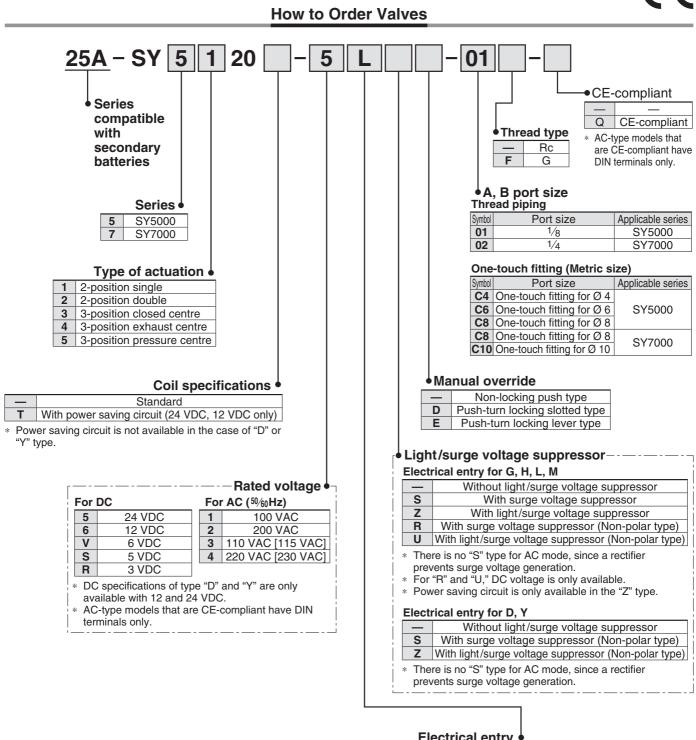
5-Port Solenoid Valve Body Ported Manifold (€ RoHS) Bar Stock Type/Individual Wiring 25A-SY5000/7000 Series

How to Order Manifold

Type **20**



* 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.



		E	lectrical 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)	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	D: With connector Y: With connector

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

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

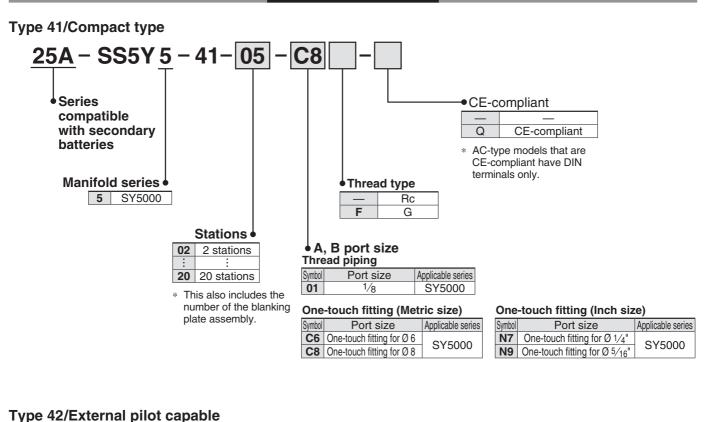
* Refer to the standard products for the lead wire length of L and M plug connectors and the

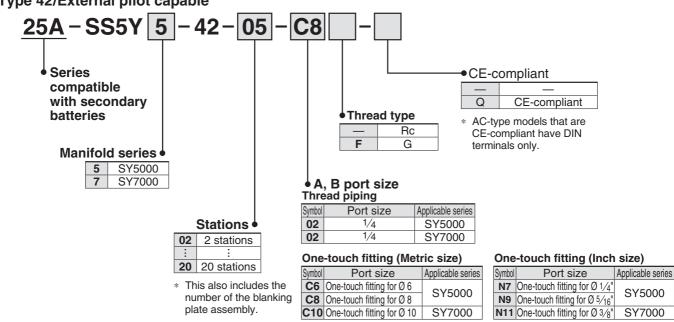
connector assembly with cover for L and M plug connector.

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

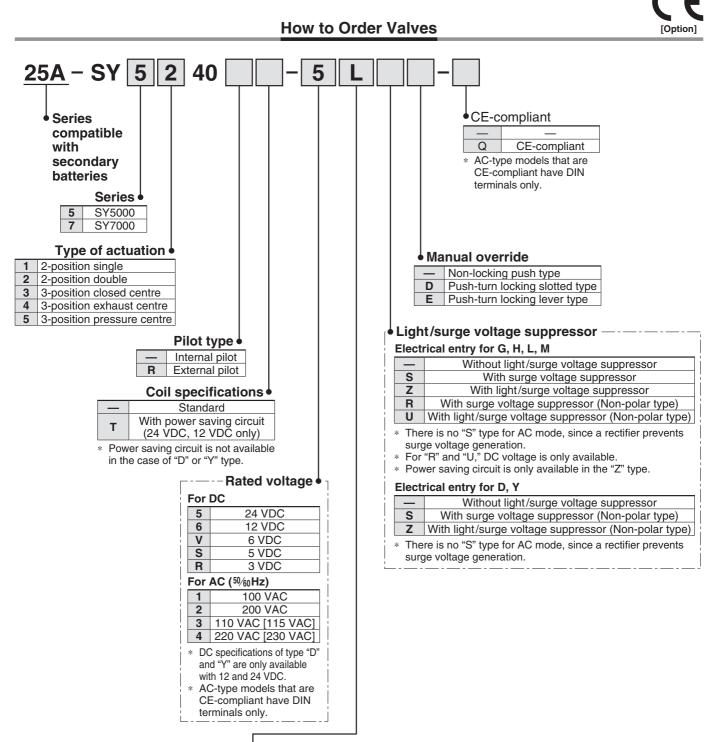


How to Order Manifold





* 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.



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)	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	D: With connector Y: With connector

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

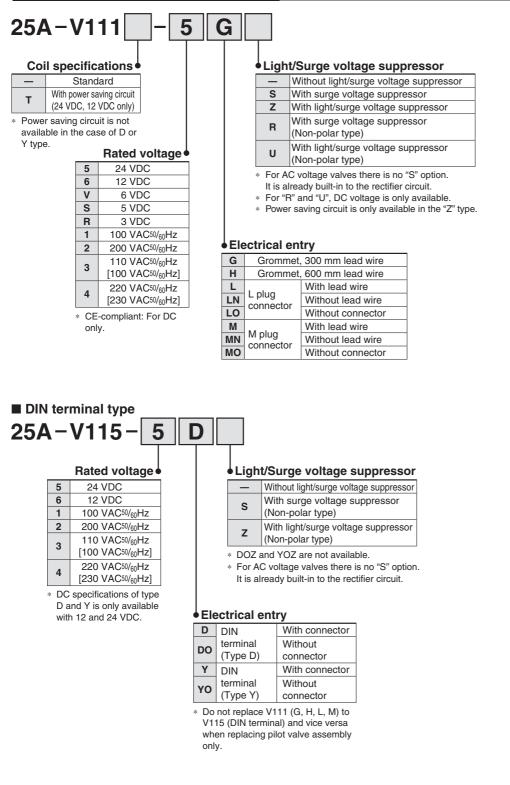
"Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).

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

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



How to Order Pilot Valve Assembly



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

One-touch Fittings Part Nos. for Body Ported

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

Gasket Assembly Part Nos.

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

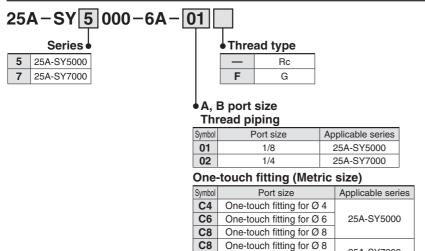
25A-SY7000

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

Bracket Assembly Part Nos.

Description	Part no.	
Bracket (For F1)	25A-SX ⁵ 7000-16-2A (With mounting screw)	
Bracket (For F2)	25A-SX ⁵ 000-16-1A (With mounting screw)	

Port Block Assembly Part Nos.



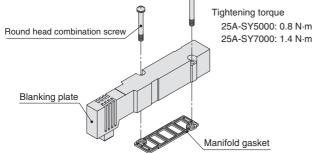
C10 One-touch fitting for Ø 10

Manifold Options

Blanking plate assembly

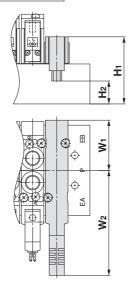
(Mounting screw: 2 pcs., with gasket)

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.



Dimensions

Manifold type/For type 20



25A-SY 5 000-26-1A

7

Series

5 25A-SY5000

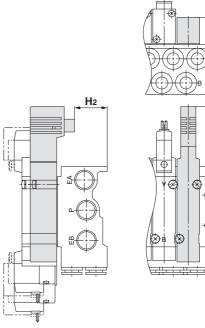
25A-SY7000

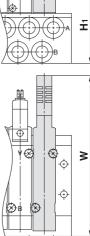
When mounted on a type 20 manifold, only the P port is plugged. In addition, it cannot be used for the type 20 CE-compliant manifold.

Manifold type/For type 41/42

How to Order

▲ Caution

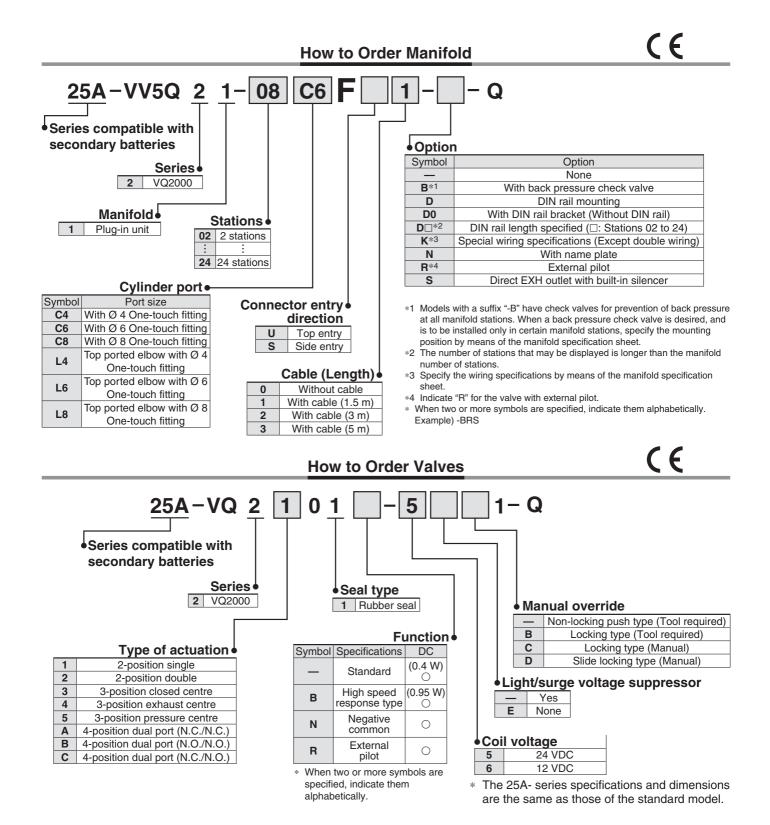




Dimensions [mm					[mm]
Series	Manifold type	W 1	W2	H1	H2
25A-SY5000	Type 20	33.3	69.6	44.5	15.2
25A-SY7000	Type 20	39.4	76.4	41.1	18.3

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

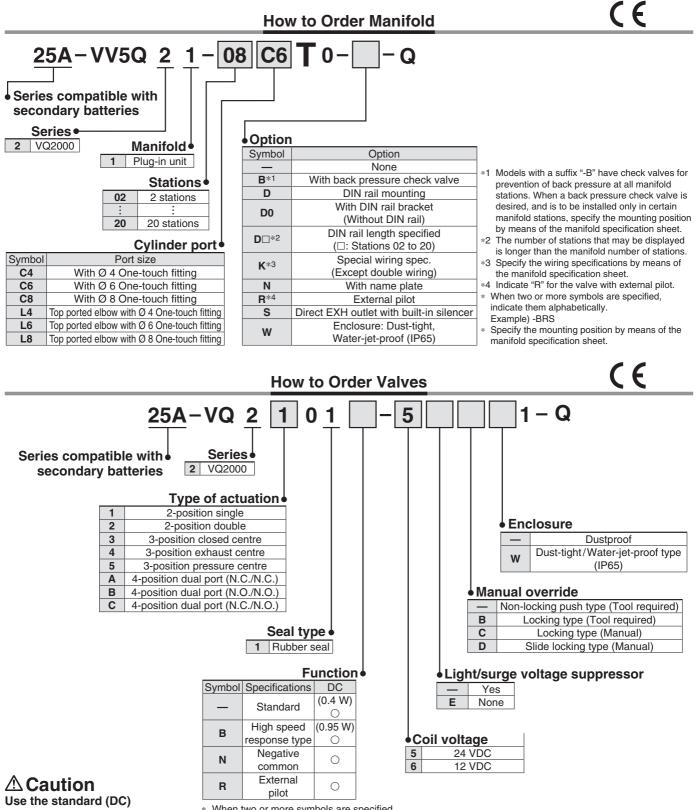
Plug-in Unit/Base Mounted F Kit (D-sub connector kit) 25A-VQ2000 Series



Caution

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

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



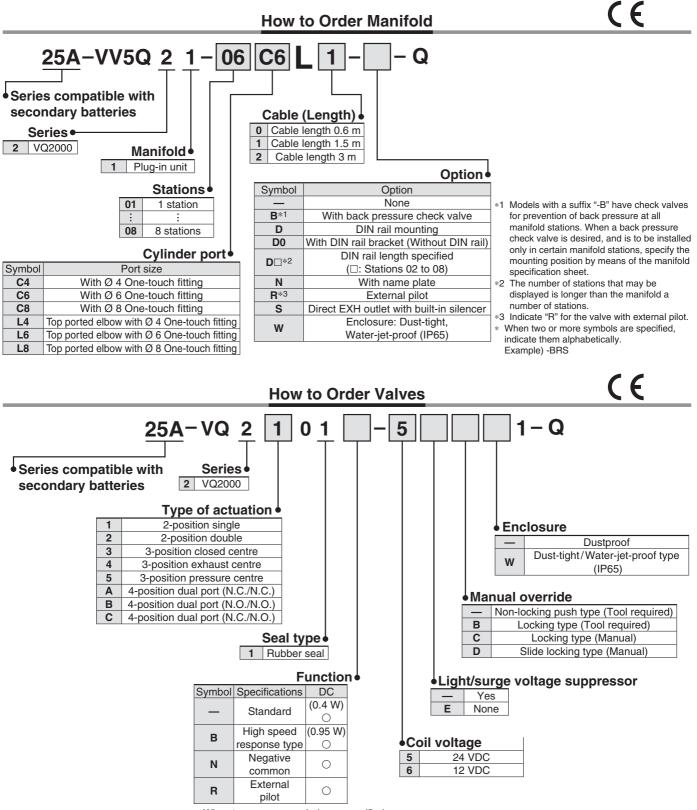
Use the standard (DC) specification when continuously energising for long periods of time.

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

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



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



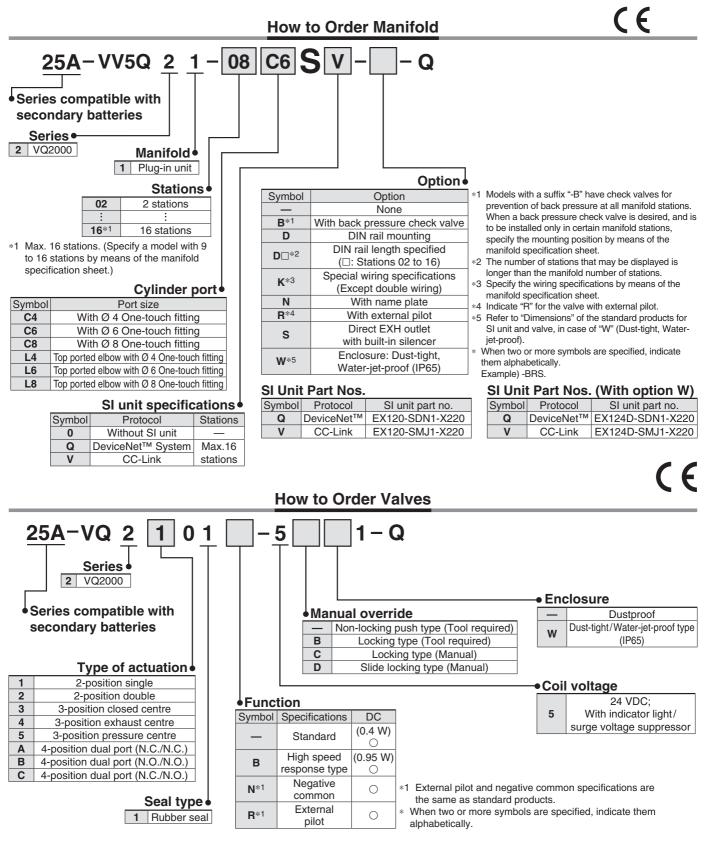
When two or more symbols are specified, indicate them alphabetically.

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

SMC

45

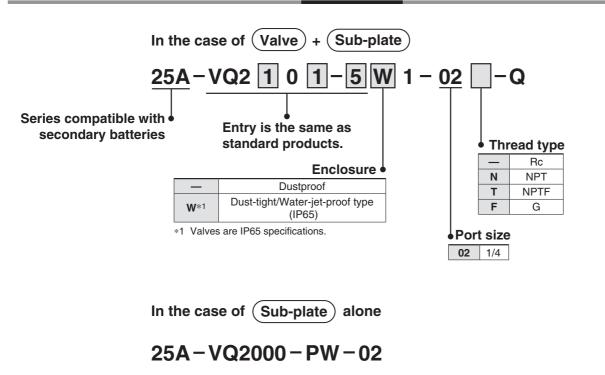
Plug-in Unit/Base Mounted S Kit (Serial transmission) 25A-VQ2000 Series



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

Sub-plate Single Unit 25A-VQ2000 Series

How to Order



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

CE

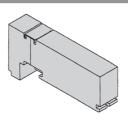
25A-VQ2000 Series

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.

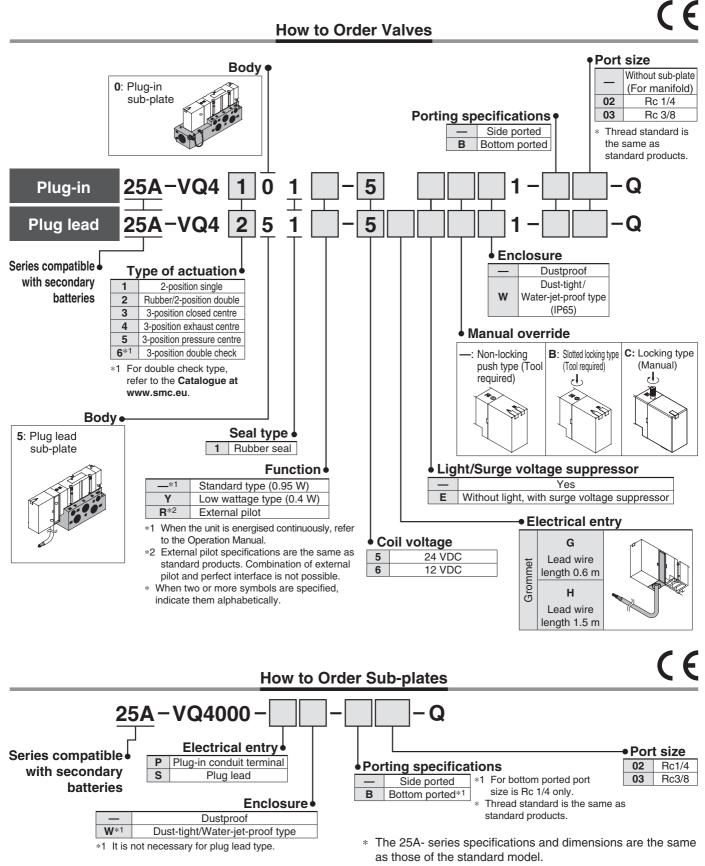
SI Unit Part Nos.

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

One-touch Fittings Part Nos.

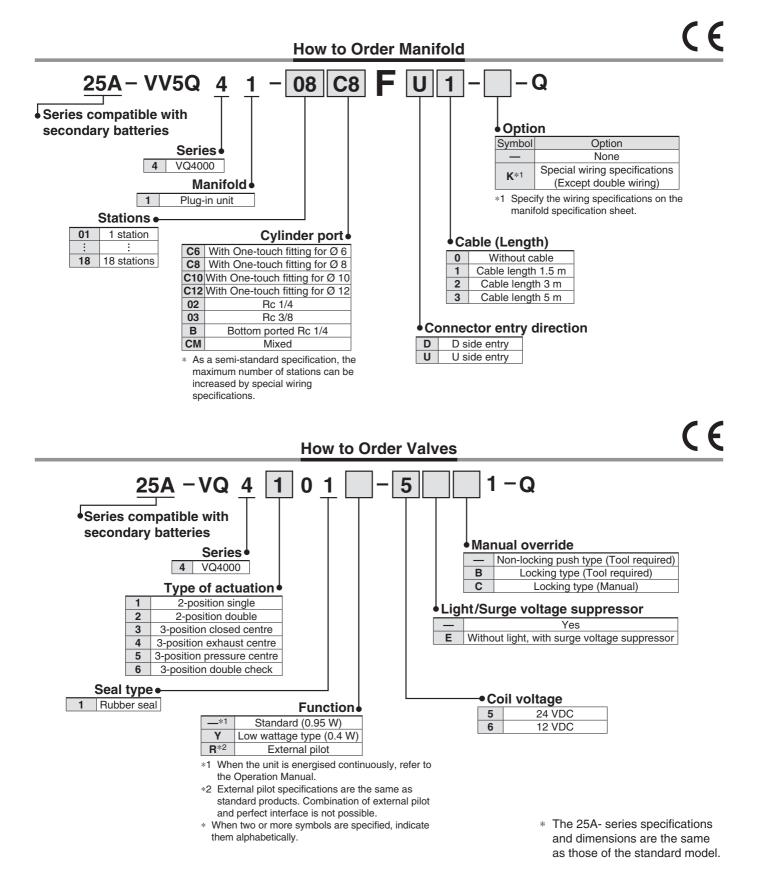
Port size		One-touch fitting part no.	
		Ø 4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
Cylinder port	Metric size	Ø 6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6
	Ø 8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8	
1 (P), 3 (R) port	Metric size	Ø 10 One-touch fitting (Straight type)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

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

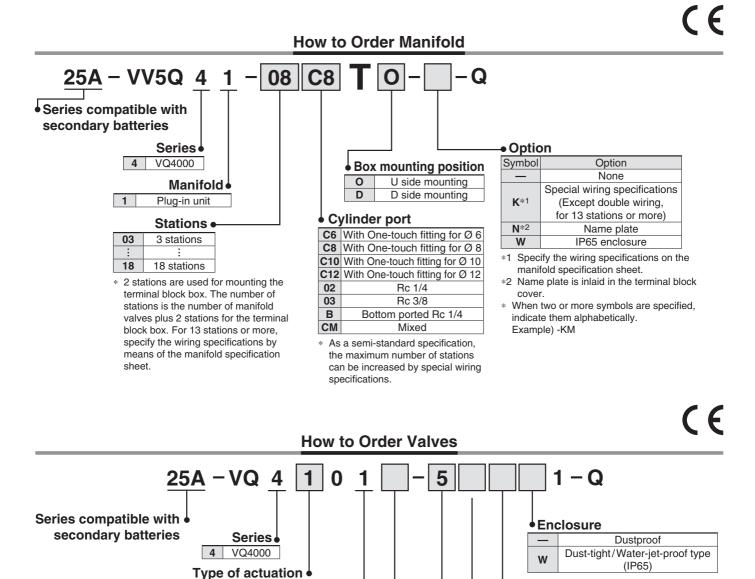


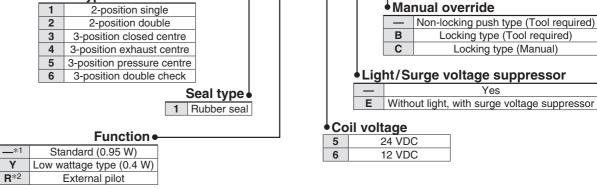
SMC

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



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





When the unit is energised continuously, refer to the *1 Operation Manual

*2 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

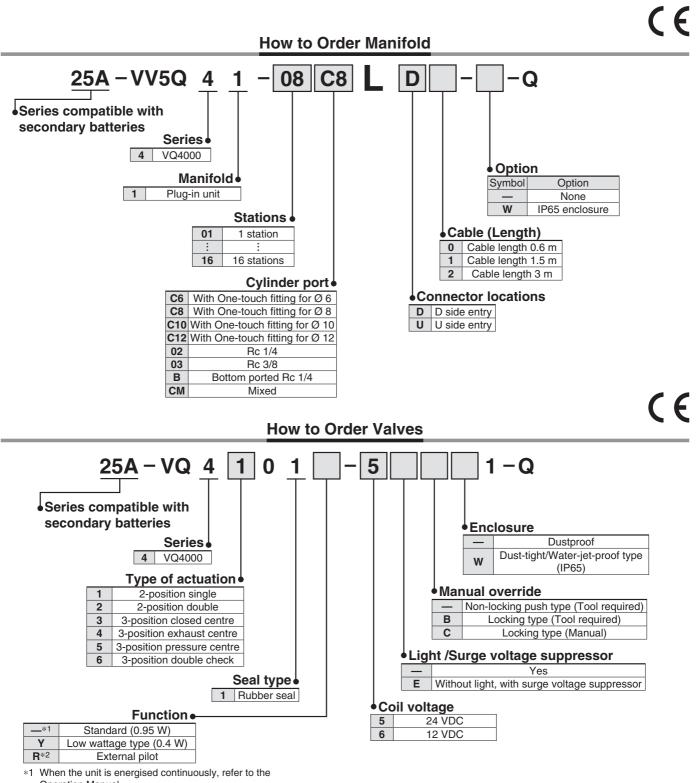
The 25A- series specifications and dimensions are the same as those of the standard model.

Locking type (Tool required)

Locking type (Manual)

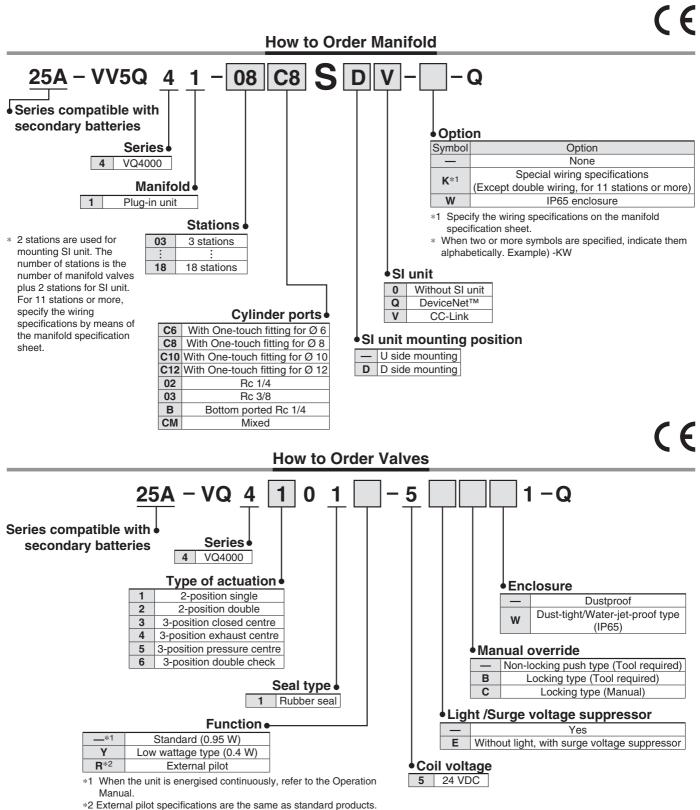
Yes

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



- Operation Manual. *2 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.

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

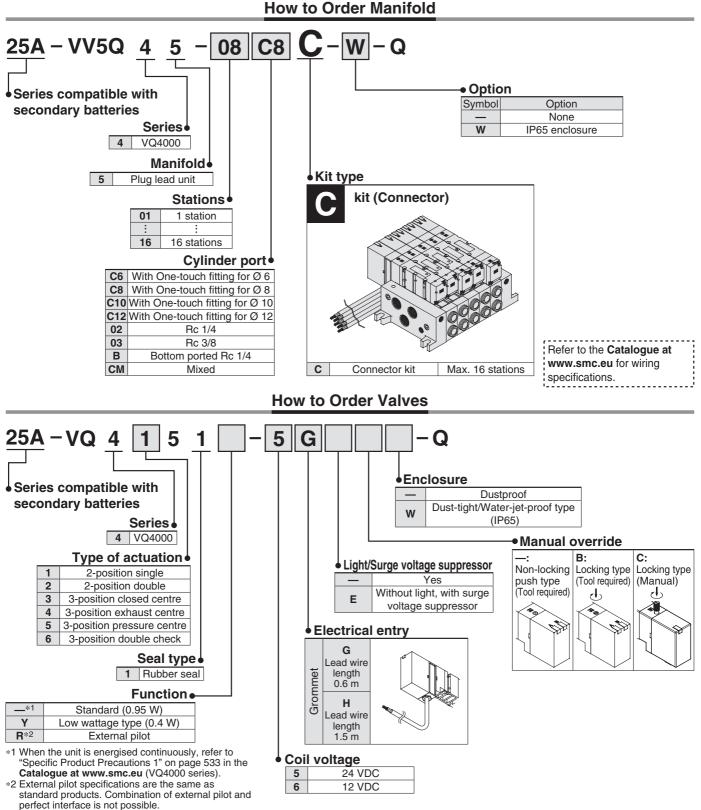


2 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.

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.

Plug Lead Unit/Base Mounted (C Kit (Connector kit) 25A-VQ4000 Series



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.

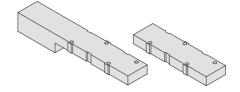
25A-VQ4000 Series

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.

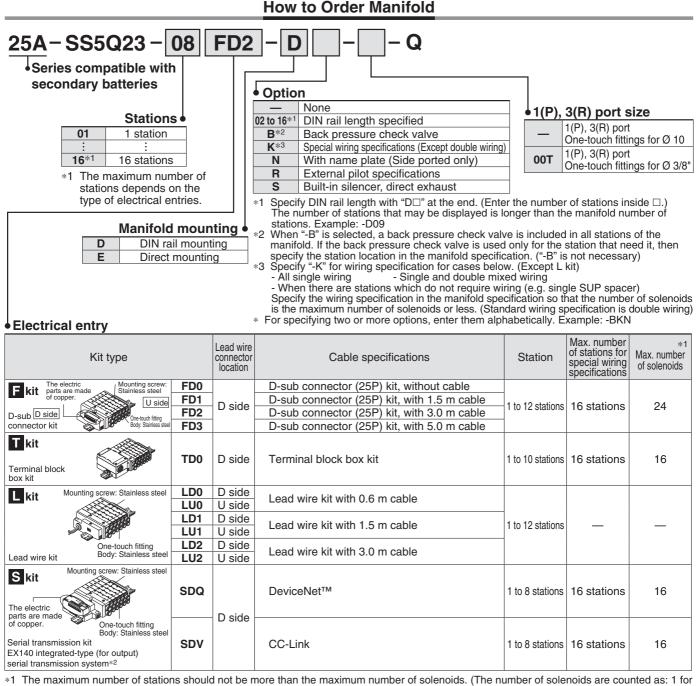
SI Unit Part Nos.

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

One-touch Fittings Part Nos.

Port size		One-touch fittings part no.	
	Ø 6 One-touch fitting (Straight type)	90-VVQ4000-50B-C6	
Culinder port		Ø 8 One-touch fitting (Straight type)	90-VVQ4000-50B-C8
Cylinder port Metric size	Ø 10 One-touch fitting (Straight type)	90-VVQ4000-50B-C10	
		Ø 12 One-touch fitting (Straight type)	90-VVQ4000-50B-C12

Plug-in Unit 25A-SQ2000 Series (E



single solenoids and 2 for type 3P and 4P double solenoids.) *2 Refer to the **Catalogue at www.smc.eu** for the details of EX140 integrated-type (for output) serial transmission system.

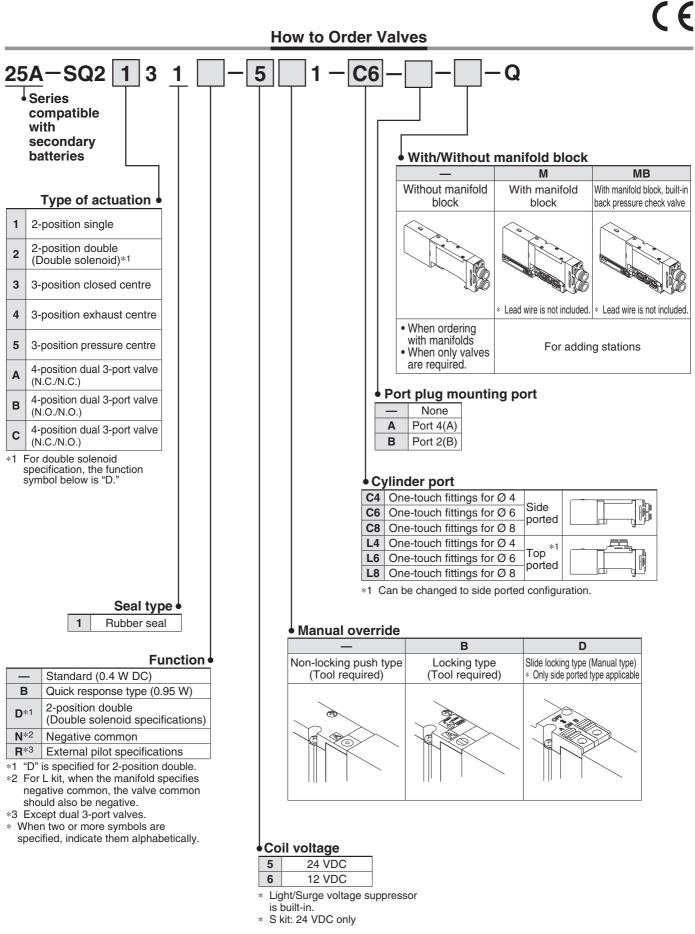
SI unit part nos.

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

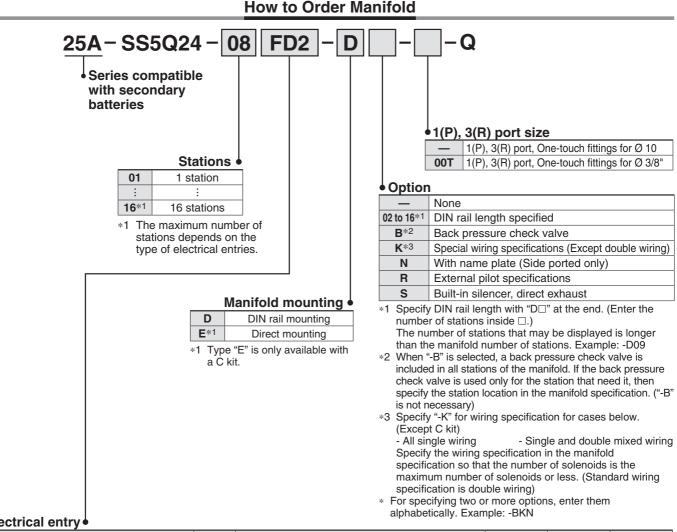
Blanking plate assembly

25A-SSQ2000-10A-3

25A-SQ2000 Series



Plug Lead Unit 25A-SQ2000 Series (€



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

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

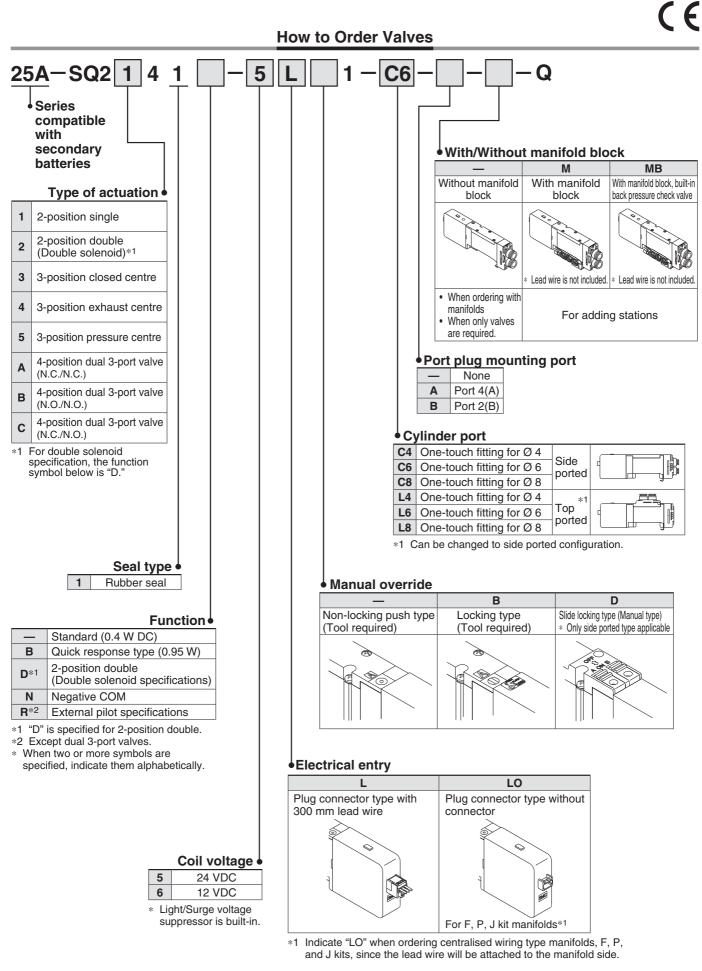
* Refer to the Catalogue at www.smc.eu for manifold spare parts.

Blanking plate assembly

25A-SSQ2000-10A-4



25A-SQ2000 Series



SI Unit Part Nos.

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

One-touch Fittings Part Nos.

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

Base Mounted

Plug Lead Unit

5-Port Solenoid Valve 25A-VQZ1000 Series Single Unit (€

25A-VQZ 1 1 5 1-01-Q 1 5 Series compatible with secondary batteries Series • 1 VQZ1000 body width 10 mm Port size Port size Symbol Type of actuation Without sub-plate 2-position single 1 01 Rc1/8 2 2-position double 3 3-position closed centre Manual override 4 3-position exhaust centre 5 3-position pressure centre -: Non-locking B: Locking type 3-port for mixture mounting N.C. push type 8 (Tool required) 9 3-port for mixture mounting N.O. (Tool required) Body type 5 Base mounted Seal type Electrical entry 1 Rubber seal G: Grommet L: L-type plug LO: L-type plug M: M-type MO: M-type (DC speciconnector connector plug plug fication) with lead without connector connector without wire connector with lead Function wire connector Specifications Symbol DC With light/ With light/ With light/ With light/ (0.35 W) Standard surge voltage surge voltage surge voltage surge voltage (0.9 W) suppressor В High speed response type suppressor suppressor suppressor R 0 External pilot type High speed response/External pilot type BR **Coil voltage** 5 24 VDC 12 VDC 6

How to Order Valves

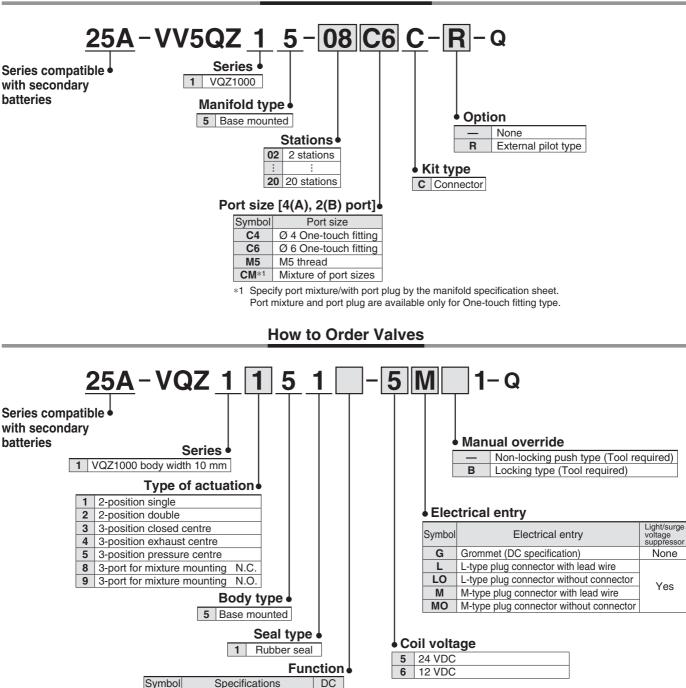
A Caution

Use standard (DC) specification for continuous duty.

Base Mounted Plug Lead Unit

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

How to Order Manifold



/!\ Caution Use standard (DC) specification for continuous duty.

R

R

BR

Standard

High speed response type

External pilot type

External pilot type

High speed response/

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



0.35 W

(0.9 W)

Ο

(0.9 W)

 \bigcirc

Yes

Body Ported

Plug Lead Unit

5-Port Solenoid Valve 25A-VQZ1000 Series Single Unit (€

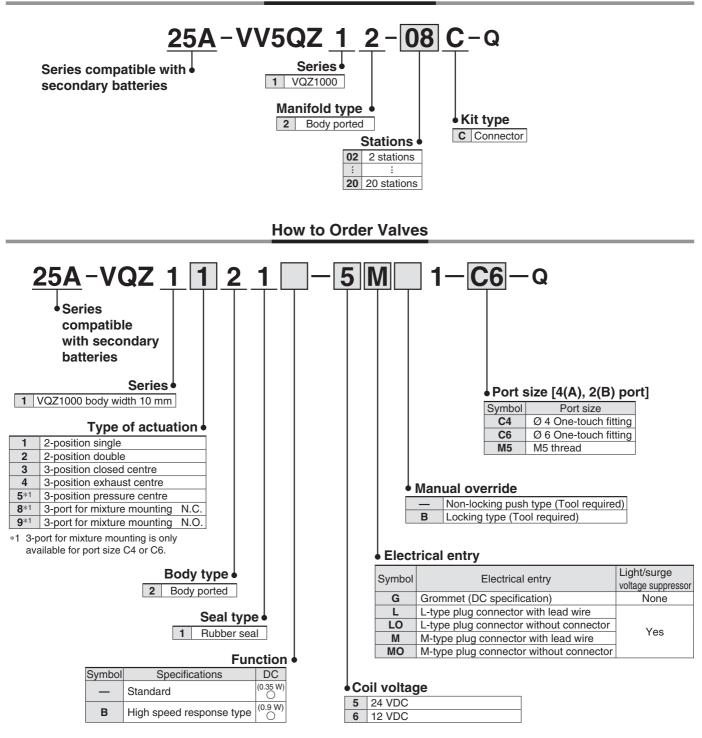
How to Order Valves 1-C6-25A-VQZ 1 1 2 1 - Q 5 Series compatible with secondary batteries Option Series • -: None F: With bracket 1 VQZ1000 body width 10 mm 2-position single type Type of actuation only 1 2-position single 2 2-position double Bracket 3 3-position closed centre 4 3-position exhaust centre Port size [4(A), 2(B) port] 5 3-position pressure centre Symbol Port size 3-port for mixture mounting N.C. 8 C4 Ø 4 One-touch fitting **9** 3-port for mixture mounting N.O. C6 Ø 6 One-touch fitting 3-port for mixture mounting is only M5 M5 thread available for port size C4 or C6. Manual override -: Non-locking B: Locking type push type (Tool required) (Tool required) Electrical entry G: Grommet L: L-type plug LO: L-type plug M: M-type MO: M-type (DC speciconnector connector plug plug with lead without connector fication) connector with lead without wire connector connector wire With light/ With light/ With light/ With light/ surge voltage surge voltage surge voltage surge voltage suppressor suppressor suppressor suppressor Body type 2 Body ported Seal type 1 Rubber seal Function Coil voltage Symbol Specifications DC 5 24 VDC (0.35 W) 6 12 VDC Standard (0.9 W) В High speed response type

Caution Use standard (DC) specification for continuous duty.

Body Ported Plug Lead Unit

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

How to Order Manifold



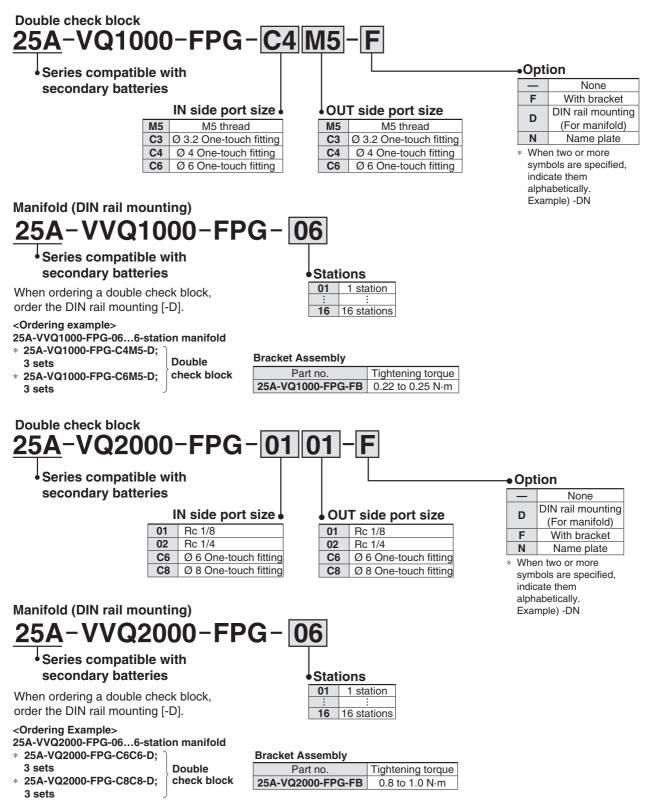
Caution

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

Use standard (DC) specification for continuous duty.

Plug-in Unit Base Mounted 25A-VQ1000/2000 Series Double check block (Separated)

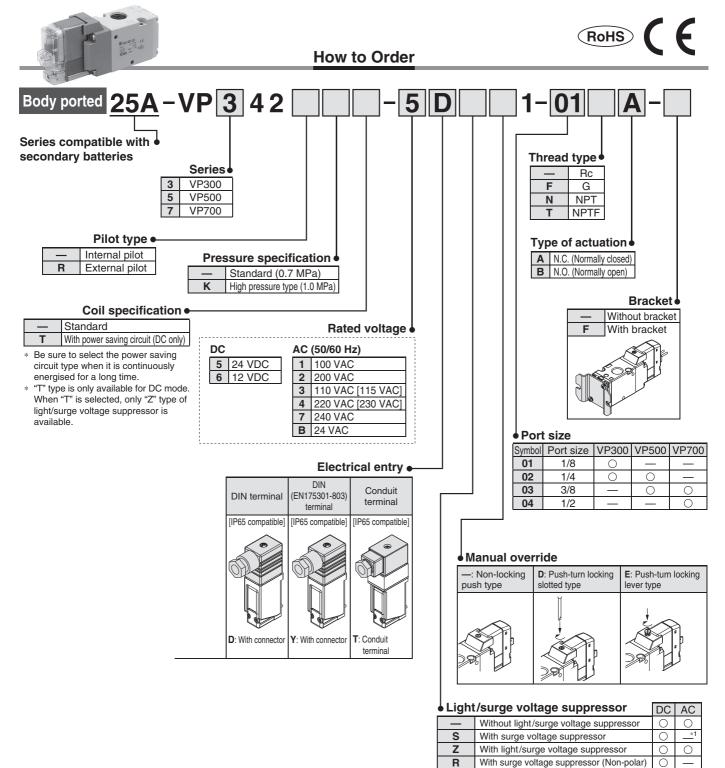
How to Order



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

SMC

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



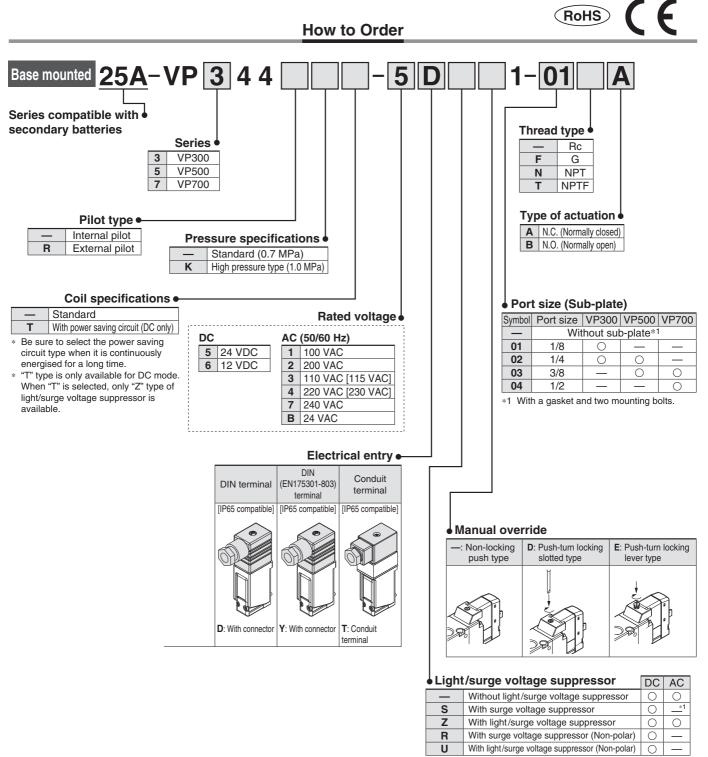
With light/surge voltage suppressor (Non-polar) There is no "S" type for AC mode, since a rectifier prevents *1 surge voltage generation.

U

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

 \bigcirc

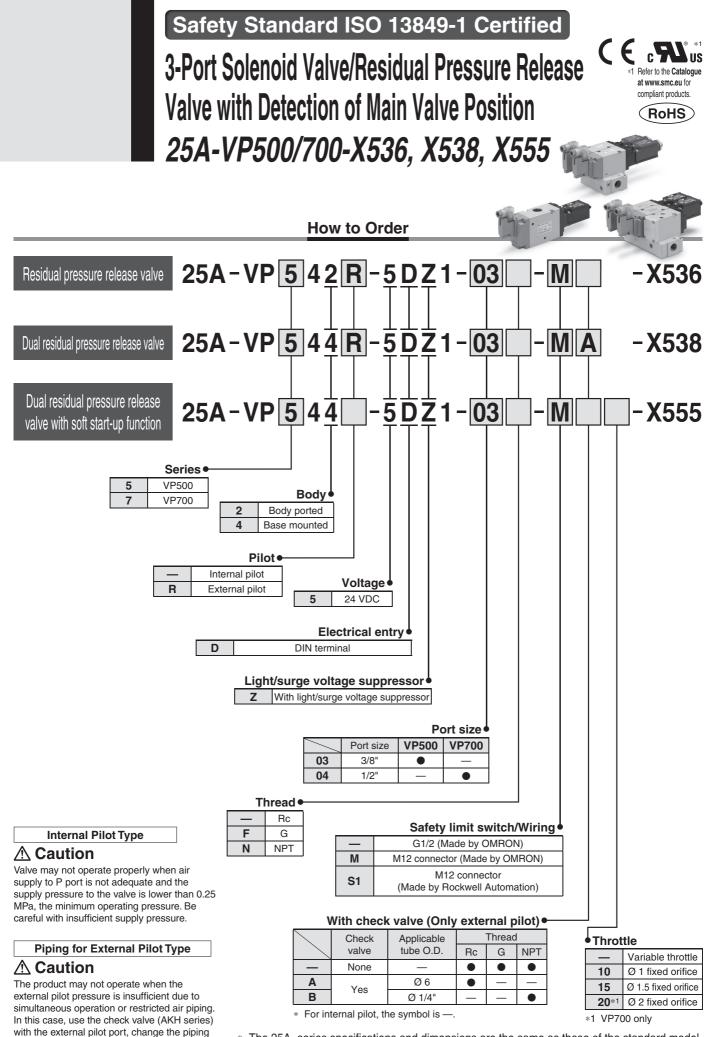
Rubber Seal 3-Port/Pilot Poppet Type 25A-VP344/544/744 Series



*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.

(RoHS)



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

size or adjust the set pressure to provide a constant pressure of 0.25 MPa or more.

3-Port Solenoid Valve Direct Operated Poppet Type 25A-VT317 Series Rubber Seal

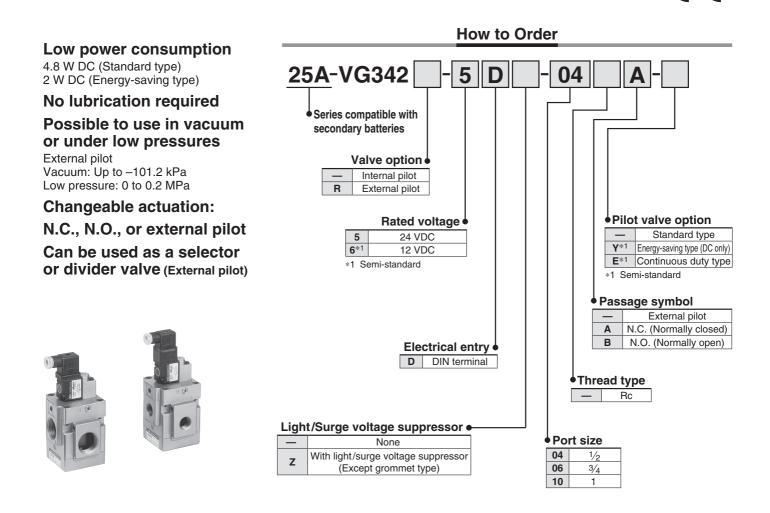
How to Order 25A-V 317 02 Т - Q 1 G Body type T Body ported 0 Manifold Thread type Rc Series compatible with E G secondary batteries Ν NPT Т NPTF Valve option Standard Continuous duty type **E***1 **V***1 For vacuum *1 Semi-standard Rated voltage 100 VAC (50/60 Hz) 1 2 200 VAC (50/60 Hz) **3***1 110 VAC (50/60 Hz) **4***1 220 VAC (50/60 Hz) Port size 24 VDC 5 Without port **6***1 12 VDC (For manifold) **7***1 240 VAC (50/60 Hz) 02 1/4 (8A) *1 Semi-standard * Applicable only for DIN terminal type. Electrical entry CE-compliant Light/Surge voltage suppressor D **DIN** terminal Electric G н С D entr ymbol S *1 *1 *1 Ζ S: With surge voltage suppressor *1 Refer to the figure below. Z: With light/surge voltage suppressor Surge voltage suppressor mounting part (For "G") 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.)

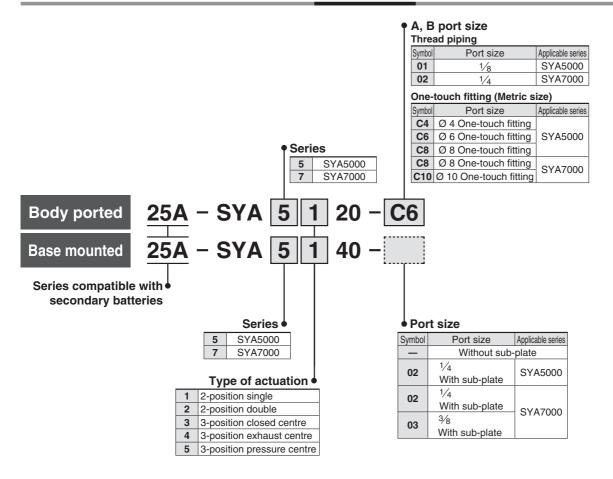
*1 It is not applied to "Continuous duty type." Refer to the accessories in the **Catalogue at www.smc.eu**.

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



5-Port Air Operated Valve Rolls 25A-SYA5000/7000 Series

How to Order



How to Order Manifold Base

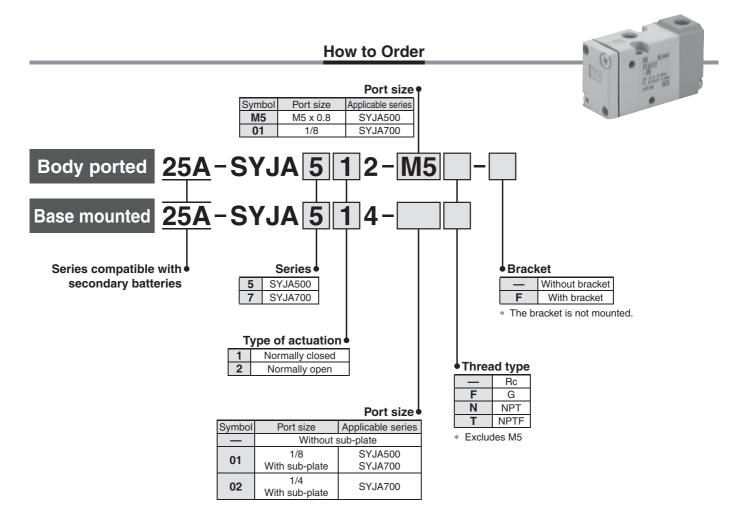
Same manifolds as the SY series (Non plug-in type) are prepared. (For 20, 41 and 42 Types)

25A-SS5YA⁵₇- Fill the same as 25A-SS5Y ⁵₇. (Refer to page 40.)

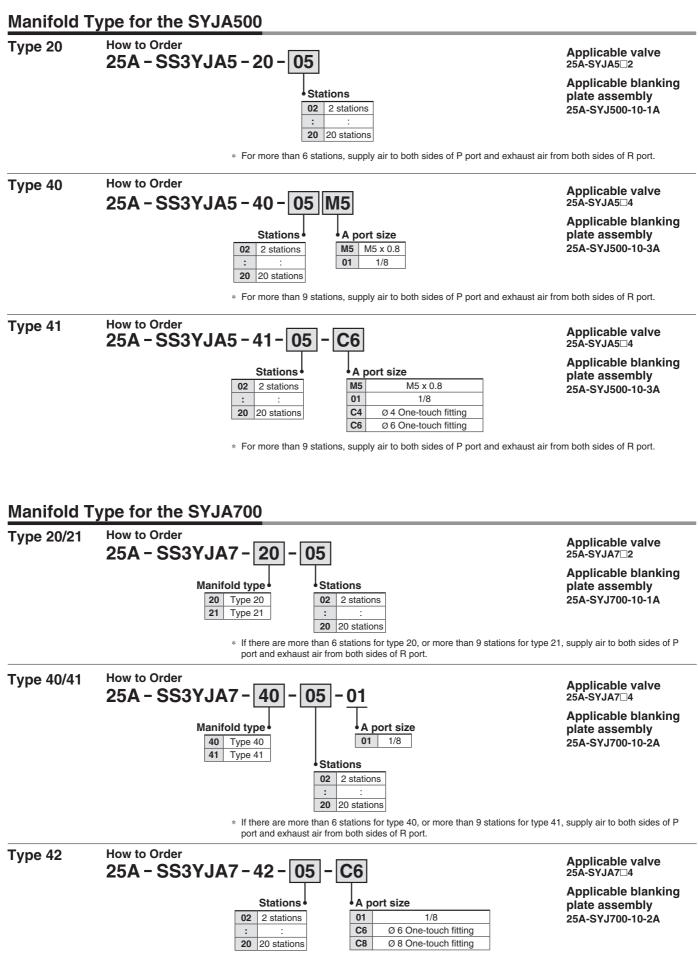
- Specify the part numbers for valves and options together beneath the manifold base part number.
 <Example>
 - 25A-SS5YA5-42-03-02....1 set (Type 42, 3 station manifold base part no.)
 - * 25A-SYA51401 set (Single air operated valve part no.)
 - * 25A-SYA5240 1 set (Double air operated valve part no.)
 - * 25A-SY5000-26-1A 1 set (Blanking plate assembly part no.)
 - The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.
- 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



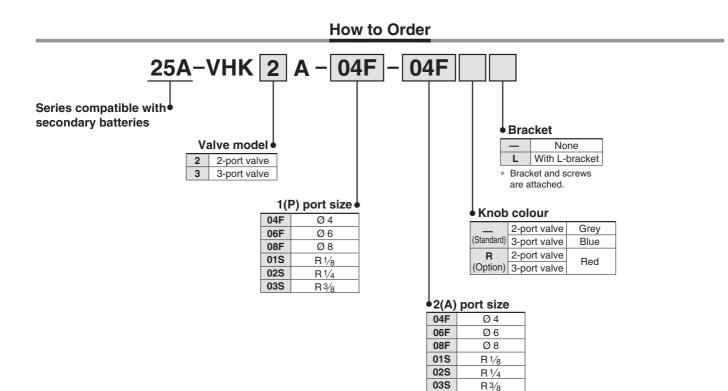
25A-SYJA500/700 Series



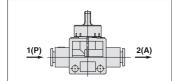
* For more than 9 stations, supply air to both sides of P port and exhaust air from both sides of R port.

SMC

Finger Valve RoHS **25A-VHK A** Series

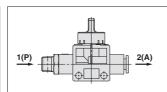


Standard Type



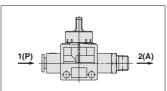
1(P): One-touch fitting 2(A): One-touch fitting

\frown	2(A)	Applicable tubing O.D. [mm]		
1(P)		Ø 4	Ø6	Ø 8
n]	Ø 4			
pplicable tubing 0.D. [mm]	Ø 6			
Applic O.	Ø 8			



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

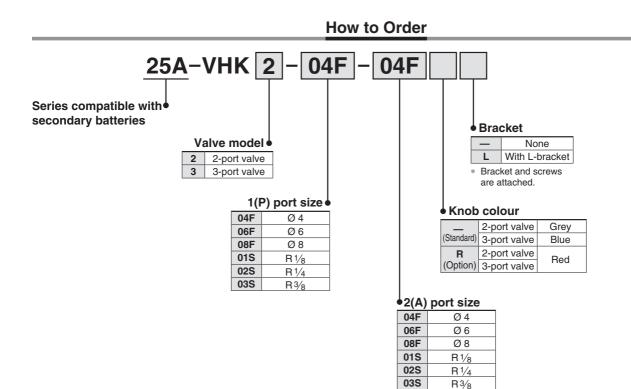
<u> </u>	<u> </u>				
	2(A)	Applicable tubing O.D. [mm]			
1(P)		Ø 4	Ø 6	Ø 8	
Port size R	1⁄8				
	1⁄4				
Pol	3⁄8				



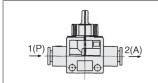
1(P): One-touch fitting 2(A): Male thread

\smallsetminus	2(A)	P	ort size	R
1(P)	1⁄8	1⁄4	3⁄8
Applicable tubing O.D. [mm]	Ø 4			
able t D. [mr	Ø 6			
Applic O.	Ø 8			

Finger Valve 25A-VHK Series RoHS

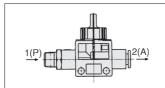


Standard Type



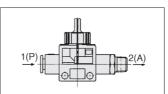
1(P): One-touch fitting 2(A): One-touch fitting

2(A)		Applicable tubing O.D. [mm]		
1(P)		Ø 4	Ø 6	Ø 8
Applicable tubing O.D. [mm]	Ø 4			
cable t D. [mr	Ø 6			
Applic O.	Ø 8			



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

2(A)		Applicable tubing O.D. [mm]		
1(P)		Ø 4	Ø 6	Ø 8
Port size R	1⁄8	٠		
	1⁄4			
Por	3⁄8			

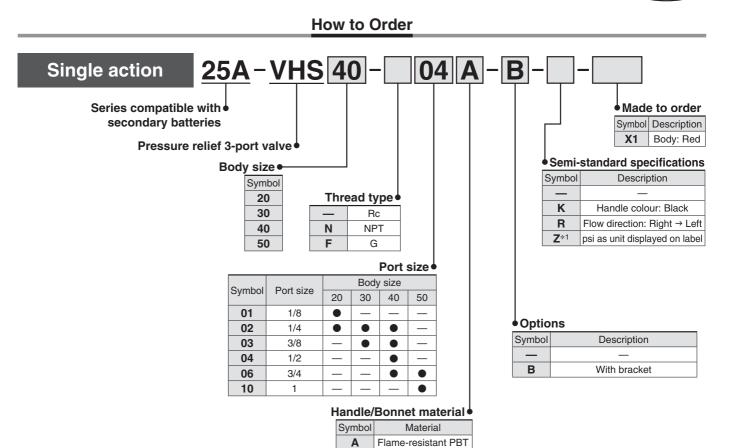


1(P): One-touch fitting 2(A): Male thread

<u> </u>				
\square	2(A)	Port size R		
1(P)	1⁄8	1⁄4	3⁄8
Applicable tubing O.D. [mm]	Ø 4	٠		
able t D. [mr	Ø 6	٠		
Applic O.	Ø 8	٠		

Conforming to OSHA Standard Pressure Relief 3-Port Valve with Locking Holes (Single Action) 25A-VHS20/30/40/50 Series

(RoHS)



В

Option Part Nos.

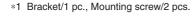
Model	Bracket assembly part no.*1
25A-VHS20	VHS20PW-180AS-6
25A-VHS30	VHS30PW-180AS-6
25A-VHS40	VHS40PW-180AS-6
25A-VHS40-06	VHS40PW-180-06AS-6
25A-VHS50	VHS50PW-180AS-6

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.

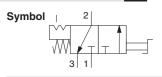
Aluminium

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

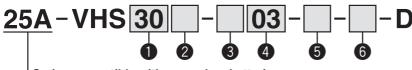


SMC

OSHA Standard Compliant Pressure Relief 3-Port Valve with Locking Holes Single Action 25A-VHS20/30/40/50-D Series Double Action 25A-VHS20W/30W/40W/50W-D Series



How to Order



· Option/Semi-standard: Select one each for **a to f**. · Option/Semi-standard symbol:

When more than one specification is required, indicate in alphanumeric order.

Example) 25A-VHS30-N03-BS-RZ-D

Series compatible with secondary batteries

	<u> </u>	<u> </u>	_	Symbol	Description		(
	Symbol Description		Description	20	Body 30	/ size 40	50		
								-	
2		На	ndle operation	<u> </u>	Single action			•	
				W	Double action				
				+					
					Rc*1				
8		Pij	pe thread type	N	NPT				
				F	G				
				+			1		
				01	1/8				
				02	1/4				
4		Port size		03	3/8				
				04	1/2				
				06	3/4				
			10	1	_	—			
_				+			1		
		a	Mounting		Without mounting option				
	u	Ľ		B	With bracket				
5	Option			+					
	0	b	Silencer	—	Without silencer				
			Olicitoci	S	With built-in silencer (for EXH port)				
				+					
		c	Handle colour		Red				
		Ŭ		K	Black				
				+					
	ard	d	Handle material	—	Resin				
	nd	u		M	Metal				
6	sta			+					
	Semi-standard	e	Flow direction	—	Flow direction: Left to right				
	Se	e		R	Flow direction: Right to left				
				+					
		f	Pressure unit	—	Product label in SI units: MPa				
			r lessure utill	Z *2	Product label in imperial units: psi	○*3	○*3	○*3	○*3

*1 The pipe thread type for the EXH port is G.

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

*3 O: For the pipe thread type: NPT only

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

Option/Part Nos.

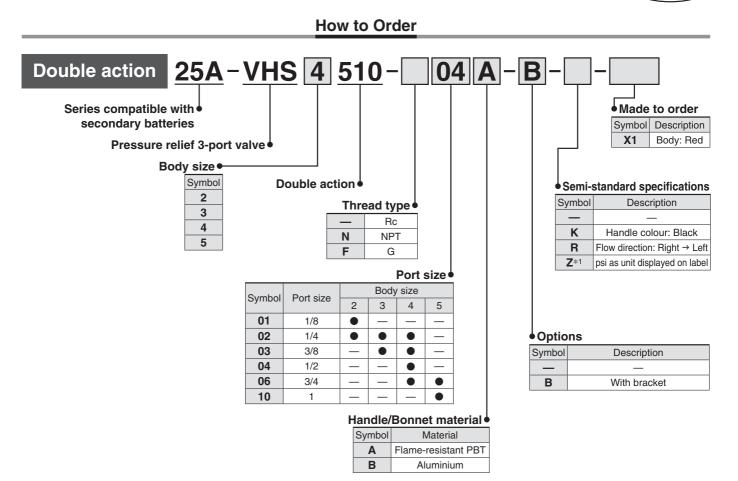
Ontional appaifiantiana	Model						
Optional specifications	25A-VHS20-D	25A-VHS30-D	25A-VHS40-D	25A-VHS40-06-D	25A-VHS50-D		
Bracket assembly*1	25A-VHS24P-180AS	25A-VHS34P-180AS	25A-VHS44P-180AS	25A-VHS44P-180AS	25A-VHS54P-180AS		
Silencer assembly*2	VHS24P-190AS	VHS34P-190AS	VHS44P-190AS	VHS54P-190AS	VHS54P-190AS		

*1 The assembly consists of a bracket A/B and 2 mounting screws.

*2 The assembly consists of the element assembly and an O-ring.

Conforming to OSHA Standard Pressure Relief 3-Port Valve with Locking Holes (Double Action) 25A-VHS2510/3510/4510/5510 Series

RoHS



Option Part Nos.

Model	Bracket assembly part no.*1
25A-VHS2510	VHS20PW-180AS-6
25A-VHS3510	VHS30PW-180AS-6
25A-VHS4510	VHS40PW-180AS-6
25A-VHS4510-06	VHS40PW-180-06AS-6
25A-VHS5510	VHS50PW-180AS-6

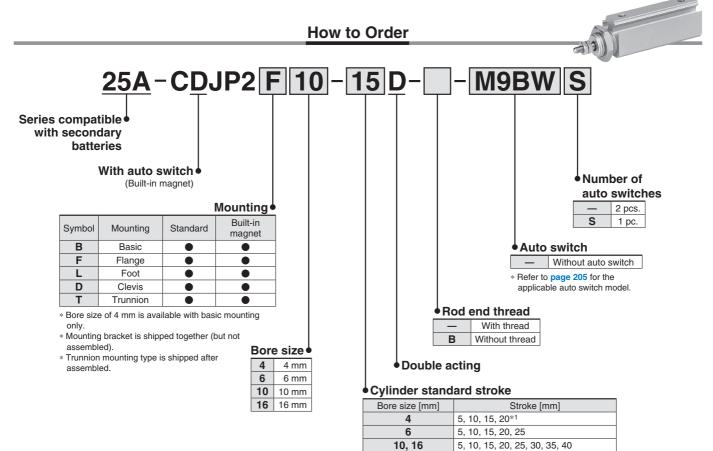
*1 Bracket/1 pc., Mounting screw/2 pcs.

OSHA standard (Occupational Safety and Health Administration Department of Labor)

For safety control, OSHA rule requires energy sources for certain equipment be turned off or disconnected and that the device either be locked or labelled with a warning tag.

the device cliner be looked of labelled with a warning tag.

Pin Cylinder: Double Acting, Single Rod 25A-CJP2 Series $\emptyset 4, \emptyset 6, \emptyset 10, \emptyset 16$



*1 20 stroke of bore size 4 mm is standard type only.

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDJP2F10-15D

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

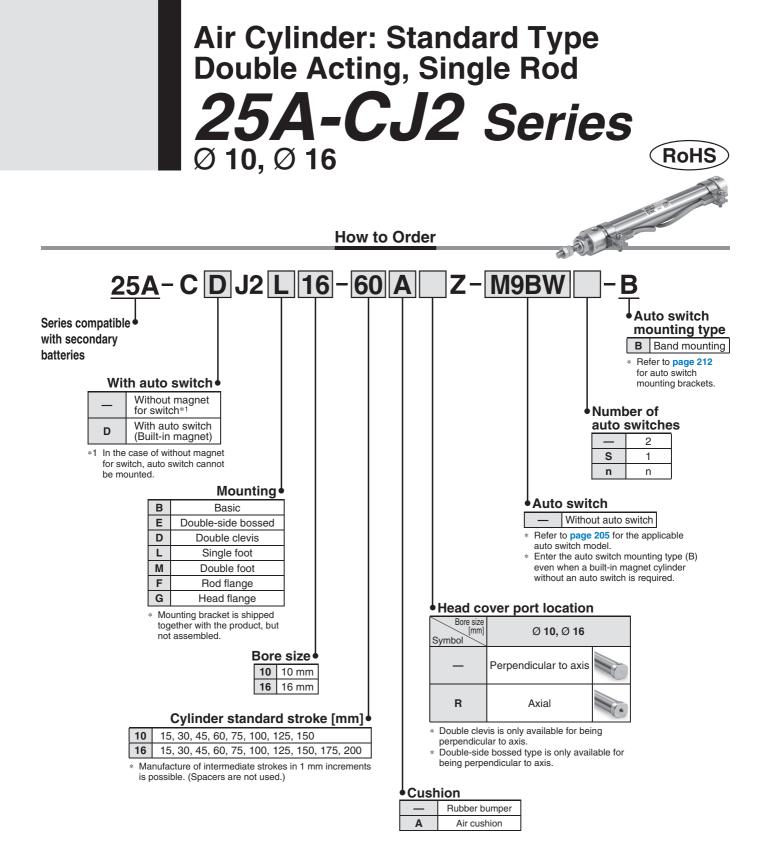
Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Flange	Foot	Trunnion
6	25A-CP-F006A	25A-CP-L006A	25A-CP-T006A
10	25A-CP-F010A	25A-CP-L010A	25A-CP-T010A
16	25A-CP-F016A	25A-CP-L016A	25A-CP-T016A

Accessory Bracket Part Nos. for the 25A- Series

Bore size [mm]	Single knuckle joint	Double knuckle joint	Knuckle joint pin	Trunnion pin	Mounting nut	Rod end nut
4	—	—	—	—	25A-SNPS-004	25A-NTJ-004
6	25A-I-P006A	25A-Y-P006A	25A-IY-P006	25A-CT-P006	25A-SNP-006	25A-NTP-006
10	25A-I-P010A	25A-Y-P010A	25A-IY-P010	25A-CT-P010	25A-SNP-010	25A-NTP-010
16	25A-I-P016A	25A-Y-P016A	25A-IY-P016	25A-CT-P016	25A-SNP-016	25A-NTP-016

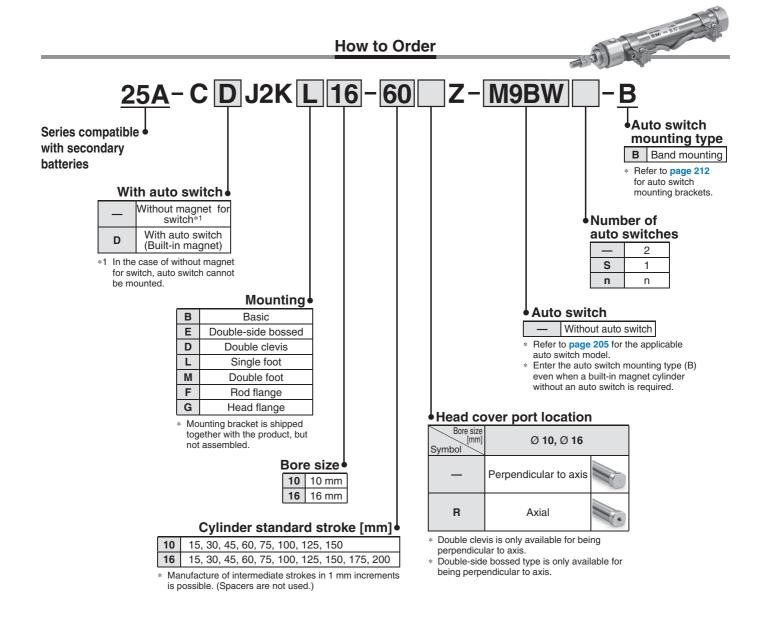
SMC



Mounting Bracket Part Nos. for the 25A- Series

Mounting	Bore size [mm]			
bracket	10	16		
Foot bracket	25A-CJ-L010B	CJ-L016SUS		
Flange bracket	25A-CJ-F010B	CJ-F016SUS		



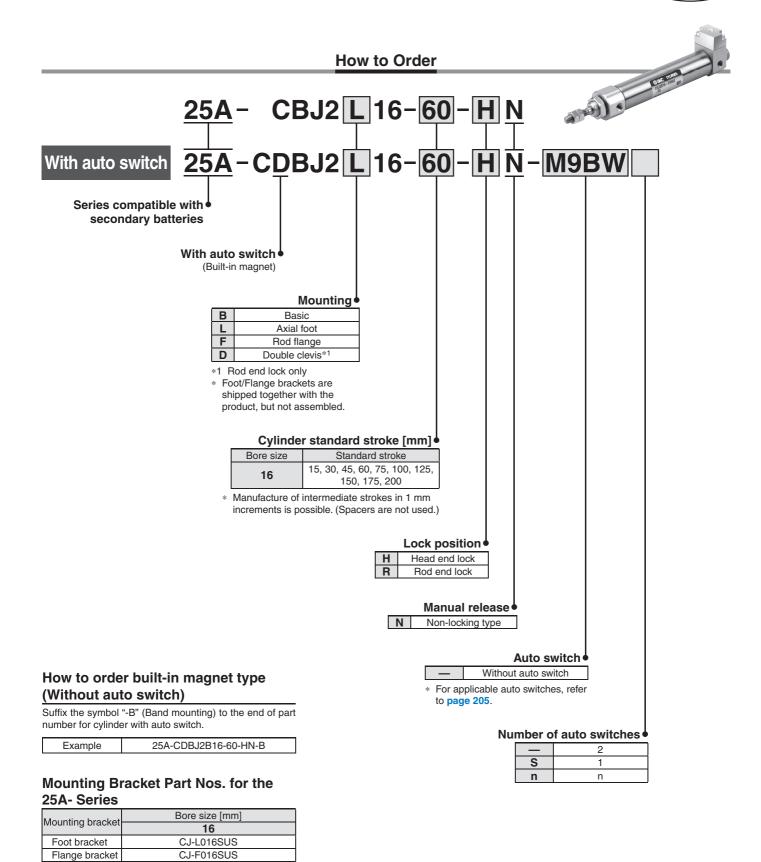


Mounting Bracket Part Nos. for the 25A- Series

Mounting	Bore size [mm]			
bracket	10	16		
Foot bracket	CJ-L016SUS	CJK-L016SUS		
Flange bracket	CJ-F016SUS	CJK-F016SUS		

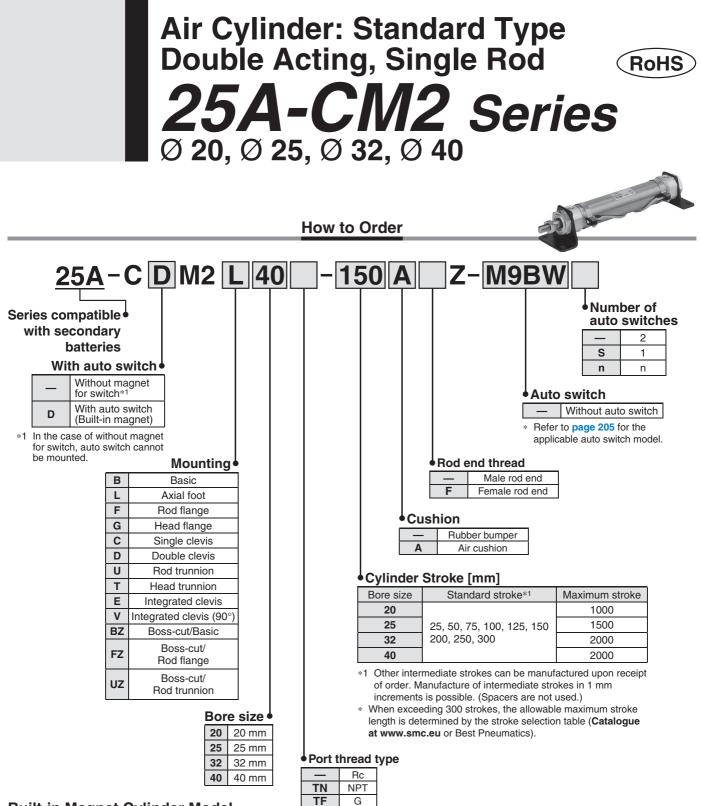
 The 25A- series specifications and dimensions are the same as those of the standard model. (Excluding the foot and flange plate thickness)

Air Cylinder: With End Lock 25A-CBJ2 Series Ø 16



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

RoHS



Built-in Magnet Cylinder Model

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

* 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 min. order)
Mounting bracket	order	20 25 32 40		Description (for min. order)		
Axial foot*1	2	CM-L020B-XB12	CM-L032	2B-XB12	CM-L040B-XB12	2 foots, 1 mounting nut
Flange	1	CM-F020BSUS	CM-F03	2BSUS	CM-F040BSUS	1 flange
Single clevis*2	1	CM-C020B	CM-C	032B	CM-C040B	1 single clevis, 3 liners
Double clevis ^{*2*3} (with pin)	1	25A-CM-D020B	25A-CM-D032B		25A-CM-D040B	1 double clevis, 3 liners, 1 clevis pin, 2 retaining rings
Trunnion (with nut)	1	25-CM-T020B	25-CM	-T032B	25-CM-T040B	1 trunnion, 1 trunnion nut

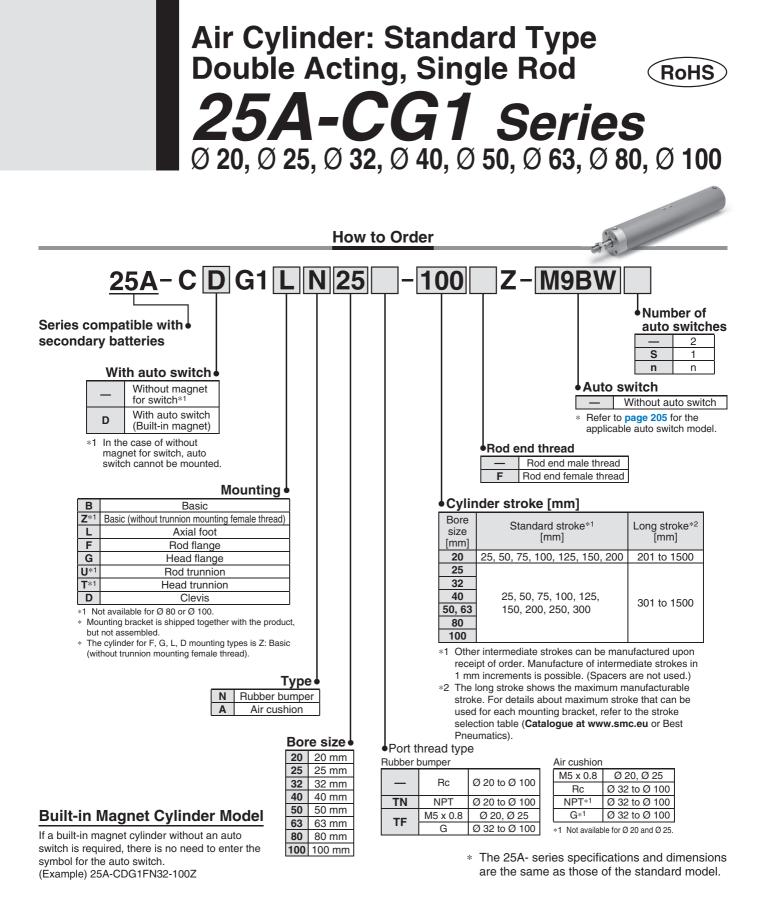
*1 Order 2 foot brackets for each cylinder unit.

*2 3 liners are attached with a clevis bracket for adjusting the mounting angle.

*3 A clevis pin and retaining rings (split pins for Ø 40) are attached.

79





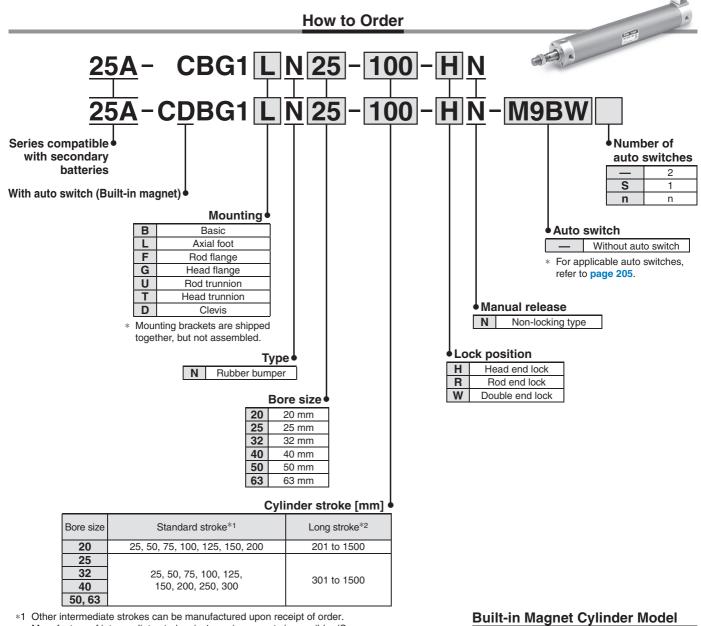
Mounting Bracket Part Nos. for the 25A- Series

Mounting	Min.				Bore siz	ze [mm]				Description
bracket	order	20	25	32	40	50	63	80	100	(for min. order)
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 (RoHS) $\begin{array}{c} \textbf{RoHS} \\ \textbf{25A-CBG1 Series} \\ \emptyset \ 20, \ \emptyset \ 25, \ \emptyset \ 32, \ \emptyset \ 40, \ \emptyset \ 50, \ \emptyset \ 63 \end{array}$



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 (**Catalogue at www.smc.eu** or Best Pneumatics).

Mounting Bracket Part Nos. for the 25A- Series

Mounting	Min.		Bore size [mm]							
bracket	order	20	25	32	40	50	63	(for min. order)		
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.

If a built-in magnet cylinder without an auto

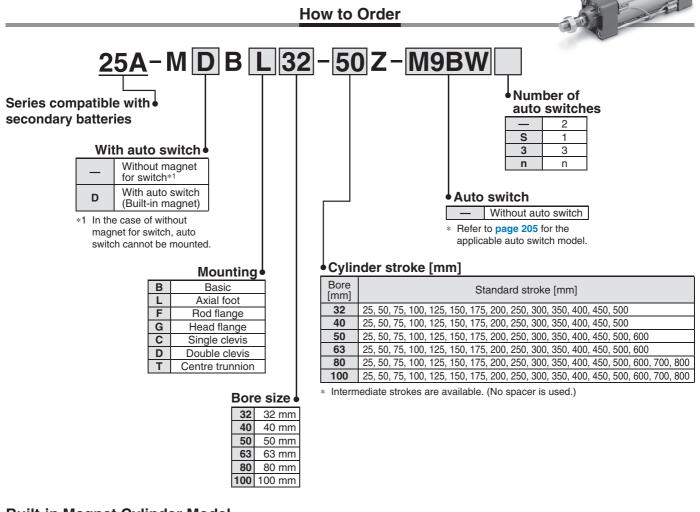
(Example) 25A-CDBG1FN32-100-RN

symbol for the auto switch.

switch is required, there is no need to enter the



Air Cylinder: Single Rod RoHS 25A-NB Series 032, 040, 050, 063, 080, 0100



Built-in Magnet Cylinder Model

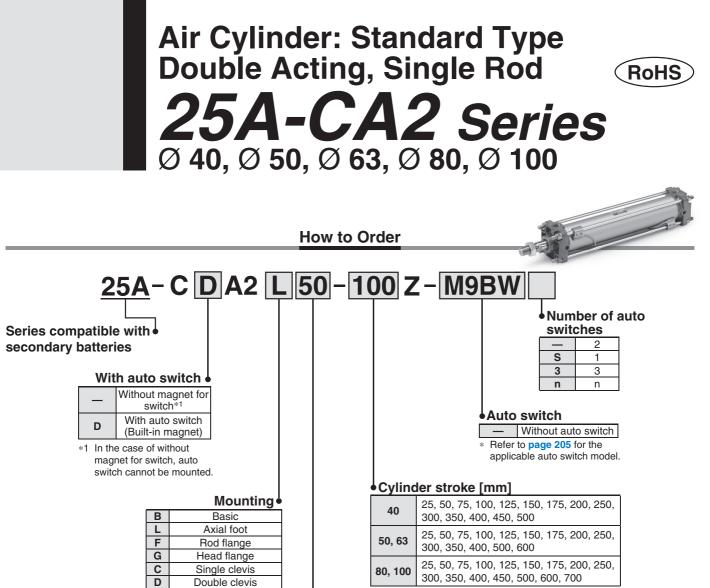
If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-MDBB40-100Z * The 25A- series specifications and dimensions are the same as those of the standard model.

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

*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.



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

Built-in Magnet Cylinder Model

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

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

Mounting Bracket Part Nos. for the 25A- Series

Т

Centre trunnion

Bore size 40 mm 50

63

80 100 100 mm

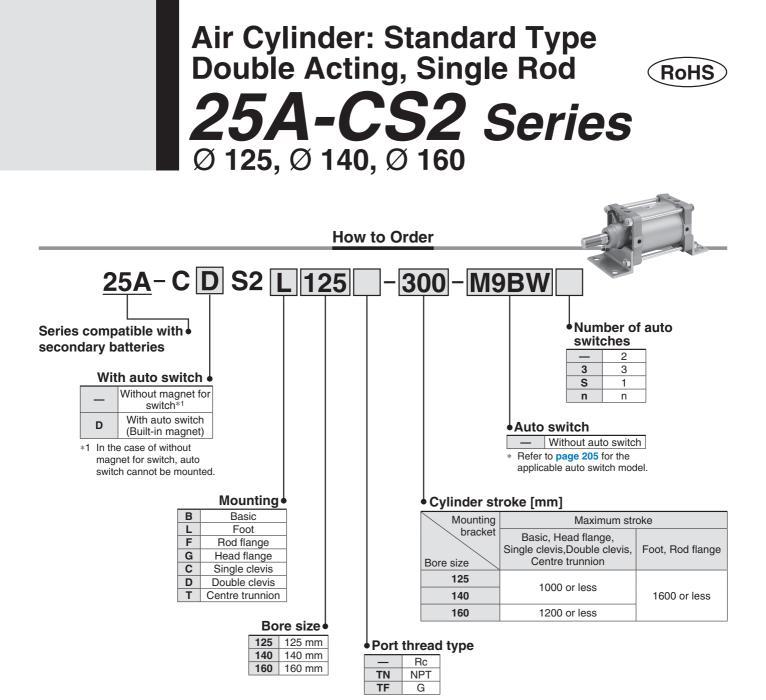
50 mm

63 mm 80 mm

Bore size [mm]	40	50	63	80	100
Axial foot*1	90-CA2-L04	90-CA2-L05	90-CA2-L06	90-CA2-L08	90-CA2-L10
Flange	25A-CA2-F04	25A-CA2-F05	25A-CA2-F06	25A-CA2-F08	25A-CA2-F10
Single clevis	25A-CA2-C04	25A-CA2-C05	25A-CA2-C06	25A-CA2-C08	25A-CA2-C10
Double clevis*2	25A-CA2-D04	25A-CA2-D05	25A-CA2-D06	25A-CA2-D08	25A-CA2-D10

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

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



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.

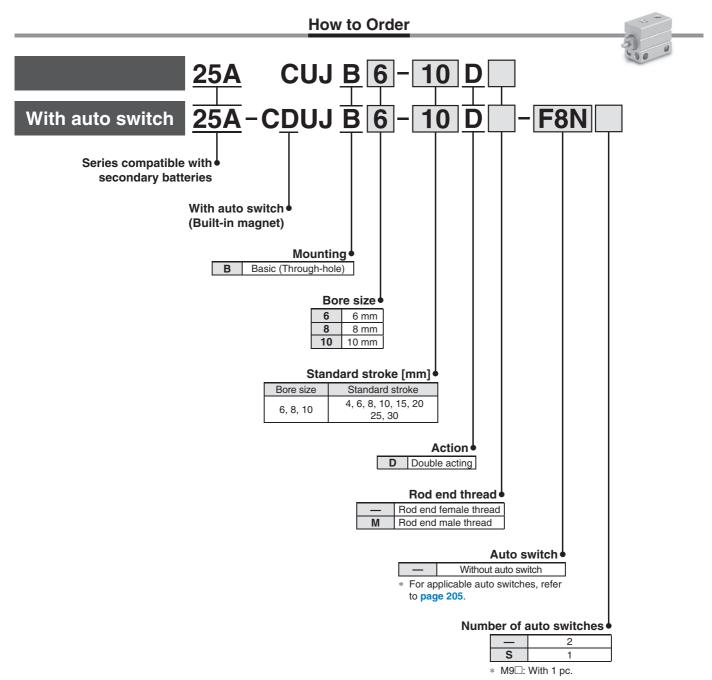
Mounting Bracket Part Nos. for the 25A- Series

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 $\begin{array}{c} \textbf{25A-CUJ Series}\\ \emptyset \ 6, \ \emptyset \ 8, \ \emptyset \ 10 \end{array}$



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

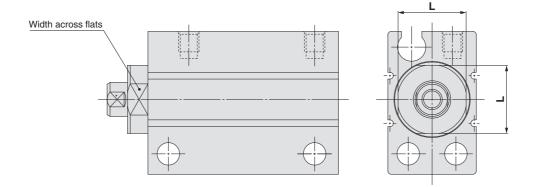
* The 25A- series specifications are the same as those of the standard model.

RoHS

Mini Free Mount Cylinder 25A-CUJ Series

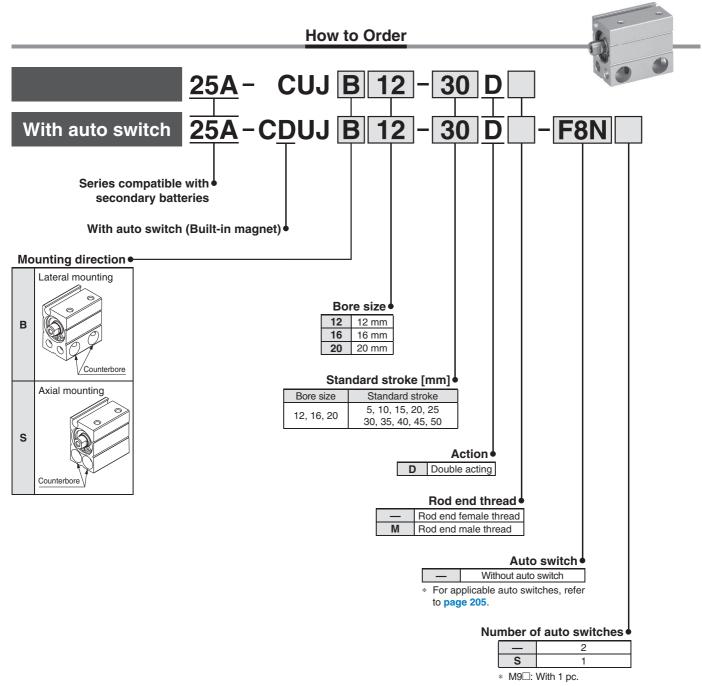
Dimensions (Dimensions other than those shown below are the same as the standard product.)

25A-C□UJB⁶810



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

Mini Free Mount Cylinder $\begin{array}{c} \textbf{25A-CUJ Series}\\ \emptyset \ 12, \ \emptyset \ 16, \ \emptyset \ 20 \end{array}$

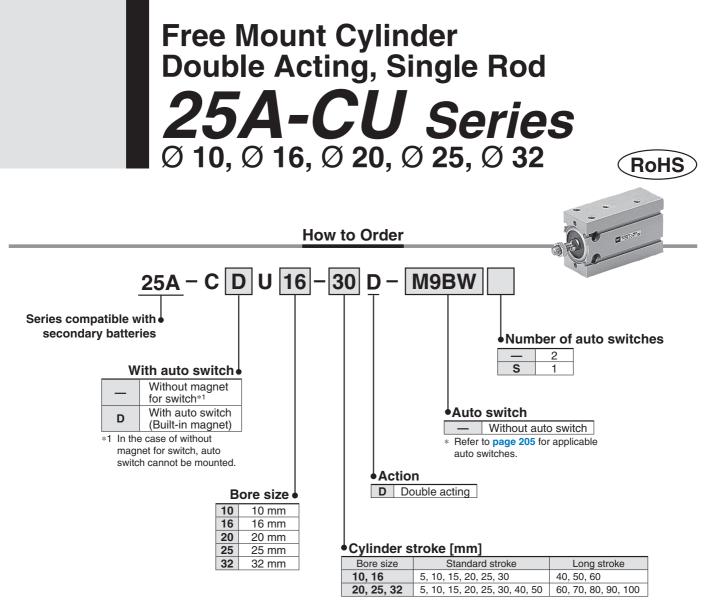


Built-in Magnet Cylinder Model

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

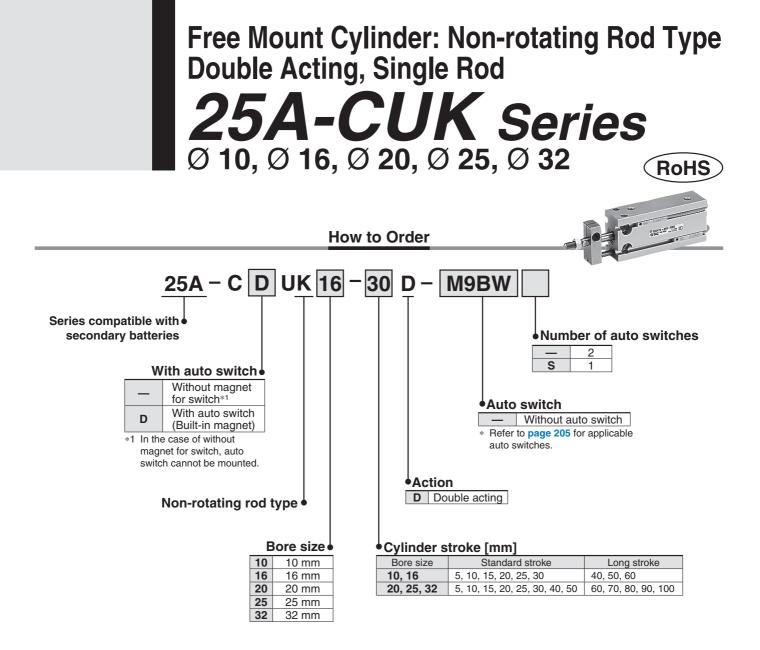
* The 25A- series specifications and dimensions are the same as those of the standard model.

RoHS



Built-in Magnet Cylinder Model

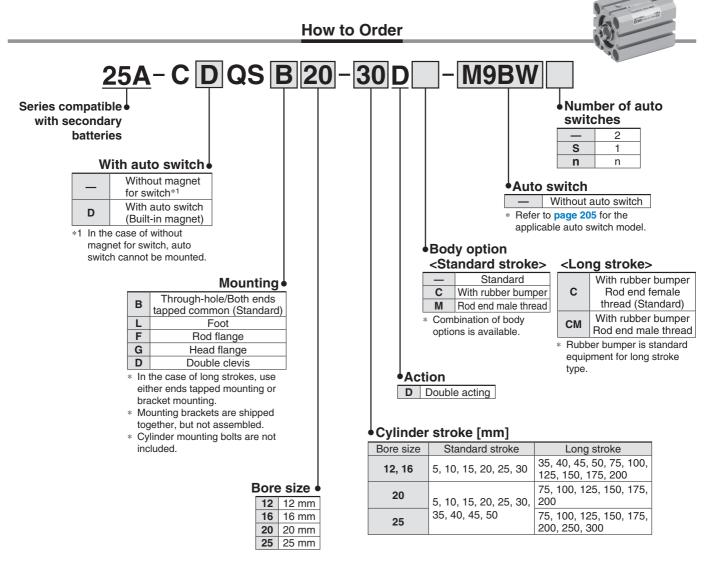
If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDU20-25D



Built-in Magnet Cylinder Model

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

Compact Cylinder: Standard Type Double Acting, Single Rod 25A-CQS Series Ø 12, Ø 16, Ø 20, Ø 25



Built-in Magnet Cylinder Model

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

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

Mounting Bracket Part Nos. for the 25A- Series

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

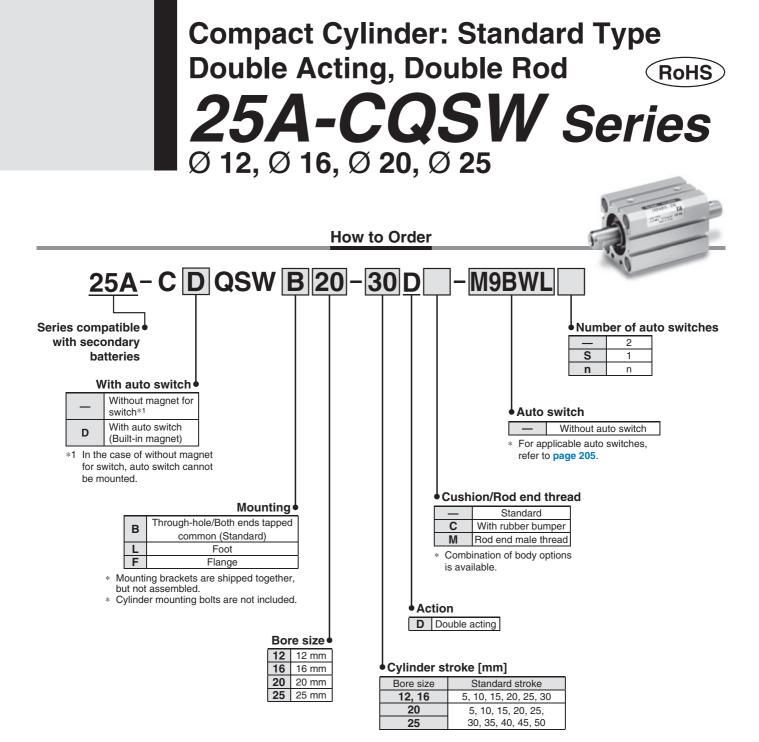
*1 When ordering foot bracket, order 2 pieces per cylinder.

* 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.





Mounting Bracket Part Nos. for the 25A- Series

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

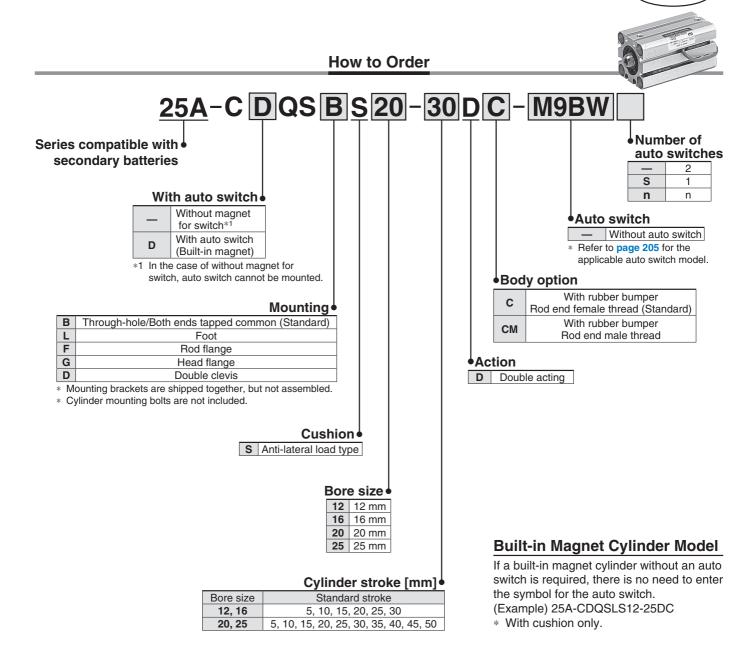
*1 When ordering foot brackets, order 2 pieces per cylinder.

* 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

Compact Cylinder: Anti-lateral Load Type **25A-CQS Series** Ø 12, Ø 16, Ø 20, Ø 25



* 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]	Foot*1	Flange	Double clevis
12	25A-CQS-L012	25A-CQS-F012	25-CQS-D012
16	25A-CQS-L016	25A-CQS-F016	25-CQS-D016
20	25A-CQS-L020	25A-CQS-F020	25-CQS-D020
25	25A-CQS-L025	25A-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





How to Order 25A - C D Q2 B 20 30 D M9BW Number of Series compatible with Auto switch auto switches secondary batteries - Without auto switch 2 Refer to page 205 for the S 1 applicable auto switch With auto switch n n model. Without magnet for switch*1 D With auto switch (Built-in magnet) Auto switch mounting groove *1 In the case of without magnet for switch, Ø 12 to Ø 25 2 surfaces auto switch cannot be mounted. Ζ Ø 32 to Ø 100 4 surfaces Mounting • "Z" is not available for Ø 12 to Ø 25 without auto switches. Bore size Through-hole (Standard) В **Body option** 12 mm **40** 40 mm 12 Α Both ends tapped Standard (Rod end female thread) 16 mm 50 50 mm 16 L Foot С With rubber bumper 20 20 mm 63 63 mm F Rod flange M Rod end male thread 80 25 25 mm 80 mm G Head flange Combination of body options is available. 32 32 mm | 100 | 100 mm | D Double clevis Action Mounting brackets are shipped Port thread type **D** Double acting together, but not assembled. Cylinder mounting bolts are not M thread Ø 12 to Ø 25 Cylinder stroke [mm] included. Rc TΝ NPT Ø 32 to Ø 100 12, 16 5, 10, 15, 20, 25, 30 TF G 20.25 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 32.40

50 to 100

Built-in Magnet Cylinder Model

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

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

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

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

Ø 12 to Ø 25:

• Without switch: Order 2 pieces per cylinder.

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

Ø 32 to Ø 100:

• Order 2 pieces per cylinder.

* Parts 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	 Joints ar
32, 40	YU-03	YA-03	YB-03	Order th (Example)
50, 63	YU-05	YA-05	YB-05	Bore size
80	YU-08	YA-08	YB-08	Type A i
100	YU-10	YA-10	YB-10	• Joint

Joints are not included with type A or B mounting brackets.
 Order them separately.
 [Example]
 Bore size Ø 40
 Part no.

2010 0120 2 10	
• Type A mounting bracket	······YA-03
Joint	·····YU-03



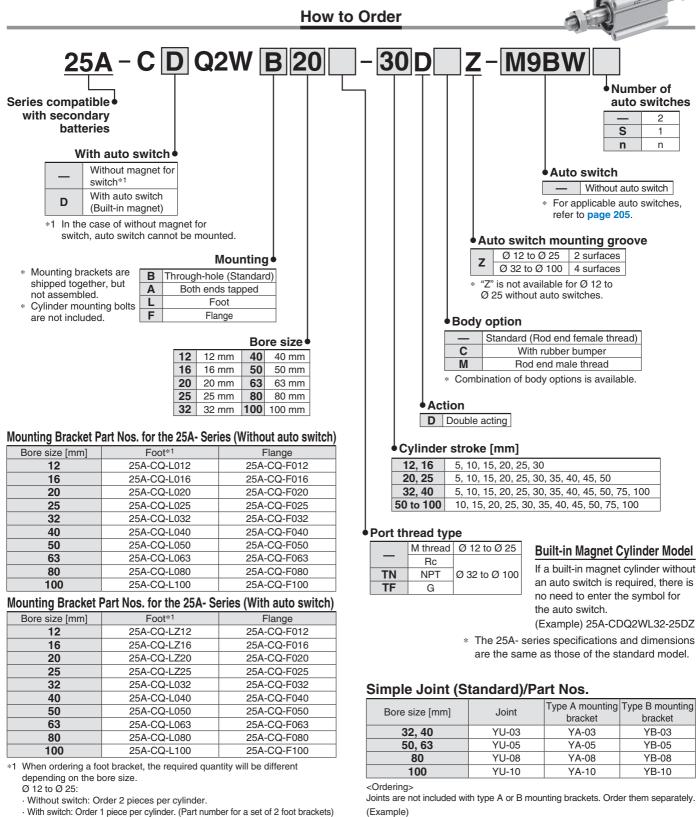
 The 25A- series specifications and dimensions are the same as those of the standard model.

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

10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

inculturing Bracket r art ness for the ZoA oches (man auto smith				
Bore size [mm]	Foot*1	Flange	Double clevis	
12	25A-CQ-LZ12	25A-CQ-F012	25-CQ-D012	
16	25A-CQ-LZ16	25A-CQ-F016	25-CQ-D016	
20	25A-CQ-LZ20	25A-CQ-F020	25-CQ-D020	
25	25A-CQ-LZ25	25A-CQ-F025	25-CQ-D025	
32	25A-CQ-L032	25A-CQ-F032	25-CQ-D032	
40	25A-CQ-L040	25A-CQ-F040	25-CQ-D040	
50	25A-CQ-L050	25A-CQ-F050	25-CQ-D050	
63	25A-CQ-L063	25A-CQ-F063	25-CQ-D063	
80	25A-CQ-L080	25A-CQ-F080	25-CQ-D080	
100	25A-CQ-L100	25A-CQ-F100	25-CQ-D100	

Compact Cylinder: Standard Double Acting, Double Rod 25A-CQ2V Series Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100



Ø 32 to Ø 100:

· Order 2 pieces per cylinder.

* Body mounting bolts are included for each bracket.



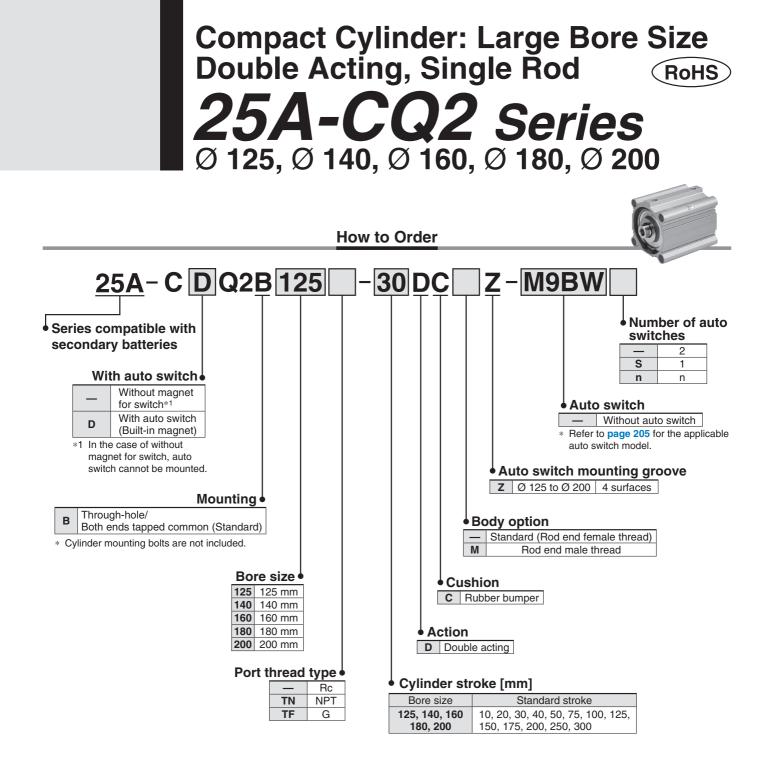
Bore size Ø 40

Joint

Type A mounting bracket YA-03

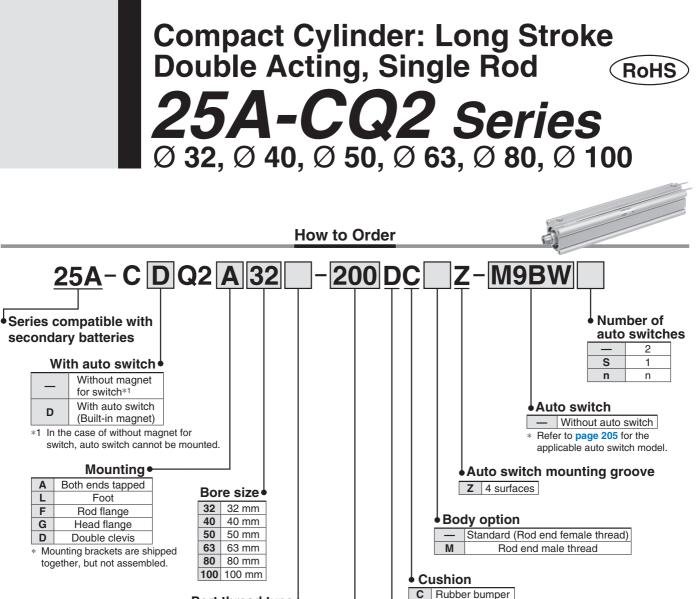
Part no

······ YU-03



Built-in Magnet Cylinder Model

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



Action
 D Double acting

Bore size

32, 40, 50

63, 80, 100

Cylinder stroke [mm]

Port thread type				
	— Rc			
	TN	NPT		
	TF	G		

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDQ2L40-200DCZ

Simple Joint (Standard)/Part Nos.

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

<Ordering>

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

Bore size Ø 40

• Joint-----YU-03

Mounting Bracket Part Nos. for the 25A- Series

Part no.

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

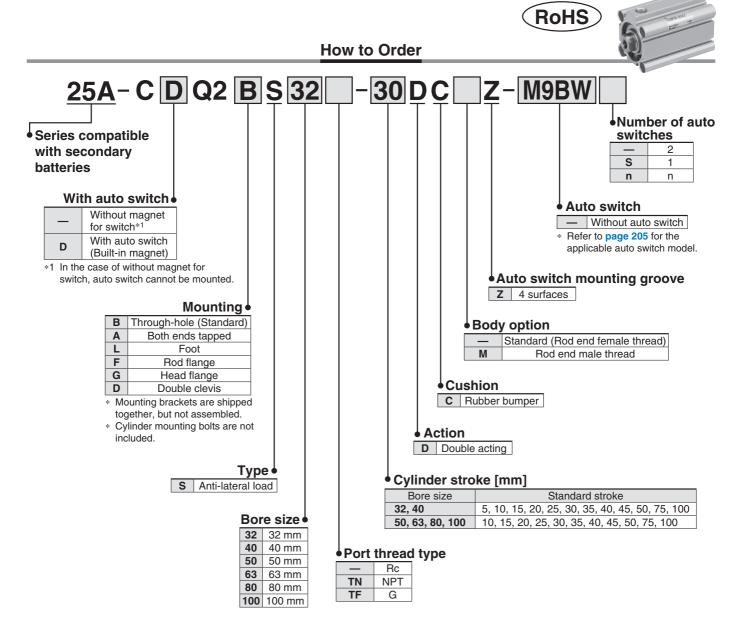


* The 25A- series specifications and dimensions are the same as those of the standard model.

Standard stroke

125, 150, 175, 200, 250, 300

Compact Cylinder: Anti-lateral Load $\begin{array}{c} \textbf{25A-CQ2} & \textbf{Series} \\ \varnothing \ 32, \ \varnothing \ 40, \ \varnothing \ 50, \ \varnothing \ 63, \ \varnothing \ 80, \ \varnothing \ 100 \end{array}$



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

Mounting Bracket Part Nos. for the 25A- Series

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

*1 Order 2 pieces per cylinder.

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* 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 $\begin{array}{c} \textbf{25A-CBQ2 Series}\\ \emptyset \ \textbf{20}, \emptyset \ \textbf{25}, \emptyset \ \textbf{32}, \emptyset \ \textbf{40}, \emptyset \ \textbf{50}, \emptyset \ \textbf{63}, \emptyset \ \textbf{80}, \emptyset \ \textbf{100} \end{array}$

How to Order 25A - CBQ2 B 40 30 D C Without auto switch H N 25A - CDBQ2 B 40 30 M9BW With auto switch D Series compatible with secondary batteries With auto switch (Built-in magnet) Manual release type N Non-lock type Mounting Ø 32 to Ø 100 Ø 20, Ø 25 Through-hole/Both ends Through-hole Lock position В В tapped common (Standard) (Standard)*1 Η Head end lock L Α Both ends tapped Foot R Rod end lock F Rod flange L Foot Head flange Rod flange G F D Double clevis G Head flange Body option D Double clevis Rod end female thread *1 At the 75 and 100 mm strokes with Ø 80, Ø 100, both ends Μ Rod end male thread tapped (A) is the standard. Through-hole (B) is not available. Mounting brackets are shipped together, but not assembled. Cushion C Rubber bumper Bore size Port thread type 20 mm 50 mm M thread Ø 20, Ø 25 20 50 Action 25 25 mm 63 63 mm Rc **D** Double acting 32 32 mm 80 80 mm ΤN NPT Ø 32 to Ø 100 Auto switch 100 100 mm 40 40 mm TF G Without auto switch For applicable auto switches, refer Cylinder stroke [mm] to page 205. Standard stroke Bore size 20, 25, 32, 40, 50, 63 10, 15, 20, 25, 50, 75, 100 Number of auto switches 80, 100 25, 50, 75, 100 2 S 1 **Built-in Magnet Cylinder Model** n n

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDBQ2L32-30DC-RN

Mounting Bracket Part Nos. for the 25A- Series

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

*1 Order 2 pieces per cylinder.

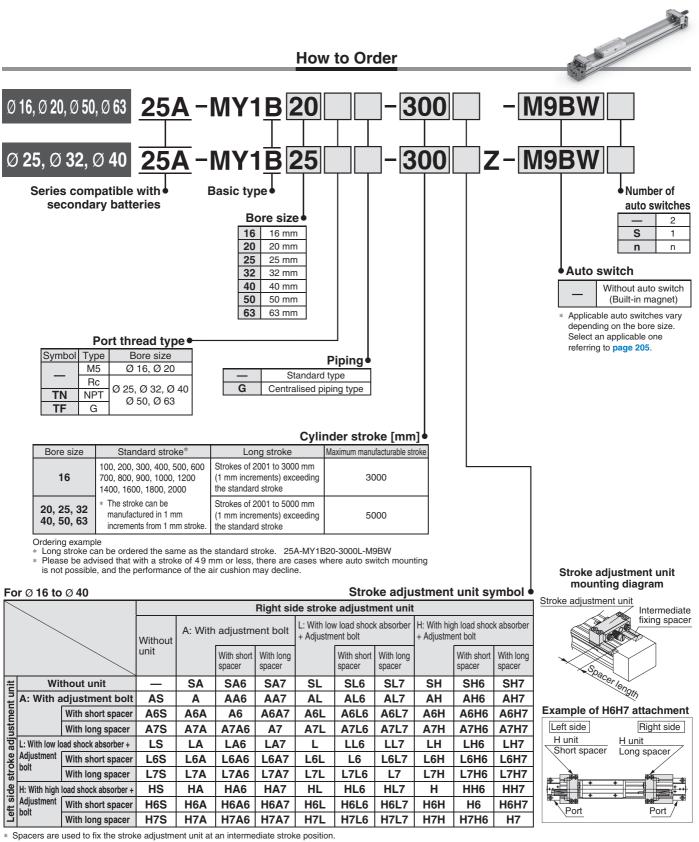
* Parts belonging to each bracket are as follows: Foot or Flange: Body mounting bolts, Double clevis: Clevis pin, Type C retaining rings for axis, Body mounting bolts

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

RoHS

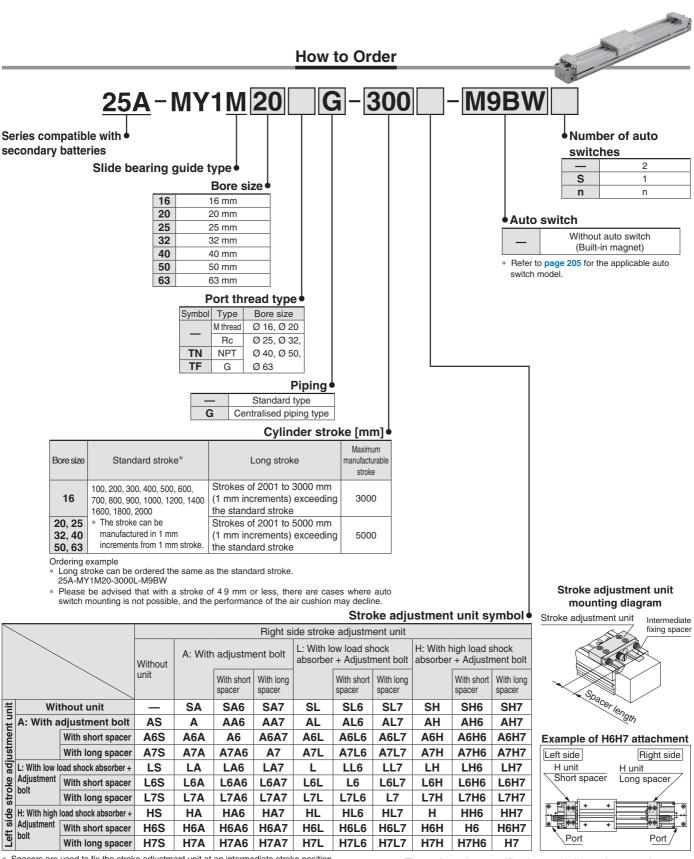
SMC

Mechanically Jointed Rodless Cylinder **Basic Type** RoHS 25A-MY1B Series Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63



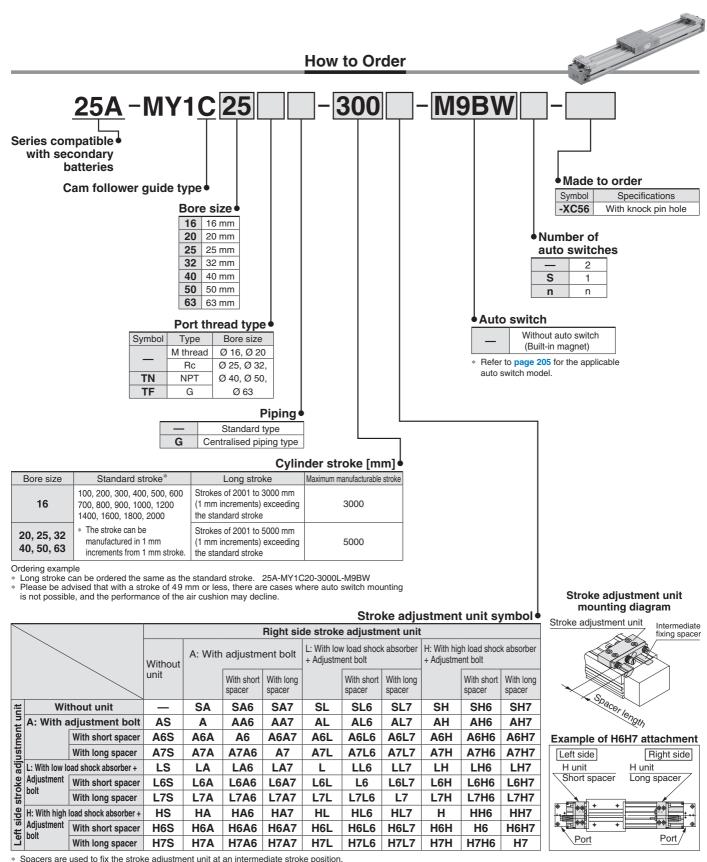
The 25A-MY1B50 and 63 are not available with the stroke adjustment unit.

The stroke adjustment unit H unit is not available for the 25A-MY1B16.



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

* Stroke adjustment unit H is not available for 25A-MY1M16.

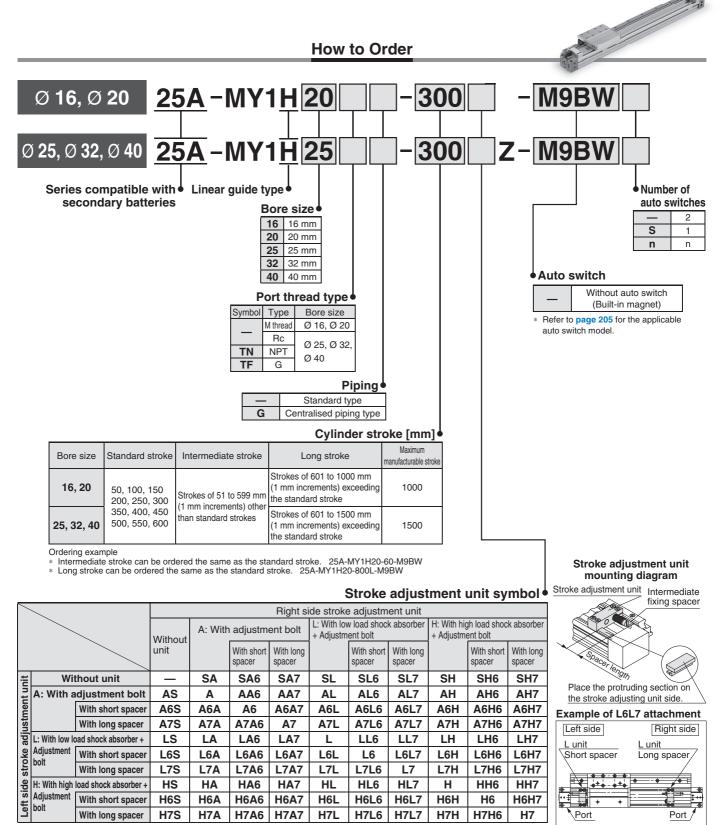


Spacers are used to fix the stroke adjustment unit at an intermediate stroke
 Stroke adjustment unit H is not available for 25A-MY1C16.

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

SMC

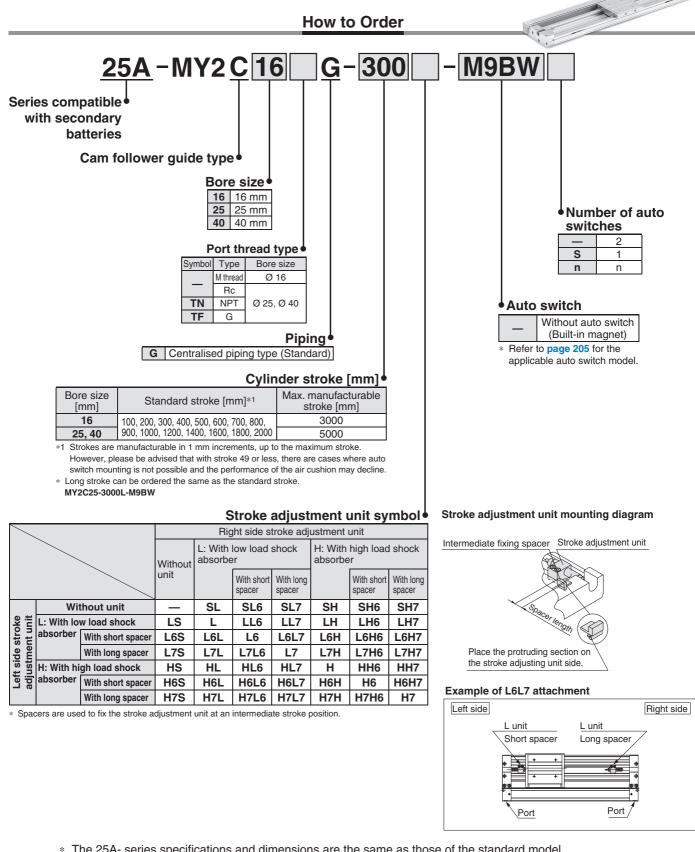
Mechanically Jointed Rodless Cylinder Linear Guide Type $$\mathbb{R}_{OHS}$$ 25A-MY1H Series \emptyset 16, \emptyset 20, \emptyset 25, \emptyset 32, \emptyset 40



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

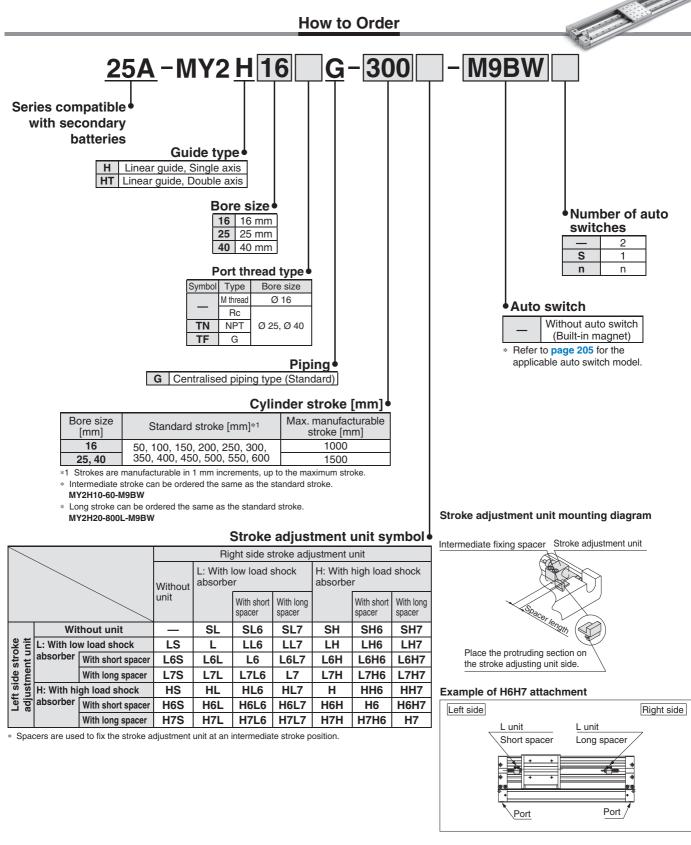
* H: With high load shock absorber + Adjustment bolt is not available for 25A-MY1H16.

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type 25A-MY2C Series Ø 16, Ø 25, Ø 40 RoHS



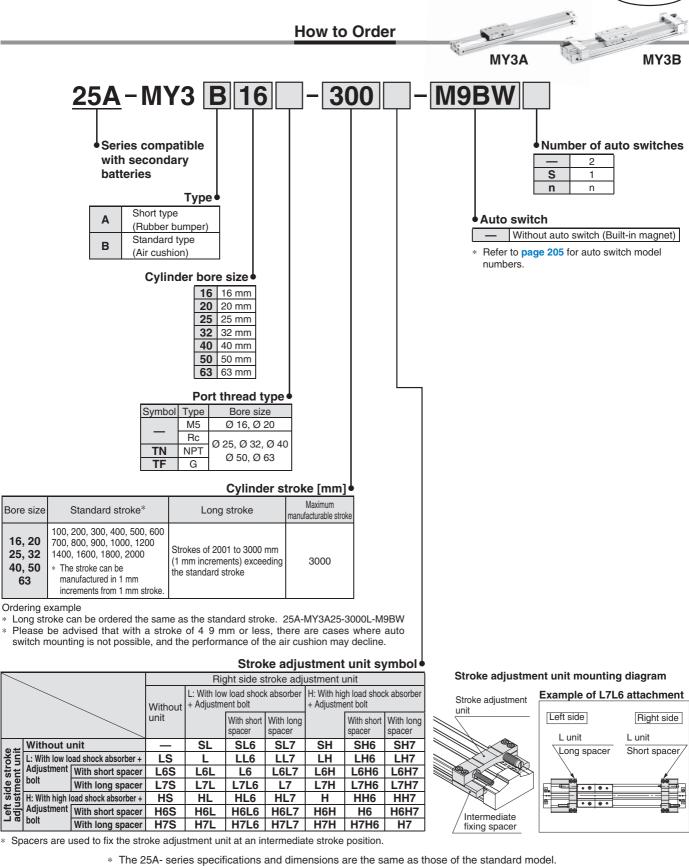
SMC

Mechanically Jointed Rodless Cylinder Linear Guide Type 25A-MY2H/HT Series Ø 16, Ø 25, Ø 40

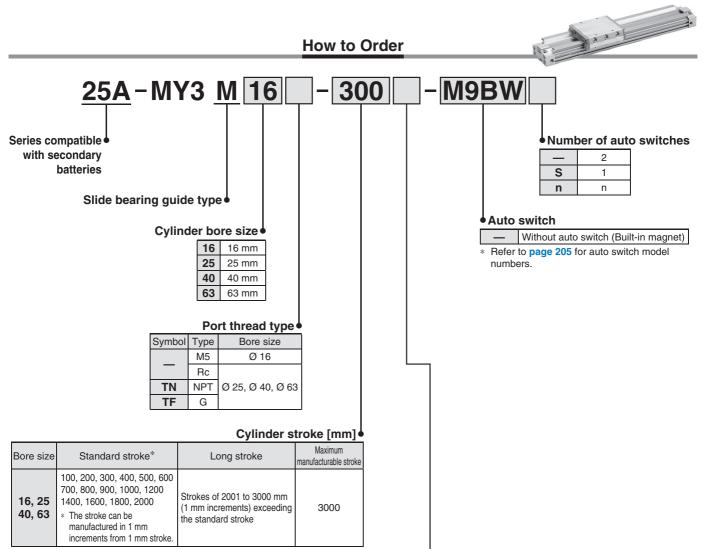


Mechanically Jointed Rodless Cylinder/Basic Type $\begin{array}{c} \textbf{25A-NY3A/3B Series} \\ \varnothing 16, \varnothing 20, \varnothing 25, \varnothing 32, \varnothing 40, \varnothing 50, \varnothing 63 \end{array}$

RoHS



Mechanically Jointed Rodless Cylinder Slide Bearing Guide Type **25A-MY3M Series** Ø 16, Ø 25, Ø 40, Ø 63



Ordering example

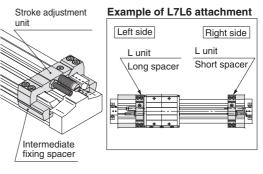
Long stroke can be ordered the same as the standard stroke. 25A-MY3M25-3000L-M9BW
 Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

Stroke	ad	justment	unit	S	ymbol	•

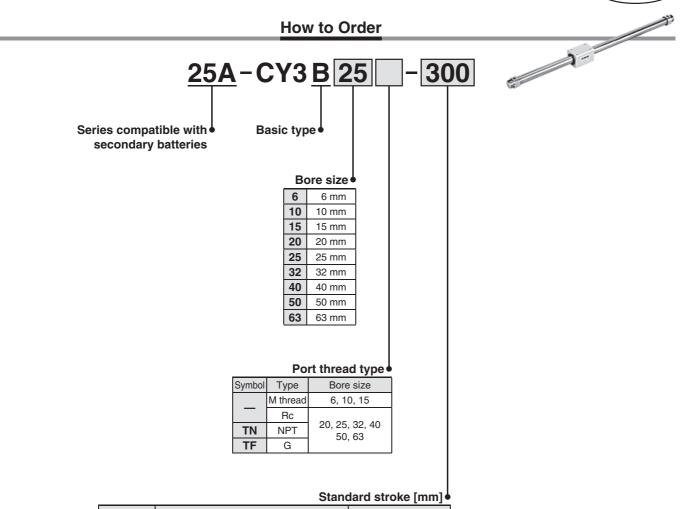
				Right side stroke adjustment unit										
			Without		v load shoc		H: With high load shock absorber + Adjustment bolt							
			unit			With long spacer		With short spacer	With long spacer					
	Without u	init	—	SL	SL6	SL7	SH	SH6	SH7					
nit	L: With low load shock absorber +		LS	L	LL6	LL7	LH	LH6	LH7					
stro nt u	Adjustment bolt	ment With short spacer	L6S	L6L	L6	L6L7	L6H	L6H6	L6H7					
de	DOIL	With long spacer	L7S	L7L	L7L6	L7	L7H	L7H6	L7H7					
Left side stroke adjustment unit		oad shock absorber +			HL6	HL7	Н	HH6	HH7					
	Adjustment bolt	With short spacer	H6S	H6L	H6L6	H6L7	H6H	H6	H6H7					
	DOIL	With long spacer	H7S	H7L	H7L6	H7L7	H7H	H7H6	H7					

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

Stroke adjustment unit mounting diagram



$\begin{array}{l} \text{Magnetically Coupled Rodless Cylinder/Basic Type} \\ \textbf{25A-CY3B Series} \\ \emptyset \ 6, \emptyset \ 10, \emptyset \ 15, \emptyset \ 20, \emptyset \ 25, \emptyset \ 32, \emptyset \ 40, \emptyset \ 50, \emptyset \ 63 \end{array}$



Bore size	Standard stroke	Max. manufacturable stroke		
6	50, 100, 150, 200	300		
10	50, 100, 150, 200, 250, 300	500		
15	50, 100, 150, 200, 250, 300, 350 400, 450, 500	1000		
20		1500		
25	100, 150, 200, 250, 300, 350 400, 450, 500, 600, 700, 800			
32	400, 400, 500, 600, 700, 600	2000		
40, 50, 63	100, 150, 200, 250, 300, 350, 400 450, 500, 600, 700, 800, 900, 1000	2000		

* Please contact SMC if the maximum stroke is exceeded.

* The longer the stroke, the larger the amount of deflection in a cylinder tube.

Pay attention to the mounting bracket and clearance value.

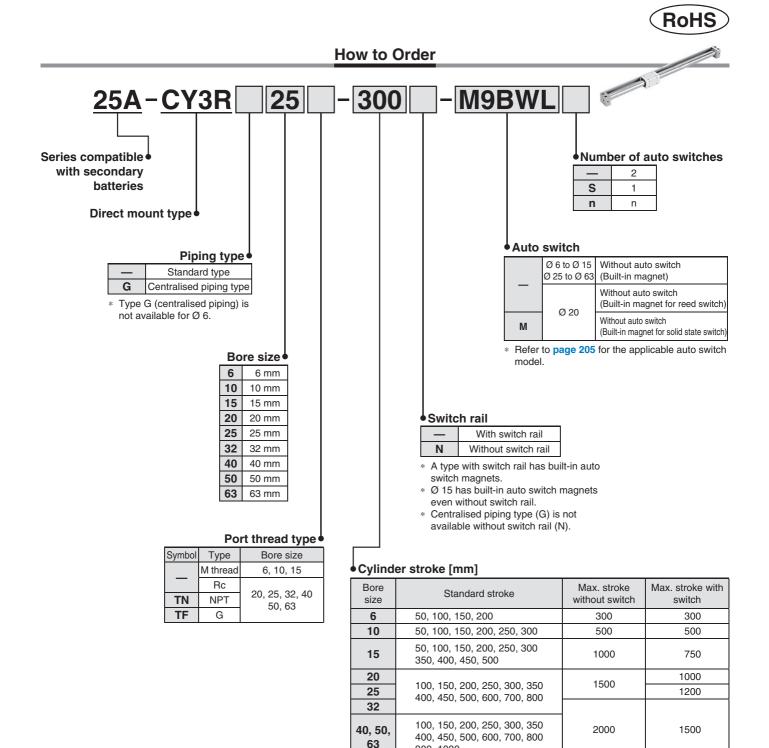
Intermediate stroke is available in 1 mm increments.

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

RoHS

Magnetically Coupled Rodless Cylinder/Direct Mount Type

25A-CY3R Series Ø 6, Ø 10, Ø 15, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63



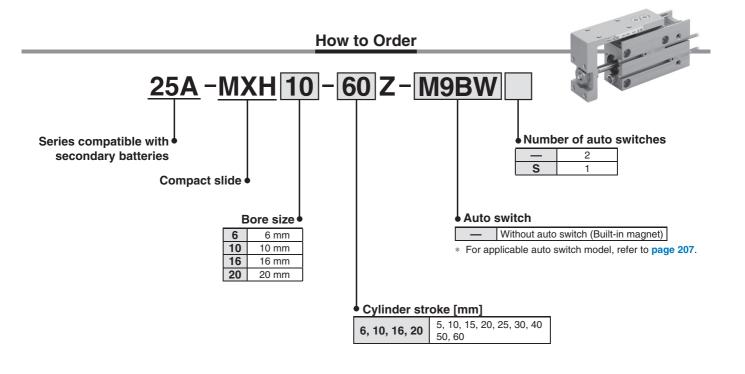
The longer the stroke, the larger the amount of deflection in a cylinder tube. Pay

attention to the mounting bracket and clearance value.

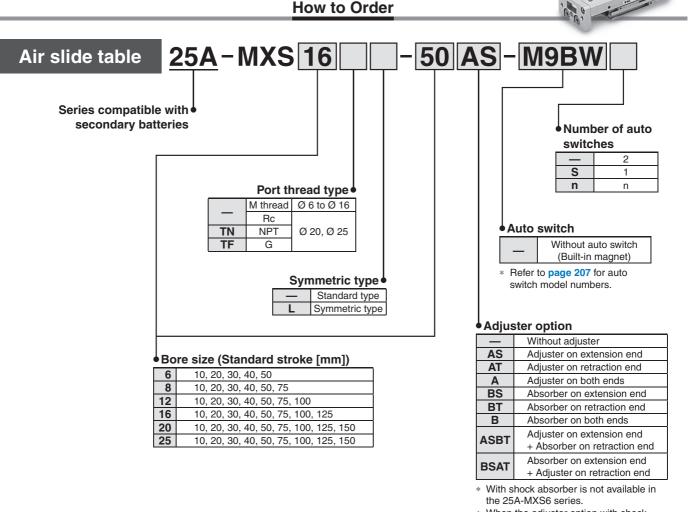
Intermediate stroke is available in 1 mm increments.

900.1000

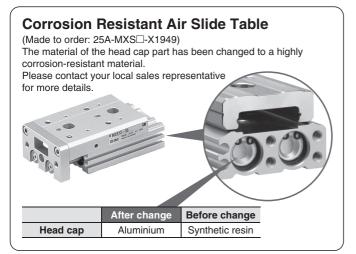
Compact Slide **25A-NXH Series** \emptyset 6, \emptyset 10, \emptyset 16, \emptyset 20

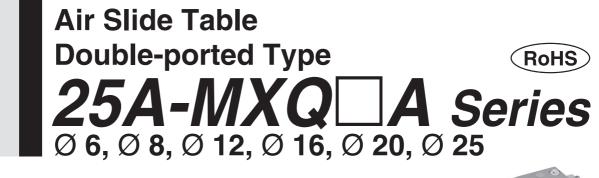


Air Slide Table **25A-MXS** Series \emptyset 6, \emptyset 8, \emptyset 12, \emptyset 16, \emptyset 20, \emptyset 25 RoHS



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





6

Symbol

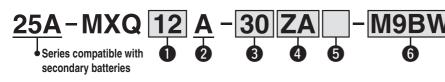
2

3

4

5

How to Order



D Bore	Body option: Double-ported type	3 Standard stroke [mm]
size	Α	
6 ₹	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		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)

4 Adjuster options/Functional option combinations

	Adjuster mounting Functional option combination											
					posit	ion*1	—	1	2	3	4	5
Symbol	Adjuster type ^{*6}			Retraction stroke end	Without functional option	*2*7 With buffer	With end lock	*5 Axial piping	*2*7 With buffer, end lock	*2*5*7 With Buffer axial piping		
Ζ	W	ithout adjuste	r				0	0	0	0	0	0
ZA							0	×	×	0	×	×
ZB	Me	etal stopper w	/ith	bumper			0	×	0	0	×	×
ZC							0	×	×	0	×	×
ZD							0	×	×	0	×	×
ZE	Rι	ibber stopper					0	0	0	0	0	0
ZF							0	×	×	0	×	×
ZG							0	×	×	0	×	×
ZH	Sh	lock absorbei	r/RJ				0	×	0	0	×	×
ZJ							0	×	×	0	×	×
ZK							0	×	×	0	×	×
ZL	Me	Metal stopper					0	0	0	0	0	0
ZM							0	×	×	0	×	×
ZN				Without adjuster			0	0*4	×	0	×	0*4
ZP	Ch	orter total		Rubber stopper			0	×	×	0	×	×
ZQ		ngth type*3		Shock absorber/RJ			0	×	×	0	×	×
ZS	iei	igin typeo	adjuster	Metal stopper with bumper] /		0	×	×	0	×	×
ZT			ns	Metal stopper	\vee		0	×	×	0	×	×
BF.	r	Metal	ad	Rubber stopper			0	×	×	0	×	×
BJ	ste	stopper with	end	Shock absorber/RJ			0	×	×	0	×	×
BM	adjuster	bumper		Metal stopper			0	×	×	0	×	×
ZEC		Dubber	stroke	Metal stopper with bumper			0	×	×	0	×	×
ZEJ	enc			Shock absorber/RJ			0	×	×	0	×	×
EM.				Metal stopper			0	×	×	0	×	×
HC	shock :		Retraction	Metal stopper with bumper			0	×	×	0	×	×
.HF		Shock	tra	Rubber stopper			0	×	×	0	×	×
:HM	sion	absorber/RJ	Be	Metal stopper			0	×	×	0	×	×
ĽLC	sua	Madal	1	Metal stopper with bumper			0	×	×	0	×	×
ZLF	Exten	Metal		Rubber stopper			0	×	×	0	×	×
ZLJ	ш	stopper		Shock absorber/RJ			Ō	×	×	Õ	×	×

Number of auto switches

ouncomed						
_	2					
S	1					
n	n					

ŀ

6 Auto switch

5 Functional options

With buffer

With end lock

Axial piping

With buffer, end lock

With buffer, axial piping

Without auto switch (Built-in magnet)

Functional option Without functional option

* For applicable auto switches, refer to page 207.

- •: Shipped together with the product, but not assembled Without any symbol for the adjuster mounting position: The adjuster can be mounted afterward.
- For the buffer mechanism, the buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.
- Extension stroke end adjuster mounting holes have been removed to reduce the total length of the table.
- The shorter total length type can be used, but a retraction stroke end adjuster cannot be mounted afterward.
- There is no piping port on the side surface of the product. The metal stopper with
- bumper option is not available for Ø 6.
- As there is no magnet in the buffer mechanism, auto switches cannot be used on the buffer part.

Adjuster Mounting Position



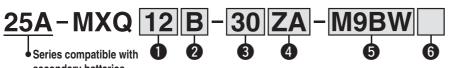
When the shock absorber, metal stopper with bumper, or adjuster option with metal stopper is used, metal-to-metal collisions occur, and may generate dust particles.

When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part. * The 25A- series specifications and dimensions are the same as those of the standard model.

SMC

Air Slide Table Low Thrust with High Rigidity Type RoHS 5A-MXQ B Series Ø 6, Ø 8, Ø 12, Ø 16, Ø 20

How to Order





secondary batteries

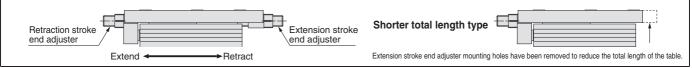
0	2 Bo	dy option					
Bore	Standard type B	Symmetric type BL	3 Standard stroke [mm]				
6			10, 20, 30, 40, 50*, 75*				
_	Port Switch mounting groove	Switch mounting groove Port					
8			10, 20, 30, 40, 50, 75*, 100*				
12	• <u>#@¢@</u> C•		10, 20, 30, 40, 50, 75, 100, 125				
16	Port Port Seith mouring grove Seith mouring grove Seith mouring grove	*1	10, 20, 30, 40, 50, 75, 100*, 125*, 150*				
20			10, 20, 30, 40, 50, 75, 100, 125*, 150*				

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

Adjuster options

Symbol	Adjuster type*3		2 posit	mounting tion * 1 Retraction stroke end	 Without auto switch (Built-in magnet) * For applicable auto switches, refer to page 207. 		
Z	Without adjuster						
ZA ZB ZC		tal stopper with bum	per		•	•	6 Number of auto switches
ZD ZE ZF	Ru	bber stopper			•	•	S 1 n n
ZG ZH ZJ	Sh	ock absorber/RJ			•	•	
ZK ZL ZM	Metal stopper				•	•	
ZN ZP ZQ ZS ZT		orter total gth type ^{*2}	ster	Without adjuster Rubber stopper Shock absorber/RJ Metal stopper with bumper Metal stopper		•	
ZBF ZBJ ZBM	adjuster	Metal stopper with bumper	end adjuster	Rubber stopper Shock absorber/RJ Metal stopper	•	•	
ZEC ZEJ ZEM	end	Rubber stopper	on stroke	Metal stopper with bumper Shock absorber/RJ Metal stopper	•	•	
ZHC ZHF ZHM	sion stroke	Shock absorber/RJ	Retraction	Metal stopper with bumper Rubber stopper Metal stopper	•	•	 *1 Shipped together with the product, but not assembled Without any symbol for the adjuster mounting position: The adjuster of
ZLC ZLF ZLJ	Extension	Metal stopper		Metal stopper with bumper Rubber stopper Shock absorber/RJ	-	•	 mounted afterward. *2 Extension stroke end adjuster mounting holes have been removed to r the total length of the table. *3 The metal stopper with bumper option is not available for Ø 6.

Adjuster Mounting Position



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.



Air Slide Table Single Side-ported Type RoHS 5A-MXQ C Series Ø 8, Ø 12

How to Order 25A-MXQ 12 30 M9BN Series compatible with 6 secondary batteries 3 Standard stroke 5 Functional options 2 Body option 1 6 Auto switch Standard type Bore Symmetric type Symbol Functional option Without auto switch (Built-in magnet) [mm] size Without functional option С CL For applicable auto switches, refer to page 207 With buffer Port Switch mounting groo nting groove Por 8 10, 20, 30, 40, 50, 75 2 With end lock ¢ 3 Axial piping 10, 20, 30, 40, 50, 75, ₽®¢® 12 ⋽౷⋪⋐ 4 With buffer, end lock Number of auto switches 100 5 With buffer, axial piping 2 S 1 n n Adjuster options/Functional option combinations Functional option combination Adjuster mounting position*1 1 2 3 5 4 Adjustor type

	Symbol		Ac	djus	ster type		Retraction stroke end	Without functional option	*2*6 With buffer	With end lock		*2*6 With buffer, end lock						
	Ζ	Wi	ithout adjuste	r				0	0	0	0	0	0					
	ZA							0	×	×	0	×	×					
	ZB	Metal stopper with bumper			letal stopper with bumper			Metal stopper with bumper			0	×	0	0	×	×		
	ZC							0	×	×	0	×	×					
	ZD							0	×	×	0	×	×					
	ZE	Rι	ubber stopper					0	0	0	0	0	0					
	ZF							0	×	×	0	×	×					
	ZG							0	×	×	0	×	×					
	ZH	Sh	nock absorber	J			0	×	0	0	×	×						
	ZJ							0	×	×	0	×	×	*1	Shipped together with the			
	ZK							0	×	×	0	×	×		product, but not assembled			
	ZL	Metal stopper		er				0	0	0	0	0	0		Without any symbol for the			
	ZM						0	×	×	0	×	×		adjuster mounting position: The				
	ZN				Without adjuster	/		0	○*4	×	0	×	0*4		adjuster can be mounted afterward.			
	ZP	0	orten overell		Rubber stopper] /		0	×	×	0	×	×	*2	For the buffer mechanism, the			
	ZQ		orter overall		Shock absorber/RJ] /		0	×	×	0	×	×	. 2	buffer stroke will be shorter for			
	ZS	len	gth type*3	fer	Metal stopper with bumper] /		0	×	×	0	×	×		the stroke that is adjusted by the			
	ZT			adjust	Metal stopper	V		0	×	×	0	×	×		extension stroke end adjuster.			
	ZBF	r	Metal	adj	Rubber stopper			0	×	×	0	×	×	*3	Extension stroke end adjuster			
	ZBJ	adjuster	stopper with	end	Shock absorber/RJ			0	×	×	0	×	×		mounting holes have been			
	ZBM	aju	bumper		Metal stopper			0	×	×	0	×	×		removed to reduce the total length of the table.			
	ZEC		Dubbar	oke	Metal stopper with bumper			0	×	×	0	×	×	*4	The shorter total length type ca			
	ZEJ	end	Rubber	stro	Shock absorber/RJ			0	×	×	0	×	×		be used, but a retraction stroke			
	ZEM	ຍ stopper			Metal stopper			0	×	×	0	×	×		end adjuster cannot be mounted			
	ZHC	stroke	Ohaali	ction	Metal stopper with bumper			0	×	×	0	×	×		afterward.			
	ZHF		Shock	Retra	Rubber stopper			0	×	×	0	×	×	*5	*5 There is no piping port on the			
	ZHM	ion	absorber/RJ	Be	Metal stopper			0	×	×	0	×	×		side surface of the product.			
	ZLC	sua			Metal stopper with bumper	•	•	0	×	×	0	×	×	*6 As there is no magnet i	As there is no magnet in the buffer mechanism, auto switch			
Γ	ZLF	Extension	Metal		Rubber stopper			0	×	×	0	×	×	1	cannot be used on the buffer			
	ZLJ	ш	stopper		Shock absorber/RJ		•	0	×	×	0	×	×	1	part.			

- Shipped together with the product, but not assembled Nithout any symbol for the diuster mounting position: The djuster can be mounted fterward.
- For the buffer mechanism, the ouffer stroke will be shorter for he stroke that is adjusted by the extension stroke end adjuster.
- Extension stroke end adjuster nounting holes have been emoved to reduce the total ength of the table.
- The shorter total length type can e used, but a retraction stroke end adjuster cannot be mounted afterward.
- There is no piping port on the ide surface of the product. As there is no magnet in the ouffer mechanism, auto switches

Adjuster Mounting Position



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

When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.



Air Slide Table Height Interchangeable Type RoHS SA-MXQ Series Ø 6, Ø 8, Ø 12, Ø 16, Ø 20, Ø 25

How to Order 25A-MXQ 12 M9BW 30 Series compatible with 6 secondary batteries 2 Body option

Bore	Standard type	Symmetric type	Standard stroke [mm]			
size		L				
6	Port Switch mounting groove	Switch mounting groove Port	10, 20, 30, 40, 50			
8			10, 20, 30, 40, 50, 75			
12		- 5 648 9	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*			

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



auto switche						
	2					
S	1					
n	n					

6 Auto switch

Without auto switch (Built-in magnet)

For applicable auto switches, refer to page 207.

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)

Adjuster options/Functional option combinations

		Adjuster type ^{*6}			Adjuster mounting position*1		Functional option combination							
							—	1 2	2	3	4	5		
Symbol						Retraction stroke end	Without functional option	*2*7 With buffer	With end lock	*5 Axial piping	*2*7 With buffer, end lock	*2*5*7 With buffer, axial piping		
Ζ	W	Without adjuster					0	0	0	0	0	0		
ZA	ļ				•		0	×	×	0	×	×		
ZB	M	Metal stopper with bumper			•		0	×	0	0	×	×		
ZC							0	×	×	0	×	×		
ZD	Į				•		0	×	×	0	×	×		
ZE	Rı	ubber stopper	•				0	0	0	0	0	0		
ZF							0	×	×	0	×	×		
ZG		Shock absorber/RJ					0	×	×	0	×	×	- *1	•: Shipped together with the product, but not assembled
ZH	Sł						0	×	0	0	×	×		
ZJ							0	×	×	0	×	×		Without any symbol for the
ZK	Į						0	×	×	0	×	×		adjuster mounting position: Th
ZL	M	etal stopper					0	0	0	0	0	0		adjuster can be mounted
ZM							0	×	×	0	×	×		afterward. For the buffer mechanism, th
ZN	Į			Without adjuster			0	0*4	×	0	×	0*4	-	buffer stroke will be shorter for
ZP	e.	horter total		Rubber stopper			0	×	×	0	×	×		the stroke that is adjusted by t
ZQ		onath type*3		Shock absorber/RJ			0	×	×	0	×	×	*3	extension stroke end adjuster
ZS	liei			Metal stopper with bumper				×	×	0	×	×		Extension stroke end adjuster
ZT			adjuster	Metal stopper	/		0	×	×	0	×	×		mounting holes have been
ZBF	5	Metal		Rubber stopper			0	×	×	0	×	×	*4	removed to reduce the total
ZBJ	adjuster	stopper with	end	Shock absorber/RJ			0	×	×	0	×	×		length of the table. The shorter total length type c
ZBM	등	bumper		Metal stopper			0	×	×	0	×	×		be used, but a retraction strok
ZEC		Rubber	stroke	Metal stopper with bumper			0	×	×	0	×	×		end adjuster cannot be mount
ZEJ	end	stopper	str	Shock absorber/RJ	•		0	×	×	0	×	×		afterward.
ZEM		stopper	5	Metal stopper			0	×	×	0	×	×	*5	There is no piping port on the
ZHC	stroke	Shock absorber/RJ	ction	Metal stopper with bumper	•		0	×	×	0	×	×		side surface of the product.
ZHF			Retra	Rubber stopper			0	×	×	0	×	×	-	The metal stopper with bumpe
ZHM	sion		Ъ	Metal stopper			0	×	×	0	×	×		option is not available for \emptyset 6.
ZLC	SUS	Matal		Metal stopper with bumper			0	×	×	0	×	×		As there is no magnet in the buffer mechanism, auto
ZLF	Exten:	Metal		Rubber stopper			0	×	×	0	×	×		switches cannot be used on th
ZLJ	ш	stopper		Shock absorber/RJ			0	×	×	0	×	×		buffer part.

Adjuster Mounting Position

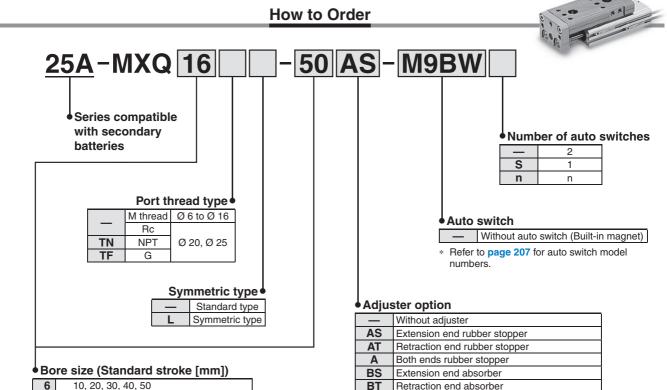


When the shock absorber, metal stopper with bumper, or adjuster option with metal stopper is used, metal-to-metal collisions occur, and may generate dust particles.

When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.



Air Slide Table **25A-MXQ Series** \emptyset 6, \emptyset 8, \emptyset 12, \emptyset 16, \emptyset 20, \emptyset 25



В

CS

CT C

series.

Double absorber

may generate dust particles.

Double metal stopper

Extension end metal stopper Retraction end metal stopper

 ASBT
 Extension end adjustor + Retraction end absorber

 ASCT
 Extension end adjustor + Retraction end metal stopper

 BSAT
 Extension end absorber + Retraction end adjuster

 BSCT
 Extension end absorber + Retraction end metal stopper

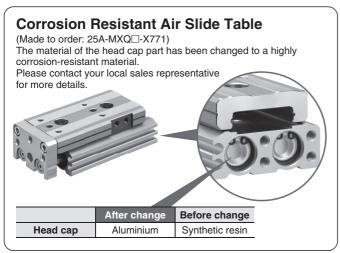
 CSAT
 Extension end metal stopper + Retraction end adjuster

 CSBT
 Extension end metal stopper + Retraction end adjuster

 With shock absorber is not available in the 25A-MXQ6

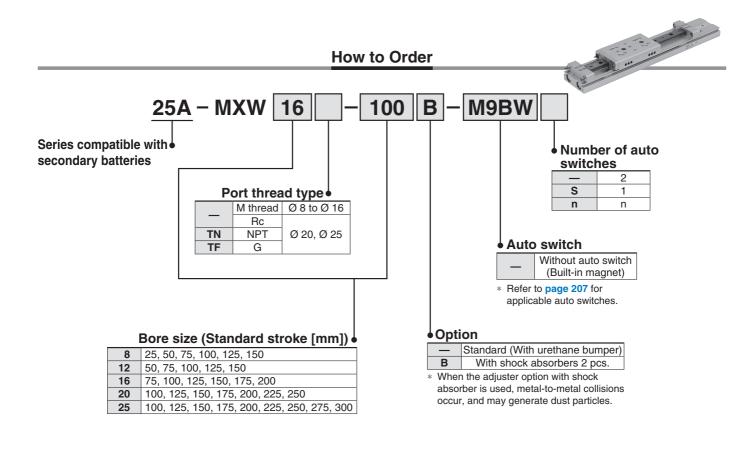
When the adjuster option with shock absorber or metal stopper is used, metal-to-metal collisions occur, and

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

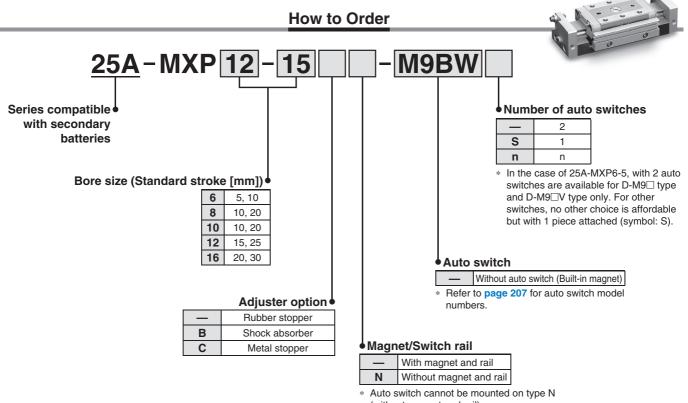




Air Slide Table RoHS 25А-МХУ Series Ø 8, Ø 12, Ø 16, Ø 20, Ø 25





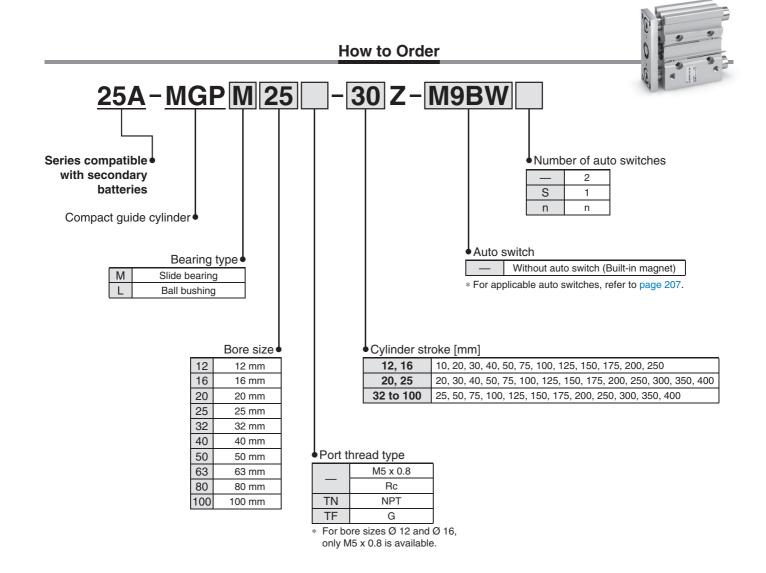


(without magnet and rail).

* Adjuster for 25A-MXP6 series is available for one side only

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

Compact Guide Cylinder RoHS **25A-MGP Series** Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100



Compact Guide Cylinder/With Air Cushion $\begin{array}{c} 25A-MGP Series \\ \varnothing \ 16, \ \varnothing \ 20, \ \varnothing \ 25, \ \varnothing \ 32, \ \varnothing \ 40, \ \varnothing \ 50, \ \varnothing \ 63, \ \varnothing \ 80, \ \varnothing \ 100 \end{array}$

How to Order 25A-MGPM 32 -50 AZ-M9BW Series compatible Number of auto switches with secondary 2 batteries S 1 n n Compact guide cylinder Auto switch Without auto switch Bearing type (Built-in magnet) Μ Slide bearing For applicable auto switches, refer Ball bushing Т to page 207. With air cushion Bore size 16 16 mm 20 20 mm Cylinder stroke [mm] 25 25 mm Bore size Standard stroke 32 32 mm 16 25, 50, 75, 100, 125, 150, 175, 200, 250 40 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400 40 mm 20 to 63 50 50 mm 80, 100 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400 63 63 mm 80 80 mm Port thread type 100 100 mm M5 x 0.8 Rc

> TF G * For bore size 16, only M5 x 0.8 is available.

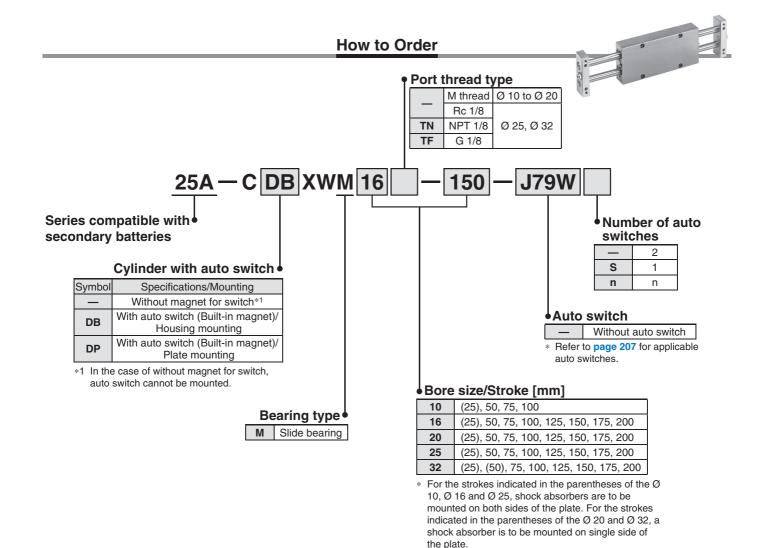
NPT

ΤN

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

RoHS

Slide Unit: Built-in Shock Absorber Slide Bearing Type 25A-CXVVN Series Ø 10, Ø 16, Ø 20, Ø 25, Ø 32



Built-in Magnet Cylinder Model

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

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

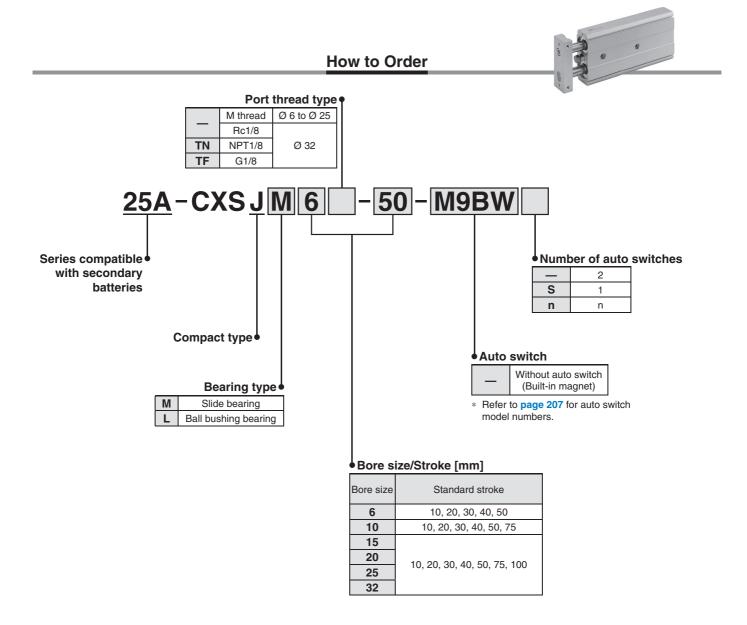
For the strokes other than those indicated above, refer to the **Catalogue at www.smc.eu**.

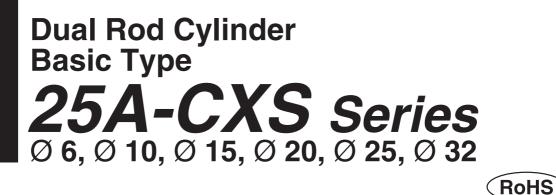
For Ø 16, Ø 20 and Ø 25, strokes up to 300, and for

Ø 32, strokes up to 250 are available as Made-to-

Order.

Dual Rod Cylinder/Compact Type RoHS $\begin{array}{c} \textbf{BOHS}\\ \textbf{25A-CXSJ Series}\\ \emptyset \ 6, \ \emptyset \ 10, \ \emptyset \ 15, \ \emptyset \ 20, \ \emptyset \ 25, \ \emptyset \ 32 \end{array}$





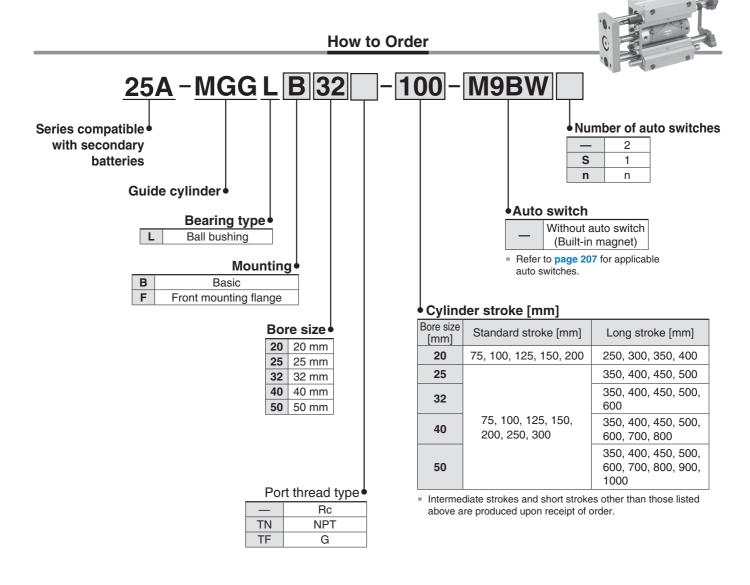
How to Order Port thread type M thread Ø 6 to Ø 20 Rc1/8 ΤN **NPT1/8** Ø 25, Ø 32 TF G1/8 Slide 25A-CXSM 25 100 - Y7BW bearing type •Number of auto switches Series compatible with 2 secondary batteries S 1 n n Bearing type M Slide bearing Auto switch — Without auto switch (Built-in magnet) Bore size/Stroke [mm] Refer to page 207 for applicable auto switches. Standard stroke [mm] Bore size 10, 20, 30, 40, 50 6 10, 15, 20, 25, 30, 35, 40, 45, 10 50, 60, 70, 75 15, 20 10, 15, 20, 25, 30, 35, 40, 45, * The 25A- series specifications and dimensions 25, 32 50, 60, 70, 75, 80, 90, 100 are the same as those of the standard model. Port thread type M thread Ø 6 to Ø 20 Rc1/8 ΤN **NPT1/8** Ø 25, Ø 32 TF G1/8 **Ball bushing** 25A-CXSL 100 - Y7BW 20 bearing type Number of auto switches Series compatible with 2 secondary batteries S 1 n n Bearing type Ball bushing bearing L Auto switch Without auto switch (Built-in magnet) Bore size/Stroke [mm] * Refer to page 207 for applicable auto Standard stroke [mm] Bore size switches. 10, 20, 30, 40, 50 6 10, 15, 20, 25, 30, 35, 40, 45, 10 50, 60, 70, 75 15, 20 10, 15, 20, 25, 30, 35, 40, 45,

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

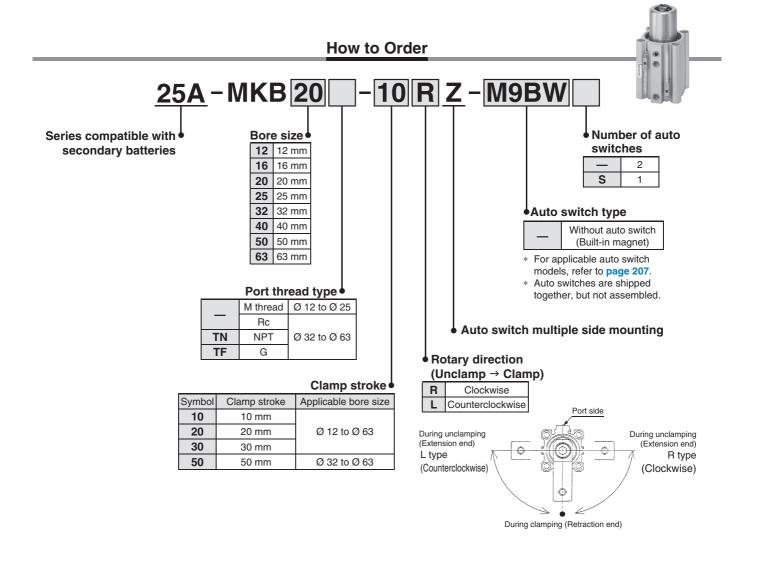
50, 60, 70, 75, 80, 90, 100

25, 32

Guide Cylinder 25A-MGG Series Ø 20, Ø 25, Ø 32, Ø 40, Ø 50

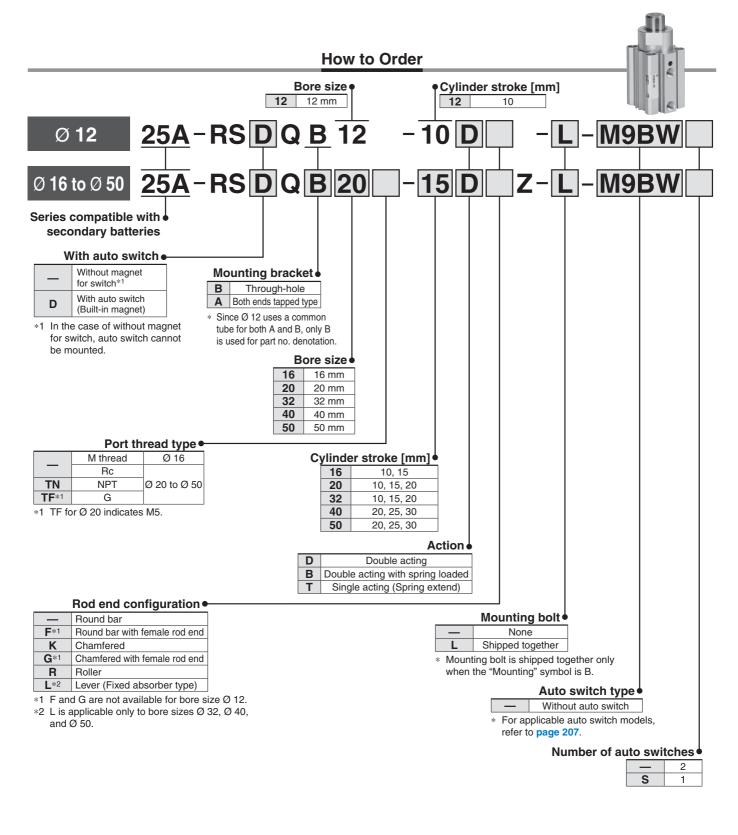


Rotary Clamp Cylinder: Standard (RoHS) **25A-NK Series** Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63



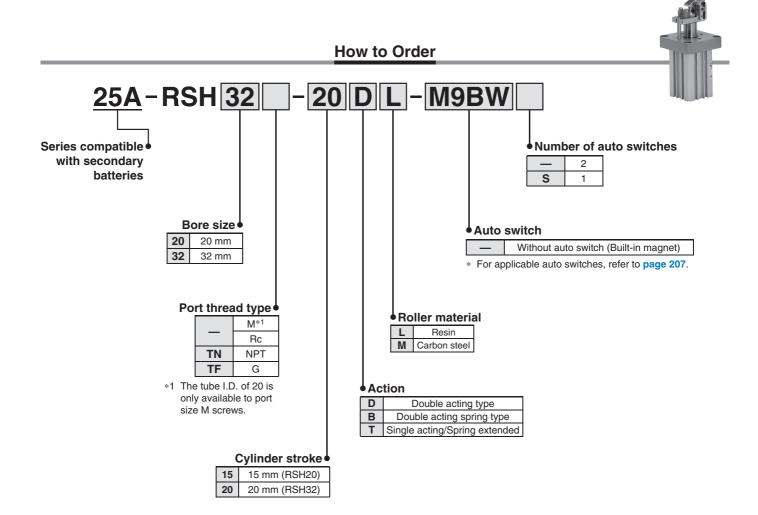
* The coil scraper is not built-in.

Stopper Cylinder/Fixed Mounting Height RoHS $\begin{array}{c} \textbf{25A-RSQ} & \textbf{Series} \\ \varnothing 12, \varnothing 16, \varnothing 20, \varnothing 25, \varnothing 32, \varnothing 40, \varnothing 50 \end{array}$





Heavy Duty Stopper Cylinder **25A-RSH Series** Ø 20, Ø 32



Shock Absorber Soft Type **25A-RJ Series**

How to Order

25A - RJ 0604 25A - RJ 0806 H U

Series compatible with secondary batteries

Shock absorber/Soft type

O.D. thread size/Stroke

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

Option

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

1

RoHS

With cap

—	Basic type		
U	With urethane cap		

Collision speed range

Н	0.05 to 2 m/s
L	0.05 to 1 m/s
* B.1060)4·0.05 to 1.0 m/s

* RJ2725H: 0.05 to 1.5 m/s

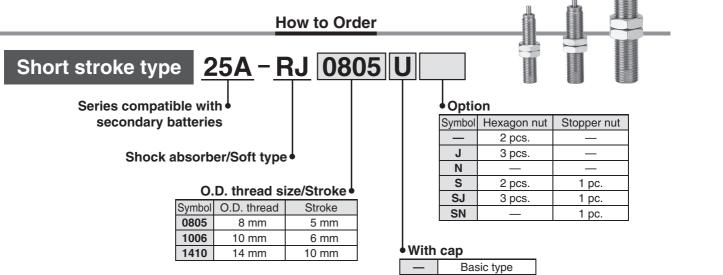
Hexagon Nut, Stopper Nut (Option) Part Nos. for the 25A- Series

				Thread size		
		M8	M10	M14	M20	M27
Hexagon nut		25-RB08J	25-RB10J	25-RB14J	25-RB20J	25-RB27J
Stoppor 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

Shock Absorber Short Stroke Type 25A-RJ Series



U

With urethane cap

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

			Thread size	
		M8	M10	M14
Hexagon nut		25-RB08J	25-RB10J	25-RB14J
Stopper put	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

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

RoHS



Stroke

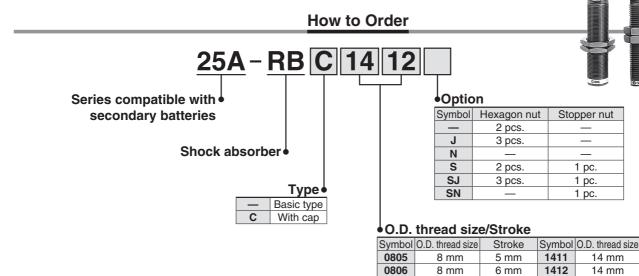
11 mm

12 mm

15 mm

25 mm

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
Ctonner 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

1006

1007

10 mm

10 mm

Treatment: Electroless nickel plating

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

2015

2725

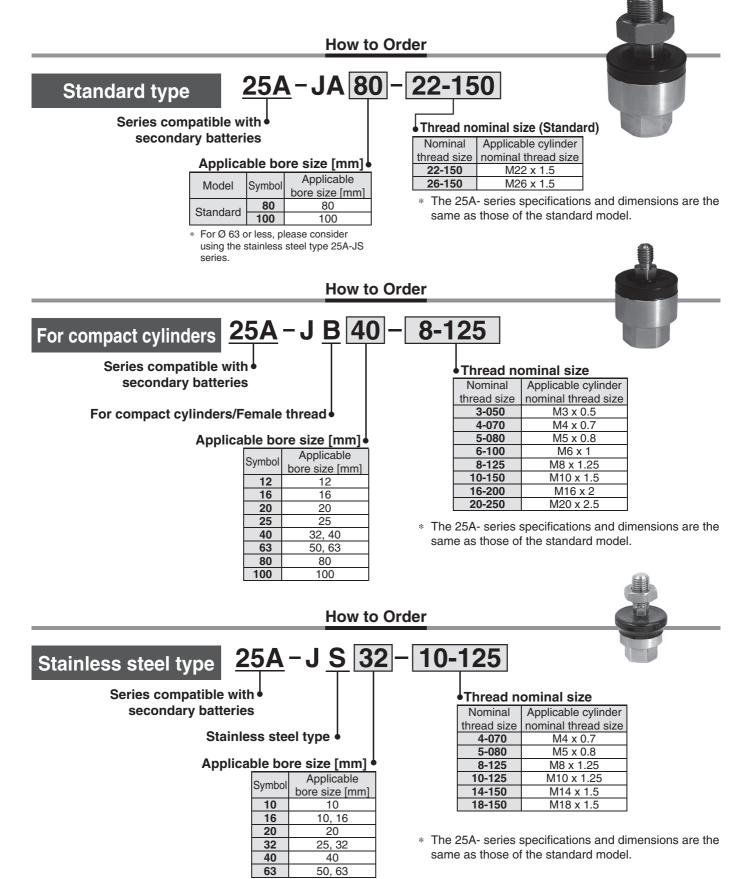
20 mm

27 mm

6 mm

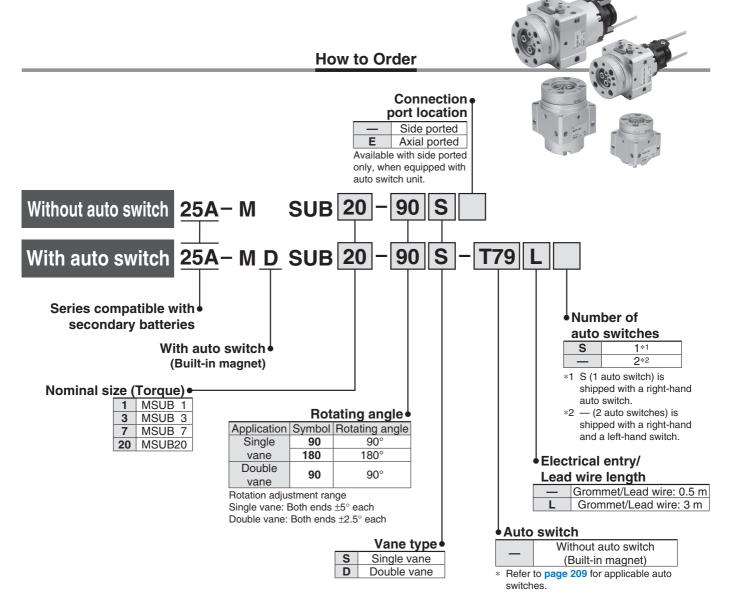
7 mm

Floating Joint **25A-J** Series



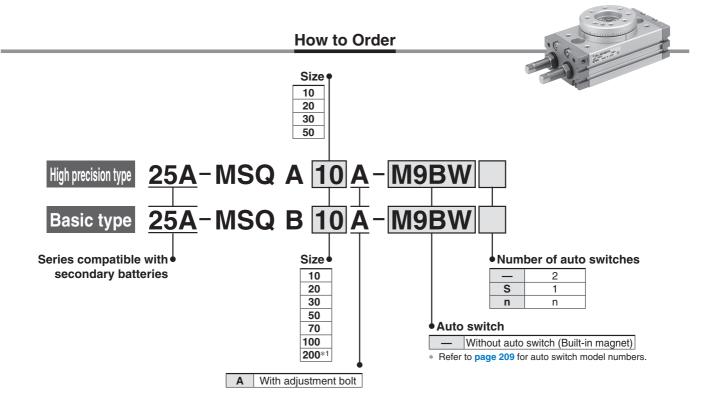
RoHS

Rotary Table: Vane Type **25A-MSUB Series** Size: 1, 3, 7, 20 RoHS



- * 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 RoHS

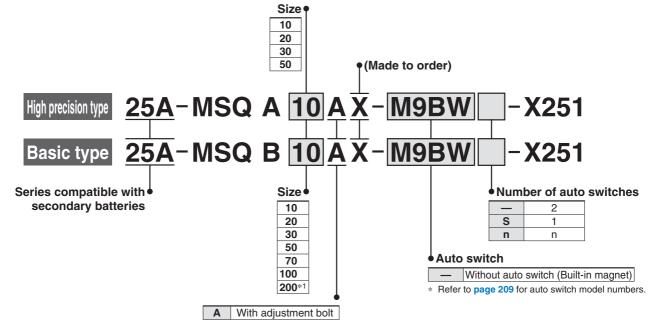


* Zinc is used in part of deep groove ball bearing and seal washer.

Side port cannot be used.
*1 Size 200 are produced upon receipt of order.

* 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.

*1 Size 200 are produced upon receipt of order.

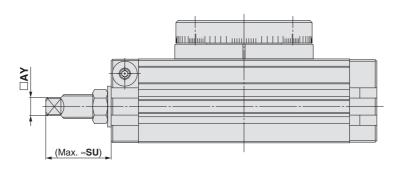
* Some parts have sizes and shapes that are different from the standard products.



25A-MSQ Series

Dimensions

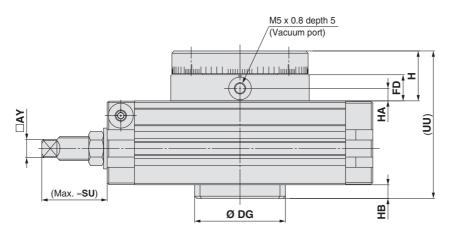
25A-MSQB



		[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

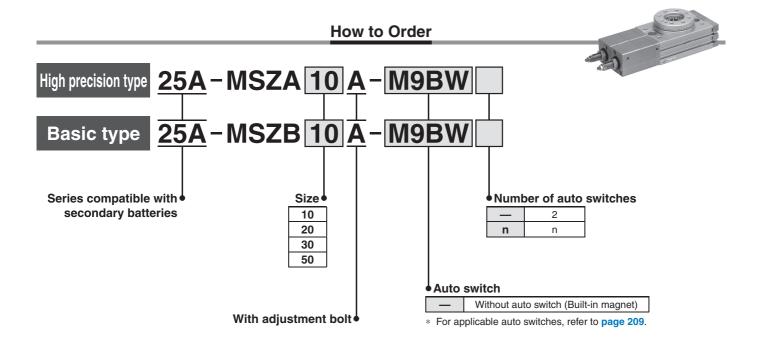


								[mm]
Size	AY	DG	FD	Н	HA	HB	SU	UU
10	6	35h9	11.5	20	5.5	5	23.7	59
20	8	40h9	11.5	22	5.5	6	33	65
30	8	48h9	11.5	22	5.5	6	33	68
50	10	54h9	11.5	24	5.5	7	42.9	77
70	16	50h9	12	25	6	7	44.2	85
100	16	52h9	12	27	6	7	44.3	93
200	21	64h9	15	32	7.5	8	52.2	114

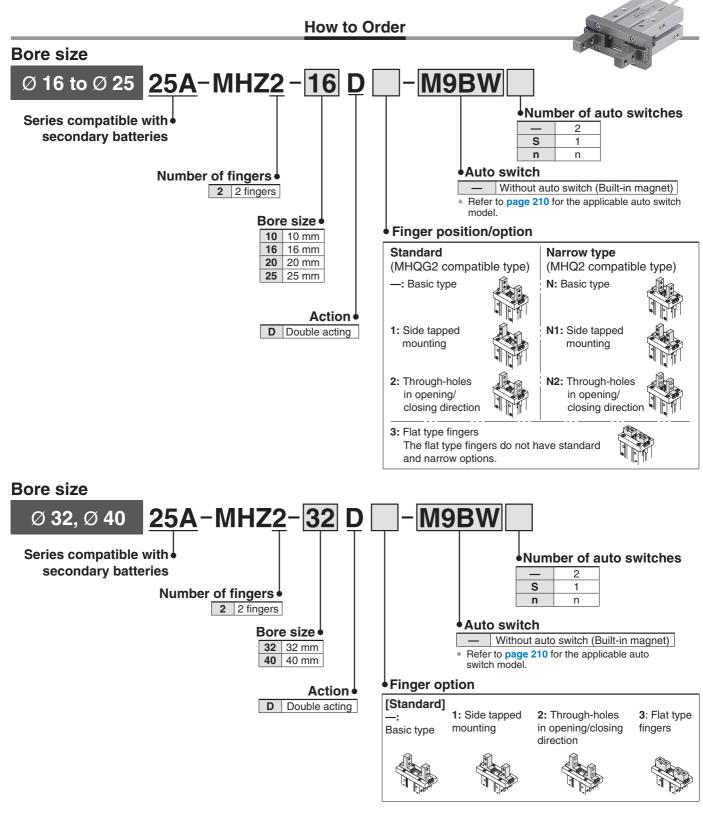
 $\ast~$ The product with the vacuum port has no hollow shaft at its rotation centre.

* Dimensions other than those shown above are identical to the standard products.

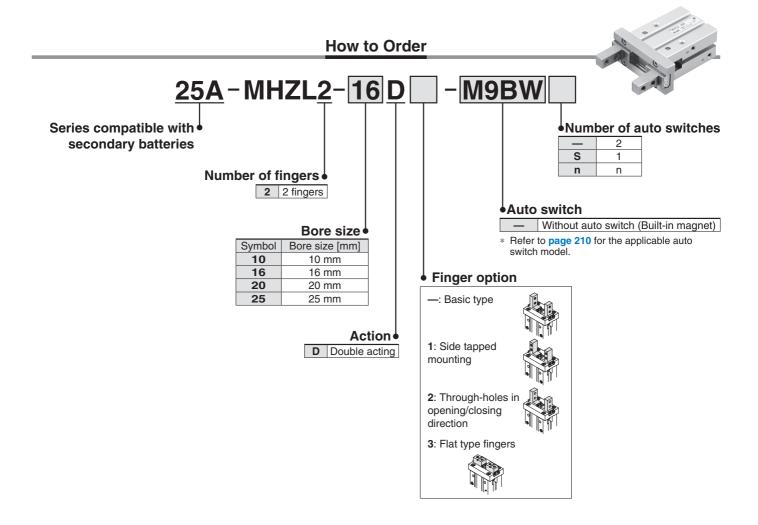
3-Position Rotary Table **25A-MSZ Series** Size: 10, 20, 30, 50



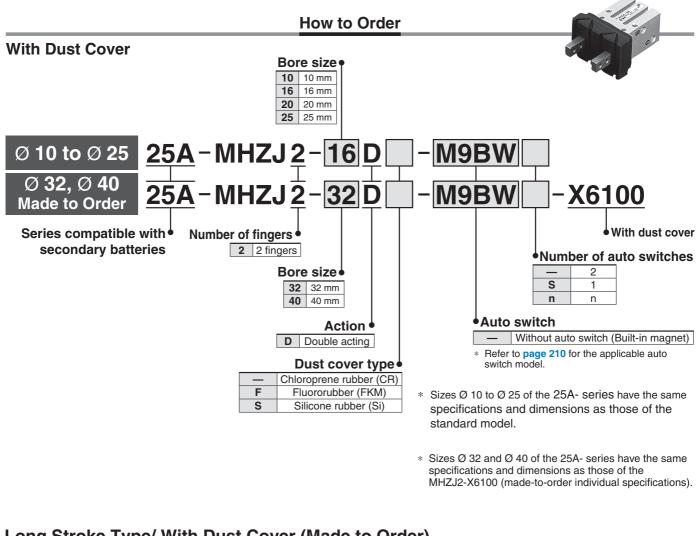
Parallel Type Air Gripper Standard Type **25A-MHZ2 Series** Ø 10, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40 RoHS



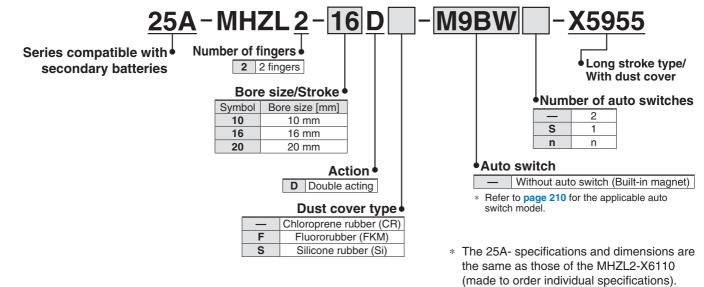
Parallel Type Air Gripper Long Stroke Type 25A-MHZL2 Series RoHS



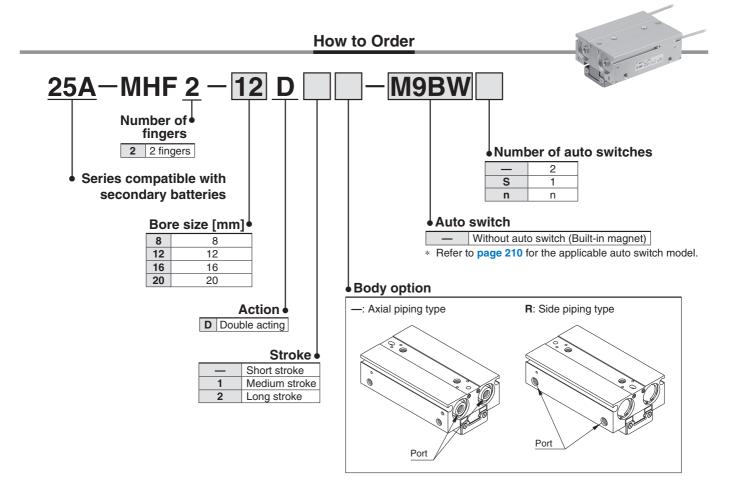




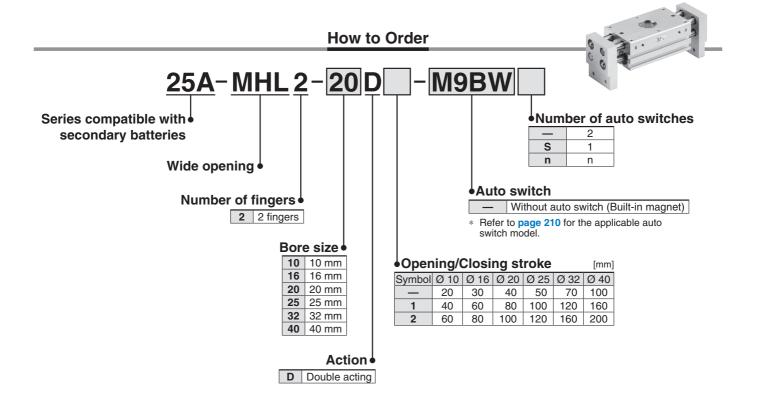
Long Stroke Type/ With Dust Cover (Made to Order)



Low Profile Air Gripper 25A-MHF2 Series RoHS

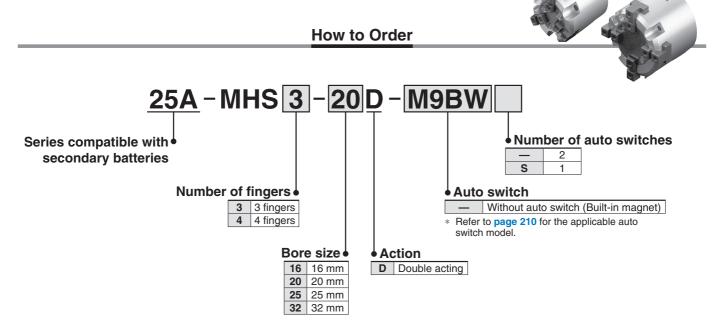


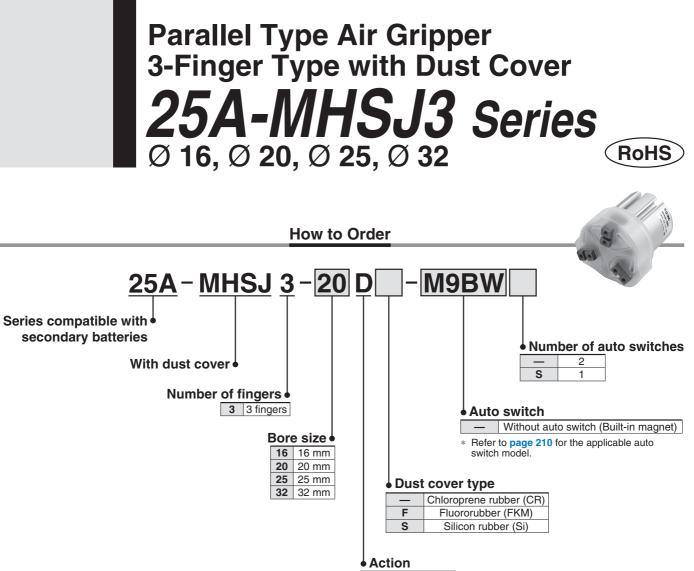
Parallel Type Air Gripper: Wide Type 25A-MHL2 Series \emptyset 10, \emptyset 16, \emptyset 20, \emptyset 25, \emptyset 32, \emptyset 40 RoHS



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

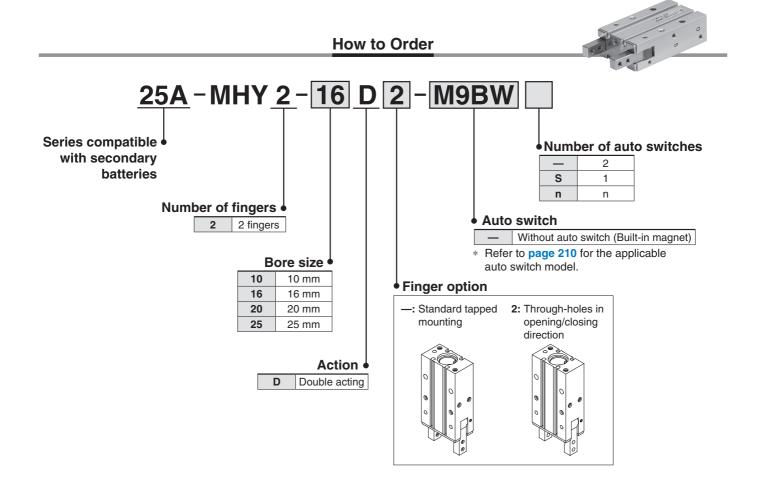
Parallel Type Air Gripper 25A-MHS Series Ø 16, Ø 20, Ø 25, Ø 32





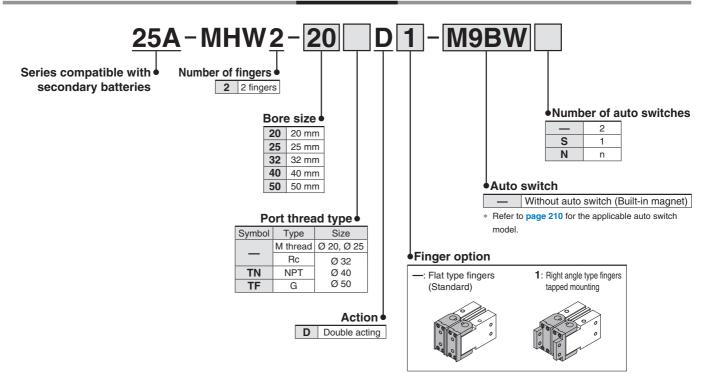
D Double acting

180° Angular Type Air Gripper Cam Type 25A-MHY2 Series \emptyset 10, \emptyset 16, \emptyset 20, \emptyset 25



180° Angular Type Air Gripper Rack & Pinion Type $\begin{array}{c} \textbf{25A-MHV2 Series}\\ \varnothing \ \textbf{20}, \varnothing \ \textbf{25}, \varnothing \ \textbf{32}, \varnothing \ \textbf{40}, \varnothing \ \textbf{50} \end{array}$

How to Order



* Change of material and surface treatment are not available for the bearing or the parallel key.

* As metal-to-metal collision occurs when the fingers are fully closed, dust particles may be generated.

Ejector System Vacuum Unit (E 25A-ZK2 A Series RoHS

Single Unit Ejector + With Valve + Without Energy Saving Function

How to Order



Body/Exhaust type

Symbol	Body	Exhaust type
A		Silencer exhaust*1
в	Single unit	Port exhaust
G		High-noise reduction silencer exhaust

*1 With exhaust port when 2 is 12 or 15

4 Rated voltage (Supply valve/Release valve)

Symbol	Voltage
5	24 VDC
6	12 VDC

5 Pressure switch for vacuum/Pressure sensor

		Duese		Spe	cifications
Symbol	Туре	Pressure range [kPa]	NPN	PNP	With unit selection
			2 ou	tputs	function*3
Α				—	•
В	for	0 to -101		—	None (SI unit only)
С	tch	010-101	—		•
D	inn		—		None (SI unit only)
Ε	ure /acı			—	•
F	Pressure switch for vacuum	-100 to 100		—	None (SI unit only)
Н	Pre	-100 10 100	—		
J			—		None (SI unit only)
Ρ	Pressure	0 to -101	٨		output 1 to 5 V
Т	sensor	-100 to 100	A	lalogue	
Ν	Without p	ressure switch for	or vacu	um/pres	sure sensor

N Without pressure switch for vacuum/pressure sensor

*3 The unit selection function is not available in Japan due to the New Measurement Law. The unit for the type without the unit selection function is fixed as kPa.

Vacuum (V) port

Symbol	Vacuum (V) port
06	Ø 6
08	Ø 8

2)	Nor	ninal	nozzle	size

Symbol Nominal nozzle size 07 Ø 0.7 10 Ø 1.0

 12
 Ø 1.2

 15
 Ø 1.5

 * The standard supply pressure of each nozzle diameter is the same as that of the corresponding standard product.

 R
 - •*2
 •

 *2
 Supply valve maintains vacuum by energisation (20 ms or

Self-holding

Release valve

N.C

Combination of supply valve and release valve

Supply valve

N.C

more). Stopping the vacuum turns on the release valve.

6 Connector (Supply valve/Release valve/Pressure switch for vacuum)

Symbo

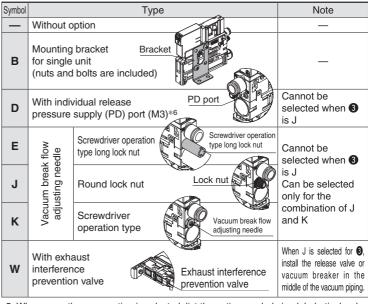
Κ

J

-		/		/
Symbol	For supply valve/ release valve: 300 mm (Connector assembly)*4	For pressure switch for vacuum: 2 m (Lead wire with connector)	Pressure sensor assembly: 3 m (With lead wire)	Note
L	•			Cannot be selected
L1	None			when 🗿 is N
L2	•	No	ne	Cannot be selected
L3	None	No	ne	when is P or T

*4 For the connector length other than 300 mm, order the connector assembly on page 140-5 separately.

8 Option*5 (For details on the Function/Application, refer to page 140-6.)



*5 When more than one option is selected, list the option symbols in alphabetical order. (Example -BJ)

*6 Use a One-touch fitting or barb fitting for piping. (O.D.: Within Ø 6.2)

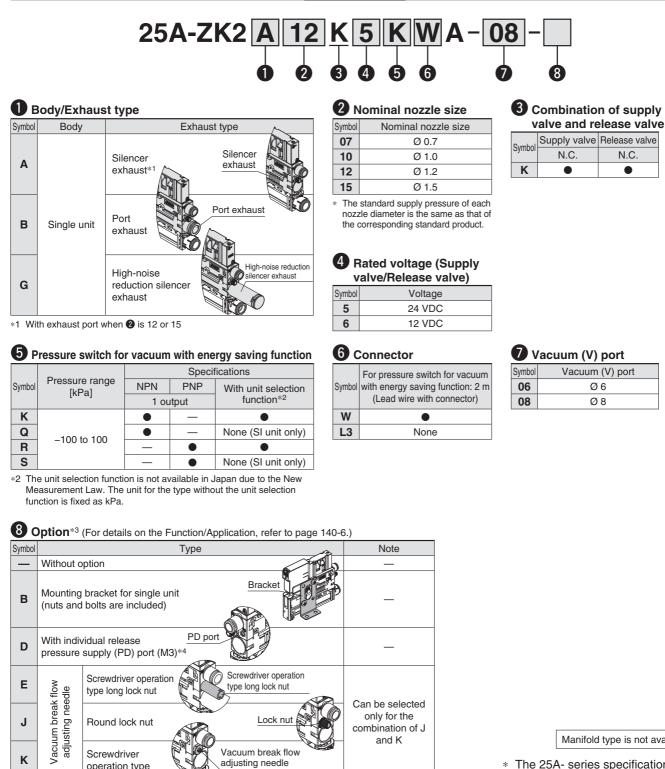
* The 25A- series specifications and dimensions are the same as those of the standard model.

Manifold type is not available.



Ejector System Vacuum Unit E 25A-ZK2 A Series ROHS Single Unit Ejector + With Valve + With Energy Saving Function

How to Order



*3 When more than one option is selected, list the option symbols in alphabetical order. (Example -BJ) *4 Use a One-touch fitting or barb fitting for piping. (O.D.: Within Ø 6.2)

Manifold type is not available.

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

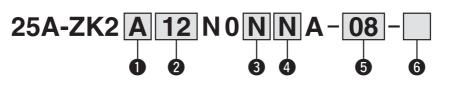
operation type



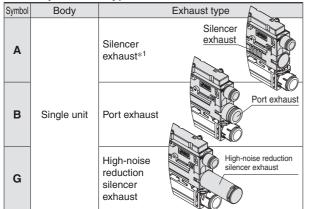
Ejector System Vacuum Unit CE 25A-ZK2 A Series RoHS

Single Unit Ejector + Without Valve + Without Energy Saving Function

How to Order



Body/Exhaust type



*1 With exhaust port when 2 is 12 or 15

2 Nominal nozzle size Symbol Nominal nozzle size 07 Ø 0.7 Ø 1.0 10 12 Ø 1.2 15 Ø 1.5 The standard supply

pressure of each nozzle diameter is the same as that of the corresponding standard product.

4 c	connector	
Symbol	For pressure switch for vacuum: sensor 2 m (Lead wire with connector) (With lead wire)	Note
Y	٠	Cannot be selected when (3) is N
Y1	None	Cannot be selected when (3) is P, T, or N
Ν	None	When "N" is selected for 3

3 Pressure switch for vacuum/Pressure sensor

		_		Spe	cifications
Symbol	Туре	Pressure range [kPa]	NPN	PNP	With unit selection
		Tange [Ki a]	2 ou	tputs	function*2
Α				—	
В	for	0 to -101		—	None (SI unit only)
С	Pressure switch for vacuum	010-101	—		•
D	swi		—		None (SI unit only)
Ε	ure /acı			—	
F	- SSI	-100 to 100		—	None (SI unit only)
Н	Pre	-100 10 100	—		•
J					None (SI unit only)
Ρ	Pressure	0 to -101	٨٣		output 1 to 5 V
Т	sensor	-100 to 100	AI	laiogue	
Ν	Without p	ressure switch fo	or vacuu	ım/pres	sure sensor

*2 The unit selection function is not available in Japan due to the New Measurement Law. The unit for the type without the unit selection function is fixed as kPa.

5 v	acuum (V) port	6 c	ption*3 (For details on the Fun	ction/Application, refer to page 140-	6.)
Symbol	Vacuum (V) port	Symbol		уре	Note
06	Ø 6	—	Without option	8-D)	—
08	Ø8	в	Mounting bracket for single unit (nuts and bolts are included)	Bracket	_
		w	With exhaust interference prevention valve	Exhaust interference prevention valve	Install the release valve or vacuum breaker in the middle of the vacuum piping.

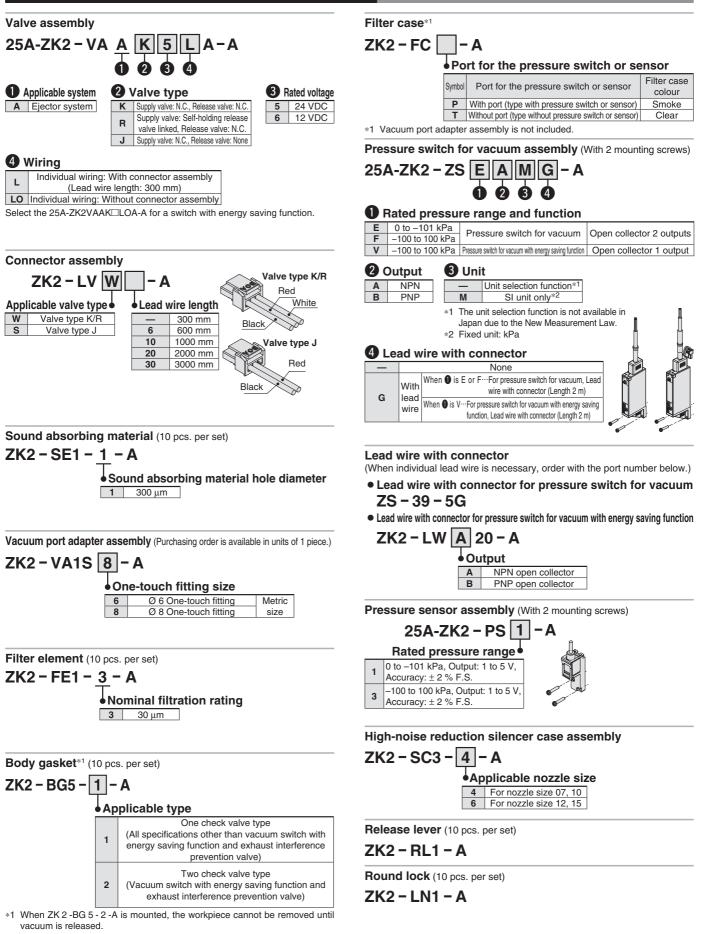
*3 When more than one option is selected, list the option symbols in alphabetical order. (Example -BW)

Manifold type is not available.



25A-ZK2 A Series

Replacement Parts for Single Unit / How to Order





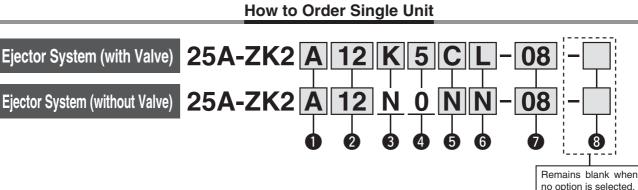
Vacuum Unit **25A-ZK2** A Series

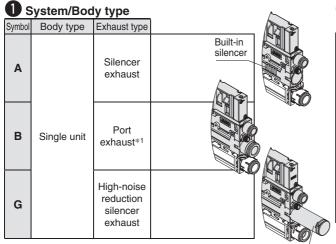
_

Optional Specifications/Functions/Applications

Symbol			Туре	Function/Application
в	Mounting brack (nuts and bolts	ket for single unit are included)	Bracket	 Use when a single unit is mounted to the floor in an upright position is requested. If only ordering the bracket, the product number is as follows: 25A-ZK2-BK1-A (includes nuts and bolts).
D	With individual supply (PD) po	release pressure ort (M3)	PD port	· Use when supply pressure for vacuum release is individually requested.
Е		Screwdriver operation type long lock nut	Screwdriver operation type long lock nut	· Used when the needle adjustment operation is difficult
J	Vacuum break flow adjusting needle	Round lock nut	Lock nut	 Thicker than standard hexagon type. More suitable for hand tightening. Round lock nut improves operability when the port exhaust type is used.
к		Screwdriver operation type	Vacuum break flow adjusting needle	· Slotted type improves fine adjustment performance when the port exhaust type is used.
w	With exhaust ir prevention valv		Exhaust interference	• 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.

Vacuum Unit (E RoHS 25A-ZK2 Series





*1 Port size of exhaust port: Ø 8 (Metric)

With silencer

Combination of supply valve

а	nd release valve*3		
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	
	ly non looking type is ever	lable for the man	ual override for "K" " I" and "P"

*3 Only non-locking type is available for the manual override for "K," "J," and "R."
 *4 Self-holding type maintains vacuum by instantaneous energisation (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 (3) Combination of supply valve and release valve.

Pressure sensor/Digital pressure switch for vacuum specifications

Symbol	Туре	Pressure range [kPa]	9	Specifications	Pressure sensor
Р	Pressure	0 to -101	Analo	gue output 1 to 5 V	
т	sensor	-100 to 100	Analo	gue output 1 to 5 V	
A B		0 1 101	NPN 2 outputs	Unit selection function SI unit only*7	Digital pressure switch for vacuum
C D	Digital pressure	0 to –101	PNP	Unit selection function SI unit only*7	
E F	switch for vacuum	-100 to 100	NPN	Unit selection function SI unit only*7	Digital pressure
H J		-100 to 100	PNP 2 outputs	Unit selection function SI unit only*7	with energysaving function
K Q	Digital pressure switch for vacuum	–100 to 100	NPN 1 output	Unit selection function SI unit only ^{*7}	
R S	with energy saving function*9	-100 10 100	PNP 1 output	Unit selection function SI unit only ^{*7}	
N		Vithout pres		ensor/ for vacuum	

*7 Fixed unit: kPa

* When "K," "Q," "R," or "S" is selected, select "K" for O Combination of supply valve and release valve. Select "W" or "L3" for O.

2 N	lominal nozzl	e size
Symbol	System	Nominal size
07		Ø 0.7
10	Ejector	Ø 1.0
12	system*2	Ø 1.2
15		Ø 1.5

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

Manifold type is not available.

A Rated voltage*6 Symbol Voltage



*6 Rated voltage for the supply and release valve



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
 V: Vacuum port
 EXH: Exhaust port
 PE: Pilot pressure exhaust port

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

Symbol	3 For supply val	ve/release valve*10		1
Symbol		Lead wire with connector	connector for pressure switch/ sensor*13	
L		○ *11	⊜*14	
L1		×*12	<u></u> *14	
L2	L-type plug connector	<u></u> ()*11	×* ¹⁵	
L3		×*12	×* ¹⁵	
w			ire for switch with aving function	
Y		valve	○*14	
Y1		y/release valve) selected for 3	×	
N		elected for both ly/release valve, sor)	• • • •	

*10 Solenoid valve with light/surge voltage suppressor

*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 S 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.

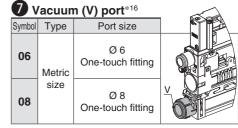
Single Unit and Options*22

System/ Body type	2 Nominal nozzle size	3 Combination of supply valve and release valve	4 Rated voltage		6 Supply valve/release valve/digital pressure switch for vacuum connector specifications		Optionalspecifications
		к		P/T A/B/C/D/E/F/H/J N	L/L1 L/L1/L2/L3 L2/L3		B/D/J/K/W
			5	K/Q/R/S P/T	L3/W		B/D/J/K
	07 10	R	6	A/B/C/D/E/F/H/J	L/L1/L2/L3	06	B/D/J/K/W
A/B/G	12			N P/T	L2/L3 L/L1	08	
	15	J		A/B/C/D/E/F/H/J N	L/L1/L2/L3 L2/L3		B/W
				P/T	Y		
		N	0	A/B/C/D/E/F/H/J	Y/Y1		B/W
				Ν	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 Catalogue at www.smc.eu when mounting single unit to DIN rail.



*16 Supply (PV) port size of single unit: Ø 6

8 Optional Specifications*17

Symbol	Туре
_	Without option
В	With one bracket for mounting a single unit (A mounting screw is attached.)
D	With individual release pressure supply (PD) port*18
J	Vacuum break flow adjusting needle Round lock nut type
к	Vacuum break flow adjusting needle Screwdriver operation type
w	With exhaust interference prevention valve*19, *20, *21
*17 V	When more than one ontion is selected, list

*17 When more than one option is selected, list the option symbols in an alphabetical order. Example) -BJ

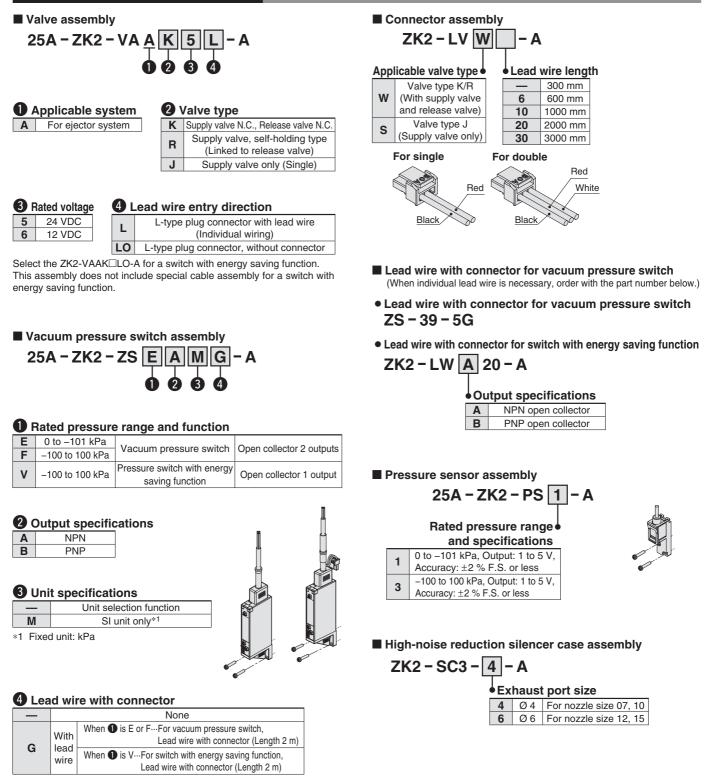
*18 Only M3 is available for PD port size. Use One-touch fittings or barb fittings with O.D. Ø 6.2 or less for piping. (Recommended fitting: M-3AU-4)

- *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 ⁽²⁾ Combination of supply valve and release valve and "W" (exhaust interference prevention valve type) is selected for ⁽²⁾ 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."

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

25A-ZK2 Series

Replacement Parts/How to Order



Vacuum Unit **25A-ZK2** Series

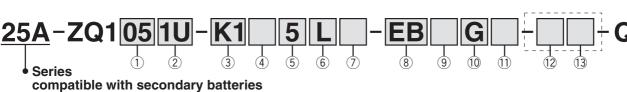
Optional Specifications/Functions/Applications

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



unit

(1) Nozzle nominal size

2 Exhaust type

05	Ø 0.5
07	Ø 0.7
10	Ø 1.0

	With silencer for single unit
3M	With silencer for manifold

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

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

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

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

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

5	24 VDC
6	12 VDC

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

Combination no.	Solenoid valve combination	Pilot valve symbol	Applicable power	supply voltage [V]
	symbol	· ···· · · · · · · · · · · · · · · · ·	24 DC	12 DC
1	K1	—		
2	K1	Y		
3	K2	—		
(4)	J1	_		
5	J1	Y	•	
6	J2	—		
7	Q1	—		
8	Q2	_		
9	N1	—	•	
10	N2	_		

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

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6 Electrical entry

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

⑦ Manual override^{*4}

_	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 "—" only. In this case, the supply valve and release valve come with a push-locking type.

8 Vacuum pressure switch suction filter*5

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

*5 The filter included in this product is of 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.

1 Check valve*8

—	None
K	With check valve

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

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

12 Fitting (V port)

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

13 Fitting (P port)

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

9 Vacuum pressure switch unit specifications

 With unit switching function 	
М	Fixed SI unit ^{*6}
Ρ	With unit switching function (Initial value psi)

*6 Fixed unit: kPa

Wacuum pressure switch lead wire specifications

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

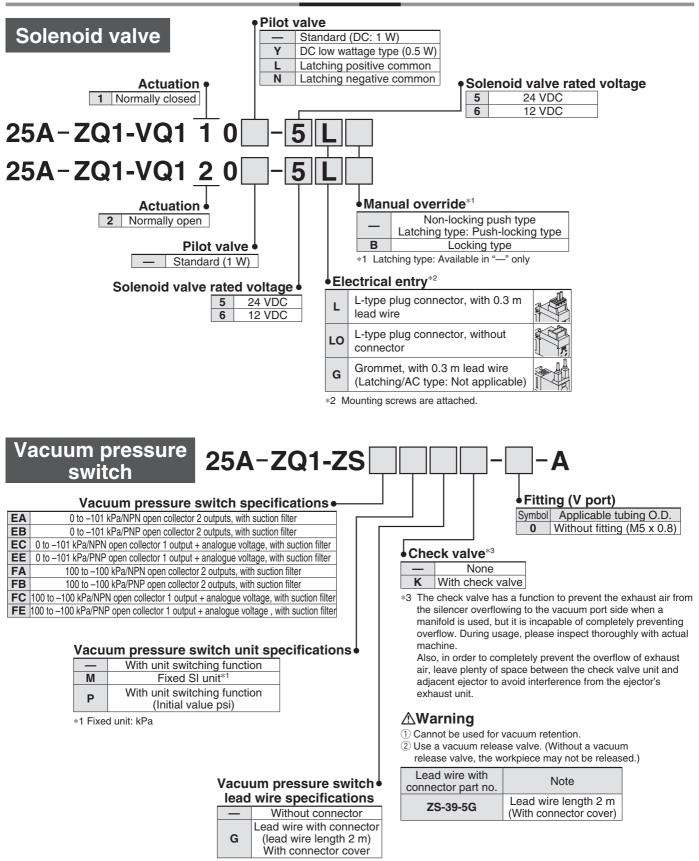
25A-ZQ Series

How to Order

Manifold 25A - ZZQ1 07 - B S C Number of stations*1 <u>01 1 station</u> <u>02 2 stations</u> <u>1 08 8 stations</u> *1 Number of stations varies according to nozzle nominal size during simultaneous operation.
Maximum Number of Stations
in Simultaneous Operation
Nozzle nominal sizeMaximum number of stations in simultaneous operationØ 0.58 stationsØ 0.76 stationsØ 1.04 stations
Air pressure supply (P) port position ● B Both sides
Exhaust •
S With silencers (Both sides)
Vacuum release pressure supply port (PD port) •
B (Delease pressure is sumplied from the D part)
 (Release pressure is supplied from the P port.) Provided (Air can be alternatively supplied from the P port.)

Space Saving Vacuum Ejector **25A-ZQ** Series

How to Order



Space Saving Vacuum Pump System **25A-ZQ Series**

How to Order

Vacuum pump unit

25A - ZQ1000 U - K1

1 Body type

U For single uni	
Μ	For manifold

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

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

The air in the adsorption section of this product is not released to the atmosphere at the vacuum suspension state.

As for "K1," "K2," "Q1" and "N1," use the vacuum release valve when a workpiece is detached. Concerning "J1," "J2," "Q2" and "N2," devise the circuit for the vacuum release additionally when a workpiece is detached.

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

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

Combination-	Solenoid valve- combination-	Filot valve	Applicable power	supply voltage [V]
no.	symbol	symbol	24 DC	12 DC
1	K1	—		
2	K1	Y		
3	K2	_		
(4)	J1	—		
5	J1	Y		
6	J2	_		
7	Q1	_		
8	Q2	_		
9	N1	—		
10	N2	—	•	•

* Combinations (1) to (10) in the above table are the only possible options.

③ Pilot valve (Refer to Table (1).)

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

 Y
 DC low wattage type (0.5 W)*2

 *2 Avoid energising 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).)

(F

5	24 VDC
6	12 VDC

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	C C C C C C C C C C C C C C C C C C C

6 Manual override*4

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

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

Vacuum pressure switch suction filter*5

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

*5 The filter included in this product is of 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

Symbol

0

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

10 Fitting (V port)*8

Applicable tubing O.D.

Without fitting (M5 x 0.8)

1 Fitting (PS / PV port)*8

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

*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".

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

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8 Vacuum pressure switch unit specifications

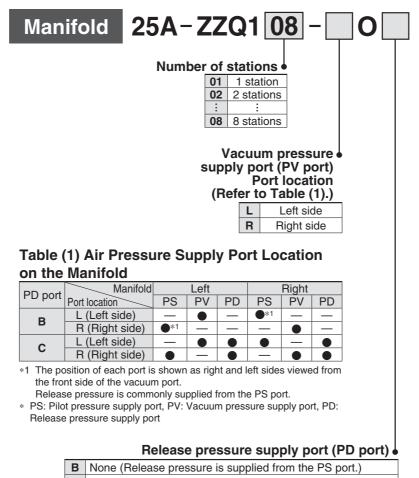
_	With unit switching function
М	Fixed SI unit ^{*6}
Р	With unit switching function (Initial value psi)

*6 Fixed unit: kPa

(9) Vacuum pressure switch lead wire specifications

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

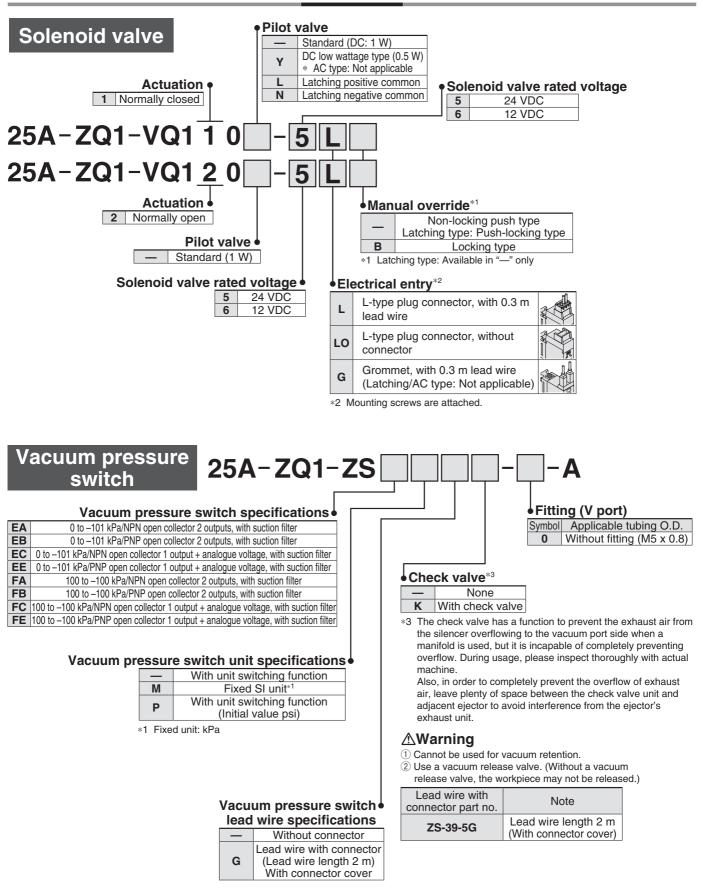
25A-ZQ Series



C Provided (Air can be alternatively supplied from the PS port.)

Space Saving Vacuum Ejector 25A-ZQ Series

How to Order

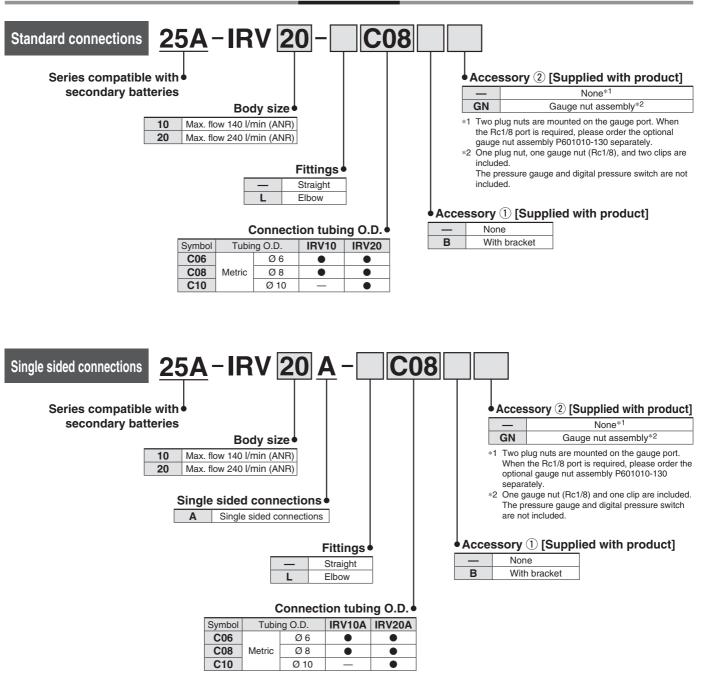




Vacuum Regulator 25A-IRV10/20 Series

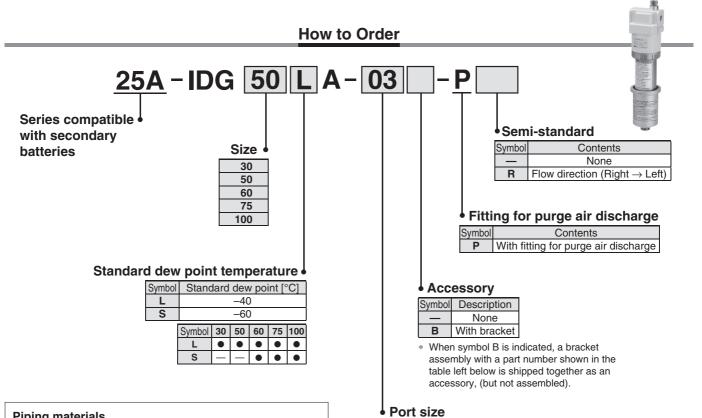
RoHS





* This product cannot be used in environments containing chemical agents such as hydrofluoric acid, etc.

Membrane Air Dryer 25A-IDG Series Single Unit/Standard Dew Point -40 °C/-60 °C Specifications



Piping materials

Piping to the outlet side with piping made of water-absorbent or hydrophilic material (nylon, etc.) may result in a rising dew point on the outlet side. Therefore, be sure to use either stainless steel or fluoropolymer piping and fittings.

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

Symbol	Doro			0.20		
Symbol	DOIE	30	50	60	75	100
02	Rc1/4		٠			_
03	Rc3/8	•	٠	٠	٠	•
04	Rc1/2	—	—	٠	٠	٠

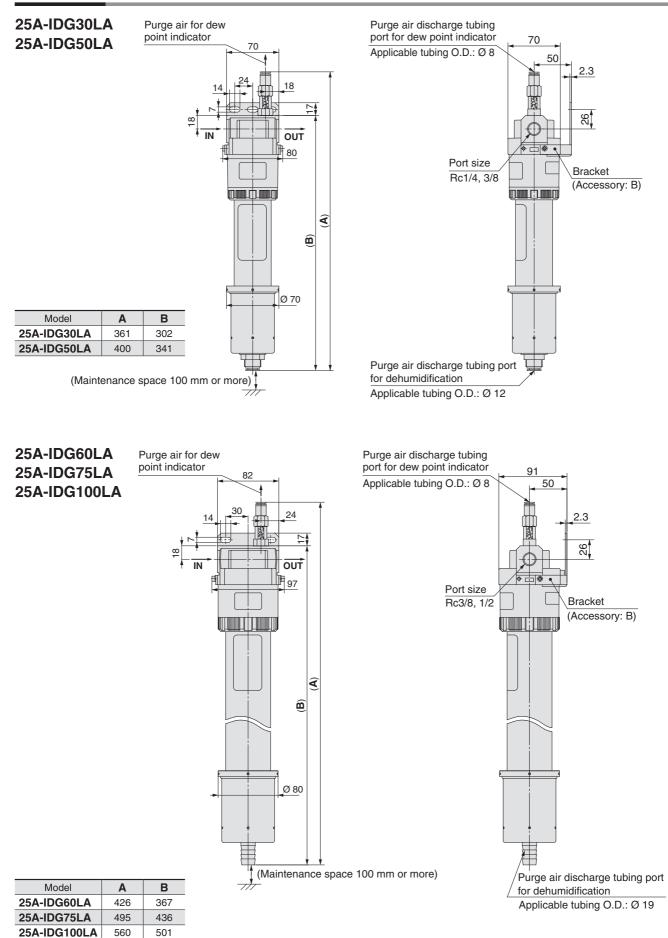
Size

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

RoHS

25A-IDG Series

Dimensions

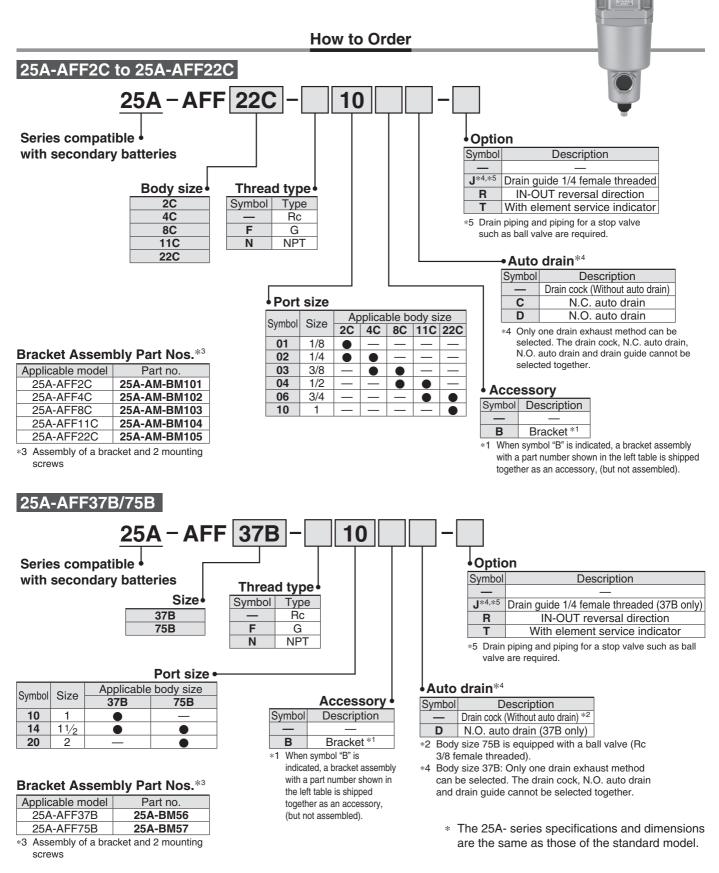


560

501



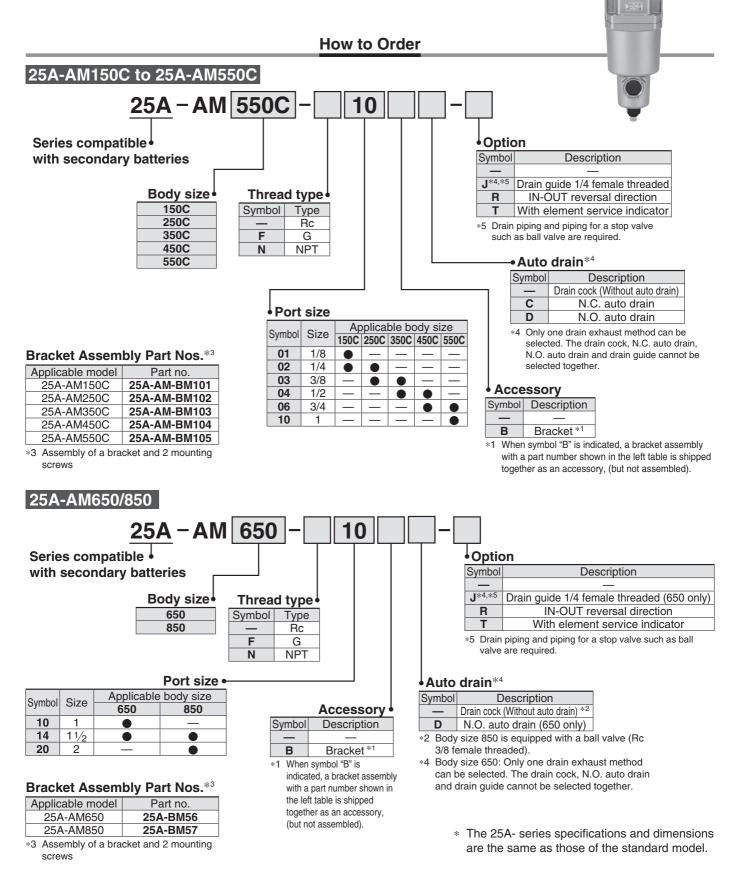
Main Line Filter 25A-AFF Series RoHS



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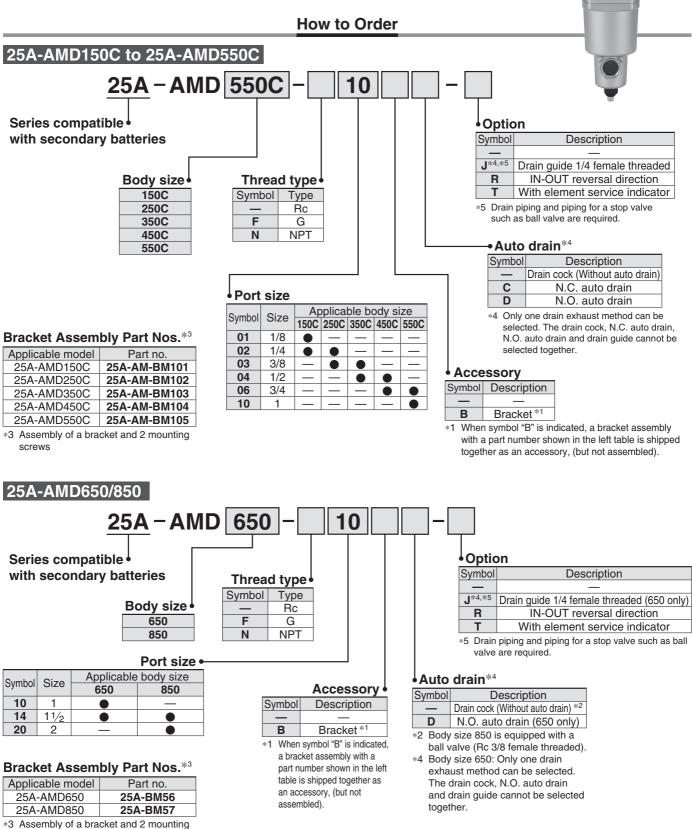
Mist Separator 25A-AM Series

RoHS



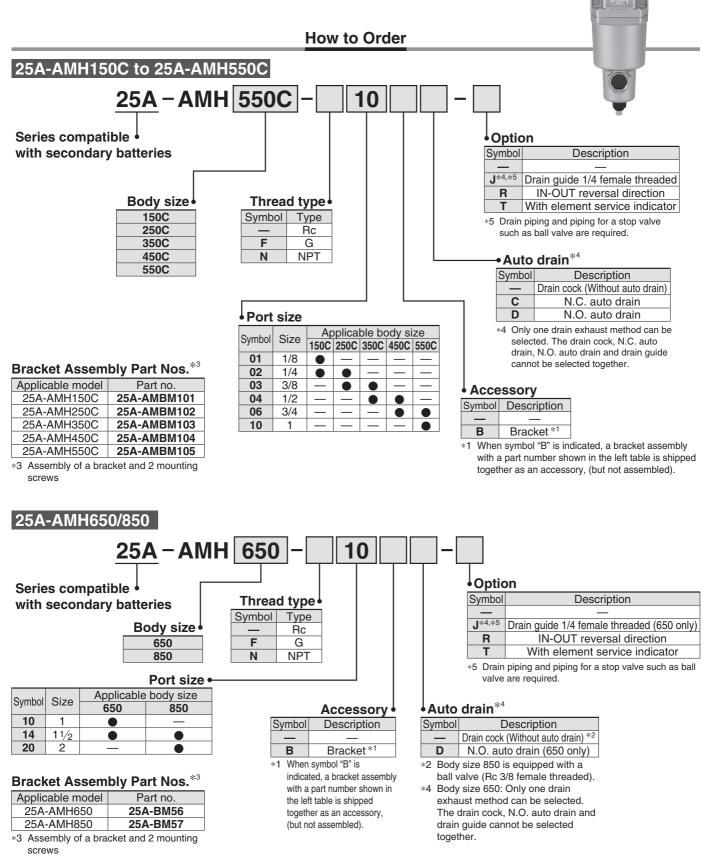


Micro Mist Separator 25A-AND Series понь



3 Assembly of a bracket and 2 mount screws

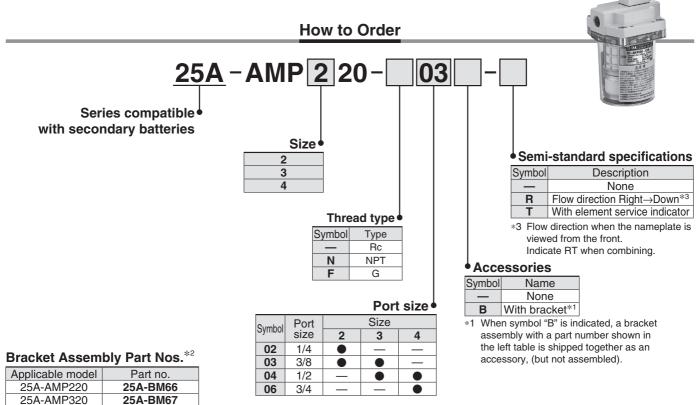
Micro Mist Separator with Pre-filter 25А-AMH Series Понз



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

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Exhaust Cleaner for Clean Room 25A-AMP Series RoHS



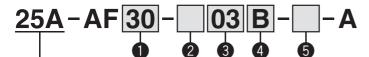
25A-AMP420 25A-BM68

*2 Assembly of a bracket and 2 mounting screws

Air Filter 25A-AF20-A to 25A-AF60-A



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-AF30-N03B-<u>RZ</u>-A

Series compatible with secondary batteries

/						0		
		Symbol	Description	Description Body s				
				20	30	40	50	60
		_	Rc					
2	Pipe thread type	Ν	NPT					
		F	G					
		+						
		01	1/8		—	—	_	—
		02	1/4				_	—
3	Port size	03	3/8	—			<u> </u>	
9	1 011 3126	04	1/2	—	—			—
		06	3/4	—	—			—
		10	1	—	—	—		
		+				-		
	a Mounting	—	Without mounting option					
9		B *1	With bracket					
		+						
	b Flow direction	—	Flow direction: Left to right					
		R	Flow direction: Right to left					
5	b Flow direction	+			1			
	c Pressure unit	—	Name plate and caution plate for bowl in SI units: MPa					
	S Tressare unit	Z *2	Name plate and caution plate for bowl in imperial units: psi, °F	○*2	○*2	○*2	○*2	○*2

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

*2 \bigcirc : For pipe thread type: NPT.

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

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

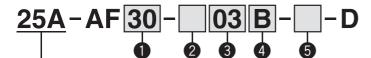
Option	25A-AF20-A	25A-AF30-A	25A-AF40-A	25A-AF40-06-A	25A-AF50-A 25A-AF60-A		
Bracket assembly*1	25A-AF22P-050AS	25A-AF32P-050AS	25A-AF42P-050AS	25A-AF42P-070AS	25A-AF52P-050AS		
Bowl assembly	25A-C2SF-A	25A-C3SF-A	25A-C4SF-A				

*1 Assembly of a bracket and 2 mounting screws.

Air Filter 25A-AF20-D to 25A-AF60-D



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-AF30-N03B-<u>RZ</u>-D

Series compatible with secondary batteries

							1		
			Symbol	Description	Description				
					20	30	40	50	60
			_	Rc					
2	Pipe three	ead type	Ν	NPT					
			F	G			Body size 40 50 (0) 40 50 (0)		
			+						
			01	1/8		_	—	_	—
			02	1/4				_	—
3	Port	cizo	03	3/8	—				
Ð	FOIL	1 011 3126		1/2	_	—		—	—
			06	3/4	—	—			—
			10	1	—	_	_		
			+		-	-			
4	A a N	lounting	_	Without mounting option					
9	d a M	lounting	B *1	With bracket					
			+						
	b Flo	w direction	—	Flow direction: Left to right					
_			R	Flow direction: Right to left					
6	semi-standard ol		+						
	o a	Unit	—	Unit on product label: MPa, °C					
	м М	Onic	Z *2	Unit on product label: psi, °F	○*2	○*2	○*2	○*2	○*2

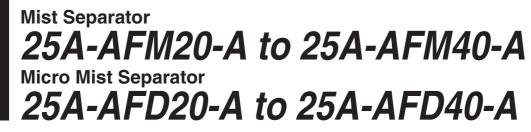
*1 Option B is included in the package with the product but does not come assembled. The assembly consists of 2 types of the bracket and 2 mounting screws. *2 O: For pipe thread type: NPT.

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

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

Ontion			Мо	del			
Option	AF20-D	AF30-D	AF40-D	AF40-06-D	AF50-D	AF60-D	
Bracket assembly*1	25A-AF24P-070AS	25A-AF34P-070AS	25A-AF44P-070AS	25A-AF49P-070AS	25A-AF54P-070AS		
Bowl assembly	25A-C2SF-D	25A-C3SF-D		25A-C	4SF-D		

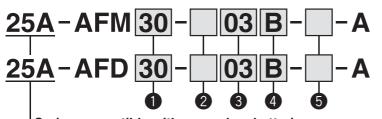
*1 The assembly consists of a bracket A/B and 2 mounting screws.





• 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-<u>RZ</u>-A

Series compatible with secondary batteries

					0		
		Symbol	Description	Body size			
				20	30	40	
		—	Rc				
2	Pipe thread type	Ν	NPT				
-		F	G				
		+					
		01	1/8	•	—	—	
		02	1/4	•	•		
3	Port size	03	3/8	—	•	•	
		04	1/2	_	_	•	
		06	3/4		—		
		+					
4	a Mounting		Without mounting option	•	•		
4		B *1	With bracket	•	•		
		+					
	b Flow direction	_	Flow direction: Left to right	•	•		
		R	Flow direction: Right to left	•	•		
6	e Pressure unit	+					
	c Pressure unit	_	Name plate and caution plate for bowl in SI units: MPa				
	S Pressure unit	Z *2	Name plate and caution plate for bowl in imperial units: psi, $^\circ \! F$	○*2	○*2	○*2	

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

*2 \bigcirc : For pipe thread type: NPT.

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

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

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-C4SF-A			

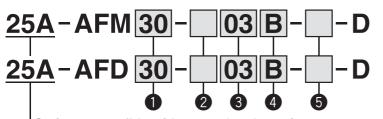
*1 Assembly of a bracket and 2 mounting screws.

Mist Separator 25A-AFM20-D to 25A-AFM40-06-D Micro Mist Separator 25A-AFD20-D to 25A-AFD40-06-D

• 25A-AFM Series Nominal filtration rating: 0.3 μ m • 25A-AFD Series Nominal filtration rating: 0.01 μ m



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-<u>RZ</u>-D

Series compatible with secondary batteries

					0	
	Symbol		Description Body		Body size	
				20	30	40
		_	Rc			
2	Pipe thread type	Ν	NPT		•	
-		F	G			
		+				
		01	1/8		—	—
		02	1/4		•	
3	Port size	03	3/8	—		
		04	1/2	—	—	
		06	3/4	—	—	
		+				
4	Dotto Mounting		Without mounting option		•	
4		B *1	With bracket			
		+				
	b Flow direction	_	Flow direction: Left to right			
		R	Flow direction: Right to left			
6	b Flow direction	+				
	c Unit		Unit on product label: MPa, °C			
	s c onn	Z *2	Unit on product label: psi, °F	○*2	○*2	○*2

*1 Option B is included in the package with the product but does not come assembled. The assembly consists of 2 types of the 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.

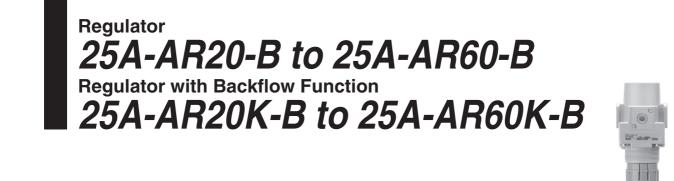
(The SI unit type is provided for use in Japan.)

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

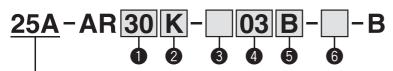
Bracket, Bowl Assembly Part Nos. for the 25A- Series

		Мо	del		
Option	25A-AFM20-D 25A-AFD20-D	25A-AFM30-D 25A-AFD30-D	25A-AFM40-D 25A-AFD40-D	25A-AFM40-06-D 25A-AFD40-06-D	
Bracket assembly*1	25A-AF24P-070AS	25A-AF34P-070AS	25A-AF44P-070AS	25A-AF49P-070AS	
Bowl assembly	25A-C2SF-D	25A-C3SF-D	25A-C4SF-D		

*1 The assembly consists of a bracket A/B and 2 mounting screws.



How to Order



• Option/Semi-standard: Select one each for **a** to **f**.

 Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) 25A-AR30K-03B-<u>1NR</u>-B

Series compatible with secondary batteries

/	<u> </u>										
				Symbol	Description	20	25	Body 30	v size 40	50	60
2			h backflow function	<u>—</u> К	Without backflow function With backflow function						•
				+							
				- T	Rc						
8	F	Pipe	thread type	N	NPT		ě	ě	Ĭ	ě	
•		. 9 0		F	G		Ŏ	Ŏ	Ŏ	Ŏ	
				+							
				01	1/8		—	—	_	—	—
				02	1/4						—
4		Port size			3/8	—		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
4		'	011 5126	04	1/2		—	—		—	—
				06	3/4	—	—	—			
				10	1	—	—	—	—		
		_		+			1				
	*1 C				Without mounting option						
5	Option #	a Mounting	B *2	With bracket							
	0			Н	With set nut (For panel fitting)					—	
_				+							
		b	Set pressure	1 *3	0.05 to 0.85 MPa setting 0.02 to 0.2 MPa setting						
			•	•	0.02 to 0.2 MPa setting						
				+	Deliasia estare						
	_	с	Exhaust mechanism	 N	Relieving type Non-relieving type						
	arc		mechanism		Non-relieving type						
	nd			+	Flow direction: Left to right						
6	sta	d	Flow direction	 R	Flow direction: Right to left						
	ц.										
	Semi-standard	e Knob		- T	Downward						
			Y	Upward							
				+	opitald		•	-	•	•	•
			_	- -	Name plate in SI units: MPa						
		f	Pressure unit	Z *4	Name plate in imperial units: psi	○*4	O*4	O*4	O*4	○*4	O*4
				_	ad supplied loose at the time of shipment		\sim	\sim		\smile	

*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.

* 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

SMC

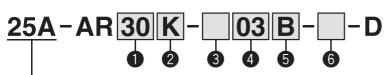
*1 Assembly of a bracket and set nuts.

*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).



How to Order



• Option/Semi-standard: Select one each for **a** to **f**.

 Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) 25A-AR30K-03B-<u>1NR</u>-D

Series compatible with secondary batteries

							0		
			Symbol	Description			Body siz		
					20	30	40	50	60
2		With backflow	_	Without backflow function					
9		function	K *1	With backflow function					
			+	_		T	r	г	.
				Rc					
3	ŀ	Pipe thread type	N	NPT		•	•		
			F	G					
			+ 01	1/8		r	<u>г</u>	<u>г</u>	
			01	1/8		_	_		
_			02	3/8					
4		Port size	03	1/2					
			06	3/4		_			
			10	1	_	_	_	ě	
			+	· · · · · ·	L	1	1		
	*2		_	Without mounting option					
6	Option ⁸	a Mounting	B *3	With bracket					
	g	Ŭ	Н	With set nut (For panel fitting)				_	_
			+						
		b Set pressure		0.05 to 0.85 MPa setting					
		b Set pressure	1 *4	0.02 to 0.2 MPa setting					
			+						
		c Exhaust	_	Relieving type					
	p	^c mechanism	Ν	Non-relieving type					
	g		+						
6	tar	d Flow direction	—	Flow direction: Left to right					
	Semi-standard		K	Flow direction: Right to left					
	eπ		+						
	လ	e Knob		Downward					
			Y	Upward					
			+	Unit on product label, MDs. Dressure source in Olympic MDs.					
		f Unit	7 *5	Unit on product label: MPa, Pressure gauge in SI units: MPa		 *5	 *5	 *5	● ○*5
			Z	Unit on product label: psi, Pressure gauge: MPa/psi dual scale	\bigcirc	0	0	U	0.0

*1 Set the inlet pressure to at least 0.05 MPa higher than the set pressure.

*2 Option "B", "H" are not assembled and supplied loose at the time of shipment.

*3 Assembly of a bracket and set nuts.

*4 Pressure can be set at the upper limit of the specification or more, however, be sure to set the pressure within specification.

*5 \odot : 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

Ontion			Moo	del		
Option	25A-AR20(K)-D	25A-AR30(K)-D	25A-AR40(K)-D	25A-AR40(K)-06-D	25A-AR50(K)-D	25A-AR60(K)-D
Bracket assembly*1	25A-AR23P-270AS	25A-AR33P-270AS	25A-AR43	3P-270AS	25A-AR54	1P-270AS
Set nut	AR23P-260S	AR33P-260S	AR43P-260S			_*2

*1 Assembly of a bracket and set nuts. For the 25A-AR50(K)-D and 25A-AR60(K)-D, the assembly consists of a bracket A/B and 2 mounting screws.

*2 Please contact SMC regarding the set nuts for the 25A-AR50(K)-D and 25A-AR60(K)-D.



			25 Filter	A-	Julator AW20-B to 25A-A Julator with Backflow Function AW20K-B to 25A How to Order			(- B	
2			- AW 3 as compatible	2		Dption/Semi-s Dption/Semi-s nan one spec Iphanumeric (ample) 25A-A	tandard sym ification is re order. AW30K-03B-	bol: When n quired, indic <u>1N</u> -B	nore
		_		Symbol Description		Body size 20 30 40 60			
2	Wit	h ba	ackflow function	— K +	Without backflow function With backflow function		•	•	•
8	F	Pipe	thread type	N F	Rc NPT G		•	•	•
4		I	Port size	+ 01 02 03 04 06 10	1/8 1/4 3/8 1/2 3/4 1				
6	Option ±	а	Mounting	+ B *2 H	Without mounting option With bracket With set nut (For panel fitting)		•	•	•
		b	Set pressure	+ 1*3	0.05 to 0.85 MPa setting 0.02 to 0.2 MPa setting		•	•	•
6	Semi-standard	c Exhaust — c mechanism N		_	Relieving type Non-relieving type		•	•	•
d Flow direction R Flow direction: Right to left				•	•	•	•		
*1 (Dotio	e n "B	Pressure unit	Z *4	Name plate and caution plate for bowl in SI units: MPa Name plate and caution plate for bowl in imperial units: psi, °F and supplied loose at the time of shipment.	● ○*4	• •*4	• •*4	● ○*4

*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 ○: 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

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	<u></u> *3
Bowl assembly	25A-C2SF-A	25A-C3SF-A	25A-C	4SF-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).



		25 Filter	A-	gulator AW20-D to 25A-A gulator with Backflow Function AW20K-D to 25A How to Order	1	_	(-D	
<u>2</u> ;		A-AW 3 eries compatible	2		Option/Semi-s Option/Semi-s than one spec alphanumeric Example) 25A-	standard sym fication is re order.	bol: When n quired, indic	nore
	<u> </u>		Symbol	Description	20) / size 40	60
2	Wi	th backflow function	— K*1	Without backflow function With backflow function		•	•	•
8	F	Pipe thread type	+ 	Rc NPT G		•	•	•
4		Port size	+ 01 02 03 04 06 10	1/8 1/4 3/8 1/2 3/4 1				
6	Option &	a Mounting	+ B*3 H	Without mounting option With bracket With set nut (For panel fitting)		•	•	•
		b Set pressure	+ 1*4 +	0.05 to 0.85 MPa setting 0.02 to 0.2 MPa setting		•	•	•
6	Semi-standard			Relieving type Non-relieving type		•	•	
	Semi	d Flow direction		Flow direction: Left to right Flow direction: Right to left		•	•	•
*1 (Set t	e Unit	Z *5 least 0.05	Unit on product label: MPa, °C, Pressure gauge in SI units: MPa Unit on product label: psi, °F, Pressure gauge: MPa/psi dual sca 5 MPa higher than the set pressure.		● ○* ⁵	● ○* ⁵	● ○* ⁵

*2 Option "B", "H" are not assembled and supplied loose at the time of shipment.

*3 Assembly of a bracket and set nuts.

*4 Pressure can be set at the upper limit of the specification or more, however, be sure to set the pressure within specification.
 *5 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, Bowl Assembly Part Nos. for the 25A- Series

Ontion			Model		
Option	25A-AW20(K)-D	25A-AW30(K)-D	25A-AW40(K)-D	25A-AW40(K)-06-D	25A-AW60(K)-D
Bracket assembly*1	25A-AW23P-270AS	25A-AR33P-270AS	25A-AR43P-270AS 25		25A-AR54P-270AS
Set nut	AR23P-260S	AR33P-260S	AR43P-260S –		*2
Bowl assembly	25A-C2SF-D	25A-C3SF-D	25A-C4SF-D		

*1 Assembly of a bracket and set nuts.
 *2 For the 25A-AW60(K)-D, the assembly consists of a bracket A/B and 2 mounting screws. Please contact SMC regarding the set nuts for the 25A-AW60(K)-D.



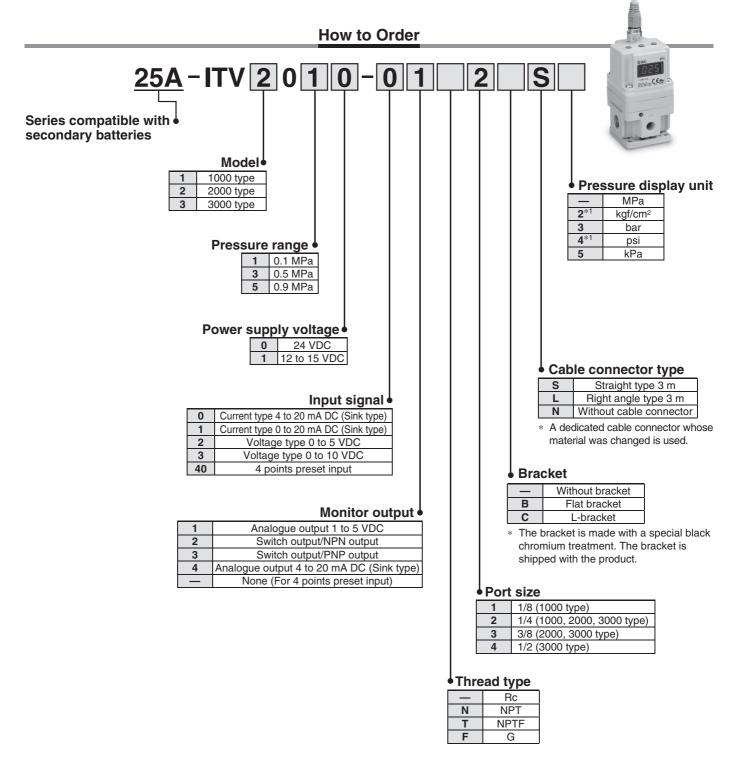
Precision Regulator RoHS 25A-IR1000/2000/3000-A Series

			How to Order			
5 A	-IR 1	00				
	Semi-standard: Selec Semi-standard symb		h for a , b , and c . nore than one specification is required, indicate in alphanumeric order.			
	_				0	
		Symbol	Description		Body size	
				1	2	3
		0	0.005 to 0.2 MPa	•		—
Se	t pressure range		0.01 to 0.2 MPa	_	—	
Se	t pressure range	1	0.01 to 0.4 MPa	•	•	•
		2	0.01 to 0.8 MPa			
1		+	Dettern exhaust			
	xhaust direction	0	Bottom exhaust	•	•	•
E:	knaust unection	2	Rear exhaust			
		+				
			Rc			
P	ipe thread type	Ν	NPT	•	•	
		F	G	•		
		+				•
		01	1/8		—	—
	Port size	02	1/4	—	•	•
	1 011 3120	03	3/8	—	—	
		04	1/2	_	—	
		+			1	1
*1		—	Without mounting option	•	•	•
Option	a Mounting	B *2	With bracket	•	•	•
		н	With hexagon panel nut (for panel mount)	•	•	•
		+			•	
ard	b Elow direction	—	Flow direction: Left to right			•
nda	b Flow direction	R	Flow direction: Right to left			
Semi-standard		+				
;m;	c Knob	—	Upward		•	
		V	Downward			

*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.

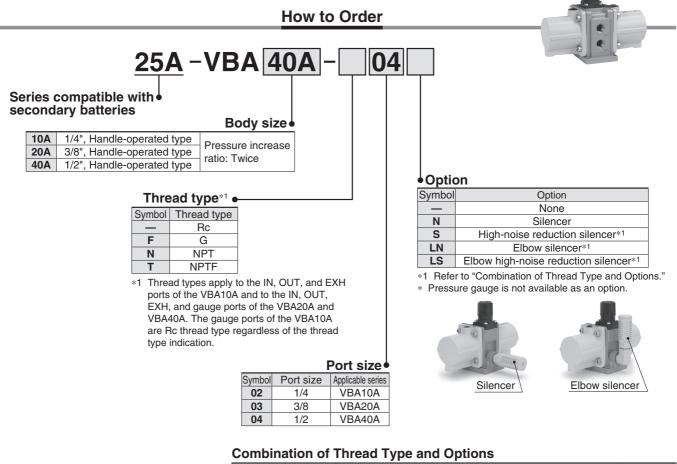
*2 Assembly of a bracket and set nuts

CE c Sus Electro-Pneumatic Regulator RoHS 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.
- * The 25A- series specifications and dimensions are the same as those of the standard model.

Booster Regulator 25A-VBA Series (ROHS)



Body size	Thread		Option				
Bouy size	type	—	N	S	LN	LS	—
	—						
10A	F						
IUA	N			—			
	Т			—			
	—						
20A	F						
204	N						
	Т						
	—						
40A	F						
40A	N					-	
	Т						

∧Caution

- Not compatible with a low dew point
- VBA10A: Due to the close proximity of the IN and OUT sides of the gauge port and the handle of the booster regulator, a G43-10-01-X300/G46-SRB pressure gauge cannot be mounted as it will interfere with the handle. VBA20A/40A: The G43-10-01-X300/G46-SRB pressure

gauge cannot be mounted as the mounting pitch of the IN and OUT sides of the gauge port of the booster regulator is smaller than the diameter of the pressure gauge. In order to mount the pressure gauge, piping which does not cause any interference must be prepared separately.

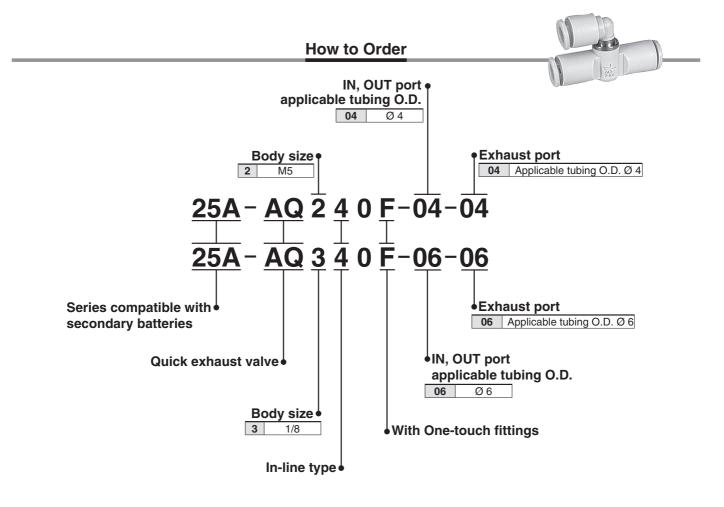
Air Tank Compatibility Chart

Booster regulator	25A-VBA10A	25A-VBA20A	25A-VBA40A
Air tank			
25A-VBAT05A1			
25A-VBAT05S1			
25A-VBAT10A1			
25A-VBAT10S1			_
25A-VBAT20A1			
25A-VBAT20S1	_		
25A-VBAT38A1			
25A-VBAT38S1			•

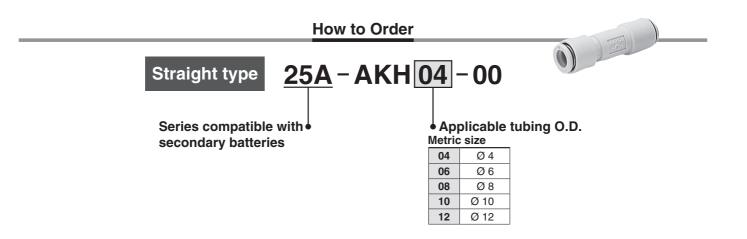
* Refer to page 167 for details on air tanks.



Quick Exhaust Valve with One-touch Fittings 25A-AQ240F/340F Series



Check Valve with One-touch Fittings **25A-AKH Series** RoHS



Rectangular Multi-connector **25A-KDN Series** No. of Connecting Tubes: 20

How to Order

<u>25A</u>-KDM<u>20</u>-06

Series compatible with secondary batteries

No. of connecting tubes

Applicable Tubing

Tubing material FEP, PFA, Nylon, Soft nylon, Polyurethane

• Tubing O.D.

Metric size

Symbol	Size	Colour of release button
23	Ø 3.2	
04	Ø 4	Blue
06	Ø 6	

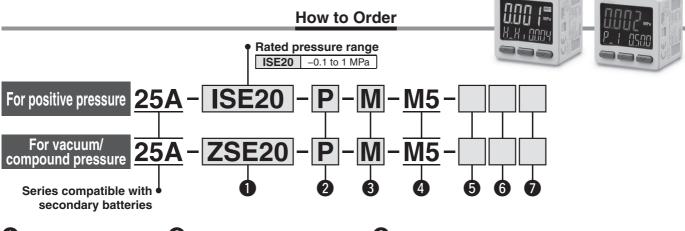
Inch size

Symbol	Size	Colour of release button
01	Ø 1/8"	
03	Ø 5/32"	Red
07	Ø 1/4"	

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

RoHS

1 Output 3-Screen Display High-Precision Digital Pressure Switch 25A-ZSE20(F)/ISE20 Series



Rated	pressure range
ZSE20	0 to -101 kPa
ZSE20F	-100 to 100 kPa

🛿 Ou	tput specification
Symbol	Description

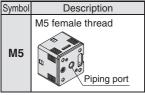
Symbol	Description		
Ν	NPN open collector 1 output		
Р	PNP open collector 1 output		

3 Unit specification

Description		
Units selection function		
SI unit only ^{*1}		
Units selection function (Initial value psi)		

*1 Fixed unit: kPa, MPa

4 Piping specification



5 Option 1			
Symbol		Description	
—	Without lead	l wire	
L	Lead wire with connector (3-core, 2 m lead wire)	Without waterproof cover	ZS-46-3L

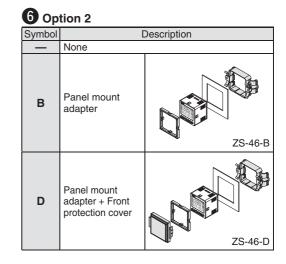
Option 3

Symbol	Operation manual*1	Calibration certificate*1	
—	0	—	
Y	_	—	
K	0	0	
Т	T – O		

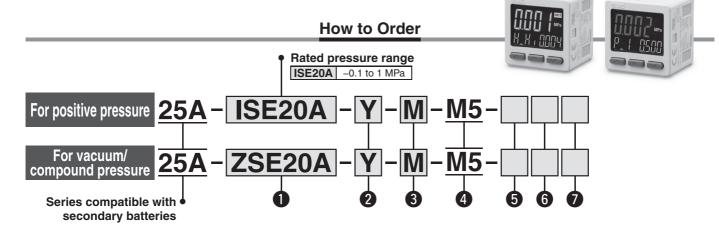
*1 All texts are in both English and Japanese.

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	—		



2 Outputs + Analogue Output (Voltage/Current) 3-Screen Display High-Precision Digital Pressure Switch 25A-ZSE20A(F)/ISE20A Series



Rated pressure range			
ZSE20A	0 to –101 kPa		
ZSE20AF	-100 to 100 kPa		

2 Output specification

Symbol	Description	
R	NPN open collector 2 outputs + Analogue voltage output*1	
S	NPN open collector 2 outputs + Analogue current output *1	
Т	PNP open collector 2 outputs + Analogue voltage output*1	
V	PNP open collector 2 outputs + Analogue current output *1	
Х	NPN open collector 2 outputs + Copy function	
Y	PNP open collector 2 outputs + Copy function	

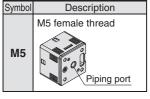
 $\ast 1$ Can be switched to auto-shift or copy function

3 Unit specification

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

*1 Fixed unit: kPa, MPa

4 Piping specification



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

Option 3

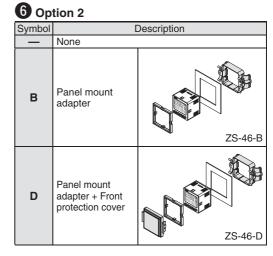
	o option o				
Symbol	Operation manual*1	Calibration certificate*1			
_	0	—			
Y	—	—			
K	0	0			
Т	—	0			

*1 All texts are in both English and Japanese.

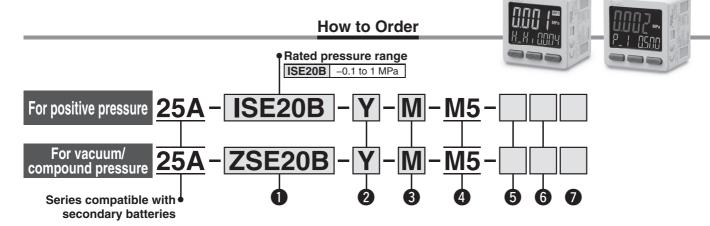
Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	ZS-46-B	—
Panel mount adapter + Front protection cover	ZS-46-D	—
Lead wire with connector	ZS-46-5L	5-core, 2 m, Non-waterproof (Without waterproof cover)
Front protection cover	ZS-27-01	—



2 Outputs + Analogue Output (Voltage/Current) 3-Screen Display High-Precision Digital Pressure Switch 25A-ZSE20B(F)/ISE20B Series



Rated pressure ra	ange
SE20B 0 to -101 k	
SE20BF -100 to 100	kPa

2 Output specification

Symbol	Description				
R	R NPN open collector 2 outputs + Analogue voltage output*1				
S	S NPN open collector 2 outputs + Analogue current output *1				
Т	PNP open collector 2 outputs + Analogue voltage output*1				
V	PNP open collector 2 outputs + Analogue current output *1				
Х	NPN open collector 2 outputs + Copy function				
Y	PNP open collector 2 outputs + Copy function				

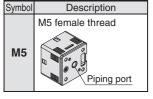
*1 Can be switched to auto-shift or copy function

3 Unit specification

Symbol Description					
 Units selection function 					
М	SI unit only ^{*1}				
P Units selection function (Initial value psi)					

*1 Fixed unit: kPa, MPa

4 Piping specification



6 Op	tion 1	
Symbol		Description
	Without lead	l wire
w	Lead wire with connector (5-core, 2 m lead wire, With waterproof cover)	ZS-46-5F Without waterproof cover

Option 3

r		
Symbol	Operation manual*1	Calibration certificate*1
_	0	—
Y	—	—
K	0	0
Т	—	0

 Symbol
 Description

 Mone
 Panel mount adapter

 B
 Panel mount adapter

 D
 Panel mount adapter + Front protection cover

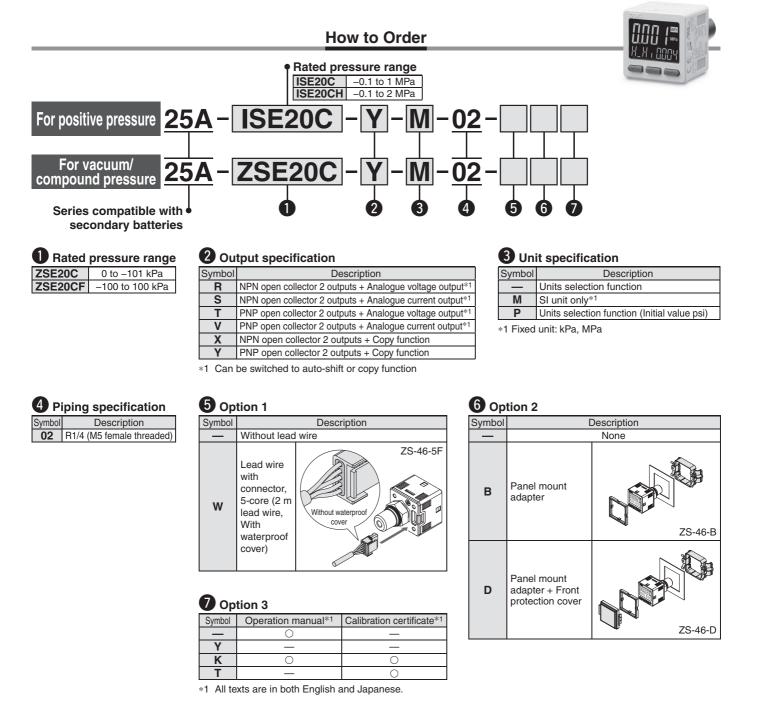
*1 All texts are in both English and Japanese.

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	ZS-46-B	_
Panel mount adapter + Front protection cover	ZS-46-D	_
Lead wire with connector	ZS-46-5F	5-core, 2 m, Waterproof (With waterproof cover)
Front protection cover	ZS-27-01	_

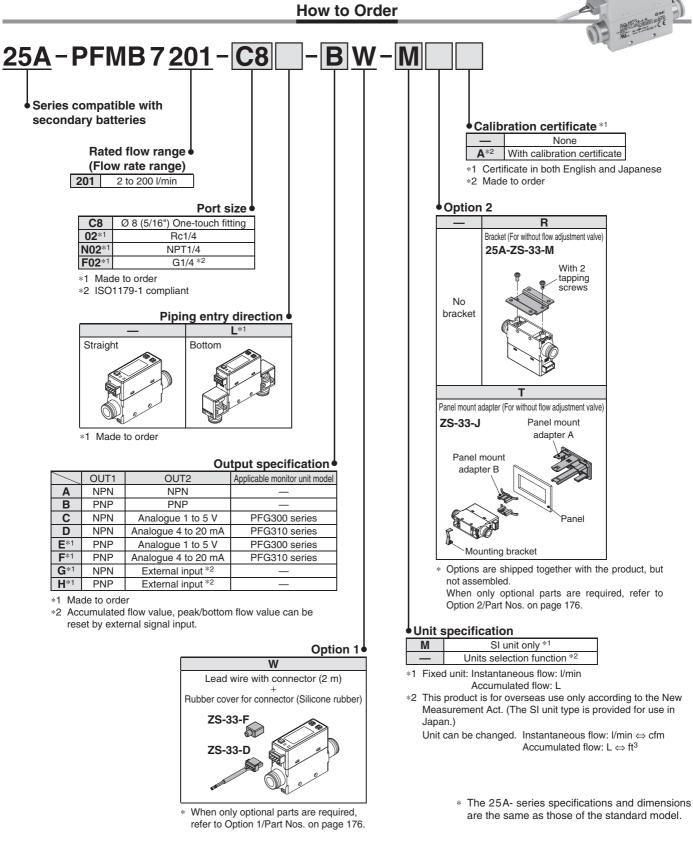
2 Outputs + Analogue Output (Voltage/Current) (C C C Us 3-Screen Display High-Precision Digital Pressure Switch for General Fluids 25A-ZSE20C(F)/ISE20C(H) Series



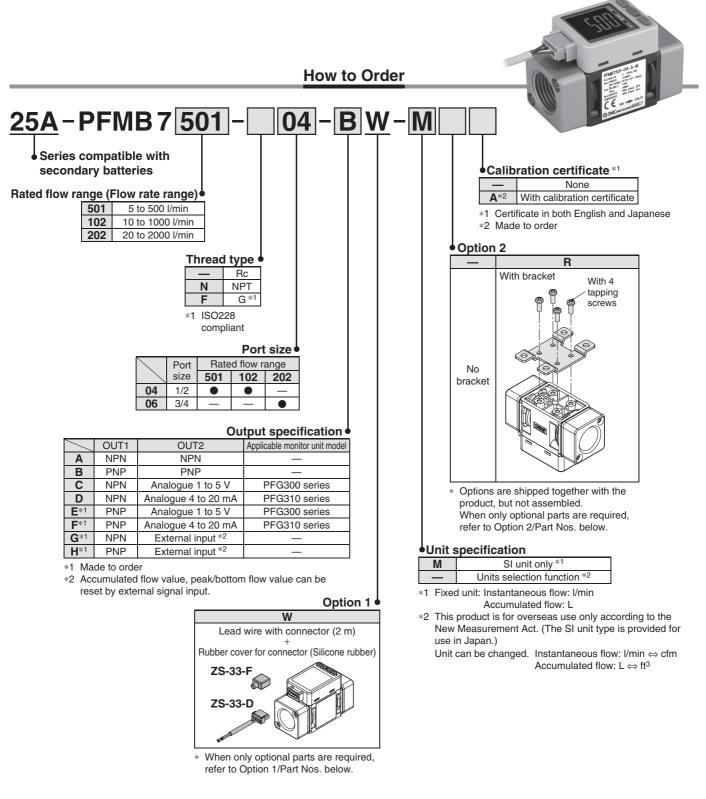
Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.						
Description	Part no.	Note				
Panel mount adapter	ZS-46-B	Rear ported				
Panel mount adapter + Front protection cover	ZS-46-D	Rear ported				
Lead wire with connector	ZS-46-5F	5-core, 2 m, Waterproof (With waterproof cover)				
Front protection cover	ZS-27-01	Rear ported				

2-Colour Display (E Digital Flow Switch 25A-PFNB7 Series



PFMB7 Series



Option 1/Part Nos.

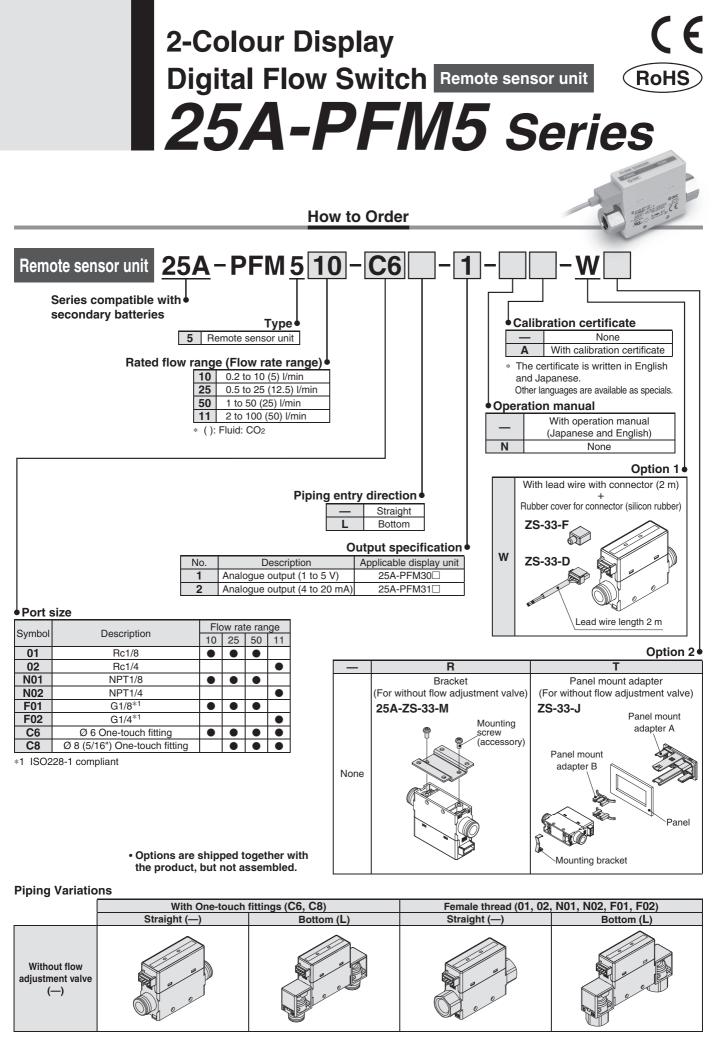
Option	Part no.	Qty.	Note
Lead wire with connector	ZS-33-D	1	Lead wire: 2 m
Rubber cover (Silicone rubber)	ZS-33-F	1	For connector

Option 2/Part Nos.

		_	-	
	Option	Part no.	Qty.	Note
n	Bracket (for PFMB7201)	25A-ZS-33-M	1	With 2 tapping screws (3 x 6)
r	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.

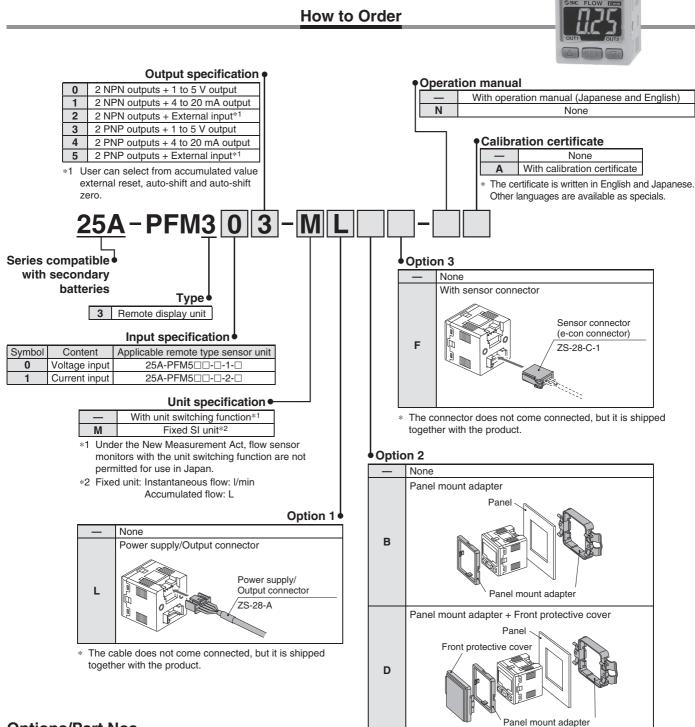
SMC



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

SMC

Flow Sensor Monitor Ro 25A-PFN3 Series



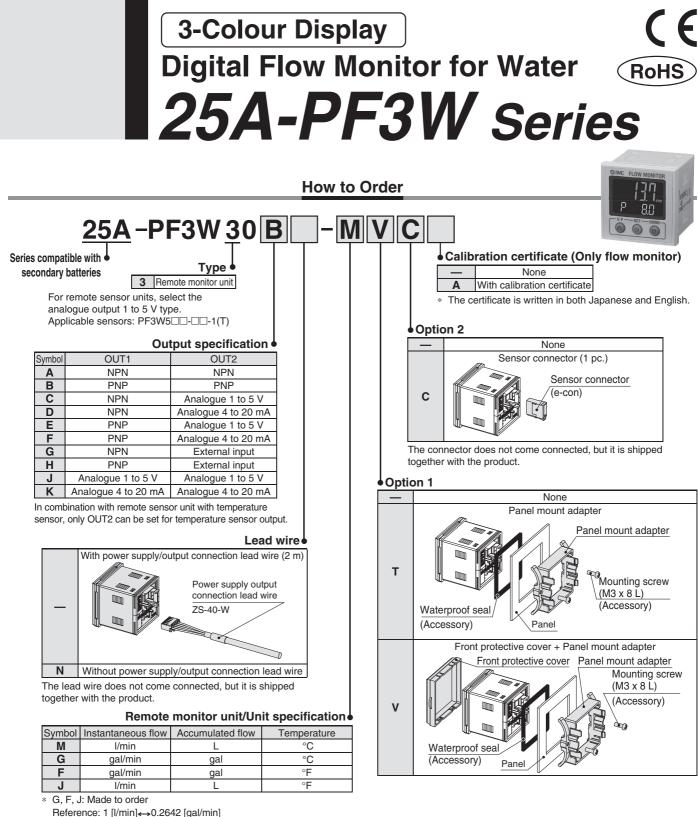
SMC

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

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

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	



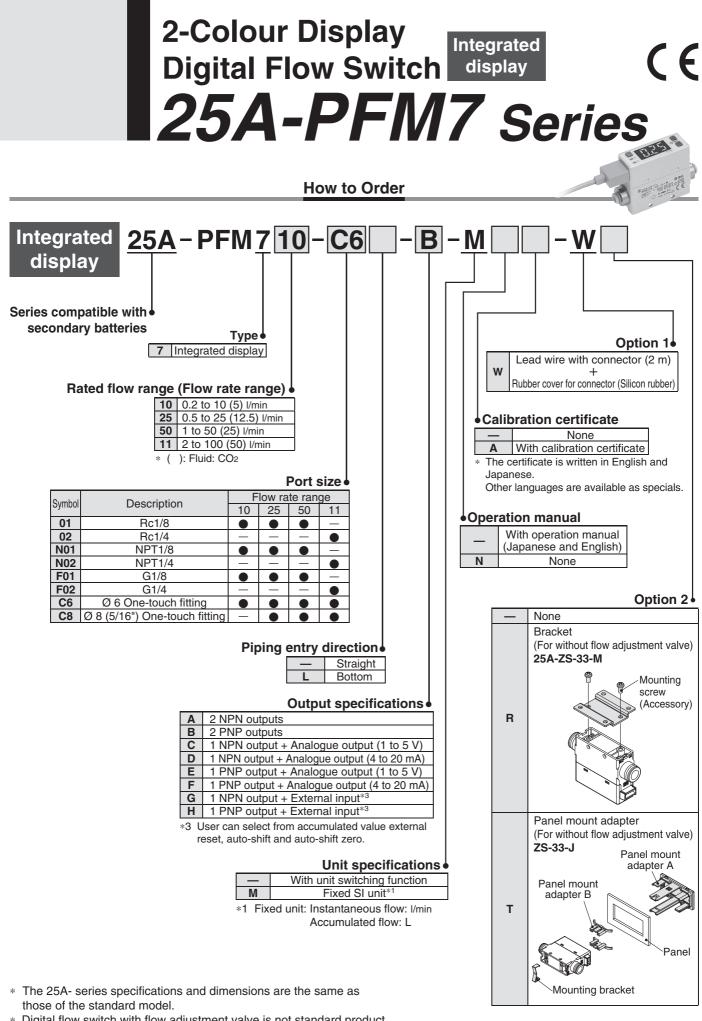
eference: 1 [l/min]↔0.2642 [gal/min] 1 [gal/min]↔3.785 [l/min]

°F = 9/5 °C + 32

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Panel mount adapter	25A-ZS-26-B	With waterproof seal and screws
Front protective cover + Panel mount adapter	25A-ZS-26-C	With waterproof seal and screws
Front protective cover only	ZS-26-01	Separately order panel mount adapter, etc.
Power supply/output connection lead wire	ZS-40-W	Lead wire length: 2 m
Sensor connector (e-con)	ZS-28-CA-4	1 pc.
Lead wire with connector for copying	ZS-40-Y	Connect up to 10 slave units

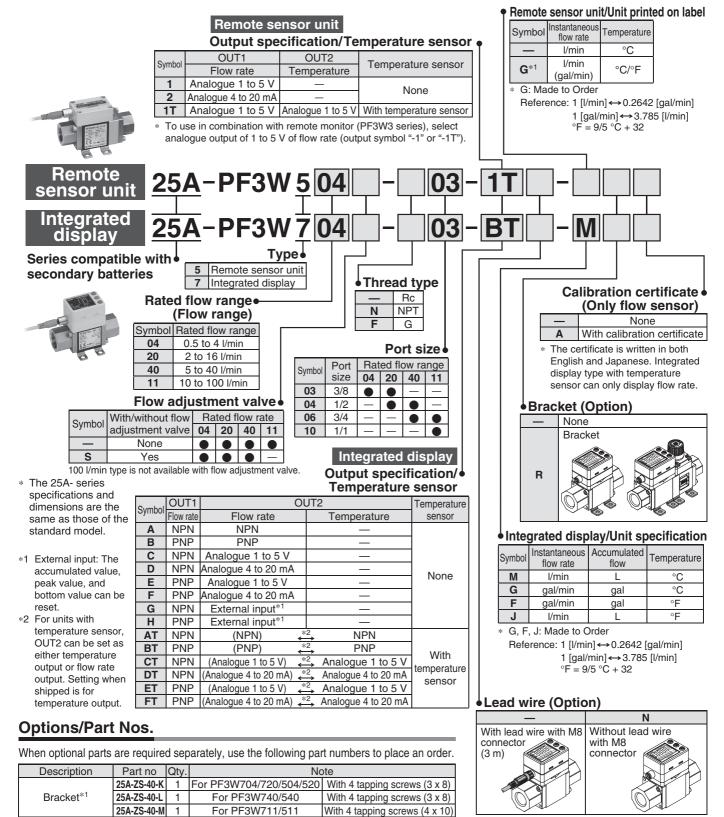


Digital flow switch with flow adjustment valve is not standard product. It can be supplied as Made-to-Order separately.



3-colour display Digital Flow Switch for Water 25A-PF3W Series (E RoHS)

How to Order



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

1

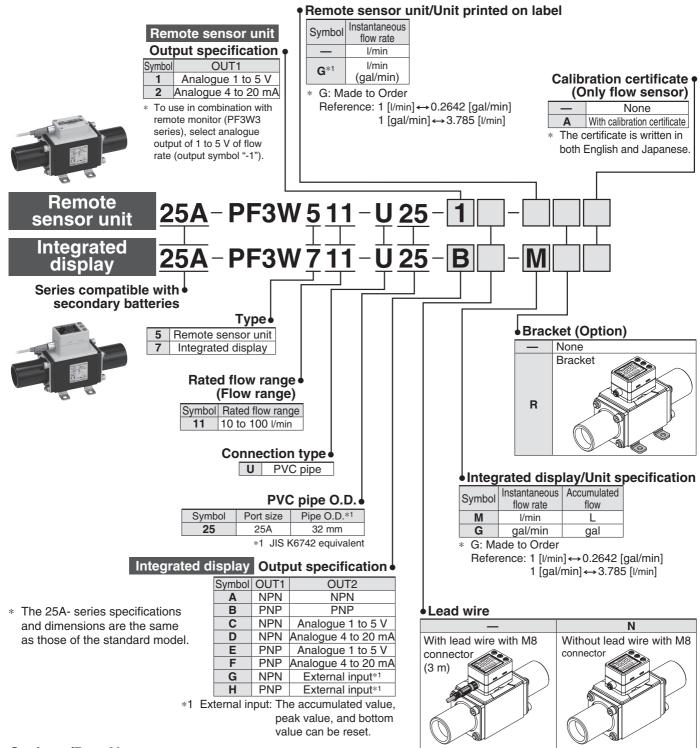
Lead wire with M8 connector 25A-ZS-40-A



Lead wire length (3 m)

3-colour display Digital Flow Switch for PVC Piping 25A-PF3W Series (€ RoHS

How to Order



Options/Part Nos.

Lead wire with M8 connector 25A-ZS-40-A 1

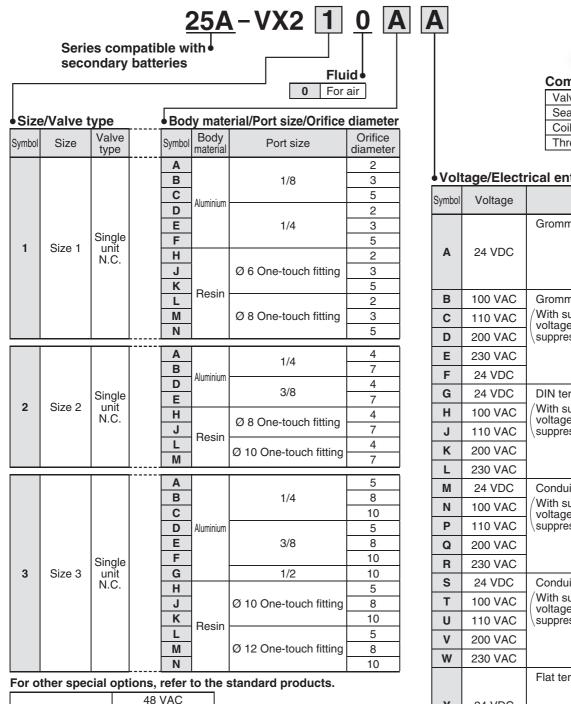
When optional parts are red	quired separa	ately,	use the following p	part numbers to place an ord	er. *	The 25A- series specifications
Description	Part no.	Qty.		Note		and dimensions are the same
Bracket	25A-ZS-40-M	1	For PF3W711/511 V	Nith 4 tapping screws (4 x 10)		as those of the standard model.

Lead wire length (3 m)

SMC

Direct Operated 2-Port Solenoid Valve For Air Single Unit 25A-VX21/22/23 Series C € (ROHS)

How to Order (Single Unit)



	40 VAC			
Special valtage	220 VAC			
Special voltage	240 VAC			
	12 VDC			
DIN terminal with lig	ght			
Conduit terminal with light				
Low concentration ozone resistant (Seal material: FKN				
Oil-free				
G thread				
NPT thread				

Common Specifications Valve type NC

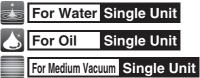
valve type	N.C.
Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

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			
Е	230 VAC				
F	24 VDC	×V			
G	24 VDC	DIN terminal			
н	100 VAC	With surge voltage			
J	110 VAC	suppressor			
К	200 VAC				
L	230 VAC				
М	24 VDC	Conduit terminal			
Ν	100 VAC	With surge voltage			
Р	110 VAC	\suppressor//			
Q	200 VAC				
R	230 VAC	ý ,			
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			
Z	Other voltages and electrical options				

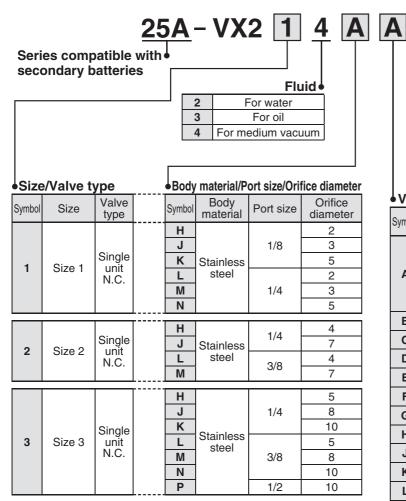
The 25A- series specifications and dimensions * are the same as those of the standard model.

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



RoHS

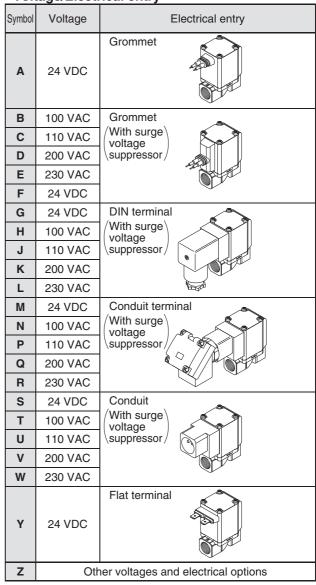
How to Order (Single Unit)



Common Specifications

Valve type	N.C.
O a al manta via l	NBR (For water)
Seal material	FKM (For oil, medium vacuum)
Coil insulation type	Class B
Thread type	Rc

Voltage/Electrical entry



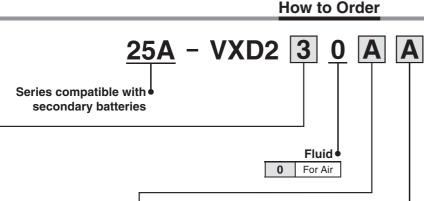
* The 25A- series specifications and dimensions are the same as those of the standard model.

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				



Pilot Operated 2-Port Solenoid Valve For Air 25A-VXD Series RoHS





Common Specifications				
NBR				
Class B				
Rc				

• Size	-Valve	ype		• Bod	y materia	al/Port size/Orifice d	iameter
Symbol	Size	Valve type		Symbol	Body material	Port size	Orifice diameter
3	8A	N.C.		Α		1/4	
-	10A			В	Aluminium	3/8	10
Α	15A	N.O.		С		1/2	
		1					
4	10A	N.C.		J	Stainless	3/8	15
В	15A	N.O.		Κ	steel	1/2	15
		1					
5	20A	N.C.		м	Stainless	3/4	20
С	204	N.O.		IVI	steel	5/4	20
6		N.C.	7		a		
-	25A			Р	Stainless	1	25
D		N.O.			steel		

● 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/		
Е	230 VAC			
F	24 VDC	al.		
G	24 VDC	DIN terminal /With surge \		
Н	100 VAC	voltage		
J	110 VAC	\suppressor/		
К	200 VAC			
L	230 VAC	DL-		
М	24 VDC	Conduit terminal /With surge \		
Ν	100 VAC	voltage		
Р	110 VAC	\suppressor/		
Q	200 VAC			
R	230 VAC	8		
S	24 VDC	Conduit /With surge \		
Т	100 VAC	voltage		
U	110 VAC	\suppressor		
V	200 VAC			
W	230 VAC	910 910		
Y	24 VDC	Flat terminal		
Ζ		Other special options		

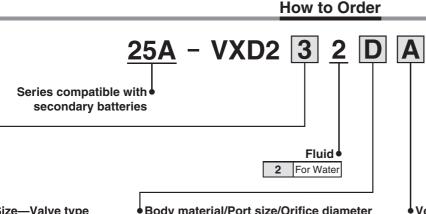
All other special options are the			
same as those of the standard model.			

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

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



Pilot Operated 2-Port Solenoid Valve For Water (E 25A-VXD Series (RoHS)



• Size	-Valve 1	ype		Bod	y material	/Port size/Orif	ice diameter
Symbol	Size	Valve type		Symbol	Body material	Port size	Orifice diameter
3	8A	N.C.		D	Otalialaaa	1/4	
	10A			E	E Stainless steel	3/8	10
Α	15A	N.O.		F	51001	1/2	1
						- /-	
4	10A	N.C.		J	Stainless	3/8	15
В	15A	N.O.		Κ	K steel	1/2	15
-			r				
5	20A	N.C.		м	Stainless	3/4	20
С	207	N.O.		IVI	steel	5/4	20
	1			Ì			
6	25A	N.C.		Р	Stainless	1	25
D	234	N.O.			steel	1	23

All other special or	otions are the			
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 deionised water				
(Seal material: FKM)				
Seal material: EPDM				
Oil-free				
G thread				
NPT thread				
With bracket				
Special electrical entry direction				

R	6 6	
		61 Å
	Ca	
~		

0

Common Specifications		
Seal material	NBR	
Coil insulation type	Class B	
Thread type	Rc	

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/	
Е	230 VAC		
F	24 VDC		
G	24 VDC	DIN terminal	
н	100 VAC	With surge voltage	
J	110 VAC	\suppressor/	
К	200 VAC		
L	230 VAC		
М	24 VDC	Conduit terminal	
Ν	100 VAC	With surge voltage	
Ρ	110 VAC	\suppressor	
Q	200 VAC		
R	230 VAC	a	
S	24 VDC	Conduit	
Т	100 VAC	With surge voltage	
U	110 VAC	\suppressor	
V	200 VAC		
W	230 VAC	Ø.	
Y	24 VDC	Flat terminal	
Ζ	Other	r voltages and electrical option	

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

Zero Differential Pressure Type Pilot Operated 2-Port Solenoid Valve/For Air 25A-VXZ Series RoHS

How to Order (Single Unit) 25A - VXZ2 3 0 A A Series compatible with secondary batteries Fluid 0 For Air Size/Valve type Body material/Port size/Orifice diameter Valve Body Orifice Symbol Body size Symbo Port size material diameter type 3 N.C. Α 1/4 10A 10 Aluminium Α N.O В 3/8 4 N.C. Stainless 15A G 1/215 steel В N.O 5 N.C. Stainless 20A J 3/4 20 С N.O steel N.C. 6

Stainless

steel

L

25A

N.O

D



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

• 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		
Е	230 VAC			
F	24 VDC			
G	24 VDC	DIN terminal		
н	100 VAC	With surge voltage		
J	110 VAC	suppressor		
К	200 VAC			
L	230 VAC			
М	24 VDC	Conduit terminal		
Ν	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		
Ζ	Z Other voltages			

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

1

25

same as mose of the standard model.		
	24 VAC	
	48 VAC	
Special voltage	220 VAC	
	240 VAC	
	12 VDC	
DIN terminal with light	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 (Standard for resin body)		
Special electrical entry direction		

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



Zero Differential Pressure Type Pilot Operated 2-Port Solenoid Valve/For Water 25A-VXZ Series RoHS

					Но	w to Oro	der (Sing	le Unit)
	25A - VXZ2 3 2 C A Series compatible with secondary batteries							
	e/Valve typ		Γ			2 For	iuid • Water	• Vo
Symbol 3 A	Body size	Valve type N.C. N.O.		Symbol C D	Body material Stainless steel	Port size 1/4 3/8	Orifice diameter	Symb
4 B	15A	N.C. N.O.		G	Stainless steel	1/2	15	A
5 C	20A	N.C. N.O.		J	Stainless steel	3/4	20	B
6 D	- 25A	N.C. N.O.		L	Stainless steel	1	25	D
								F



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

• 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		
Е	230 VAC			
F	24 VDC			
G	24 VDC	DIN terminal		
Н	100 VAC	(With surge voltage		
J	110 VAC	suppressor		
К	200 VAC			
L	230 VAC			
М	24 VDC	Conduit terminal		
Ν	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		
Z	Other voltages			

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

same as mose of the standard model.		
Special voltage	24 VAC	
	48 VAC	
	220 VAC	
	240 VAC	
	12 VDC	
DIN terminal with lig	ght	
Conduit terminal with light		
Without DIN connector		
Applicable to deionised water		
(Seal material: FKM)		
Seal material: EPDM		
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.



Diaphragm Valve for Ultra High Purity Air Operated Type AZ3542 & 4542 25A Series

 Body material: 316L SS Pneumatically actuated normally closed How to Order (Inlet) (Outlet) AZ 3 542 S **2P** MV4 25A 14 Size Series compatible with Code Cv secondary batteries 3 0.29 4 0.5 Model Connections Code Status Maximum operating pressure Size AZ3 AZ4 Normally closed 125 psig Code Connections 542 2PW Port 2P 2PW 2P (0.9 MPa) (N.C.) MV4 1/4 inch face seal (Male) *1) Material FV4 1/4 inch face seal (Female) • Code Body material TW4 1/4 inch tube weld 316L SS S MV6 3/8 inch face seal (Male) *1) 3/8 inch face seal (Female) FV6 Ports TW6 3/8 inch tube weld Code Ports Connection TW8 1/2 inch tube weld 2P Machined Only available with the same type fittings inlet and outlet. 2 ports 2PW Welded * 1) Fixed fitting (no rotating nut)

Specifications

Suitable for UHP gas supply line

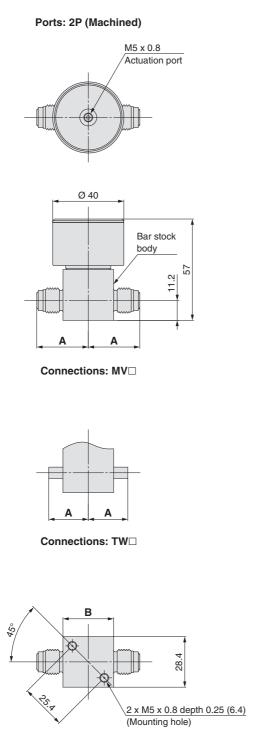
Operating Parameters	AZ3542□25A	AZ4542□25A
Weight	0.26	kg *1)

*1) Weight for AZ3542S2PMV4MV4 including individual boxed weight. It may vary depending on connections or options. * Some parts have sizes and shapes that are different from the standard products.

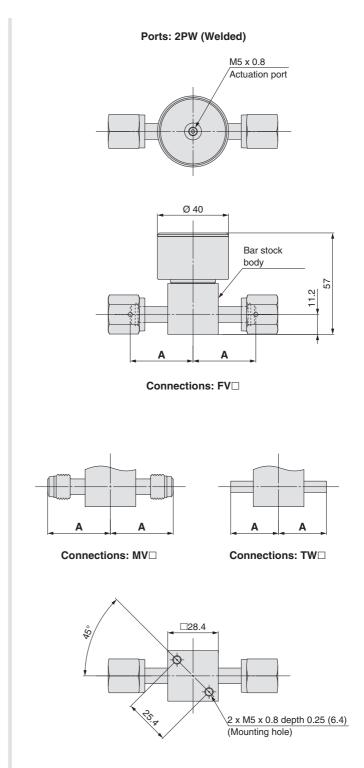
AZ3542 & 4542 25A Series

Dimensions

AZ3542 & 4542



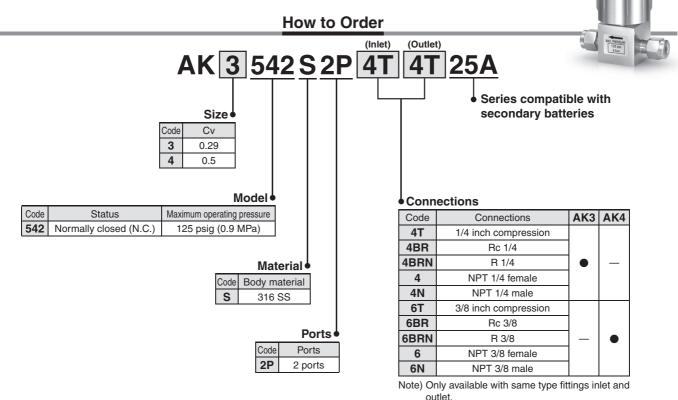
Ports	Connections	А	В	
2P (Machined)	MV4	1.14 (29.0)	1.12 sq. (28.4)	
	TW4	0.875 (22.2)		
	MV6	1.5 (38.1)	1.48 sq. (37.6)	
	TW6	0.875 (22.2)	1 10 ar (00 4)	
	TW8	1.125 (28.6)	1.12 sq. (28.4)	



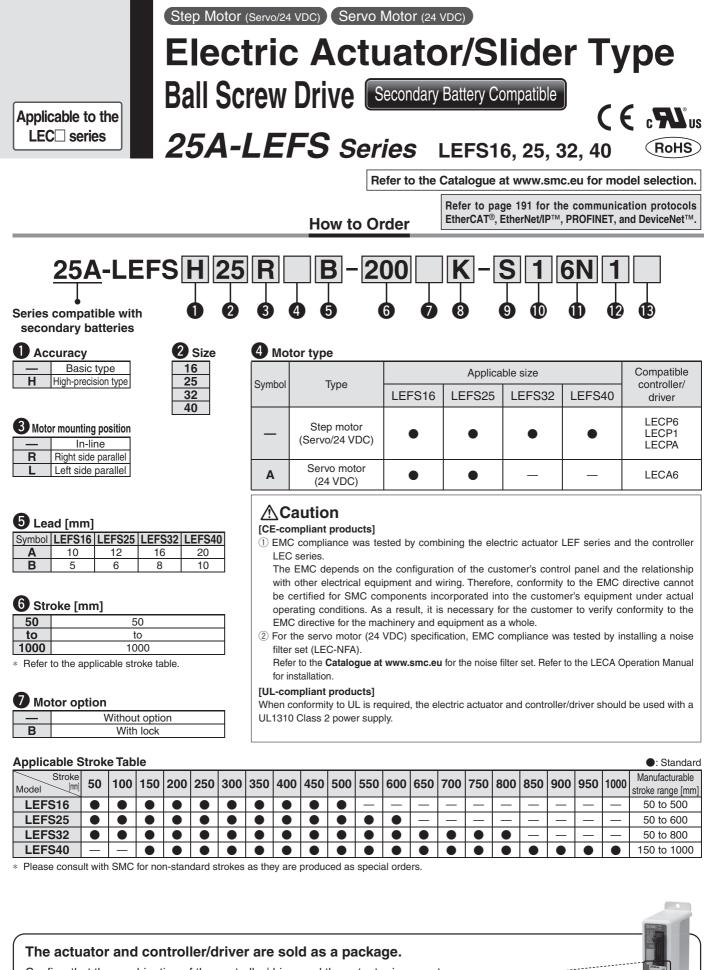
Ports	Connections	Δ
FUILS	Connections	Α
	MV4	1 20 (25 2)
	FV4	1.39 (35.3)
2PW (Welded)	TW4	1.06 (26.9)
	MV6	1.02 (40.0)
	FV6	1.93 (49.0)
	TW6	1.325 (33.7)

Diaphragm Valves for General Applications Air Operated Type AK3542 & 4542 25A Series

- Body material: 316 SS
- Normally closed



* Specifications and dimensions are the same as those of the standard model.



Confirm that the combination of the controller/driver and the actuator is correct.

<Check the following before use.>

①Check the actuator label for model number (after "25A-"). This matches the controller/driver.
②Check Parallel I/O configuration matches (NPN or PNP).

Refer to the operation manual for using the products. Please download it via our website, https://www.smc.eu



LEFS16RA-400

(1)

NPI

(2)

Electric Actuator/Slider Type Ball Screw Drive 25A-LEFS Series Step Motor (Servo/24 VDC) Servo Motor (24 VDC) Secondary Battery Compatible

Motor mounting position:

In-line

8 Positioning pin hole

_	Housing B bottom ^{*1}	Housing B bottom
к	Body bottom 2 locations	Body bottom

*1 Refer to the body mounting example in the Catalogue at www.smc.eu for the mounting method.

Controller/Driver type*1

	Without controller/driver	
6N	LECP6/LECA6	NPN
6P	(Step data input type)	PNP
1N	LECP1*2	NPN
1P	(Programless type)	PNP
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 When pulse signals are open collector,
- order the current limiting resistor (LEC-PA-R-□) separately.

9 Actuator cable type*1

—	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

-	5 [] /
—	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 **Catalogue at** www.smc.eu 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 "—", "S" or "T" can be selected.

Actuator cable length [m]

	Without cable
1	1.5
3	3
5	5
8	8*1
Α	1 0*1
В	15* ¹
С	20*1

Motor mounting position: Right side parallel

*1 Produced upon receipt of order (Robotic cable only)

Controller/Driver mounting

_	Screw mounting
D	DIN rail mounting*1

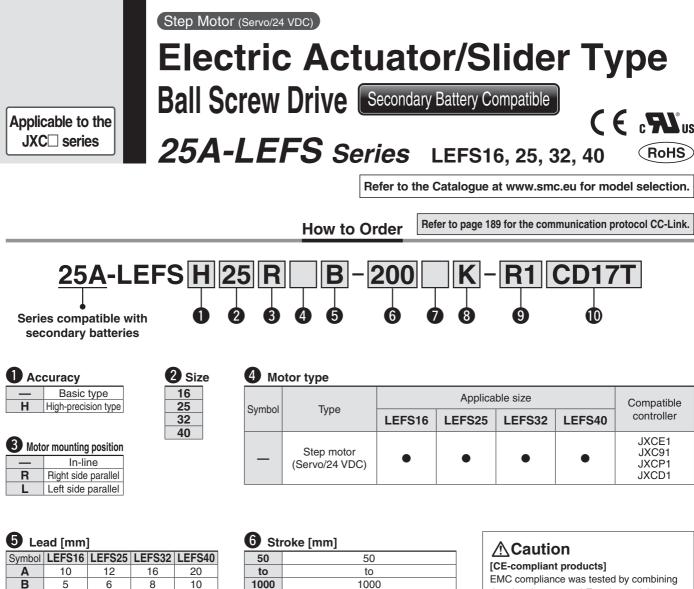
*1 DIN rail is not included. Order it separately.

* 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	Programless type	Pulse input type
Series	LECP6	LECA6	LECP1	LECPA
Features		data) input controller	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)		motor 24 VDC)
Maximum number of step data	64 p	oints	14 points	—
Power supply voltage		24 \	/DC	

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



7 Mo	tor option
—	Without option
В	With lock

50	50	
to	to	
1000	1000	

* Refer to the applicable stroke table.

8 Positioning pin hole

_	Housing B bottom*	Housing B bottom
к	Body bottom 2 locations	Body bottom

Refer to the body mounting example in the Catalogue at www.smc.eu for the mounting method.

EMC compliance was tested by combining the electric actuator LE series and the JXCE1/91/P1/D1 series.

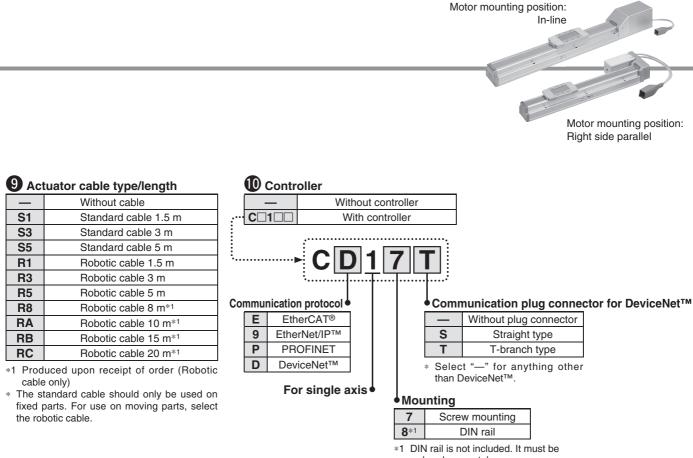
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, conformity to the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify conformity to the EMC directive for the machinery and equipment as a whole.

Applicable S	Strok	e Tab	le																		Standard
Model [mm]		100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable
Iviodel																					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.

Applicable Stroke Table

Electric Actuator/Slider Type Ball Screw Drive 25A-LEFS Series Step Motor (Servo/24 VDC) Secondary Battery Compatible



ordered separately.

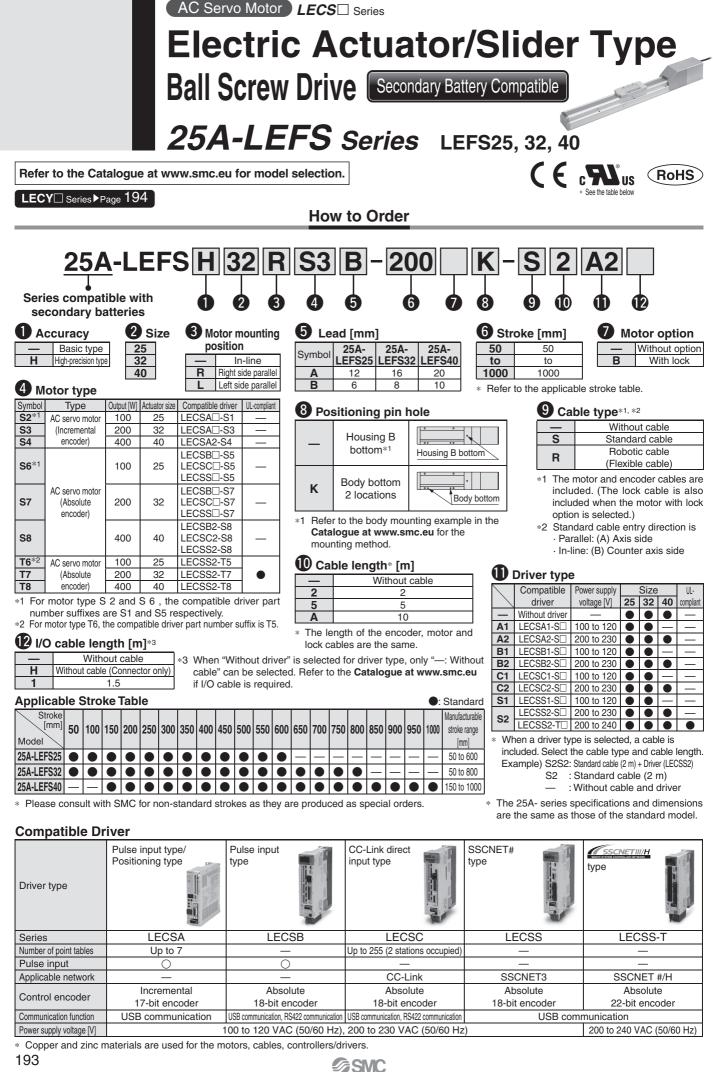
 The 25A- series specifications and dimensions are the same as those of the standard model.

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			motor 24 VDC)	
Maximum number of step data		64 p	points	
Power supply voltage		24	VDC	

SMC

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

Compatible Controller



AC Servo Motor LECY Series

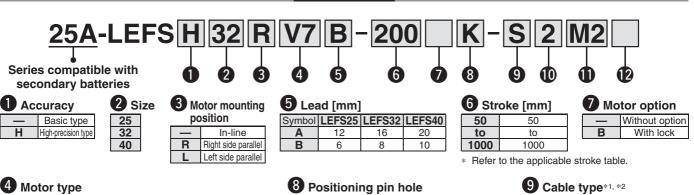
Electric Actuator/Slider Type Ball Screw Drive Secondary Battery Compatible

25A-LEFS Series LEFS25, 32, 40

Refer to the Catalogue at www.smc.eu for model selection.

LECS□ Series ▶ Page 193

How to Order



Housing B bottom*1

Body bottom

2 locations

mounting method.

Cable length*1 [m]

Without cable

3

5

10

20

*1 Refer to the body mounting example in the

1

Catalogue at www.smc.eu for the

Κ

3

5

Α

С

4 Motor type

Symbol	Туре	Output [W]	Size	Compatible driver
V6 *1	AC servo motor	100	25	LECYM2-V5/LECYU2-V5
V7	(Absolute	200	32	LECYM2-V7/LECYU2-V7
V8	encoder)	400	40	LECYM2-V8/LECYU2-V8

*1 For motor type V 6 , the compatible driver part number suffix is V5.

1/O cable length [m]*3

—	Without cable
Н	Without cable (Connector only)
1	15

*3 When "Without driver" is selected for driver type, only "-: Without cable" can be selected. Refer to the Catalogue at www.smc.eu if I/O cable is required.

Applicab	le S	Stro	ke ⁻	Гab	le															•:	Standard
Stroke [mm] Model		100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	Manufacturable stroke range [mm]
25A-LEFS25													—	_	—	—	—	—	—	—	50 to 600
25A-LEFS32																	—	—	—	—	50 to 800
25A-LEFS40	—	—																			150 to 1000

The length of the encoder, motor and lock cables are the same.

Body bottom

Housing B bottom

Cable type*1, *2							
—	Without cable						
S	Standard cable						
в	Robotic cable						
n	(Flexible cable)						

((

(RoHS)

- *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]					
_	Without driver	_					
M2	LECYM2-V□	200 to 230					
U2	LECYU2-V□	200 to 230					

* Please consult with SMC for non-standard strokes as they are produced as special orders.

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

Compatible Driver	

Driver type	MECHATROLINK-II type	MECHATROLINK-III type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-II	MECHATROLINK-II
Control encoder		olute encoder
Communication device	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.



AC Servo Motor LECS Series

Electric Actuator/High Rigidity Slider Type

Ball Screw Drive Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

Refer to the Catalogue at www.smc.eu for model selection.

LECY□ Series ▶ Page 196

How to Order

500

5

Cable length [m]*6, *9

The length of the motor,

encoder and lock cables

Standard

are the same.

2

5

Δ

*9

Without cable

2

5 10

6

<u>25A</u> -LEJS	Η	40	S2
Series compatible with secondary batteries	0	2	3

1 Accuracy	3 Mo	otor type								
Basic type H High-precision type	Symbol	Туре	Output [W]	Actuator size	Compatible driver	UL- compliant				
2 Size	S2 *1	AC servo motor (Incremental encoder)	100	40	LECSA□-S1	—				
<u>40</u> 63	S3	AC servo motor (Incremental encoder)	200	63	LECSA□-S3	—				
5 Stroke [mm]*4	S6 *1	AC servo motor (Absolute encoder)	100	40	LECSB□-S5 LECSC□-S5 LECSS□-S5	—				
200 to 1500	S7	AC servo motor (Absolute encoder)	200	63	LECSB□-S7 LECSC□-S7 LECSS□-S7	_				
*4 Refer to the applicable stroke	T6 *2, *3		100	40	LECSB2-T5 LECSC2-T5	—				
table for details.		AC servo motor			LECSS2-T5	●* ³				
6 Motor option	T7 *3	(Absolute encoder)	200	63	LECSB2-T7 LECSC2-T7	_				
 Without option 					LECSS2-T7	●* ³				
B With lock	Without option									

*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 The only compatible drivers complaint with UL standards are the LECSS2-T5 and LECSS2-T7.

—	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*7 The motor and encoder cables are included. (The lock cable is included when the motor with lock option is selected.)

*8 Standard cable entry is "(A) Axis side".

Applicable Stroke Table*5

Stroke Model		300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40											—
25A-LEJS63											

*5 Please consult with SMC for non-standard strokes as they are produced as special orders.

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

Compatible Dr	iver * The 25.	A- series specificati	ons and dimensions	s are the same as t	nose of the standar	a model.	
Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETII type	Pulse Input Type	CC-Link Direct Input Type	type
Series	LECSA	LECSB	LECSC	LECSS	LECSB-T	LECSC-T	LECSS-T
Number of point tables	Up to 7	—	Up to 255	_	Up to 255	Up to 255 (2 stations occupied)	—
Pulse input	0	0	_	—	0	—	—
Applicable network			CC-Link	SSCNET Ⅲ		CC-Link	SSCNET Ⅲ/H
Control encoder	Incremental	Absolute	Absolute	Absolute	Absolute	Absolute	Absolute
Control encoder	17-bit encoder	18-bit encoder	18-bit encoder	18-bit encoder	22-bit encoder	18-bit encoder	22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	USB communication,	RS422 communication	USB communication
Power supply voltage [V]	100 to 1	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz) 200 to 240 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz) 200 to 240 VAC (50/60 Hz)					

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



4 Lead [mm]

Symbol	25A-LEJS40	25A-LEJS63
Н	24	30
Α	16	20
В	8	10

10

9 Driver type*6

	Compatible driver	Power supply voltage [V]	UL-compliant
—	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	_
DZ	LECSB2-T	200 to 240	_
C1	LECSC1-S	100 to 120	_
C2	2 LECSC2-S 200 to 230		_
62	LECSC2-T	200 10 230	_
S1	LECSS1-S	100 to 120	_
S2	LECSS2-S	200 to 230	_
32	LECSS2-T	200 to 240	

*6 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

1/O cable length [m]*10

—	Without cable
Н	Without cable (Connector only)
1	1.5

*10 When "Without driver" is selected for driver type, only "---: Without cable" can be selected. Refer to the Catalogue at www.smc.eu if I/O cable is required.

For auto switches, refer to page 211.

AC Servo Motor LECY Series

Electric Actuator/High Rigidity Slider Type

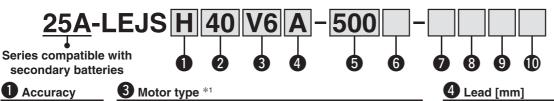
Ball Screw Drive Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

Refer to the Catalogue at www.smc.eu for model selection.

LECS□ Series ▶ Page 195

How to Order



_	Basic type	
Н	High-precision type	
2 Siz	e	

40

63

	lor type			
Symbol	Туре	Output [W]	Actuator size	Compatible driver
V6	AC servo motor (Absolute encoder)	100	40	LECYM2-V5 LECYU2-V5
V7	AC servo motor (Absolute encoder)	200	63	LECYM2-V7 LECYU2-V7

*1 For motor type V6, the compatible driver part number suffix is V5.

7 Cable type*5, *6, *7

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".

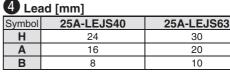
I/O cable length [m]*9

_	Without cable	/hen "Without driver" is selected for driver type,
Н	Without cable (Connector only)	nly ": Without cable" can be selected.
1	1.5	efer to the Catalogue at www.smc.eu if I/O cable

8 Cable length [m] *5, *6

Without cable
3
5
10
20

*6 The length of the motor, encoder and lock cables are the same.



5 Stroke [mm]*3 200 *3 Refer to the to applicable stroke 1500 table for details.

6 Motor option

Without option В With lock

RoHS

9 Driver type *5

	·	
/	Compatible driver	Power supply voltage [V]
_	Without driver —	
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

*5 When a driver type is selected, a cable is included. Select the cable type and cable length. Example)

S2S2: Standard cable (2 m) + Driver (LECSS2)

S2 : Standard cable (2 m)

: Without cable and driver

Applicable S	Applicable Stroke Table*4 •: Standard										
Stroke Model		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.

is required.

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

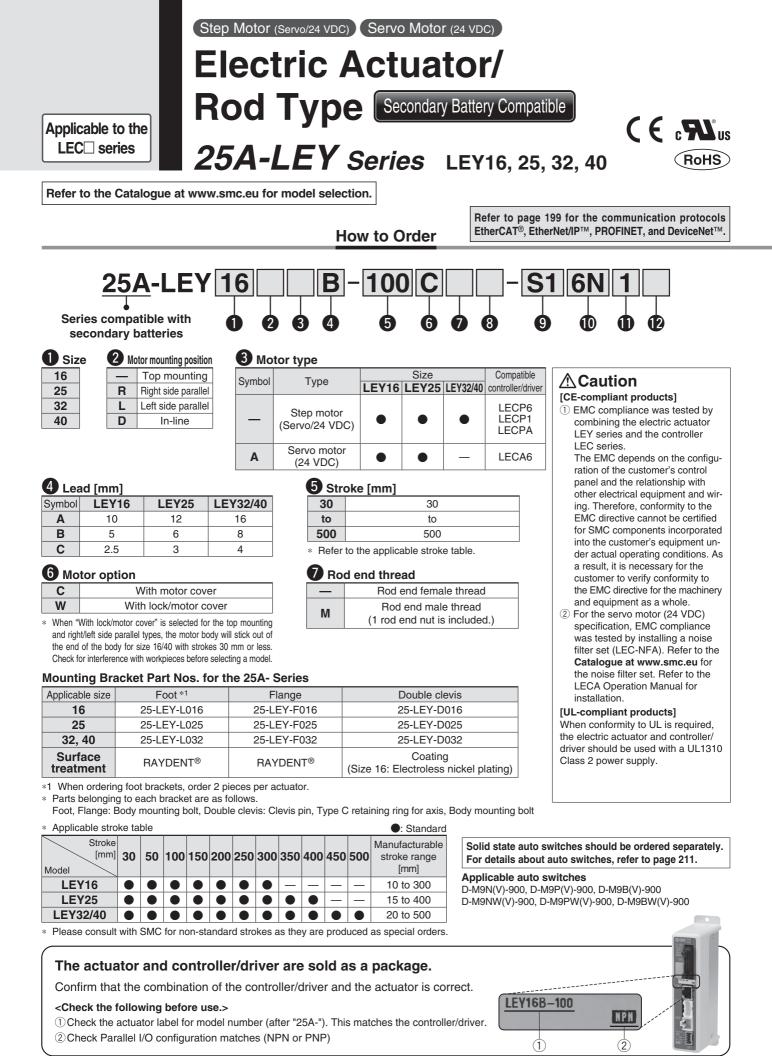
* The 25A- series specifications and dimensions are the same as those of the standard model.

Compatible Driver

Compatible Driver					
Driver type	MECHATROLINK-II type	MECHATROLINK-III type			
Series	LECYM	LECYU			
Applicable network	MECHATROLINK-II	MECHATROLINK-II			
Control encoder		olute 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.



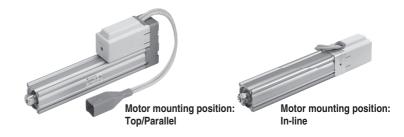


^{*} Refer to the operation manual for using the products. Please download it via our website, https://www.smc.eu

SMC

Electric Actuator/Rod Type 25A-LEY Series

Step Motor (Servo/24 VDC) Servo Motor (24 VDC) Secondary Battery Compatible



8 Mounting*1

Cumbol	Tuno	Motor mounting position		
Symbol	Symbol Type		In-line	
—	Ends tapped/ Body bottom tapped	•	•	
L	Foot		—	
F	Rod flange*2			
G	Head flange*2	•*4	—	
D	Double clevis*3		—	

- *1 Mounting bracket is shipped together, (but not assembled).
- *2 For horizontal cantilever mounting with the rod flange, head flange and ends tapped, use the actuator within the following stroke range.
 - · LEY25: 200 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

—	Screw mounting
D	DIN rail mounting*1

*1 DIN rail is not included. Order it separately.

9 Actuator cable type/length*2

_	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		
R 8	Robotic cable 8 m*1		
RA	Robotic cable 10 m*1		
RB	Robotic cable 15 m*1		
RC	Robotic cable 20 m*1		
A Development of an end of the stick of the			

- *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."

1 I/O cable length [m]*1, Communication plug

_	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

Controller/Driver type*1

_	Without controller/driver			
6N	LECP6/LECA6	NPN		
6P	(Step data input type)	PNP		
1N	LECP1*2	NPN		
1P	(Programless type)	PNP		
AN	LECPA*2 *3	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 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) separately.

- *1 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to the **Catalogue at www.smc.eu** 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 "--", "S" or "T" can be selected.
 - * 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	Programless type	Pulse input type
Series	LECP6	LECA6	LECP1	LECPA
Features		utStandard controller	Capable of setting up operation (step data) without using a PC or teaching box	Operation bypulse signals
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)	Step motor (Servo/24 VDC)	
Maximum number of step data	64 p	oints	14 points	—
Power supply voltage	24 VDC			

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



Step Motor (Servo/24 VDC)

Electric Actuator/ Rod Type Secondary Battery Compatible

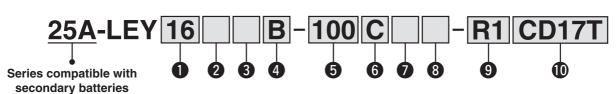
25A-LEY Series LEY16, 25, 32, 40

Refer to the Catalogue at www.smc.eu for model selection.

How to Order

Refer to page 197 for the communication protocol CC-Link.

RoHS



1 Siz	e
16	
25	
32	
40	

2 Motor mounting position				
— Top mounting				
R	Right side parallel			
L	Left side parallel			
D	In-line			

3 Motor type

5 Stroke [mm]

7 Rod end thread

30

to

500

Μ

Cumbal	Turne	Size			Compatible	
Symbol	Туре	LEY16	LEY25	LEY32/40	controller	
_	Step motor (Servo/24 VDC)	•	•	•	JXCE1 JXC91 JXCP1 JXCD1	

30

to

500

Rod end female thread

Rod end male thread

(1 rod end nut is included.)

Refer to the applicable stroke table.

4 Lead [mm]

Symbol	LEY16	LEY25	LEY32/40
Α	10	12	16
В	5	6	8
С	2.5	3	4

6 Motor option

С	With motor cover
W	With lock/motor cover

* When "With lock/motor cover" is selected for the top mounting and right/left side parallel types, the motor body will stick out of the end of the body for size 16/40 with strokes 30 mm or less. Check for interference with workpieces before selecting a model.

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

* Applicable Stro	oke T	able										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]

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.

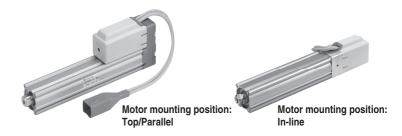
Solid state auto switches should be ordered separately. For details about auto switches, refer to page 211.

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



Electric Actuator/Rod Type 25A-LEY Series

Step Motor (Servo/24 VDC) Secondary Battery Compatible



8 Mounting*1

Symbol	Type	Motor mounting position		
Symbol	туре	Top/Parallel	In-line	
—	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

Compatible Controller

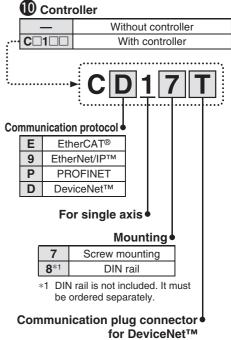
*4 Head flange is not available for the LEY32/40.

9 Actuator cable type/length

—	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
R 8	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.



Without plug connected			
S Straight type			
Т	T-branch type		
* Selec	t "—" for anything other than		

DeviceNet[™].

* 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 points							
Power supply voltage	24 VDC							

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



AC Servo Motor LECS Series

Electric Actuator/ Rod Type Secondary Battery Compatible **((,)** 25A-LEY Series LEY25, 32 Size

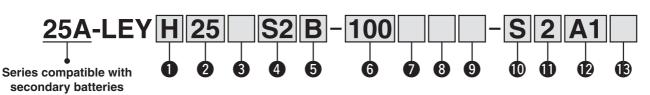
LECY□ Series ▶ Page 203

Refer to the Catalogue at www.smc.eu for model selection.

25, 32

(RoHS)

How to Order



Accuracy Basic type

High-precision type

н

2 Size 25 32

R

L D

3 Motor mounting position Top mounting

> Right side parallel Left side parallel

> > In-line

LEY32*1

16 (20)

8 (10)

4 (5)

4 Motor type*1

Motor option

В

*1

Symbol	Туре	Output [W]	Actuator size	Compatible drivers*3	UL- compliant
S2 *1	AC servo motor	100	25	LECSA□-S1	_
S3	(Incremental encoder)	200	32	LECSA□-S3	_
S6 *1	AC servo motor	100	25	LECSB□-S5 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	

*2 For motor type T6, the compatible driver part number suffix is T5.

Without option

With lock*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.

Moto

*3 For details about the driver, refer to the Catalogue at www.smc.eu.

*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])

LEY25

12

6

3

6 Stroke [mm]

5 Lead [mm]

Symbol

Α

В

С

30	30
to	to
500	500

* Refer to the applicable stroke table for details.

8 Rod end thread

—	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
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 ta 	* Applicable stroke table					: Standard						
Stroke	20	50	100	150	200	250	300	250	100	150	500	Manufacturable
Model [mm]	30	50	100	150	200	250	300	300	400	450	500	stroke range [mm]
25A-LEY25										—	—	15 to 400
25A-LEY32												20 to 500
· Disconcentration of the second strategies of the second strategies and second s												

Please consult with SMC for non-standard strokes as they are produced as special orders. SMC

9 Mounting*1

Sumbol	Symbol Type		Motor mounting position		
Symbol	туре	Top/Parallel	In-line		
_	Ends tapped/ Body bottom tapped		•		
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. · 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.

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

201

Electric Actuator/Rod Type 25A-LEY Series AC Servo Motor Size 25, 32 Secondary Battery Compatible





Motor mounting position: Top/Parallel Motor mounting position: In-line

Cable type*1

—	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

B I/O cable length [m]*1

—	Without cable		
Н	Without cable (Connector only)		
1	1.5		

*1 When "Without driver" is selected for driver type, only "—: Without cable" can be selected. Refer to the Catalogue at www.smc.eu if I/O cable is required.

Cable length*1 [m]

-	<u> </u>		
	Without cable		
2	2		
5	5		
Α	10		

*1 The length of the encoder, motor and lock cables are the same.

Driver type*1

	Compatible driver	Power supply voltage [V]	UL-compliant
—	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	_
52	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)

Without cable and driver

* 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	SSCNET II type	SSCNETIWH 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	SSCNET II	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		USB communication, RS422 communication	USB com	nunication
Power supply	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz) 200 to 240 VAC (50/60 Hz)				

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

AC Servo Motor LECY Series

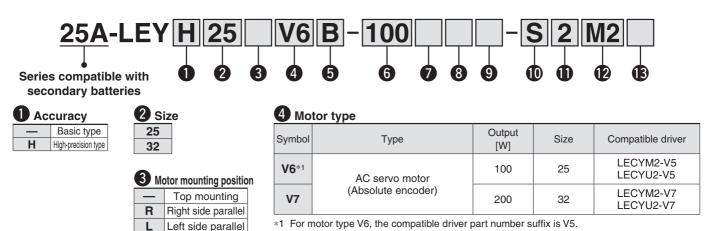
Electric Actuator/ Rod Type Secondary Battery Compatible

25A-LEY Series LEY25, 32 Size 25.32

LECY□ Series ▶Page 201

Refer to the Catalogue at www.smc.eu for model selection.

How to Order



*1 For motor type V6, the compatible driver part number suffix is V5.

Motor mounting position

Top/Parallel In-line

*4

*5

_

5 Lead [mm]

Symbol	25A-LEY25	25A-LEY32*1
Α	12	16 (20)
В	6	8 (10)
С	3	4 (5)

L D

In-line

*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])

8 Rod end thread

—	Rod end female thread		
М	Rod end male thread (1 rod end nut is included.)		

6 Stroke [mm]

9 Mounting*1

Symbo

L

F

G

D

30	30
to	to
500	500

Refer to the applicable stroke table for details.

Туре

Ends tapped/

Body bottom tapped

Foot

Rod flange*2

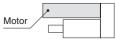
Head flange*2

Double clevis*3

Motor option

—	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.



CE

RoHS

- *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
- Rod flange is not available for the LEY25 with *4 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

*1 When ordering foot brackets, order 2 pieces per actuator.

* Parts belonging to each bracket are as follows.

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)

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

Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Body mounting bolt Appliable strake table

* Applicable stroke table												Standard
Stroke	30	50	100	150	200	250	300	350	400	450	500	Manufacturable
Model [mm]			100	100	200	200	000	000	400	400	000	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.

SMC

Electric Actuator/Rod Type 25A-LEY Series AC Servo Motor Size 25, 32 Secondary Battery Compatible





Motor mounting position: Top/Parallel Motor mounting position: In-line

Cable type*1

—	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

B I/O cable length [m]*1

—	Without cable
Н	Without cable (Connector only)
1	1.5

*1 When "Without driver" is selected for driver type, only "—: Without cable" can be selected. Refer to the Catalogue at www.smc.eu if I/O cable is required.

Cable length [m]*1

—	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)

Driver type

	Compatible driver	Power supply voltage [V]
—	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V	200 to 230

* When a driver type is selected, a cable is included. Select the cable type and cable length.

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

Compatible Driver

Driver type	MECHATROLINK-II type	MECHATROLINK-II type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-I	MECHATROLINK-II
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	o switches									Ai	r cylinde	ers			
				/ tute	Electrical		Lood	Lwiro	longt	h [m]	Pre-wired	CDJP2	CD(B)J2 CDJ2K	CDM2	CD(I		MDB	CDA2	
Type	Special		Indicator	Wiring	entry	Auto switch			lengt	. []	connector	CDJP2	CDJ2K	CDIVIZ				CDAZ	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	function	entry	light	(Output)	direction	model	0.5	1 M	3 L	5 Z	SDPC	Ø4 to Ø16	Ø 10, Ø 16	Ø 20 to Ø 40	Ø 20 to Ø 63	Ø 80, Ø 100	Ø 32 to Ø 100	Ø 40 to Ø 100	
				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-colour			3-wire (NPN)		D-M9NWV-900				0	_		_		—	—			
	indicator)			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					0	—		—	—	—	—	—	—	
				2-wire		D-Y69B-900				0	—		—		—	—	—	—	
				3-wire (NPN)		D-Y7NW-900				0	_		_			—		—	
	Diagnostic			3-wire (PNP)	In-line	D-Y7PW-900				0	_						—	—	
Solid	indication			2-wire		D-Y7BW-900				0	—		—	-	—	—	—	—	
state	(2-colour	Grommet	Yes	3-wire (NPN)		D-Y7NWV-900				0	_				—	—	—	—	
auto	indicator)	Gironniot	1.00	3-wire (PNP)	Perpendicular		_			0				-	—	—	—	—	
switch				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 indication			3-wire (NPN)	_	D-G59W-900	•	—		0					—			—	
	(2-colour			3-wire (PNP)		D-G5PW-900	•	—		0	_							—	
	indicator)			2-wire		D-K59W-900	•	—	•	0	0							—	
				3-wire (NPN)	La P	D-F79-900	•	—		0					—	—	—	—	
				3-wire (PNP)	In-line	D-F7P-900	•		•	0	—			-	—	—	—	—	
	_			2-wire		D-J79-900	•	—		0								—	
				3-wire (NPN)	Domon diaular	D-F7NV-900	•			0				-		—			
					rerpendicular	D-F7PV-900 D-F7BV-900				0	_					—	_		
				2-wire		D-F78V-900 D-F79W-900	•		•	0									
	Diagnostic			3-wire (NPN)	In-line	D-F79W-900 D-F7PW-900													
	indication			3-wire (PNP) 2-wire	In-line	D-F7PW-900 D-J79W-900		_	•	0									
	(2-colour			2-wire 3-wire (NPN)		D-579W-900 D-F7NWV-900	-		•	0									
	indicator)			2-wire		D-F7BWV-900			•	0									
				3-wire (NPN)	Pernendicular		•		•	0									
	_			3-wire (NPN)	reiperiulouidi	D-F8P-900	•			0									
				2-wire		D-F8B-900	•			0									
						D-P8B-900 D-A90-900	-					•*1	•	•	•		_	•	
Reed	_		No	2-wire	In-line	D-Z80-900			•			_	_	_	_			_	
auto		Grommet		3-wire (NPN equiv.)		D-E76A	•		•	_						_			
switch	_		Yes		In-line	D-E73A	•					_		_			_		
0			No	2-wire		D-E80A	•			_									
. 1 The D			140			DILOUA													<u> </u>

*1 The D-A90L-900 cannot be mounted on Ø 4. * 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".)
- Individual auto switch: D-M9BWL-900

- * Lead wire length symbols: 0.5 m...... (Example) M9NW

- (Place the order with the part number for auto switch shown in the table above.)
- - 1 m..... M (Example) M9NWM
 - 3 m..... L (Example) M9NWL 5 m..... Z (Example) M9NWZ

SMC

	Compact cylinders									Rodless cylinders														
(CDS2	CDUJ	CDU	CDUK	CDQS(W)	CDQ	2(W)	CDE	3Q2	MY1B-Z	MY1H-Z	I	MY1B	;	MY	1M	MY	1C	MY1H	MY2C	MY2H/HT	MY3	СҮ	′3R
(0 125 to Ø 160	Ø 6 to Ø 20	Ø 10 to Ø 32	Ø 16 to Ø 32	Ø 12 to Ø 25	Ø 12 to Ø 100	Ø 125 to Ø 200	0 20, 0 25	Ø 32 to Ø 100	0 25 to 0 40	Ø 25 to Ø 40	Ø 16, Ø 20	Ø 50	Ø 63	Ø 16, Ø 20	0 25 to 0 63	Ø 16, Ø 20	Ø 25 to Ø 63	Ø 16 Ø 20	0 16, 0 25, 0 40	0 16 0 25 0 40	Ø 16 to Ø 63	Ø 6 to Ø 20	Ø 25 to Ø 63
			0101000					0 20,0 20			0 20 10 0 10	0 10,0 20		•	0 10,0 20			.0101000	0 10,0 20	0 10,0 20,0 10	0 10,0 20,0 10			•
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•	•	•	•	•	•	•	•	•
													—										_	—
	•	•	•	•	•	•	•	•	•	•	•	•	—	•	•	•	•	•	•	•	•	•		
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25A- Series

Applicable Cylinder Series

				Aı	uto switches							
					Electrical		1	oad wire	e length [m	nl	Pre-wired	
Туре	Special	Electrical	Indicator		entry	Auto switch model				-	connector	
.,	function	entry	light	(Output)	direction		0.5	1 M	3 L	5 Z	SDPC	
				3-wire (NPN)		D-M9N-900	•		•	0	_	
	1	1		3-wire (PNP)	In-line	D-M9P-900	•		•	0	_	<u> </u>
	1	1	'	2-wire		D-M9B-900	•	•	•	0	_	
	1 — I	1	'	3-wire (NPN)		D-M9NV-900	•	•	•	0		
	1	1		. ,	Perpendicular		•	•	•	0		
	1	1		2-wire		D-M9BV-900	•	•	•	0		
		1	!	3-wire (NPN)		D-M9NW-900	•	•	•	0		
	Diagnostic	1		3-wire (PNP)	In-line	D-M9PW-900	•	•	•	0		
	indication	1		2-wire		D-M9BW-900	•	•	•	0	0	1
	(2-colour	1		3-wire (NPN)	'	D-M9NWV-900	•	•	•	0		<u> </u>
	indicator)	1			Perpendicular		•	•	•	0	_	<u> </u>
	1 1	1	'	2-wire		D-M9BWV-900	•	•	•	0	0	<u> </u>
		1		3-wire (NPN)		D-Y59A-900	•		•	0		<u> </u>
	1	1		3-wire (PNP)	In-line	D-Y7P-900	•	•	•	0	<u>+</u>	<u> </u>
	1	1		2-wire		D-Y59B-900	•	•	•	0		
	1 — I	1		3-wire (NPN)		D-Y69A-900	•	•	•	0	_	t
	1	1		. ,	Perpendicular		•	•	•			
	1	1		2-wire		D-Y69B-900	•		•	0		
		1		3-wire (NPN)	'	D-Y7NW-900	•	•	•	0		+
	Diagnostic	1		3-wire (NPN)	In-line	D-Y7PW-900	•	•	•	0		+
	indication	1		2-wire		D-Y7BW-900	•	•	•	0		+
Solid state auto		1		3-wire (NPN)	'	D-Y7NWV-900	•			0		+
switch	indicator)	Grommet	Yes		Perpendicular	D-Y7PWV-900	•	•	•	0		<u> </u>
SWITCH		1		2-wire		D-Y7BWV-900	•		•			<u> </u>
		1		3-wire (NPN)		D-G59-900	•	_	•			
	I	1		3-wire (PNP)	1 '	D-G5P-900	•		•	0		1
	1 1	1		2-wire	1 '	D-K59-900	•		•	0		+
	Diagnostic	1		3-wire (NPN)	In-line	D-G59W-900	•		•	0		1
	indication	1		3-wire (PNP)	1	D-G5PW-900	•	_	•	0		<u> </u>
	(2-colour indicator)	1		2-wire	1	D-K59W-900	•	<u> _</u>	•	0	0	t
		1		3-wire (NPN)	'	D-F79-900	•		•	0		1
	1	1		3-wire (PNP)	In-line	D-F7P-900	•		•	0		
	1	1		2-wire		D-J79-900	•		•	0		
	I — I	1		3-wire (NPN)		D-579-900	•		•	0		
	1	1		. ,	Perpendicular		•		•	0		+
	1	1		2-wire	Ferpendicular	D-F7BV-900	•			0		+
	I	1		3-wire (NPN)		D-F79W-900	•	<u> </u>	•	0		+
	Diagnostic	1		3-wire (NPN)	In-line	D-F7PW-900	-			0		+
	indication	1		2-wire		D-J79W-900	•			0		+
	(2-colour	1		3-wire (NPN)		D-579W-900	•	<u> </u>	•	0	<u> </u>	+
	indicator)	1		2-wire	1	D-F7BWV-900	•	<u> </u>	•	0	<u> </u>	+
		1			Perpendicular		•	<u> </u>		0	<u> </u>	+
	1 1	1		3-wire (NPN) 3-wire (PNP)	Perpendicular	D-F8P-900			-		<u> </u>	+
	· · · ·	1		. ,	1	D-F8B-900	•	<u> </u>		0	—	+
	<u>├</u>		'	2-wire	<u> </u> '	D-F8B-900 D-A90-900	•	<u> </u>	•	0	—	+
	i — I	1	No	2-wire	In-line				•			+
Reed auto	ļļ	0	'		⊢ ′	D-Z80-900	_		•	<u> </u>		+
switch	1	Grommet	Yes	3-wire (NPN equiv.)	la line	D-E76A	•		•		-	<u> </u>
	1 – I	1		2-wire	In-line	D-E73A	•		•	<u> </u>	-	<u> </u>
		L	No	<u> </u>	<u> </u>	D-E80A		—		—	—	L

Applicable Auto Switches **25A-** Series

	Table cylinders								Guide cylinders										
											Í				Clamp/Stopper				
	MXH	MXS	MXQ□	MXQ	MXW	MXP	MGP	MGP-H/R	MGG	CXSJ	CXS	CDE	BXW	CDBPXW	MK	RSQ	RSH		
Ø	6 to Ø 20	Ø 6 to Ø 25	Ø 6 to Ø 25	Ø 6 to Ø 25	Ø 8 to Ø 25	Ø 6 to Ø 16	Ø 12 to Ø 100	Ø 20 to Ø 100	Ø 20 to Ø 50	Ø 6 to Ø 32	Ø 6 to Ø 32	Ø 10	Ø 16 to Ø 32	Ø 10 to Ø 32	Ø 12 to Ø 63	Ø 12 to Ø 50	Ø 20, Ø 32		
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25A- Series

Applicable Rotary Actuator Series

				Au	to switches								Rotary a	ctuators	6
_	Special	Electrical	Indicator	Wiring	Electrical	Auto switch	Lea	ad wire	length	[m]	Pre-wired	MSQ	MSZ	MD	SUB
Туре	function	entry	light	(Output)	entry direction	model	0.5	1 M	3 L	5 Z	connector SDPC	10 to 200	10 to 50	1, 3	7, 20
				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-colour			3-wire (NPN)		D-M9NWV-900				0	-	•	•	—	
	indicator)			3-wire (PNP)	Perpendicular		•	•	•	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			3-wire (PNP)	In-line	D-Y7PW-900				0			—		
Solid state	indication	Grommet	Yes	2-wire		D-Y7BW-900				0			—	_	
auto switch	(2-colour			3-wire (NPN)		D-Y7NWV-900				0	-		—	_	
	indicator)			3-wire (PNP)	Perpendicular	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			_	•	<u> </u>
				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	•	_	•	0			_	•	
						D-S9PV2-901*1	•	_	•	0			-	•	
				2-wire		D-T99V1-901*1	•	-	•	0	-	_	—	•	
						D-T99V2-901*1	•	—	•	0			_	•	_
				3-wire (NPN)		D-S791-901*1		-	•	0			_	_	•
						D-S792-901*1		_	•	0	-			_	•
				3-wire (PNP)	In-line	D-S7P1-901*1	•	_	•	0			_	_	•
						D-S7P2-901*1	•	—	•	0	-		_		•
				2-wire		D-T791-901*1 D-T792-901*1	•	_	•	0			_		•
Deed						D-1/92-901*1	•		•	0	<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 you order the actuator with two auto switches at the part number of the actuator, one each of the right-hand-type and the left-hand-type are shipped together with the actuator. When the MHZ2-10, MHZL2-10, MHL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper. When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 214.

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 	* Lead wire length symbols: 0.5 m	(Example) M9NW
(Omit the first "D-" and the last "-900" or "-901".)	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 tab	le above.) 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.



Applicable Air Gripper Series

Auto switches											Air gri	nners									
					Electrical		1.000	d wire	longth		Pre-wired					-			MH63		
Туре	Special	Electrical		Wiring	entry	Auto switch			Ŭ		connector	MHZ2	MHZL2	MHZJ2	-X6100	-X5955	MHL2	MHF2	MHS4	MHSJ3	MHY2
.) po	function	entry	light	(Output)	direction	model	0.5	1 M	3 L	5 Z		10 to 40	10 to 25	10 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		•	•	•	•	•	•	•	•	•	•
				. ,	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	-wire D	D-M9BW-900				0	0										
	(2-colour			3-wire (NPN)		D-M9NWV-900			•	0	_	•	•		•			•	•	•	•
	indicator)			3-wire (PNP)	Perpendicular					0	_										
				2-wire		D-M9BWV-900			•	0	0	•	•	•	•	•	•	•	•	•	•
		1		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	3-wire (PNP)	-	D-Y7PV-900				0	_			—	_	_		_	_	_	_
				2-wire		D-Y69B-900				0	—			—	_	—		—		_	—
			3-wire (NPN)	4	D-Y7NW-900				0	—			—	_	—		_	_	_	_	
	Diagnostic			3-wire (PNP)		D-Y7PW-900				0	—			—	_	—		—	—	—	—
Solid state	indication		Vee	2-wire		D-Y7BW-900				0	—			—	_	—		—	_	—	—
auto switch	(2-colour	Grommet	Yes	3-wire (NPN)	-	D-Y7NWV-900				0	—			—	_	—		_	_	_	—
	indicator)			3-wire (PNP)		D-Y7PWV-900				0	—			—	_	—		_	_	_	—
				2-wire		D-Y7BWV-900				0	_	٠		—	_	_		—	_	_	_
		1				D-S991-901*1		—		0	_	—	_	—	_	—	—	_	_	_	_
				3-wire (NPN)		D-S992-901*1		—		0	—	—	_	—	—	—	—	—	_	_	-
						D-S9P1-901*1		—		0	_	_	_	—	—	—	—	—	_	_	_
				3-wire (PNP)	in-line	D-S9P2-901*1		—		0	—	—	_	—	_	—	—	—	_	_	_
				2-wire		D-T991-901*1		—		0	—	—	_	—	_	—	—	—	_	—	-
				2-wire		D-T992-901*1		—		0	—	—	—	—	—	—	—	—	—	—	—
				3-wire (NPN)		D-S99V1-901*1		—		0	—	—		—		—	—	—	—	—	—
				S-WITE (INPIN)		D-999V2-901*1		—		0	—	—	_	—	_	—	—	—	—	—	_
				3-wire (PNP)	Pornondicular	D-S9PV1-901*1		—		0	—	—	—	—	—	—	—	—	—	—	—
	_			S-WIE (FINF)	reiperiulculai	D-S9PV2-901*1		—		0	—	—	—	—	—	—	—	—	—	—	_
				2-wire		D-T99V1-901*1		—		0	—	—		—		—	—	—	—	—	—
				2-wire		D-T99V2-901*1		—		0	—	—	—	—	_	—	—	—	—	—	—
				3-wire (NPN)		D-S791-901*1		—		0	—	—		—	—	—	—	—		_	—
						D-S792-901*1		—		0	—		—	—	—	—	—	—	_	_	—
			3-wire (PNP)	In-line	D-S7P1-901*1		—		0	—		_	—	—	—	—	—	_	_	—	
						D-S7P2-901*1		—	٠	0	—	—	—	—	—	—	—	—	—	—	—
				2-wire		D-T791-901*1		—		0	—	—	_	—	—	—	—	—	—	_	—
				2-00110		D-T792-901*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.

Note that the individual auto switch with part number of " \square " and " \square " have the right-hand-type (\square) and the left-hand-type (\square). 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 you order the actuator with two auto switches at the part number of the actuator, one each of the right-hand-type and the left-hand-type are shipped together with the actuator.
 When the MHZ2-10, MHZL2-10, MHL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper. When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 214.

Ordering the Auto Switches

Please be aware that the order part numbers for the air gripper mounted and ind	ividual auto switches are different.	
(Example) Part number for ordering D-M9BWL-900:		
 Air gripper mounted type: 25A-MHZ2-16D-M9BWL 	* Lead wire length symbols: 0.5 m	(Example) M9NW
(Omit the first "D-" and the last "-900" or "-901".)	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 ta	ble above.) 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.



Applicable Electric Actuator Series

	Auto switches												actuators
_ Special		Electrical	Indicator	Wiring	Electrical	Auto switch	Le	ad wire	length [m]	Pre-wired	LEJS	LEY
Туре	function	entry	light	(Output)	entry direction	' model		1 M	3 L	5 Z	connector SDPC	40 to 63	16 to 40
				3-wire (NPN)		D-M9N-900			•	0	_	•	•
				3-wire (PNP)	In-line	D-M9P-900	٠		٠	0	_	٠	•
				2-wire		D-M9B-900				0	—	٠	•
	_			3-wire (NPN)		D-M9NV-900				0	—	٠	•
				3-wire (PNP)	<u> </u>	D-M9PV-900				0	—	•	•
Solid state		Crommet	Vaa	2-wire		D-M9BV-900			٠	0	_	٠	•
auto switch		Grommet	Yes	3-wire (NPN)		D-M9NW-900				0	—	٠	•
	Diagnostic			3-wire (PNP)	In-line	D-M9PW-900				0	—	•	•
	indication			2-wire	1	D-M9BW-900				0	0	•	•
	(2-colour	2-colour		3-wire (NPN)		D-M9NWV-900	٠		٠	0	_	٠	
	indicator)			3-wire (PNP)	Perpendicular	D-M9PWV-900	٠		٠	0	_	٠	
				2-wire]	D-M9BWV-900				0	0	•	•

 $\ast~$ Solid state auto switches marked with "O" are produced upon receipt of order.

* Auto switches cannot be ordered with the actuator part number. They should be ordered separately. Please refer below for ordering. One each of the right-hand-type and the left-hand-type are shipped together with the actuator.

Ordering the Auto Switches

• Individual auto switch: D-M9BWL-900

(Place the order with the part number for auto switch shown in the table above.)

25A- Series Auto Switch Mounting

Band Mounting Type

Applicable cylinder series: 25A-CDJ2, 25A-CDJ2K, 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

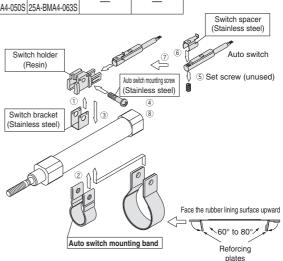
Auto Switch Mounting Bracket Part Nos.

Cylinder				A	pplicable b	ore size [mm	ו]				
series	10	16	20	25	32	40	50	63	80	100	
25A-CDJ2	*1	*1									
25A-CDJ2K	25A-BJ7-010S		-	_	—	_	—	—	—	—	
25A-CDBJ2											
25A-CDM2	_	_	*2	*2	*2	*2				_	
LOA ODIIIL			25A-BM6-020S 25A-BM6-025		25A-BM6-032S	25A-BM6-040S					
25A-CDG1			*3	*3	*3	*3	*3	*3			
25A-CDBG1		_	25A-BMA4-020S	25A-BMA4-025S	25A-BMA4-032S	25A-BMA4-040S	25A-BMA4-050S	25A-BMA4-063S			
DEA MOO			*3	*3	*3	*3	*3	*3			
25A-MGG		_	25A-BMA4-020S	25A-BMA4-025S	25A-BMA4-032S	25A-BMA4-040S	25A-BMA4-050S	25A-BMA4-063S		_	

*1 The combination of the auto switch mounting band (BJ2-DDS/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).

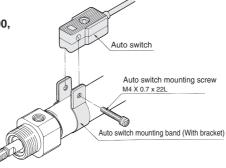


25A-BM6, 25A-BMA4

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					



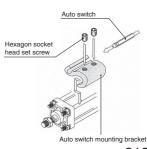
Tie-rod Mounting Type

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

SMC

Auto Switch Mounting Bracket Part Nos.

Cylinder				Applica	ble bore siz	e [mm]			
series	32	40	50	63	80	100	125	140	160
25A-MDB	90-	90-	90-	90-	90-	90-			
23A-INDD	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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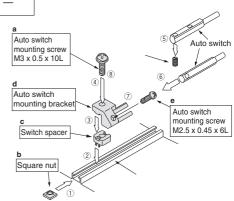


Rail Mounting Type

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-M9PA(V)-900, D-M9PA(V)-900, D-M9PA(V)-900, D-A90-900

Auto Switch Mounting Bracket Part No.

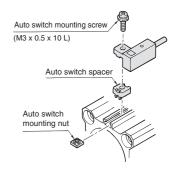
Cylinder		Applicable bore size [mm]										
series	20	25	32	40	50	63	80	100				
25A-CDBQ2	—	_	2	25A-BQ2-03	2	_	—	_				



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

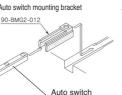
Auto Switch Mounting Bracket Part No.

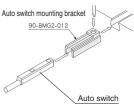
		<u> </u>											
Cylinder		Applicable bore size [mm]											
series	20	0 25 32 40 50 63 80 100											
25A-CDBQ2	_	_			25A-	BQ-2							



Direct Mounting Type

Applicable cylinder series : 25A-MY1B, 25A-MY1H, 25A-MY3,	
25A-CY3R, 25A-MGP-Z, 25A-MGP-AZ,	Auto switch
25A-MGP-H/R, 25A-RSH	90-BMG2-
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,	0
D-M9□WV-900, D-M9BWSDPC-900,	<u>h</u>
D-M9BWVSDPC-900	
: D-A90L-900	<u>U</u>





Auto Switch Mounting Bracket Part Nos.

Cylinder series						Ар	plicable bo	ore size [m	וm]					
Air gripper series	4	6	10	12	15	16	20	25	32	40	50	63	80	100
25A-CDJP2	—	_	_	—	—		—		_	—	—	—	_	—
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-MY1M	_	_	_	_	_	Not required	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	_	_
25A-MY1C	_		_	—		Not required	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012		
25A-MY1H	—	_	_	—	—	Not required	Not required	_	_	—	—	—	_	—
25A-MY3□	—	_	_	_	—	BMY3-016	_	—						
25A-CY3R	—	_	_	—	Not required	—	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	_	—
25A-MGJ	_	_	_	_	_	_	_	_	_	_	_	_	_	_
25A-MGP-Z 25A-MGP-AZ	_	_	_	Not required	_	Not required								
25A-MGP-H/R	_	_	_	_	_	_	90- BMG2-012							
25A-RSH	_	_	_	_	_	_	90- BMG2-012	_	90- BMG2-012	_	_	_	_	_
25A-MHZ2	_	_	90- BMG2-012	_	_	*1	*1	*1	*1	*1	_	_	_	_
25A-MHZL2	_	_	90- BMG2-012	_	_	*1	*1	*1	_	_	_	_	_	_
25A-MHL2	_	_	90- BMG2-012	_	_	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	_	_	_	—
25A-MHS3 25A-MHS4	_	_	_	_	_	Not required	Not required	Not required	90- BMG2-012	_	_	_	_	_

*1 When mounting D-M9 type of auto switch onto the square groove of the side of the air gripper, the auto switch mounting bracket (90-BMG2-012) is required.

Precautions

Be sure to read this before handling products.

Precautions

25A- Series

∆Caution

Change of material

For the 25A- series, there is a restriction on the use of copper and zinc as main components in the metal materials used. Keep in mind that the aluminium alloy, aluminium die cast, and some of the stainless steel materials contain traces of copper (Cu) and/or zinc (Zn) as an additive element.

However, copper is used in some parts—the coils of solenoid valves, the circuit boards, connector pins, and lead wires of electrical equipment and auto switches, and the motors, cables, and drivers of electric actuators—whose materials cannot be easily changed to alternative materials.

In addition, some magnets (including the surface treatment) contain copper (Cu) and/or zinc (Zn). However, due to their magnetic characteristics, it is impossible to use alternative materials.

Particle generation (metallic contaminants)

Usage of metal stoppers and/or shock absorbers on an air slide table produces metal-to-metal collision and contact, and may generate wear particles. Do not use metal stoppers and/or shock absorbers in an environment where wear particles are problem.

When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.

The following models of air gripper may generate dust particles, as metal-to-metal collisions occur when fingers are fully closed.

- \cdot MHZ2
- · MHZL2 (Except -X5955)
- \cdot 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.

 $\label{eq:charge} \mbox{EtherCAT}^{\circledast} \mbox{ is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. }$

Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and the "Operation Manual" before use.

▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of **"Caution," "Warning"** or **"Danger."** They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) ¹, and other safety regulations.

▲ Caution:	Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
▲ Warning:	Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
▲ Danger:	Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

▲ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications. Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogueue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.

- 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
- 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogueue.
- An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

▲ Caution

 The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

1) ISO 4414: Pneumatic fluid power – General rules relating to systems. ISO 4413: Hydraulic fluid power – General rules relating to systems.

IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety. etc.

Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.²⁾ Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogueue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

▲ Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country.

Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

▲ Safety Instructions

SMC Corporation (Europe)

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