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!

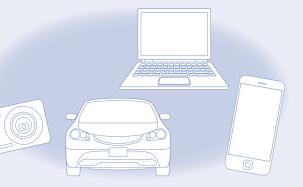
Ne

57 models have been newly added. (For details, refer to the "INDEX" pages.)

Compatible with the various environments of each manufacturing process



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



Series Compatible with Secondary Batteries 25A- Series

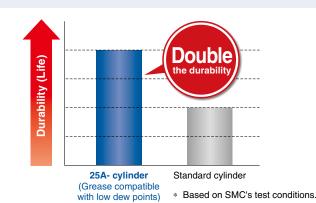


Improved performance in environments with low dew points

Uses grease compatible with low dew points

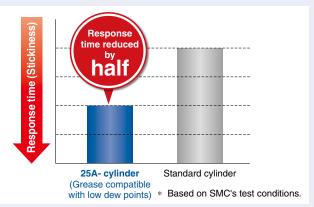
Double the durability

Durability comparison (Air cylinder)



Response time reduced by half

Comparison of cylinder response times after being pressurized and stored



Material Restrictions

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

- Metal materials whose main component is either copper or zinc are not used.
 - * Some of the aluminum alloy and aluminum 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 are not used. * 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.



1

Restrictions

Material Copper (Cu) Zinc (Zn)

Surface treatment

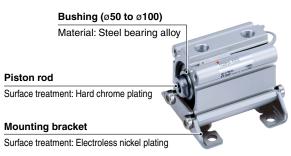
Electrolytic nickel plating with a copper layer
 Zinc plating

(Electroless nickel plating is used.)



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

Compact Cylinder 25A-CQ2 Series



The auto switch magnet contains copper and/or zinc. (ø12)

Air Slide Table 25A-MXQ Series



Surface treatment: Hard chrome plating

Piston

Material: Stainless steel Aluminum alloy

Bolts

Surface treatment: Electroless nickel plating



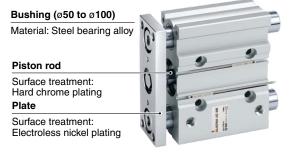


Surface treatment: Electroless nickel plating

* The auto switch magnet contains copper and/or zinc. (ø6, ø10, ø15)

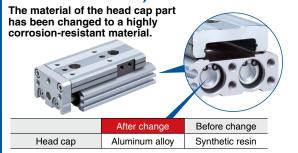
Cylinder 25A-CA2 Series Cushion valve Material: Steel bearing alloy Tie-rod Material: Stainless steel Mounting bracket Surface treatment: Electroless nickel plating

Compact Guide Cylinder 25A-MGPM Series



* The auto switch magnet contains copper and/or zinc. (ø12)

Corrosion-resistant Air Slide Table (Made to Order: 25A-MXQD-X771, 25A-MXSD-X1949)





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



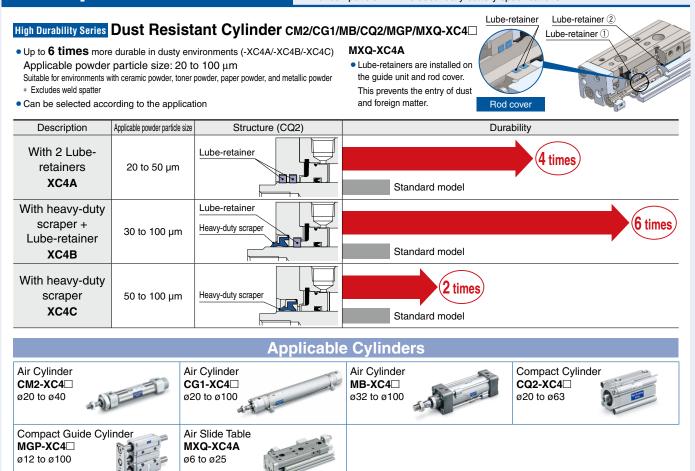
Series Compatible with Secondary Batteries



SMC

Dustproof Products

* Not compatible with the secondary battery specifications



Explosion-proof Products

* Not compatible with the secondary battery specifications

Explosion-proof Solenoid Valves

For Japan (TIIS certification)

- Intrinsically Safe Explosion-proof System 5-Port Solenoid Valve
- · 51-SY5000/7000/9000 Series

Ex ia IIB T4

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

d2G4, Ex d IIB T4

For China (CCC certification)

Intrinsically Safe Explosion-proof 5-Port Solenoid Valve

· 52-SY5000/7000/9000-X140 Series

Ex ia IIC T4 to T6 Gb

• Explosion-proof (Flameproof) 3/5-Port Solenoid Valve

· 50-VFE/VPE-X140 Series Ex d IIC T5/T6 Gb Ex tD A21 IP6X T85°C/T100°C

For Taiwan (TS certification)

 Explosion-proof (Flameproof) 3/5-Port Solenoid Valve · 50-VEE/VPE-X170 Series

Ex db IIC T5/T6 Gb Ex tb IIIC T100°C/T85°C Db

For Europe (CE marking, ATEX directive)

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

(Ex)		Gb Ta–10°C to +50°C Gb Ta–10°C to +45°C
[Certifica	tion no.: DEKRA 11ATE	EX0273 X]

• Explosion-proof (Flameproof) 3/5-Port Solenoid Valve

· 50-VFE/VPE-X60 Series

0 4



II 2G Ex db IIC T5 Gb Ta:-10°C TO +50°C II 2G Ex db IIC T6 Gb Ta:-10°C TO +40°C II 2D Ex tb IIIC T100°C Db Ta:-10°C TO +50°C II 2D Ex tb IIIC T85°C Db Ta:-10°C TO +40°C [Certification no.: KEMA 09ATEX0024X]

For Korea (KOSHA certification)

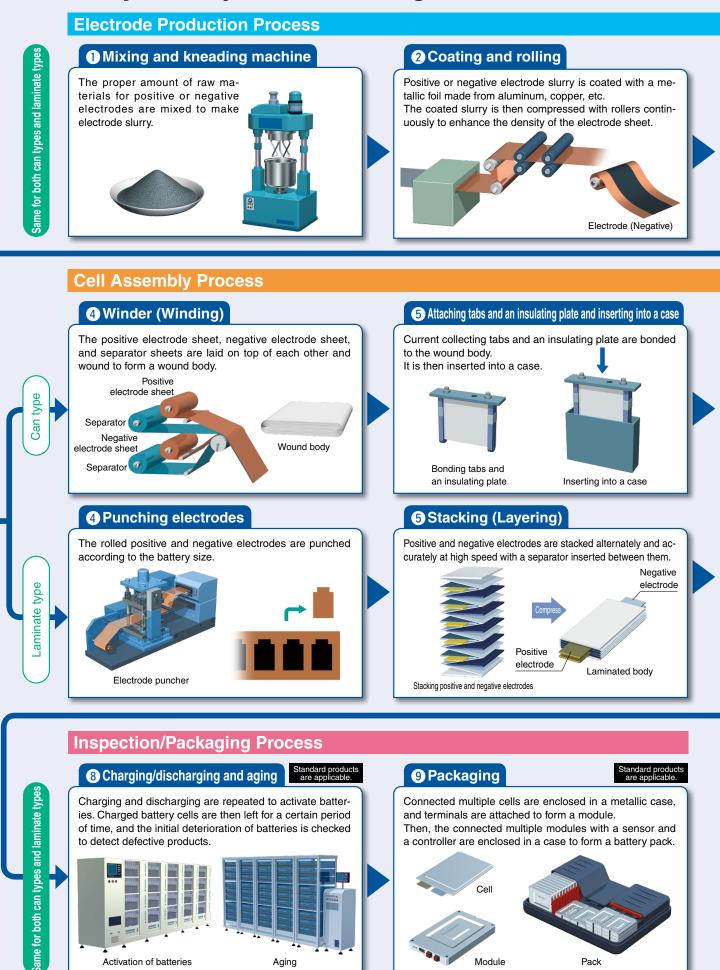
- Explosion-proof (Flameproof) 3/5-Port Solenoid Valve
- · 50-VFE/VPE-X100 Series



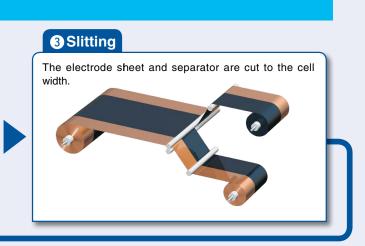
For North America (UL 913/CSA C22.2 No. 157)

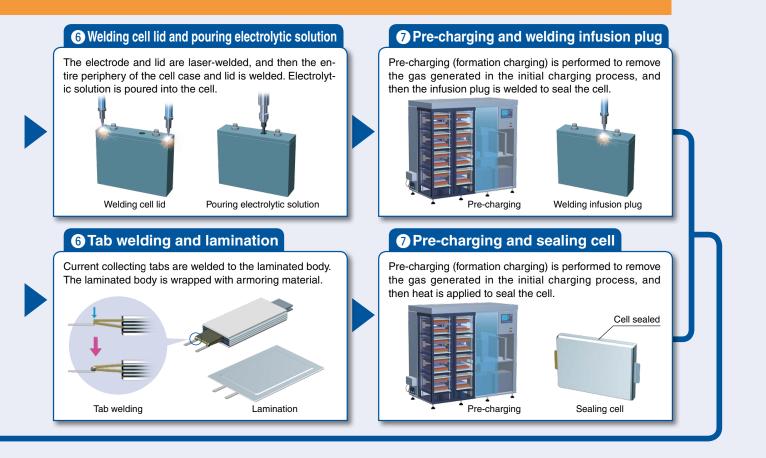
- Intrinsically Safe Explosion-proof
- · Pilot Operated 5-Port Solenoid Valve: 53-SY5000/7000/9000 Series Electrical Entry TT Electrical Entry L and LL Hazardous Location Hazardous Location Class I, II, III Class I Division 1 Division 1 Groups A, B, C, D Groups A, B, C, D, E, F, G

Secondary Battery Manufacturing Process



SMC









25A- Series Applicable Products

	Description	Series	Page
	Air Management System	25A-AMS/20/30/40/60	14-1
	5-Port Solenoid Valve	25A-JSY1000/3000 (Plug-in connector connecting base)	15
	New	25A-JSY1000/3000 (Non plug-in metal base)	29
S	New	25A-SY5000/7000 (Plug-in connector connecting base)	33
		25A-SY5000/7000 (Single unit, Individual wiring)	63
	- 0 (6)8800	25A-VQ2000/4000 (Single unit, Plug-in unit)	73
	·	25A-SQ2000 (Plug-in type, Plug lead type)	87
		25A-VQZ1000 (Single unit, Plug lead)	91
Directional Control Valves	Separate Type Double Check Block	25A-VQ1000/2000-FPG	95
ntro	3-Port Solenoid Valve	25A-VP342/542/742 (Body ported)	96
Col		25A-VP344/544/744 (Base mounted)	97
nal		25A-VP500/700-X536, X538, X555	98
ction	et an	25A-VT317	99
irea	63	25A-VG342	100
	5-Port Air Operated Valve	25A-SYA5000/7000	101
	3-Port Air Operated Valve	25A-SYJA500/700	102
	Finger Valve	25A-VHK□A	104
	Conforming to OSHA	25A-VHS (W)-D (Single action, Double action)	105
	Standard Pressure Relief 3-Port Valve with Locking	25A-VHS (Single action)	106
	Holes	25A-VHS□510 (Double action)	107
	Air Cylinder	25A-CJP2 (ø4 to ø16)	108
	413)	25A-CJ2 (ø10/ø16)	109
	New	25A-CJ2K (ø10/ø16)	110
	and the second s	25A-CBJ2 (End lock) (Ø16)	111
S	(New	25A-CM2 (Ø20 to Ø40)	112
Air Cylinders		25A-CG1 (ø20 to ø100)	113
Cyli	66	25A-CBG1 (End lock) (Ø20 to Ø63)	114
Air (A A A	25A-MB (ø32 to ø100)	115
		25A-CA2 (ø40 to ø100)	116
		25A-CS2 (Ø125 to Ø160)	117
	Lock Cylinder	25A-MWB (ø32 to ø100)	118
	New New	25A-MWB-UT (Ø32 to Ø100)	119
	1 New	25A-CNS (Ø125 to Ø160)	119-1
Compact Air Cylinders	Mini Free Mount Cylinder	25A-CUJ (ø6 to ø20)	120
omp vlind	Free Mount Cylinder	25A-CU (Ø10 to Ø32)	122
00	3. Q. a.	25A-CUK (Non-rotating rod) (Ø10 to Ø32)	123
_			



	Description	Carico	Dama
	Description	Series	Page
	Compact Cylinder	25A-CQS (Ø12 to Ø25)	124
		25A-CQSW (Double rod) (Ø12 to Ø25)	125
Compact Air Cylinders		25A-CQS (Anti-lateral load) (Ø12 to Ø25)	126
ylino		25A-CQ2 (ø12 to ø100)	127
vir C		25A-CQ2W (Double rod) (Ø12 to Ø100)	128
act ⊿		25A-CQ2 (Large bore size) (Ø125 to Ø200)	129
mpe		25A-CQ2 (Long stroke) (ø32 to ø100)	130
ပိ	Q:	25A-CQ2⊡S (Anti-lateral load) (ø32 to ø100)	131
		25A-CBQ2 (End lock) (ø20 to ø100)	132
	Plate Cylinder	25A-MU (ø25 to ø63)	133
	Mechanically Jointed Rodless Cylinder	25A-MY1B (ø16 to ø63)	134
iders	New	25A-MY1M (Slide bearing guide) (Ø16 to Ø63)	135
	and the second se	25A-MY1C (Cam follower guide) (ø16 to ø63)	136
		25A-MY1H (Linear guide) (Ø16 to Ø40)	137
Cylir	New	25A-MY2C (Cam follower guide) (ø16 to ø40)	138
Rodless Cylinders		25A-MY2H/HT (Linear guide) (ø16 to ø40)	139
		25A-MY3A/B (ø16 to ø63)	140
		25A-MY3M (Slide bearing guide) (Ø16 to Ø63)	141
	Magnetically Coupled Rodless Cylinder	25A-CY3B (ø6 to ø63)	142
	New	25A-CY3R (Direct mount type) (ø6 to ø63)	143
	Compact Slide	25A-MXH (ø6 to ø20)	144
	Air Slide Table	25A-MXS (ø6 to ø25)	145
		25A-MXQ⊡A (Double-ported type) (ø6 to ø25)	146
lers	01-2 -	25A-MXQ⊡B (Low thrust with high rigidity type) (ø6 to ø20)	147
ylinc	- Alana	25A-MXQ□C (Single side-ported type) (ø8/ø12)	148
Table Cylinders		25A-MXQ□ (Height interchangeable type) (ø6 to ø25)	149
Tab		25A-MXQ (ø6 to ø25)	150
	New	25A-MXF (ø8 to ø20)	151
		25A-MXW (Ø8 to Ø25)	152
		25A-MXP (ø6 to ø16)	153
	Miniature Guide Rod Cylinder	25A-MGJ (ø6/ø10)	154
ပ	Compact Guide Cylinder	25A-MGP (Ø12 to Ø100)	155
Guide Cylinders		25A-MGP (With air cushion/Slide bearing/Ball bushing bearing) (Ø16 to Ø100)	156
	New	25A-MGPK (Ø12 to Ø50)	157
G	Guide Cylinder	25A-MGGL (Ball bushing bearing) (ø20 to ø50)	161
			8

	Description	Series	Page
de nders	Slide Unit	25A-CXWM (Slide bearing) (Ø10 to Ø32)	158
Guide Cylinde	Dual Rod Cylinder	25A-CXSJ (Slide bearing/Ball bushing bearing) (ø6 to ø32)	159
0 GC		25A-CXS (Slide bearing/Ball bushing bearing) (ø6 to ø32)	160
pper	Rotary Clamp Cylinder	25A-MK (Ø12 to Ø63)	162
Clamp/Stopper Cylinders	Stopper Cylinder	25A-RSQ (Fixed mounting height) (ø12 to ø50)	163
Clam Cylin	Heavy Duty Stopper Cylinder	25A-RSH (Ø20/Ø32)	164
ې بې	(ISO Standards) Air Cylinder	25A-C85 (Standard) (ISO Standard (6432)) (ø8 to ø25)	165
ISO Cylinders		25A-CP96 (Standard) ISO Standard (15552) (ø32 to ø125)	166
Cylii		25A-C96 (Standard) ISO Standard (15552) (ø32 to ø125)	167
SO	New	25A-C95 (Standard) ISO Standard (15552) (Ø160, Ø200)	168
<u> </u>	(ISO Standards) Compact Cylinder	25A-C55 (Standard) ISO Standard (21287) (Ø20 to Ø100)	169
S	Shock Absorber	25A-RJ (Soft type)	170
duct		25A-RJ (Short stroke type)	171
Pro		25A-RB (C)	172
Related Products	Floating Joint	25A-JS (Stainless steel type) (10 to 63)	173
Rela		25A-JA (80, 100)	173
		25A-JB (For compact cylinders) (12 to 100)	173
ß	Rotary Table	25A-MSUB (Vane type) (1 to 20)	174
ry Actuators	16	25A-MSQ (Rack & Pinion type) (10 to 50)	174
Actu		25A-MSQ (Rack & Pinion type) (10 to 200)	178
	and a	25A-MSQ-X251 (Rack & Pinion type, With vacuum port) (10 to 200)	178
Rota	3-Position Rotary Table	25A-MSZ (10 to 50)	180
	Parallel Type Air Gripper	25A-JMHZ2 (Compact type) (ø8 to ø20)	181
	New	25A-JMHZ2-X6900 (A, B) (With positioning pins on the lateral mounting surface) (ø8 to ø20)	181
	New	25A-JMHZ2-X7460 (Lateral auto switch mounting) (ø8 to ø20)	181
	and a street	25A-MHZ2 (ø10 to ø40)	182
		25A-MHZL2 (Long stroke) (Ø10 to Ø25)	183
လ		25A-MHZJ2 (With dust cover) (Ø10 to Ø25)	184
iadc	New	25A-MHZJ2-X6100 (With dust cover) (ø32/ø40)	184
Air Grippers	6	25A-MHZL2-X5955 (Long stroke, With dust cover) (Ø10 to Ø20)	184
Air		25A-MHF2 (Low profile type) (ø8 to ø20)	185
	New	25A-MHL2-Z (Wide type) (Ø10 to Ø40)	186
		25A-MHL2 (Wide type) (Ø10 to Ø40)	186
	T.	25A-MHS (3-finger, 4-finger) (Ø16 to Ø32)	187
		25A-MHSJ3 (3-finger, With dust cover) (ø16 to ø32)	188
		25A-MHY2 (180° Angular type, Cam type) (Ø10 to Ø25)	189
9	New	25A-MHW2 (180° Angular type, Rack & Pinion type) (ø20 to ø50)	190

	Description	Series	Page
	Vacuum Unit	25A-ZK2□A (Ejector system: Single unit)	191
	Compact Vacuum Unit		197
	New		200
<u>ц</u>		ZHODA (Body ported) (Only the models without connection threads)	206
Vacuum Equipment	and the second second	ZH BA (Box type) (Only the models without connection threads)	206
lipm	In-line Type Vacuum Ejector	ZU A (In-line type) (Only the models without connection threads)	207
Equ	In-line Air Filter	ZFC (With One-touch fittings)	*1
Ę	Vacuum Pad	ZP (Only pad units and pads with stainless steel adapters)	208
Icut			214
e>	Bernoulli Gripper		223
		(, 5,	224
	Vacuum Regulator		225
	Adsorption Plate	SP	*1
Air Preparation Equipment	Membrane Air Dryer	25A-IDG A (Single unit/Standard dew point -40°C/-60°C specifications)	227
uipr	Air Preparation Filter	25A-AFF-D (Line filter)/AM-D (Mist separator)/	229
Бq		AMD-D (Micro mist separator)	230
tion			230
arai	I and	25A-AFF (Main line filter)	231
rep	E.	25A-AM (Mist separator)	232
lir P		25A-AMD (Micro mist separator)	233
4		25A-AMH (Micro mist separator with pre-filter)	234
Air	Clean Air Filter	3 SFD100/110	235
ean / Iters		SFD200	235
Cle;		25A-AMP (Exhaust cleaner for clean room)	236
		SFE (Clean exhaust filter)	237
	Modular Type Air Combination	AC-D (Available through the Simple Specials System)	238
	Modular Type		239
	Air Filter		241
	(Micro) Mist Separator	· · · · ·	241
		25A-AF-A (Air filter)	240
	20 Eduar	25A-AFM-A (Mist separator)	242
نے		25A-AFD-A (Micro mist separator)	242
Modular F.R.L.	Modular Type		243
ar F	Regulator		243
Inpo	Filter Regulator (Micro) Mist Separator Regulator		245
M			245
	Ney Ney		247
			247
		25A-AR-B (Regulator)	244
		25A-AR□K-B (Regulator with backflow function)	244
	Read and a second se	25A-AW-B (Filter regulator)	246
		25A-AW□K-B (Filter regulator with backflow function)	246
		are not used as main components in the motel materials. Befor to the Web Catalog	-

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

	Description	Series	Page			
Ħ	Soft Start-up Valve	25A-AV-A (Soft start-up valve)	247-1			
mer	Regulator	25A-IR□-A (Precision regulator)				
quip	in the	25A-ITV (Electro-pneumatic regulator)	249			
O E	Level 2	25A-ITV209 (Electronic Vacuum Regulator)	249-1			
ontro	Booster Regulator	25A-VBA*2	250			
e Ö		25A-VBAT (Air tank)	251			
Pressure Control Equipment	Pressure Gauge	G43-X300 (Internal/external parts copper-free type)	252			
Pr		G46-SRB (External metal parts and wetted parts stainless steel type)*3	253			
	Speed Controller	AS-FG (Stainless steel type)	254			
		AS-FSG (With indicator stainless steel type)	255			
S	0,=1	AS-FPG (Clean/Stainless steel type)	256			
Flow Control Equipment/Fittings	Quick Exhaust Valve	25A-AQ240F/340F	257			
nent/F	Check Valve	25A-AKH (With One-touch fittings)	258			
uipn	One-touch Fittings	KQ2-G (Stainless steel)	259			
П Еq		KQ2 (Only the type without a connection thread)	*1			
ntro		KPG (Clean One-touch fittings)	260			
Ö	<u>_</u>	KQG2 (Stainless steel 316 One-touch fittings)	261			
Nol-	Stainless Steel Fittings 🛛 🙀 💭 🕋 👩	KFG2 (Stainless steel 316 insert fittings)	262			
		MS (Miniature fittings/Stainless steel 316)	263			
	Rectangular Multi-connector	25A-KDM (Rectangular multi-connector)	264			
	Coupler	KKA (S Couplers stainless steel type)	265			
	Tubing	T (Nylon)	267			
		TS (Soft nylon)	267			
	\bigcirc	TU (Polyurethane)	267			
jĝ		TAD (Antistatic)	267			
Tubing		TL (Fluoropolymer)	268			
-		TH (FEP)	268			
		TD (Soft fluoropolymer)	268			
		TPS (Soft polyolefin)	268			
	9	IDK (Moisture control tube)	268			
<u>د</u> رہ	Pressure Switch	25A-ZSE20(F)/ISE20 (3-screen display high-precision)	269			
Detection Switches		25A-ZSE20A(F)/ISE20A (3-screen display high-precision)	270			
Dete Swite		25A-ZSE20B(F)/ISE20B (3-screen display high-precision)	271			
		25A-ZSE20C(F)/ISE20C(H) (3-screen display high-precision, for general fluids)	272			
	developed where the structure ded as a second structure (2) and size (2).	re not used as main components in the metal materials. Befer to the Web Catalog	for a describe			

*1 Standard products: For the standard model, copper (Cu) and zinc (Zn) are not used as main components in the metal materials. Refer to the Web Catalog for details.
 *2 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.
 *3 Aside from the external parts and wetted parts, copper (Cu) and zinc (Zn) are used as main components in the metal materials.



	Description	Series	Page
	Flow Switch	25A-PF2M7 (For air, Integrated display type)	273
	New	25A-PF2M7-L (IO-Link)	274
	OP Each	25A-PFM7 (For air, Integrated display type)	275
S	THE REAL PROPERTY OF THE PROPE	25A-PFM5 (For air, Remote type)	276
che	M F T	25A-PFM3 (For air, Flow monitor)	277
Detection Switches		25A-PFMB7 (For air, Integrated display type)	278
on S	New	25A-PF3A7□H	279
ectic	New	25A-PF3A7□H-L (IO-Link)	280
Dete	New	25A-PF3W7-Z (For water, Integrated display type)	281
	New	25A-PF3W5-Z (For water, Remote type)	282
	Q	25A-PF3W (For water, Integrated display/Remote type)	283
		25A-PF3W-U (PVC piping, Integrated display/Remote type)	284
		25A-PF3W30 (For water, Flow monitor)	285
	Direct Operated 2-Port	25A-JSX (Stainless steel body: Water/Air/Oil)	286
ient	Solenoid Valve	25A-JSX (Aluminum body: Air)	287
ipm	New	25A-JSX (High flow/ Power saving type: Stainless steel body: Water/Air/Oil)	288
Equ		25A-VX2 (For air)	289
		25A-VX2 (For water/medium vacuum)	290
Fluid Control Equipment	Pilot Operated 2-Port	25A-VXD (For air)	291
id O	Solenoid Valve	25A-VXD (For water)	292
Flu	Zero Differential Pressure Type	25A-VXZ (For air)	293
	Pilot Operated 2-Port Solenoid Valve	25A-VXZ (For water)	294
ss Gas ment	Diaphragm Valve for Ultra High Purity	AZ3542 & 4542□25A (Air operated type)	295
Process (Equipmer	Diaphragm Valves for General Applications	AK3542 & 4542□25A (Air operated type)	297
	Electric Actuator	25A-LEKFS (High rigidity and High precision slider type/Battery-less absolute: Applicable to the JXCD)	298-3
	New New	25A-LEKFSIG (High performance/High rigidity and High precision slider type/Battery-less absolute: Applicable to the JXCI)	298-5
	New	25A-LEKFS (High rigidity and High precision slider type/AC servo motor: Applicable to the LECS	298-7
ors	New	25A-LEKFS (High rigidity and High precision slider type/AC servo motor: Applicable to the LECY	298-8
uato	New	25A-LEKFS (High rigidity and High precision slider type/Motorless type)	298-9
Electric Actuators	New	25A-LEFS (Slider type/Battery-less absolute: Applicable to the JXC)	298-10
tric	New	25A-LEFS (Slider type/Incremental (Step motor/Servo motor): Applicable to the JXC□/LEC□)	299
Flec		25A-LEFS G (High performance/Slider type/Battery-less absolute (Step motor): Applicable to the JXC)	302-1
	New	25A-LEFS F (High performance/Slider type/Incremental (Step motor): Applicable to the JXC)	302-3
		25A-LEFS (Slider type/AC servo motor: Applicable to the LECS_)	303
		25A-LEFS (Slider type/AC servo motor: Applicable to the LECY_)	304
	New	25A-LEFS (Slider type/Motorless type)	304-1
254-	series grease pack ^{*1} applicable Grease pa	ck part no. Quantity	

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.

SMC

	Description	Series	
	Electric Actuator	25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECS.)	305
		25A-LEJS (High rigidity slider type/AC servo motor: Applicable to the LECY)	306
	New	25A-LEJS (High rigidity slider type/Motorless type)	306-1
	New	25A-LEY (Rod type/Battery-less absolute: Applicable to the JXC)	306-2
	New	25A-LEY G (High performance/Rod type/Battery-less absolute (Step motor): Applicable to the JXC)	306-4
Electric Actuators	New	25A-LEY F (High performance/Rod type/Incremental (Step motor): Applicable to the JXC)	306-6
tual		25A-LEY (Rod type/Incremental (Step motor/Servo motor): Applicable to the JXC□/LEC□)	307
Ac	*	25A-LEY (Rod type/AC servo motor: Applicable to the LECS	311
ctric		25A-LEY (Rod type/AC servo motor: Applicable to the LECY)	313
Ше	New	25A-LEY (Rod type/Motorless type)	314-1
	New	25A-LEYG (Guide rod type/Incremental (Step motor/Servo motor): Applicable to the JXC□/LEC□)	314-2
	New	25A-LEYG (Guide rod type/Battery-less absolute: Applicable to the JXC□)	314-4
	New	25A-LEYG (Guide rod type/AC servo motor: Applicable to the LECS)	314-6
	New	25A-LEYG (Guide rod type/AC servo motor: Applicable to the LECY	314-8
	New	25A-LEYG (Guide rod type/Motorless type)	314-10
	Solid State Auto Switch	D-M9□□-900	
		D-F8⊡-900	-
Se		D-Y	315
tche		D-G59/G5P/K59-900	and onward
Swi		D-F79/F7P/J79-900	
Auto Switches		D-F7⊡V-900	
Ā	Reed Auto Switch	D-A90L/A93L-900	315
	-	D-Z80L-900	and
		D-E73A/E76A/E80A	onward

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

	Description	Series
Directional Control Valves	3-Port Solenoid Valve/Residual Pressure Release Valve with Detection of Main Valve Position (Safety Standard ISO 13849-1 Certified)	VG342-X87
	Air Cylinder With End Lock	CBM2
		МВВ
Air Cylinders	Compact Cylinder with Lock	CLQ
Air Cy	Stopper Cylinder	RSQ
	Heavy Duty Stopper Cylinder	RS2H
Vacuum Equipment	Non-contact Gripper	XT661
t F	Aluminum	XLA (Normally closed)
High Vacuum Equipment	High Vacuum Angle Valve	
High		XLC (Double acting)
13		⊘SMC

D-E73A/E76A/E80A

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

1 Antistatic Equipment Vacuum Static electricity Antistatic performance achieved through conductive measures for a reduction in static-related trouble. Actuators · Antistatic Air Cylinder (Made to Order) CM2-X1051 Series Vacuum Equipment · Vacuum Pad ······ ZP Series **Fittings and Tubing** · Antistatic One-touch Fittings KA Series KA Series · Miniature Fittings/Stainless Steel 316 ···· MS Series (Some types only) Antistatic Tubing TA Series **Flow Control Equipment** TA Series · Antistatic Speed Controller (Made to Order) AS-X260 Series 2 Static Neutralization Equipment Static electricity lons generated by corona discharge neutralize static electricity. · Ionizer/Bar Type // IZS4 Series IZS4 Serie IZF10 Series · Ionizer IZS31 Series Nozzle Type Ionizer
 IZN10E Series · Fan Type Ionizer IZF Series IZN10E Se Measurement Equipment Measures the electrostatic potential. IZT4 Series · Electrostatic Sensor IZD10/IZE11 Series IZD/IZE Series · Handheld Electrostatic Meter IZH10 Series **Temperature Control Equipment** · Thermo-chiller/Standard Type HRS Series HRS Series 4) Electric Actuators · Electric Actuator/Slider Type LEFB Series · Electric Actuator/Low Profile Slider Type ··· LEM Series · Electric Actuator/Guide Rod Slider LEL Series · Electric Slide Table LES Series LEL Series LES Series LEM Series · Electric Actuator/Miniature Rod Type /Miniature Slide Table Type LEPY/LEPS Series · Electric Rotary Table LER Series · Electric Gripper LEH Series · Motorless Type Electric Actuator LE Series LER Series LEHZ Series LEPS/LEPY Series

5 High Purity Chemical Liquid Valves

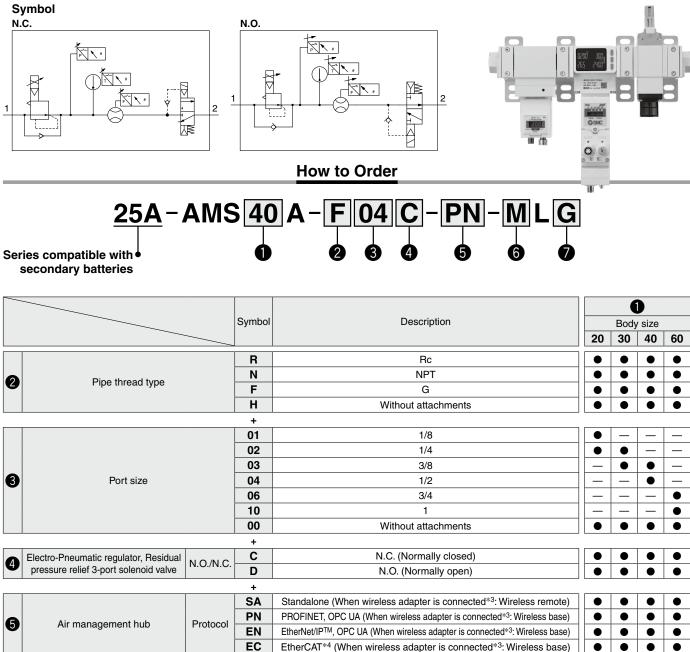
 High Purity Chemical Liquid Valve/Air Operated Type LVC/LVA/LVH Series





14

Air Management System C E CA Electro-Pneumatic Regulator Type RoHS 25A-AMS20A/30A/40A/60A Series



			+				
6	Electro-Pneumatic regulator,	Unit	K *1	EXA1/ITV: Units selection function	,	•	
•	Air management hub	Unit	M *2	EXA1/ITV: SI units only	<u>ا</u> ا	•	
			+				
6	Residual pressure relief	Manual	G	Non-locking push type	,	•	
	3-port solenoid valve	override	E	Push-turn locking type (Manual)	,	•	

*1 Applies to overseas destinations only

*2 Fixed units Instantaneous flow: L/min

- Accumulated flow : L
- Pressure : kPa, MPa Temperature : °C

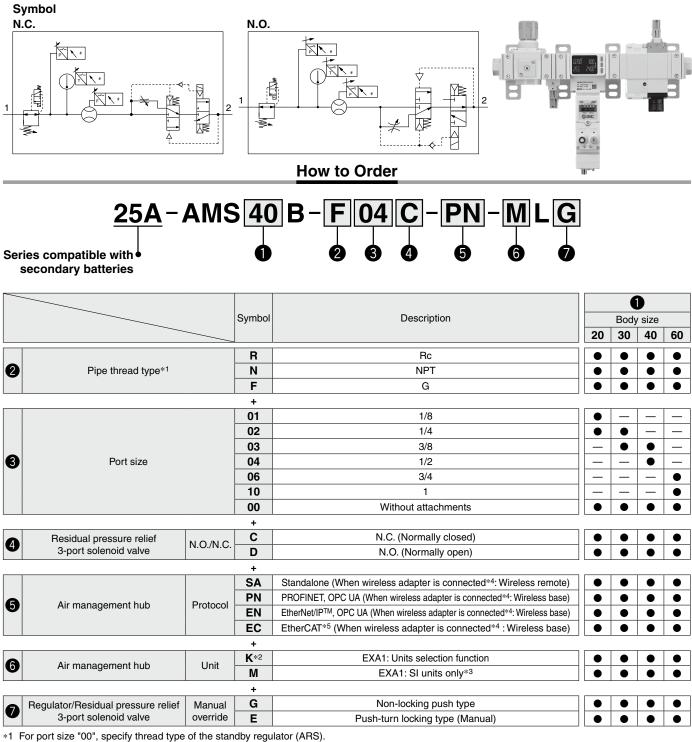
*3 The wireless adapter is sold separately. (Refer to page 14-8.)

*4 EtherCAT is not compatible with OPC UA. In addition, the PLC (Programmable Logic Controller)/controller must support EoE (Ethernet over EtherCAT).

* The connection cable for the standby electro-pneumatic regulator/residual pressure relief valve is connected.



Air Management System C C CA Regulator Type RoHS 25A-AMS20B/30B/40B/60B Series



*2 Applies to overseas destinations only

*3 Fixed units Instantaneous flow: L/min

Accumulated flow : L

Pressure : kPa, MPa

Temperature : °C

*4 The wireless adapter is sold separately. (Refer to page 14-8.)

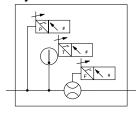
*5 EtherCAT is not compatible with OPC UA. In addition, the PLC (Programmable Logic Controller)/controller must support EoE (Ethernet over EtherCAT).

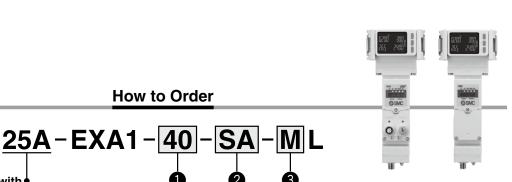
* The connection cable for the standby electro-pneumatic regulator/residual pressure relief valve is connected.



Air Management Hub **25A-EXA1 Series**

Symbol





Series compatible with secondary batteries

	Symbol Descrip		Description		Body	size	
			Description	20 For 25A-AMS20	30 For 25A-AMS30	40 For 25A-AMS40	60 For 25A-AMS60
		SA	Standalone (When wireless adapter is connected*3: Wireless remote)		•	•	
6	Durta al	PN	PROFINET, OPC UA (When wireless adapter is connected*3: Wireless base)			•	
2	2 Protocol	EN	EtherNet/IP™, OPC UA (When wireless adapter is connected*3: Wireless base)	•	•	•	•
		EC	EtherCAT*4 (When wireless adapter is connected*3 : Wireless base)	•	•	•	•
		+					
0	Lipit	K *1	Units selection function	•	•	•	
0	Unit	M*2	SI units only	•		٠	
0	Unit		SI units only	•	•	٠	•

*1 Applies to overseas destinations only

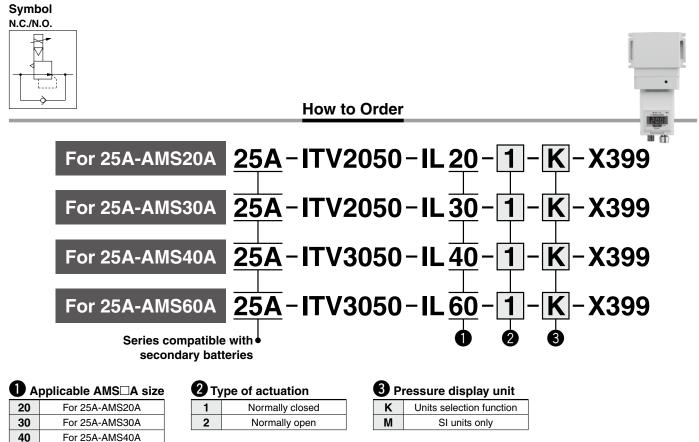
*2 Fixed units Instantaneous flow: L/min, Accumulated flow: L, Pressure: kPa/MPa, Temperature: °C

*3 The wireless adapter is sold separately. (Refer to page 14-8.)

*4 EtherCAT is not compatible with OPC UA. In addition, the PLC (Programmable Logic Controller)/controller must support EoE (Ethernet over EtherCAT).



C $\in \mathbb{C}^{K} \mathbb{C}^{N}$ RoHS Standby Electro-Pneumatic Regulator 25A-ITV2050 to 3050-X399



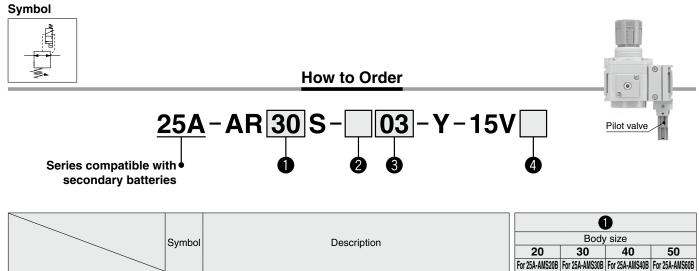
60

For 25A-AMS60A





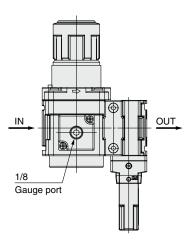
Standby Regulator **25A-AR20S to 50S Series**



		~					
2	Pipe thread type		Rc		•		•
			NPT		•		•
			G		•	•	•
	Port size 02 (Screws are IN side only.) 04 10		1/4		—	-	—
6			3/8	—		—	_
8			1/2	—	—		—
			1	—	_	—	
	Pilot valve Manu	al Nil	Non-locking push type				
4	overrie	le E	Push-turn locking type (Manual)		•		

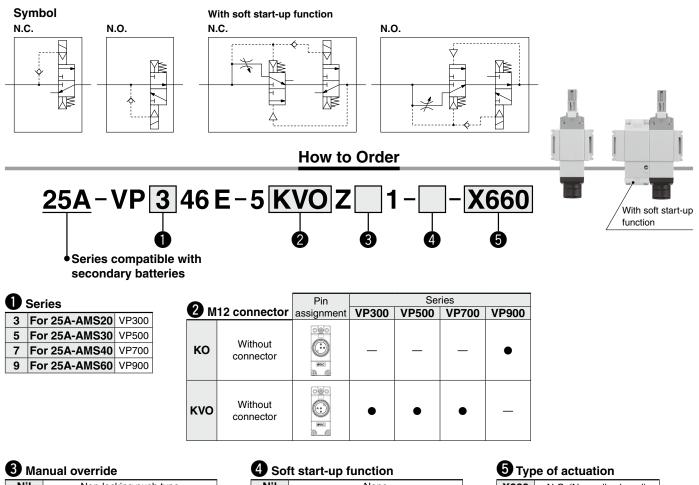
Gauge port view

* Same for all sizes





С Є ҼҞ с Ѡ с Residual Pressure Relief 3-Port Solenoid Valve 25A-VP346E/546E/746E/946E-X660/X661



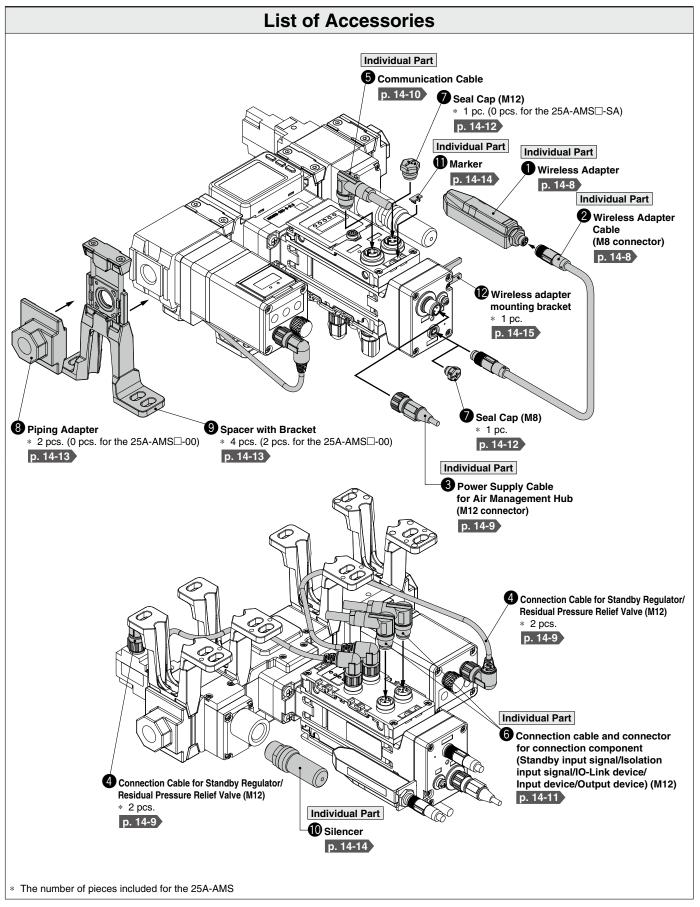
Nil	Non-locking push type
E	Push-turn locking type (Manual)

Nil	None
S	With soft start-up function

X660	N.C. (Normally closed)
X661	N.O. (Normally open)



25A-AMS20/30/40/60 Series Accessories



SMC

Accessories 25A-AMS20/30/40/60 Series

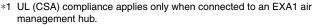
Wireless Adapter

Wireless adapter for air management hub EXA1 A wireless adapter needs to be connected to both the wireless base and the wireless remote.

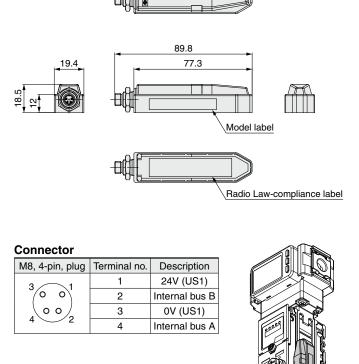
EXW1-A11N

Specifications

	Item	Specifications			
	Protocol	SMC original protocol (SMC encryption)			
	Radio wave type (spread)	Frequency Hopping Spread Spectrum (FHSS			
	Frequency	2.4 GHz (2403 to 2481 MHz)			
	Number of frequency channels	79 ch			
Wireless	Channel bandwidth	1.0 MHz			
communication	Communication speed	1 Mbps			
Communication	Communication distance	Approx. 100 m (Depending on the operating environment)			
	Radio Law certificate	Refer to the SMC website for the latest information regarding in which countries the product is certified.			
Electrical	Power supply voltage range	24 VDC +10%			
Liectifical	Current consumption	50 mA or less			
	Enclosure	IP67			
	Ambient temperature (Operating temperature)	0 to 50°C			
	Ambient temperature (Storage temperature)	-10 to 60°C			
	Ambient humidity	35 to 85%RH (No condensation)			
	Withstand voltage	500 VAC, 1 min			
General	Insulation resistance	500 VDC, 10 MΩ or more			
	Vibration resistance	Conforms to EN 61131-2 5 <= f < 8.4 Hz 3.5 mm $8.4 <= f < 150 Hz 9.8 m/s^2$			
	Impact resistance	Conforms to EN 61131-2 147 m/s ² , 11 ms			
	Standards	CE/UKCA marking, UL (CSA)*1			
	Weight	40 g			



*2 Order the wireless adapter cable separately.

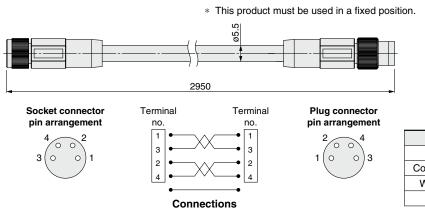


Wireless adapter * Included parts: Fixing bracket

 Fixing bracket part no.: 25A-EXA1-AB1
 * Only the screws are stainless steel.

Wireless Adapter Cable [M8 connector, For EXW1-A11N, With connectors on both sides (socket/plug)]

EXW1-AC030-SSPS Straight 2950 mm



Item	Specifications
Cable O.D.	ø5.5 mm
Conductor nominal cross section	AWG24
Wire O.D. (Including insulator)	1.12 mm
Min. bending radius	22 mm

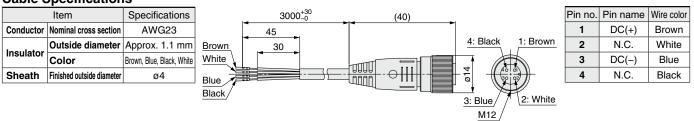
25A-AMS20/30/40/60 Series

③ Power Supply Cable (M12 connector, For EXA1)

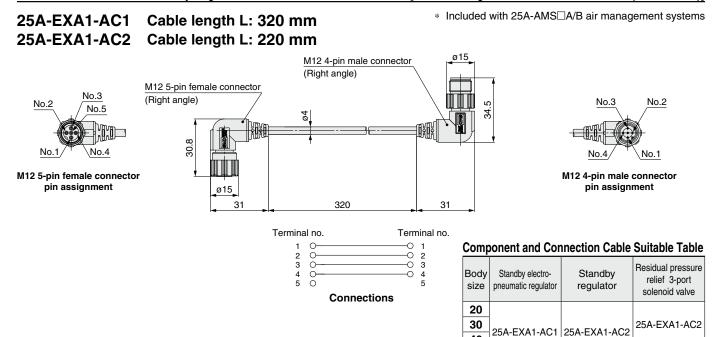
* The shape of the M12 connector is A-coded (Normal key).

90-ZS-37-A-X258 Lead wire with M12 connector

Cable Specifications



Connection Cable for Standby Regulator/Residual Pressure Relief Valve [With M12 angle connectors on both sides (male/female)]

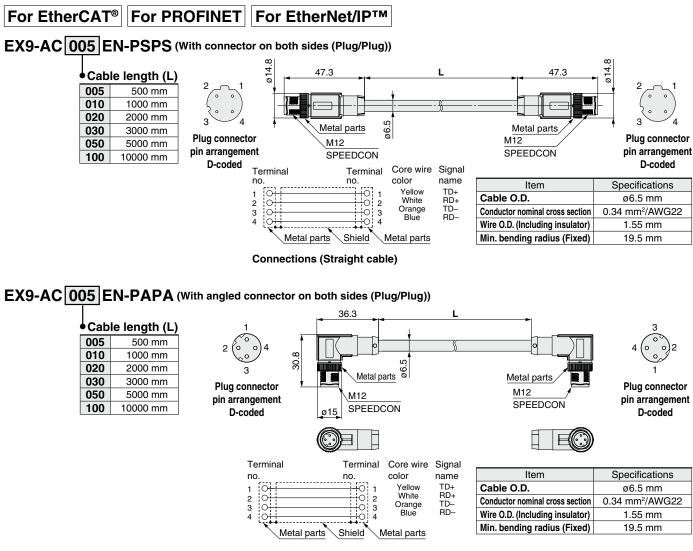


40 60

25A-EXA1-AC1

Accessories 25A-AMS20/30/40/60 Series

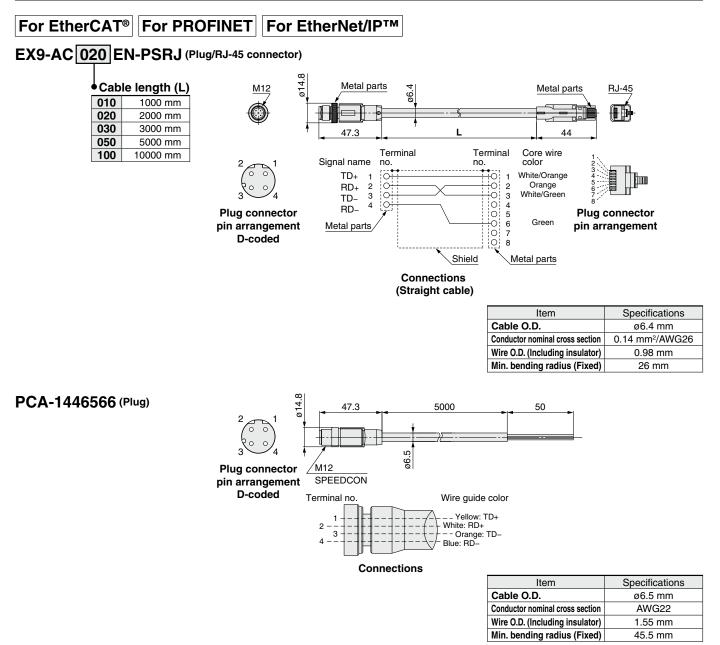
Communication Cable



Connections (Straight cable)

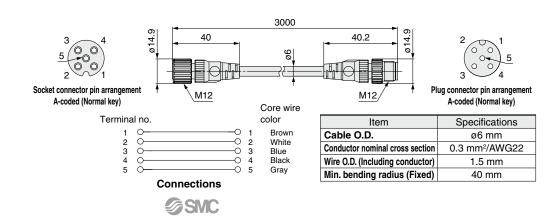
25A-AMS20/30/40/60 Series

Communication Cable



6 Connection cable and connector for connection component (Standby input signal/Isolation input signal/IO-Link device/Input device/Output device) (M12)

IO-Link Device Cable 90-ZS-37-A-X547



Accessories 25A-AMS20/30/40/60 Series

Seal Cap (10 pcs.)

Be sure to mount a seal cap on any unused I/O connectors. Otherwise, the specified enclosure cannot be maintained.





25A-AMS20/30/40/60 Series

Piping Adapter

A piping adapter allows for the installation/removal of the component without removing the piping and thus makes maintenance easier.

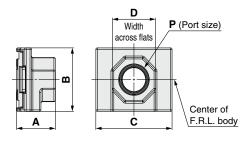
	E 20	01]-D	
Appli	cable size			
200	25A-AMS20] (Thre	ad ty
300	25A-AMS30			
400	25A-AMS40		Nil	
600	25A-AMS60		F	
		ĺ	Ν	1
	200 300 400	Applicable size 200 25A-AMS20 300 25A-AMS30 400 25A-AMS40	300 25A-AMS30 400 25A-AMS40	Applicable size 200 25A-AMS20 300 25A-AMS30 400 25A-AMS40 600 25A-AMS60

Thread type								
Symbol	Thread type							
Nil	Rc							
F	G							
Ν	NPT							

Port size											
Symbol	Port size	25A-AMS20	25A-AMS30	25A-AMS40	25A-AMS60						
01	1/8										
02	1/4	•	•								
03	3/8		•								
04	1/2			•							
06	3/4				•						
10	1				•						

8

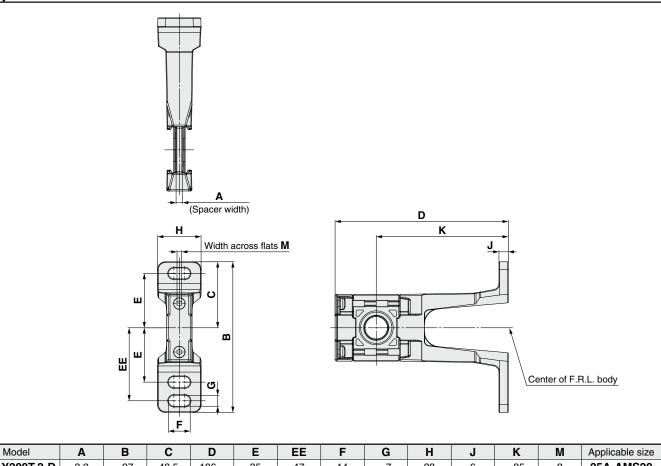
9



Р	Α	В	С	D
1/8	24	35	42	24
1/4	24	35	42	24
1/4	27	43	53	30
3/8	27	43	53	30
3/8	30	51	71	36
1/2	30	51	71	36
3/4	39	64	90	46
1	39	64	90	46
	1/8 1/4 1/4 3/8 3/8 1/2	1/8 24 1/4 24 1/4 27 3/8 27 3/8 30 1/2 30 3/4 39	1/8 24 35 1/8 24 35 1/4 24 35 1/4 27 43 3/8 27 43 3/8 30 51 1/2 30 51 3/4 39 64	1/8 24 35 42 1/4 24 35 42 1/4 27 43 53 3/8 27 43 53 3/8 30 51 71 1/2 30 51 71 3/4 39 64 90

* A spacer with bracket is required for modular unit.

Spacer with Bracket

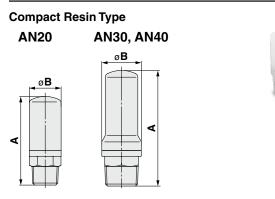


woder	A	D D	L C	ע ן	_		Г	G	п	J	n n	IVI	Applicable size
25A-Y200T-2-D	3.2	97	42.5	106	35	47	14	7	28	6	85	2	25A-AMS20
25A-Y300T-2-D	4.2	97	42.5	111.5	35	47	14	7	28	6	85	3	25A-AMS30
25A-Y400T-1-D	5.2	115	50	120.5	40	55	18	9	32	7	85	3	25A-AMS40
25A-Y600T-2-D	6.2	140	60	145	50	70	20	11	37	8	100	4	25A-AMS60
4.4.4.0		•		•	•							·	·

SMC

Accessories 25A-AMS20/30/40/60 Series

Silencer

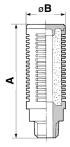


Dimensions

Dimensions [mn									
Model	Port size R	A	В						
AN20-02	1/4	45	16.5						
AN30-03	3/8	58.5	20						
AN40-04	1/2	68	24						

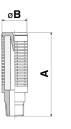
High Noise Reduction Type

AN202 to 402





High Noise Reduction Type ANA1-06



Dimensions

Dimensions [m						
Model	Port size R	A	В			
AN202-02	1/4	64	22			
AN302-03	3/8	84	28			
AN402-04	1/2	95	34			

Dimensions [m				
Model	Port size R	Α	В	
ANA1-06	3/4	111	46	

Compatibility Chart for Residual Pressure Relief Valve and Silencers

	Silencer	Compact resin type		High noise reduction type				
	Model	AN20-02	AN30-03	AN40-04	AN202-02	AN302-03	AN402-04	ANA1-06
	Port size	1/4	3/8	1/2	1/4	3/8	1/2	3/4
25A-VP346E	X660 (N.C.)	0	—	—	0	—	—	—
23A-VP340E	X661 (N.O.)	0	—	—	—	—	—	—
25A-VP546E	X660 (N.C.)	—	0	—	—	0	—	—
23A-VP340E	X661 (N.O.)	—	0	—	—	—	—	—
25A-VP746E	X660 (N.C.)	—	—	0	—	—	0	—
25A-VF/40E	X661 (N.O.)	—	0	—	—	—	—	—
	X660 (N.C.)	—	—	—	_	_	—	O*1
25A-VP946E	X661 (N.O.)	—	—	—	—	—	—	0

*1 Combined with silencer bushing: 25A-AMS-AB1

Marker (1 sheet, 88 pcs.)

The signal name of I/O device and each unit address can be entered and mounted on each unit.



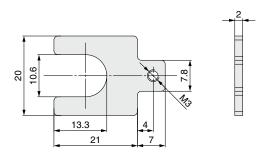
SMC

25A-AMS20/30/40/60 Series

Wireless Adapter Mounting Bracket

1 round head combination screw (M3 x 10) is included.

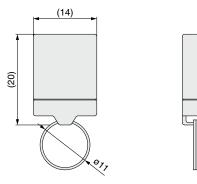
25A-EXA1-AB1



IO-Link Device Tool License Key

USB dongle EX9-ZSW-LDT1





* The IO-Link Device Tool V5-PE (V5 or later only) manufactured by TMG Technologie und Engineering GmbH (hereinafter referred to as TMG) is required for setting IO-Link devices. The IO-Link Device Tool can be downloaded for free from TMG's website. However, to use it for more than 30 days, a license key for the IO-Link Device Tool is required.

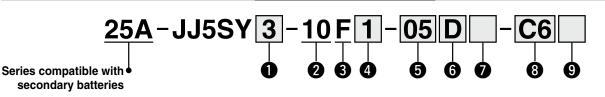
Plug-in Connector Connecting Base

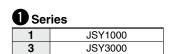
D-sub Connector

Type 10 Side Ported

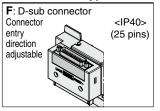
Internal Pilot

How to Order Manifolds





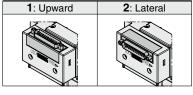
3 Connector type



4 Connector entry direction

2 Type

10



Side ported

5 Valve stations

Symbol	F: D-sub connector (25 pins) Symbol Stations Note						
02	2 stations						
	:	Double wiring*1					
12	12 stations						
02	2 stations	0					
:	÷	Specified layout*2					
16	16 stations	(Up to 16 solenoids available)					
 *1 Double wiring: 2-position single, 2-position double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control sized. If the is and dociment of a dociment between the state dociment. 							

- I he 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

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

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

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

symbol		A, B port	1211000	J213000	
C4		ø4	•	_	
C6	Straight	ø6	•	•	
C8	Stra	ø8	—	•	
CM *1		Straight port, mixed sizes	•	•	C. S.
P, E port size (One-touch fittings)		ø8	ø10		

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

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

9 Mounting and Option

Symbol	Mounting				
Nil	Direct mounting				
D		DIN rail mounting			
DIN Rail Option					
Nil	DIN rail mounting (With DIN rail)				
0	DIN rail mounting (Without DIN rail)				
3	For 3 stations				
	:	Specify a length longer than that of the standard rail.			
16	For 16 stations				

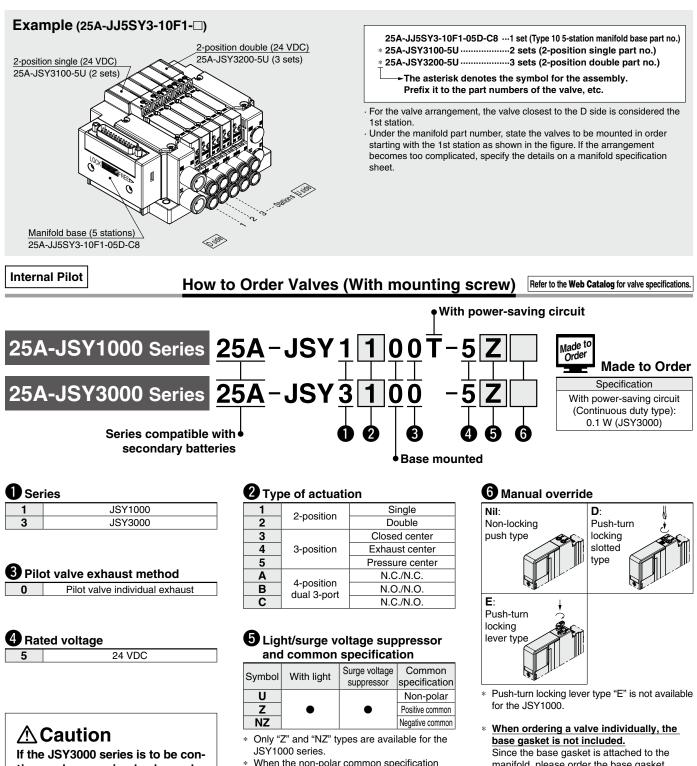
Enter the number of stations inside when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown above.)



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

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

How to Order Manifold Assembly



tinuously energized, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order."

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

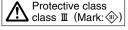
When the non-polar common specification type is selected, take measures to prevent

- surge voltage. For details, refer to the Web Catalog.
- manifold, please order the base gasket separately if it is needed for maintenance. Refer to the Web Catalog for base gasket part numbers. Refer to page 24 for mounting screw part

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

numbers.

For details, refer to the Web Catalog.



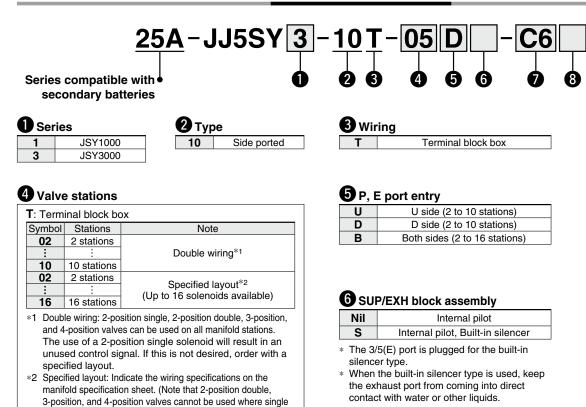
Plug-in Connector Connecting Base

Terminal Block Box

Internal Pilot

Type 10 Side Ported

How to Order Manifolds



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

*3 This also includes the number of blanking plates.

wiring has been specified.)

JSY1000 JSY3000 A, B port Symbol C4 ø4 Straight C6 ø6 • **C8** ø8 Straight port, CM*1 • • mixed sizes P, E port size ø8 ø10 (One-touch fittings)

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

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

8 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting
	Nil

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

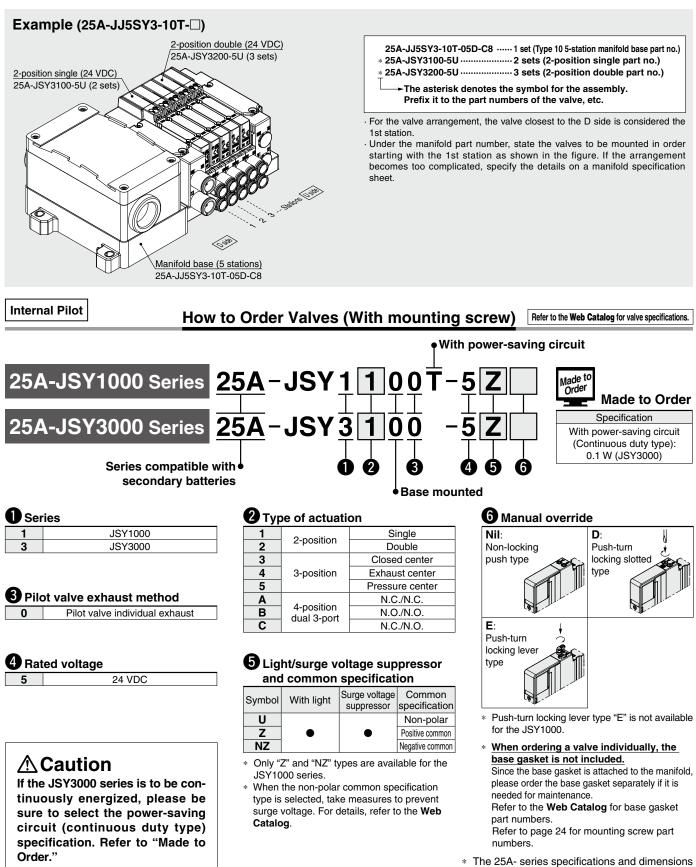
 Refer to the Web Catalog for details on securing the DIN rail mounting type manifold.

DIN Rail Option

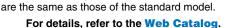
Nil	DIN rail mounting (With DIN rail)					
0	DIN rail	DIN rail mounting (Without DIN rail)				
3	For 3 stations					
:	:	Specify a length longer that that of the standard rail.				
16	For 16 stations	that of the standard fail.				

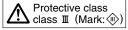


How to Order Manifold Assembly



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





Plug-in Connector Connecting Base

EX260

Type 10 Side Ported

25A-JSY1000/3000 Series

05

Δ

6

6

Internal Pilot

How to Order Manifolds

2 Туре

D P, E port entry

6 SUP/EXH block assembly

The 3/5(E) port is plugged for the built-in

the exhaust port from coming into direct

contact with water or other liquids.

When the built-in silencer type is used, keep

10

U D

В

Nil

S

silencer type.

3

Side ported

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



U Ser	les
1	JSY1000
3	JSY3000



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

Symbol (Our Positive common (NPN)	tput polarity) Negative common (PNP)	Protocol	Number of outputs	Communication connector
0	*1	Without	SI unit	t
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	
FA	FAN	PROFINET	32	M12
FB	FBN	FROMINET	16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	M12

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

specification of the valves to be used.

DIN rail cannot be mounted without SI unit.

Symbol	A, B port		JSY1000	JSY3000	
C4	Straight	ø4	•	_	
C6		ø6	•	•	
C8		ø8	—	•	
CM*1		Straight port, mixed sizes	•	•	08
P, E port size (One-touch fittings)			ø8	ø10	

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

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

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

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

4 Valve stations

In the case of the 32-output SI unit

C6

Symbol	Stations	Note		
02	2 stations			
:	÷	Double wiring*1		
16	16 stations			
In the case of the 16-output SI unit				

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

- *1 Double wiring: 2-position single, 2-position double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- * This also includes the number of blanking plates.
- For the product without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the lavout is specified, indicate it on the manifold specification sheet.

Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- ∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to the Web Catalog for details on securing the DIN rail mounting type manifold.
- DIN rail mounting (DD) is not available for the product without the SI unit (S0).

DIN Rail Option

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

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

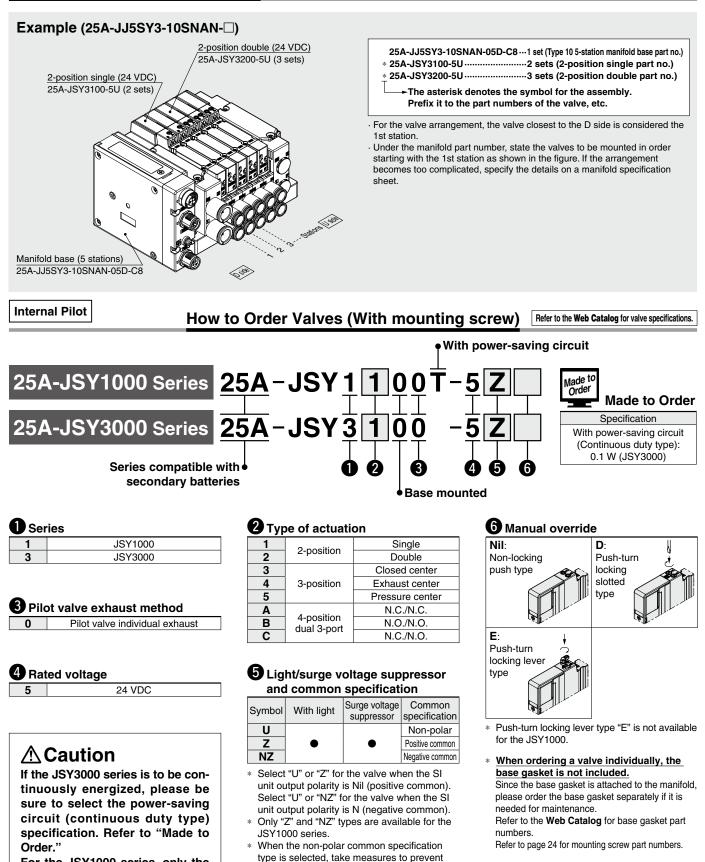


How to Order Manifold Assembly

For the JSY1000 series, only the

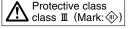
power-saving circuit specification

is available.



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

For details, refer to the Web Catalog.



surge voltage. For details, refer to the Web

Catalog.

Plug-in Connector Connecting Base

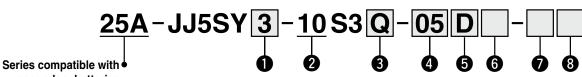
EX120

Type 10 Side Ported

25A-JSY1000/3000 Series С Є ЦК Понз

Internal Pilot

How to Order Manifolds



secondary batteries

1 Series			
1	JSY1000		
3	JSY3000		



3 SI unit

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

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

4 Valve stations

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

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

8 Mounting and Option

Symbol	Mounting		
Nil	Direct mounting		
D	DIN rail mounting		

- Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to the Web Catalog for details on securing the DIN rail mounting type manifold.

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)				
0	DIN rail mounting (Without DIN rail)				
3	For 3 stations	ns Creatify a langth language than			
	:	Specify a length longer than that of the standard rail.			
16	For 16 stations	that of the standard rall.			

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

9 P, E port entry

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

6 SUP/EXH block

Nil	Internal pilot			
S	Internal pilot, Built-in silencer			

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

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

A, B port size (metho/one toden inting)					
Symbol	A, B port		JSY1000	JSY3000	
C4		ø4	•	—	
C6	Chroight	ø6	•	•	
C8	Straight	ø8	_	•	
CM *1		Straight port, mixed sizes	•	•	08
P, E port size (One-touch fittings)		ø8	ø10		

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

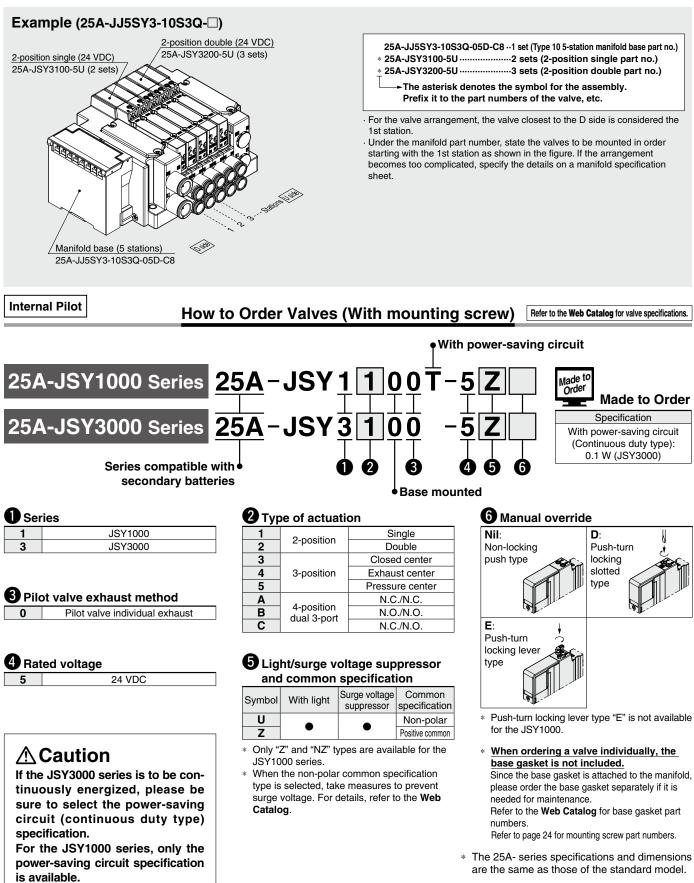
The JSY1000 manifold pitch for C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

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

For details, refer to the Web Catalog.

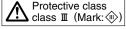
For details on the EX120 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalog** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to the **Web Catalog**. Please download the Operation Manual via the SMC website: https://www.smcworld.com

How to Order Manifold Assembly



多SMC

For details, refer to the Web Catalog.



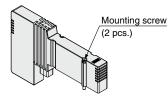
22

25A-JSY1000/3000 Series Manifold Options

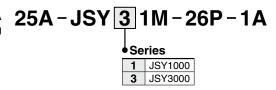
Blanking plate assembly

(With two mounting screws)

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



How to Order Blanking Plate Assembly



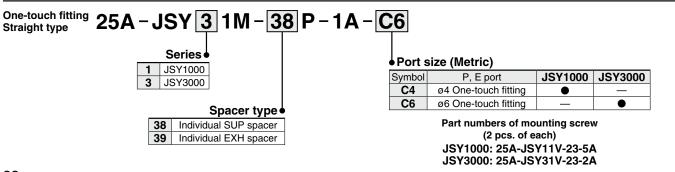
SI Unit Part Nos.

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

One-touch Fittings Part Nos.

	Series	25A-JS	Y1000 25A-JSY3000		25A-JSY1000 25A-JSY2000 Note		Note
Port size		6.5 mm pitch	9 mm pitch	254-5515000	NOLE		
	ø4	25A-KQSY10-C4-X1336	—	—			
A, B port	ø6	—	25A-KQSY11-C6-X1336	25A-KQSY30-C6			
	ø8	-	<u> </u>		The part number is for 1 piece. (Sales unit: 10 pcs.)		
B E port	ø8	25A-KQSY30-C8-X1336					
P, E port	ø10	-		25A-KQSY31-C10-X1336			

How to Order Individual SUP/EXH Spacer Assembly



Manifold Options 25A-JSY1000/3000 Series

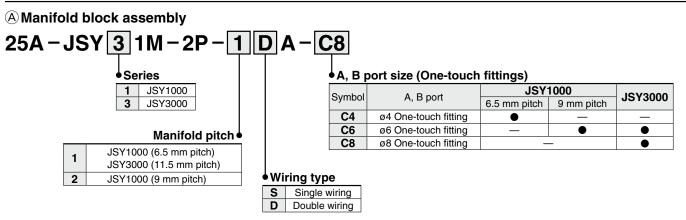
Manifold Parts Nos./For the 25A-JJ5SY1-10, 25A-JJ5SY3-10

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

Table. 25A-JSY1000 series clamp bracket

Wiring (JSY1000 series)		25A-JSY11M-15P-1A	25A-JSY11M-15P-2A
F	D-sub connector	•	_
Т	Terminal block box		•
S	EX260	•	_
S3	EX120	•	_

Manifold Parts Nos.



25A-JSY1000/3000 Series

Manifold Parts Nos.

B SUP/EXH end block assem	bly					
25A-JSY31M-3	P−1A	- C10				
• Series						
1 JSY1000			Nil		Direct mounting	
3 JSY3000			D0	DIN	I rail mounting (Without DIN rail)	
			D00 *1	DIN	I rail mounting (Without DIN rail)	
			*1 Part	numł	per only for the 25A-JSY1000	
Pilot, S	ilencer type				per is different depending on the wiring.	
Symbol Pilot type Internal	Built-in silencer				JSY1000 series DIN rail mounting	
Nil 🛛 🔴	_		Sym	nbol	Wiring	
S •	•]	D	0	D-sub connector (F type) EX260 (S □□ type) EX120 (S3 type)	
			DC	00	Terminal block box (T type)	
P, E port siz	e (One-touch	fittings) •				
Symbol P, E port	101/1000	JSY3000				

•

•

. .			
Clam	p t	ora	cket

C8

C10

00

Series		Part no.		
05A 10V1000	For D0	25A-JSY11M-15P-1A		
25A-JSY1000	For D00	25A-JSY11M-15P-2A		
25A-JSY3000		25A-SY30M-15-1A		

ø8 One-touch fitting

ø10 One-touch fitting

Plug

•

•

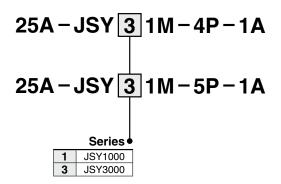
Cover, Silencer cover for SUP/EXH (end) block assembly



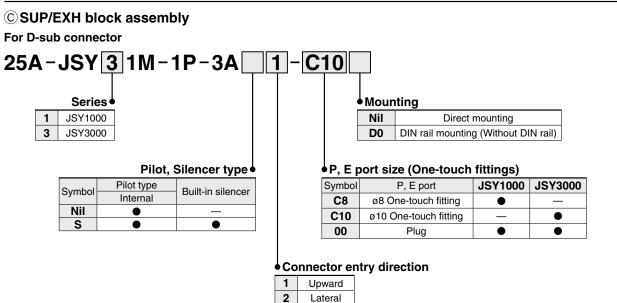
Cover (Internal pilot)



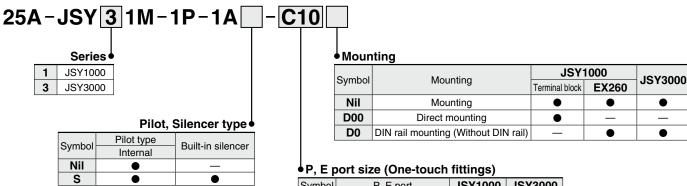
Silencer cover (Internal pilot, Built-in silencer)



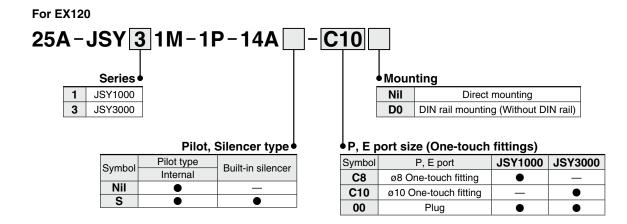
Manifold Parts Nos.



For the terminal block box or EX260



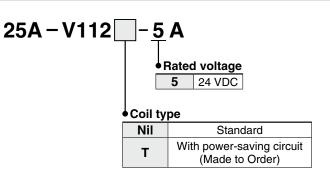
· , – r	· , · · · · · · · · · · · · · · ·				
Symbol	P, E port	JSY1000	JSY3000		
C8	ø8 One-touch fitting	•	—		
C10	ø10 One-touch fitting	_	•		
00	Plug	•	•		



* Refer to page 25 for clamp bracket part numbers.

25A-JSY1000/3000 Series

How to Order Pilot Valves



Pilot cover



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

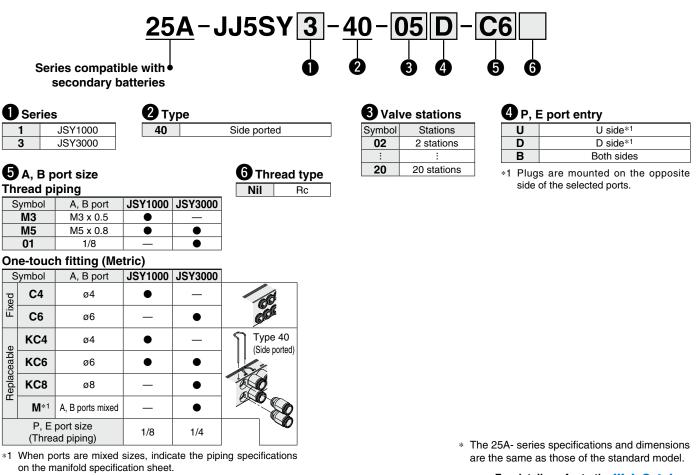


Non Plug-in Metal Base 25А-JSY1000/3000 Series С С ЦК Понз

Internal Pilot

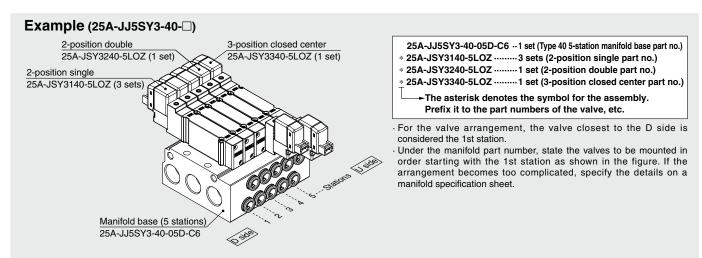
Type 40 Sid<u>e Ported</u>

How to Order Manifolds

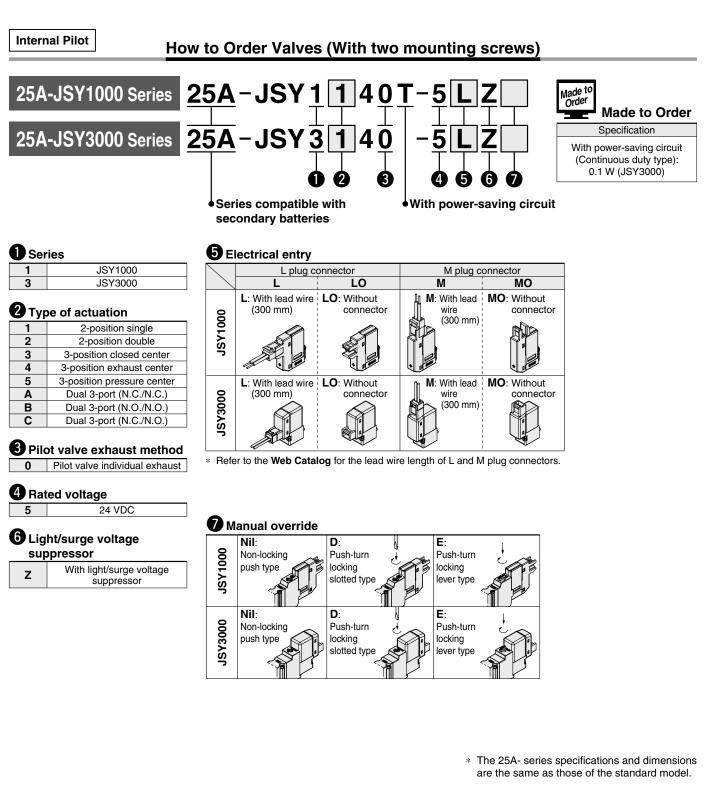


For details, refer to the Web Catalog.

How to Order Manifold Assembly



Non Plug-in Metal Base 25A-JSY1000/3000 Series



For details, refer to the Web Catalog.

▲ Caution

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

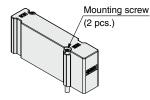
For the JSY1000 series, only the power-saving circuit specification is available.

25A-JSY1000/3000 Series Manifold Options

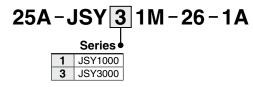
Blanking plate assembly

(With two mounting screws)

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



How to Order Blanking Plate Assembly



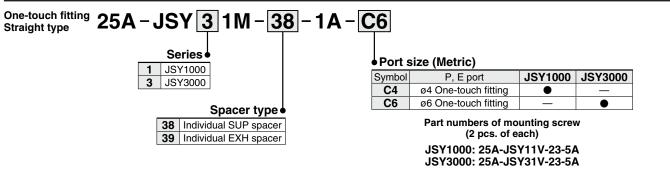
Valve Mounting Screw Part No.

Description	Par	Note		
Description	25A-JJ5SY1	25A-JJ5SY3	Note	
Round head combination screw	25A-JSY11V-23-4A	25A-JSY31V-23-4A	Part numbers shown on the left are for 10 valves. (20 pcs.)	

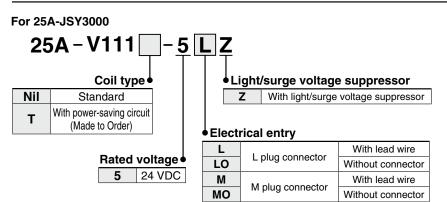
One-touch Fittings Part Nos.

		Port size	25A-JSY1000	25A-JSY3000
		ø4 One-touch fitting (Straight type)	25A-KQSY10-C4-X1336	—
A, B port	Metric size	ø6 One-touch fitting (Straight type)	25A-KQSY11-C6-X1336	25A-KQSY30-C6
		ø8 One-touch fitting (Straight type)	_	25A-KQSY30-C8-X1336

How to Order Individual SUP/EXH Spacer Assembly



How to Order Pilot Valves

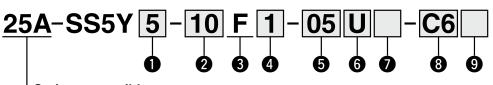


* For the 25A-JSY1000, the pilot valve is the same as that of the standard model.





How to Order Manifolds



Series compatible with secondary batteries

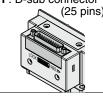
1 Series

U OCITICS			
5	SY5000		
7	SY7000		

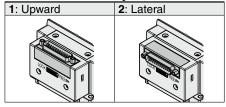
2 Type

10	Side ported
11	Bottom ported





4 Connector entry direction



5 Valve stations

F: D-sub connector (25 pins)						
Symbol Stations Note	*1 Double wiring: 2-position					
02 2 stations : : Double wiring*1	single, 2-position double, 3-position, and 4-position valves can be used on all					
022 stationsSpecified layout*2:::(Up to 24 solenoids2424 stationsavailable)	manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If					
 *2 Specified layout: Indicate the wiring specifications on the 						

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

The blanking plate assembly is included in this number.

G P F port entry

\mathbf{v} ,	E port citaly
U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

SUP/EXH block assembly

	Nil	Internal pilot			
S	Internal pilot,				
	5	Built-in silencer			
R		External pilot			
	The $O(\Gamma(\Gamma))$ mention where r				

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

8 A, B port size (Metric)

_							
Symbol		A, B port	Type Side p	e 10/ ported	Type Bottom	e 11/ ported	
			SY5000	SY7000	SY5000	SY7000	
C4		ø4		—		—	
C6	÷	ø6	\bullet	\bullet		\bullet	
C8	ligh	ø8				\bullet	
C10	Straight	ø10	—		—	\bullet	XSHIP
C12	0)	ø12	—		—	\bullet	elses.
CM *1		Straight port, mixed sizes	\bullet	\bullet			
(0		E port size -touch fittings)	ø10	ø12	ø10	ø12	

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

Mounting

Sumbol	Mounting	Option Name plate Station number		0
Symbol		Name plate	Station number	
Nil		—	—	
AA	Direct mounting			
BA	mounting		—	
D	DIM	_	—	
A	DIN rail mounting			
B			_	

	DIN Rail Option			
nber	Nil	Direc	ct mounting	
	0		N rail (with bracket)	
	3	For 3 stations	Specify a longer rail	
			than the total length	
	24	For 24 stations	of specified stations.	

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

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

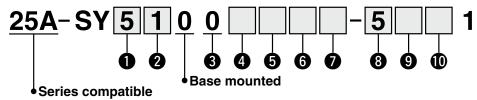
> * The 25A- series specifications and dimensions are the same as those of the standard model.





Plug-in Connector Connecting Base D-sub Connector 25A-SY5000/7000 Series

How to Order Valves (With mounting screw)



with secondary batteries

🚺 Se	ries
5	SY5000
7	SY7000

2 Type of actuation

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

B Quick response type (0.7 MPa)

6 Pilot valve option

Nil

Coil type Nil Standard

- T With power-saving circuit (Continuous duty type)
- * Be sure to select the power-saving circuit type if the valve is to be continuously

Standard (0.7 MPa)

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

8 Rated voltage

5	24 VDC
6	12 VDC

4 Pilot type

Seal type

Nil	Internal pilot
R	External pilot

Rubber seal

* When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the Web Catalog.

Back pressure check valve (Built-in valve type)

Nil	None	
Н	Built-in	
* The built in velue type book pressure		

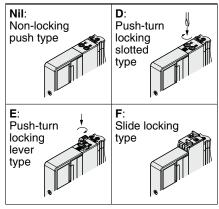
 The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

Light/surge voltage suppressor and common specification

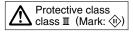
Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)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

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

Manual override

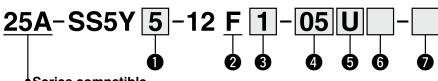


* The 25A- series specifications and dimensions are the same as those of the standard model.



Plug-in Connector Connecting Base D-sub Connector 25A-SY5000/7000 Series

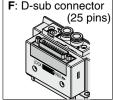
How to Order Manifolds



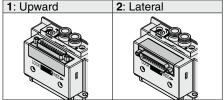
 Series compatible with secondary batteries

1 Se	ries
5	SY5000
7	SY7000

(2	Connector typ	е
ſ	F:	D-sub connector	



3 Connector entry direction



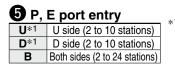
4 Valve stations

F : D	-sub	connector (25 pins)	
	Stations	<u> </u>	
02	2 stations		
÷	:	Double wiring*1	
12	12 stations		
02	2 stations	Specified layout*2 (Up to 24 solenoids	
÷	:	(Up to 24 solenoids	
24	24 stations	available)	

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

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

* The blanking plate assembly is included in this number.



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

6 SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

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

Mounting

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

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



Plug-in Connector Connecting Base D-sub Connector 25A-SY5000/7000 Series

How to Order Valves (With mounting screw) 25A-SY 5 1 – C6 3 5 Ð 6 1 3 4 Top ported Series compatible with secondary batteries Series 9 Manual override

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

SY5000

SY7000

3 Seal type		al type		
0			Rubber seal	

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

	Nil None	
	Η	Built-in
*	* The built-in valve type back pressure	

3-position type or the SY7000.

5 Pilot valve option

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

6 Coil type

- Nil Standard т
- With power-saving circuit (Continuous duty type) Be sure to select the power-saving circuit * type if the valve is to be continuously
- energized for long periods of time. Be careful of the energizing time when the
- power-saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)			
R	With surge voltage suppressor (Non-polar)			
U	With light/surge voltage suppressor (Non-polar)			
S	With surge voltage suppressor (Positive common)			
Z With light/surge voltage suppresso (Positive common)				
NS	With surge voltage suppressor (Negative common)			
NZ	With light/surge voltage suppressor (Negative common)			
* Only "7" and "N7" types are available				

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

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

A, B port size

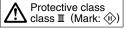
Thread piping

Symbol	Port size		Applica	able series
02	1/4		S	Y7000
One-touch fitting (Metric)				
Symbol	A, B port	S	/ 5000	SY7000
C4	ø4		•	—
C6	ø6		•	
C8	ø8		•	
C10	ø10		—	
C12	ø12			

Thread type

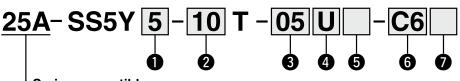
Nil	Rc	
F	G	
N	NPT	
Т	NPTF	

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



Plug-in Connector Connecting Base Terminal Block Box (EUK 25A-SY5000/7000 Series CUK BoHS

How to Order Manifolds



Series compatible with secondary batteries

O Series		
5	SY5000	
7	SY7000	

2 Туре

Side ported
Bottom ported

3 Valve stations

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

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

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)

SUP/EXH block assembly

_		
Nil	Internal pilot	
S	Internal pilot, Built-in silencer	
R	External pilot	
$T = O(\Gamma(\Gamma))$		

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

Mounting

-	J			
Sumbol	Mounting	Option		
Symbol	Mounting	Name plate	Station number	
Nil	D'	_	—	
AA	Direct mounting			
BA			—	
D	DIN	—	—	
A	DIN rail mounting			
B	mounting		—	

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

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

DIN Rail Option

-				
Nil	Direct mounting			
0		t DIN rail (with bracket)		
3	For 3 stations	Specify a longer rail		
		than the total length of		
20	For 20 stations	specified stations.		

6 A, B port size (Metric)

Symbol		A, B port		e 10/ ported	Type Bottom	e 11/ ported	
			SY5000	SY7000	SY5000	SY7000	
C4		ø4		—		—	
C 6	ţ	ø6	\bullet	\bullet		\bullet	
C8	Straight	ø8		\bullet		\bullet	
C10	Stra	ø10	—		—		
C12	0)	ø12	—		—		elferse
$\mathbf{C}\mathbf{M}^{*1}$		Straight port, mixed sizes	\bullet			\bullet	
(O	P, ne	E port size -touch fittings)	ø10	ø12	ø10	ø12	

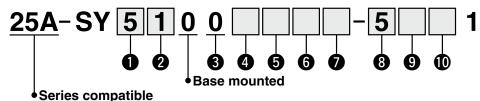
*1 Indicate the sizes on the manifold specification sheet for "CM."

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

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

Plug-in Connector Connecting Base Terminal Block Box 25A-SY5000/7000 Series

How to Order Valves (With mounting screw)



with secondary batteries

🛈 Se	ries
5	SY5000
7	SY7000

2 Type of actuation

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

🕄 Se	al type
0	Rubber seal

4 Pilot type

Nil	Internal pilot
R	External pilot

When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the Web Catalog.

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

Nil	None
Н	Built-in

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

6 Pilot valve option

NilStandard (0.7 MPa)BQuick response type (0.7 MPa)

Coil type

Nil Standard T With power-saving circuit (Continuous duty

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

8 Rated voltage

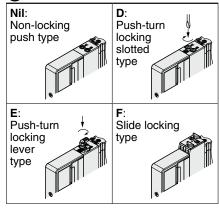
5	24 VDC
6	12 VDC
6	12 VDC

Light/surge voltage suppressor and common specification

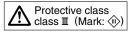
Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)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

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

Manual override



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



Plug-in Connector Connecting Base Terminal Block Box 25A-SY5000/7000 Series RoHS

Type 12 Top Ported

How to Order Manifolds



Series compatible with secondary batteries

1 Series		
ſ	5	SY5000
ſ	7	SY7000

3 P, E port entry

\mathbf{v}	- port ond y
U *1	U side (2 to 10 stations)
D *1	D side (2 to 10 stations)
В	Both sides (2 to 20 stations)

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

2 Valve stations

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

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

will result in an unused control signal. If this is not desired, order with a specified layout.

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

4 SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silence	

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

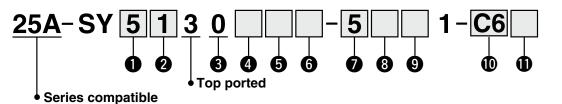
5 Mounting

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

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

Plug-in Connector Connecting Base Terminal Block Box 25A-SY5000/7000 Series





with secondary batteries

🚺 Se	ries
5	

5	SY5000
7	SY7000

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

🕄 Se	al type		
0		Rubber seal	

ubber sear

Back pressure check valve (Built-in valve type)

Nil None		None
	Н	Built-in
	* The b	puilt-in valve type back pressure

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

9 Pilot valve option

NilStandard (0.7 MPa)BQuick response type (0.7 MPa)

6 Coil type

- Nil Standard
- With power-saving circuit (Continuous duty type)]
 Be sure to select the power-saving circuit type if the valve is to be continuously
- energized for long periods of time.
- Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage

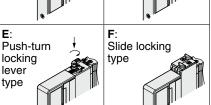
5	24 VDC
6	12 VDC

8 Light/surge voltage suppressor and common specification

Nil	Nil Without light/surge voltage suppresso (Non-polar)				
R With surge voltage suppresso (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 "7" and "N7" types are available					

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

Manual override Nil: Non-locking push type Push-turn locking slotted type F: Slide locking boxing



O A, B port size Thread piping

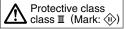
	· · · · · · · · · · · · · · · · · · ·					
Symbol	Port size		Applicable series			
02	1/4		SY7000			
One-touch fitting (Metric)						
Symbol	A, B port	S	Y5000	SY7000		
C4	ø4		•			
C6	ø6		•	\bullet		
C8	ø8		•			
C10	ø10	_				
C12	ø12		—	•		

Thread type

Nil	Rc			
F G				
N	NPT			
Т	NPTF			

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

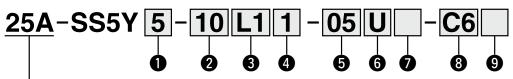
For details, refer to the Web Catalog.



40



How to Order Manifolds



 Series compatible with secondary batteries

Series					
5	SY5000				
7	SY7000				

Number of cores

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

2 Туре

<u> </u>	P 0
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 [⊐)	
Symbol	Stations	Note	Symbol	Stations	Note
02	2 stations		02	2 stations	
:	:	Double wiring*1	:	1	Double wiring*1
16	16 stations	-	04	4 stations	-
02	2 stations	Specified layout*2	02	2 stations	Specified layout*2
:	:	(Up to 32 solenoids	:		(Up to 8 solenoids
24	24 stations	available)	08	8 stations	available)
(L2	⊐)				
Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring*1			
08	8 stations	Ū.			

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

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

6 P, E port entry

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

SUP/EXH block assembly

Nil Internal pilot					
S	Internal pilot, Built-in silencer				
R	External pilot				

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

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

8 A, B port size (Metric)

Cumhal		A Dimont	Type 10/S	ide ported	Type 11/Bo	ttom ported	
Symbol	Symbol A, B port		SY5000	SY7000	SY5000	SY7000	
C 4		ø4		—			
C6	÷	ø6				•	KOZ
C8	Straight	ø8		\bullet		\bullet	
C10	Stra	ø10	—	\bullet	—	\bullet	XSTER
C12		ø12		\bullet	—	•	el ^g assist
$\mathbf{C}\mathbf{M}^{*1}$		Straight port, mixed sizes				•	
(0	P, E port size (One-touch fittings)		ø10	ø12	ø10	ø12	

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

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

9 Mounting

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

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

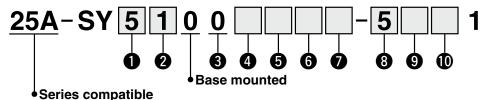
* Only direct mounting is available for the type 11 bottom-ported type. **DIN Rail Option**

Nil	Direct mounting	
0	Without DIN rail (with bracket)	
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.



How to Order Valves (With mounting screw)



with secondary batteries

Series		ries
	5	SY5000
	7	SY7000

2 Type of actuation

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

3 Se	al type
0	Rubber seal

4 Pilot type

<u> </u>		
Nil	Internal pilot	
R	External pilot	

When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the Web Catalog.

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

Nil	None
Н	Built-in

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

6 Pilot valve option

NilStandard (0.7 MPa)BQuick response type (0.7 MPa)

🕖 Coil type

 Nil
 Standard

 T
 With power-saving circuit (Continuous duty)

- T [With power-saving circuit (Continuous duty type)] * Be sure to select the power-saving circuit type if the valve is to be continuously
- energized for long periods of time.Be careful of the energizing time when the
- power-saving circuit is selected. For details, refer to the standard product catalog.

8 Rated voltage

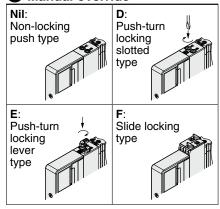
5	24 VDC
6	12 VDC

Use the second secon

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

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

Manual override

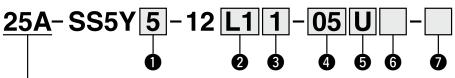


* The 25A- series specifications and dimensions are the same as those of the standard model.



Plug-in Connector Connecting Base Lead Wire (C LK 25A-SY5000/7000 Series C LS BoHS

How to Order Manifolds



 Series compatible with secondary batteries

Series

ype 12

	1103
5	SY5000
7	SY7000

Number of cores (Lead wire)

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

B Le	ad 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
:	:	(Up to 32 solenoids	:	:	(Up to 8 solenoids
24	24 stations	available)	08	8 stations	available)
(1 2					

(L2□)

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

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

9 P, E port entry

\mathbf{v} ,	
U *1	U side (2 to 10 stations)
D *1	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

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

6 SUP/EXH block assembly

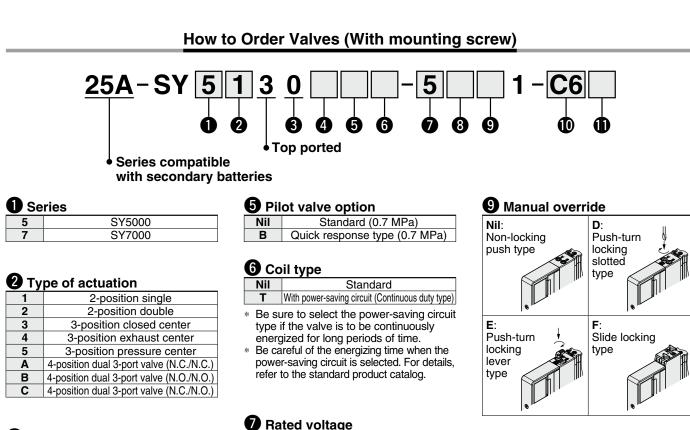
Nil	Internal pilot
_	1 states at all states

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

Mounting

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

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



Seal type			
	0		Rubber seal

Back pressure check valve (Built-in valve type)

Nil	None	
Н	Built-in	
* The built-in valve type back pressure		

check valve is not available for the 3-position type or the SY7000.

8 Light/surge voltage suppressor and common specification

5

6

24 VDC

12 VDC

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

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

(D) A, B port size Thread piping

Symbol	Port size		Applica	able series	
02	1/4	1/4		SY7000	
One	-touch fitting (Met	ric)		
Symbol	A, B port	S	/ 5000	SY7000	
C4	ø4		•	_	
C6	ø6		•	•	
C8	ø8		•		
C10	ø10				

Thread type

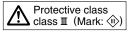
ø12

C12

<u> </u>	
Nil	Rc
F	G
N	NPT
Т	NPTF

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

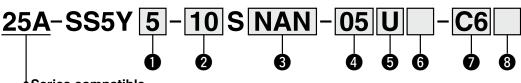
For details, refer to the Web Catalog.



SMC

Plug-in Connector Connecting Base **EX260** 25A-SY5000/7000 Series CALUS RoHS

How to Order Manifolds



Series compatible with secondary batteries

ype 10

Side Ported

Type 11 **Bottom Ported**

5	SY5000
7	SY7000

2 Ty	ре
10	Side ported
11	Bottom ported

3 SI unit specifications

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

Positive common (NPN)	Negative common (PNP)	Protocol	Number of outputs	Communication connector
()	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	IVI I Z
DA	DAN	EtherCAT	32	M12
DB	DBN	EllierCAT	16	IVI I Z
FA	FAN	PROFINET	32	M12
FB	FBN	FROFINET	16	IVI I Z
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	IVI I Z
	KAN	IO-Link	32	M12

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

DIN rail cannot be mounted without SI unit. For IO-Link, only the negative common (PNP)

type and the 32 outputs type are available.

wart sins (Matria)

A 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 lavout*2					
:	:	Specified layout*2 (Up to 32 solenoids available)					
24	24 stations						

In the case of the 16-output SI unit

/mbol	Stations	Note
02	2 stations	
÷	:	Double wiring*1
08	8 stations	_
02	2 stations	
:	:	Specified layout*2 (Up to 16 solenoids available
16	16 stations	
	02 : 08 02 :	i i D8 8 stations D2 2 stations i i

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

B P F port entry

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

6 SUP/EXH block assembly

Nil	Internal pilot			
S	Internal pilot, Built-in silencer			
R	External pilot			

The 3/5(E) port is plugged for the builtin silencer type.

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

8 Mounting

Sumbol	Mounting	Option		
Symbol		Name plate	Station number	
Nil	Direct mounting			
AA		•	•	
BA			—	
D	DIN	—	—	
A	DIN rail mounting			
B			—	

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

DIN Rail Option

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

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

For details, refer to the Web Catalog.

For details on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 53 in this catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com

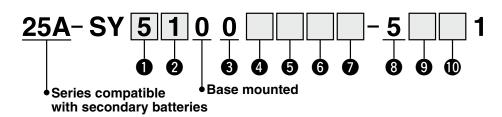
• A, B port size (Metric)								
Cumbol		A B port	Type 10/Side ported		Type 11/Bottom ported			
Symbol	A, B port		SY5000	SY7000	SY5000	SY7000		
C4		ø4		—		—		
C6	.	ø6					KO	
C8	Straight	ø8	\bullet		\bullet			
C10	Stra	ø10	—		—			
C12		ø12	—		—		el ^{Bass}	
$\mathbf{C}\mathbf{M}^{*1}$	Straight port, mixed sizes		\bullet		\bullet			
(C	P, E port size (One-touch fittings)		ø10	ø12	ø10	ø12		

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



Plug-in Connector Connecting Base 25A-SY5000/7000 Series

How to Order Valves (With mounting screw)



1 Se	ries
5	SY5000
7	SY7000

2 Type of actuation

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

3 Seal type		al type		
	0		Rubber seal	

4 Pilot type

Nil	Internal pilot			
R	External pilot			

* When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the Web Catalog.

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

	Nil	None			
	Н	Built-in			
* The built-in valve type back pressure					

check valve is not available for the 3-position type or the SY7000.

6 Pilot valve option

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

Coil type

- Nil Standard т
- With power-saving circuit (Continuous duty type) Be sure to select the power-saving circuit type if the valve is to be continuously
- energized for long periods of time. Be careful of the energizing time when the
- power-saving circuit is selected. For details, refer to the standard product catalog.

8 Rated voltage 24 VDC

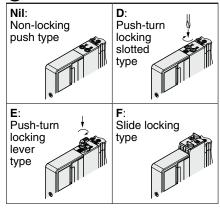
5

Uight/surge voltage suppressor and common specification

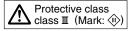
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

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

D Manual override



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



Plug-in Connector Connecting Base EX260 (C UK 25A-SY5000/7000 Series C UK BoHS

How to Order Manifolds



Series compatible with secondary batteries

O Series				
5	SY5000			
7	SY7000			

Type 12 Top Ported

SI unit specifications (Output colarity. Protocol. Number of outputs. Communication connector)

(output polarity, riotocol, runnber of outputs, communication connector)				
· ·	tput polarity)		Number	Communication
Positive common (NPN)	Negative common (PNP)	Protocol	of outputs	connector
()	Without SI unit		
QA	QAN	DeviceNet®	32	M12
QB	QBN	Devicemet	16	IVITZ
NA	NAN	PROFIBUS	32	M12
NB	NBN	DP	16	
VA	VAN	CC-Link	32	M12
VB	VBN		16	IVITZ
DA	DAN	EtherCAT	32	M12
DB	DBN	EulerCAT	16	
FA	FAN	PROFINET	32	M12
FB	FBN	FROFINET	16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	
_	KAN	IO-Link	32	M12

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

3 Valve stations

In the case of the 32-output SI unit				
Symbol	Stations	Note		
02	2 stations			
:	:	Double wiring*1		
16	16 stations			
02	2 stations	Specified layout*2 (Up to 32 solenoids available)		
÷	:			
24	24 stations			

In the case of the 16-output SI unit

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

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

4 P, E port entry

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

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

5 SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

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

6 Mounting

Nil	Direct mounting		
D	DIN rail mounting (With DIN rail)		
D0	DIN rail mounting (Without DIN rail)		
D3	For 3 stations	longer than that of	
:	:		
D24	For 24 stations		

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

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

For details, refer to the Web Catalog.

For details on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalog** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 53 in this catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com Plug-in Connector Connecting Base 25A-SY5000/7000 Series

How to Order Valves (With mounting screw) 25A-SY 5 3 1 – C6 5 Ð 5 З 6 Top ported Series compatible with secondary batteries Series 6 Coil type 9 Manual override SY5000 Nil Standard Nil: SY7000 т With power-saving circuit (Continuous duty type) Non-locking

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

🕄 Se	al type	
0		Rubber seal

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

Nil None				
	Н	Built-in		
* 7	The b	puilt-in valve type back pressure		

check valve is not available for the 3-position type or the SY7000.

5 Pilot valve option

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

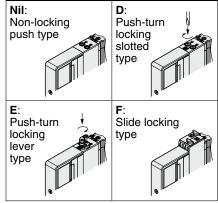
- Be sure to select the power-saving circuit
- type if the valve is to be continuously energized for long periods of time. Be careful of the energizing time when the
- power-saving circuit is selected. For details, refer to the standard product catalog.

Rated voltage 24 VDC 5

13 Light/surge voltage suppressor and common specification

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

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



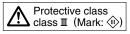
A, B port size Thread nining

Inread piping							
Symbol	Port size		Applica	able series			
02	1/4		S	7000			
One-touch fitting (Metric)							
Symbol	A, B port	S۱	/5000	SY7000			
C4	ø4		•	—			
C6	ø6		•				
C8	ø8		•	\bullet			
C10	ø10		—				
C12	ø12		_				

Thread type

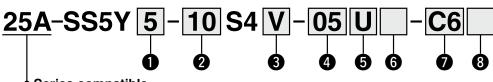
Nil	Rc
F	G
N	NPT
Т	NPTF

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



Plug-in Connector Connecting Base EX126 25A-SY5000/7000 Series RoHS

How to Order Manifolds



 Series compatible with secondary batteries

1 Series				
5	SY5000			
7	SY7000			

2 Туре

ype 10

Side Ported

Type 11 Bottom Ported

10	Side ported
11	Bottom ported

3 SI unit

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

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

4 Valve stations

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

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

If this is not desired, order with a specified layout. *2 Specified layout: Indicate the wiring

- specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- The blanking plate assembly is included in this number.

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

-			
Nil	Internal pilot		
S	Internal pilot, Built-in silencer		
R	External pilot		
T I (

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

8 Mounting

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

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

DIN Rail Option

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

A, B port (Metric)

Symbol	A, B port		Side p	e 10/ ported	Type Bottom	ported	
			SY5000	SY7000	SY5000	SY7000	
C4		ø4		—		—	
C6	÷	ø6	\bullet	\bullet	\bullet	\bullet	
C8	Straight	ø8	\bullet			\bullet	
C10	Stra	ø10	—			\bullet	
C12	0	ø12	—		—	\bullet	el Sais an
\mathbf{CM}^{*1}		Straight port, mixed sizes				•	
(0	P, E port size (One-touch fittings)		ø10	ø12	ø10	ø12	

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

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

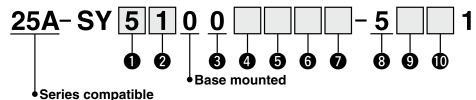
For details, refer to the Web Catalog.

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

SMC

Plug-in Connector Connecting Base 25A-SY5000/7000 Series

How to Order Valves (With mounting screw)



with secondary batteries

🛈 Se	ries
5	SY5000
7	SY7000

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

3 Seal type		al type		
Γ	0		Rubber seal	

4 Pilot type

Nil	Internal pilot
R	External pilot

* When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the Web Catalog.

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

	······································
Nil	None
Н	Built-in
* Tho h	uilt-in valve type back pressure

-ın valve type check valve is not available for the 3-position type or the SY7000.

6 Pilot valve option

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

Coil type

- Nil Standard
- т With power-saving circuit (Continuous duty type) Be sure to select the power-saving circuit type if the valve is to be continuously
- energized for long periods of time. Be careful of the energizing time when the
- power-saving circuit is selected. For details, refer to the standard product catalog.

Bated voltage

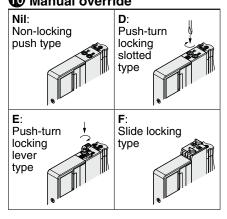
24 VDC

Light/surge voltage suppressor and common specification

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

* Only "Z" type is available with a powersaving circuit.

Manual override



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

Plug-in Connector Connecting Base EX126 (C LK 25A-SY5000/7000 Series C LK BoHS

How to Order Manifolds



Series compatible with secondary batteries

🚺 Se	ries
-	

ype 12 op Ported

5	SY5000
7	SY7000

2 SI unit

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

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

3 Valve stations

-					
Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring* ¹			
08	8 stations				
02	2 stations	Specified layout*2 (Up to 16 solenoids available)			
:	:				
16	16 stations				
10	10 310110115				

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

will result in an unused control signal. If this is not desired, order with a specified layout.

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

4 P, E port entry

• • • • • • • • • • • • • • • • • • •				
U *1	U side (2 to 10 stations)			
D *1	D side (2 to 10 stations)			
В	Both sides (2 to 16 stations)			
*1 G For type "S " SLIP/EXH block				

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

SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silencer	

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

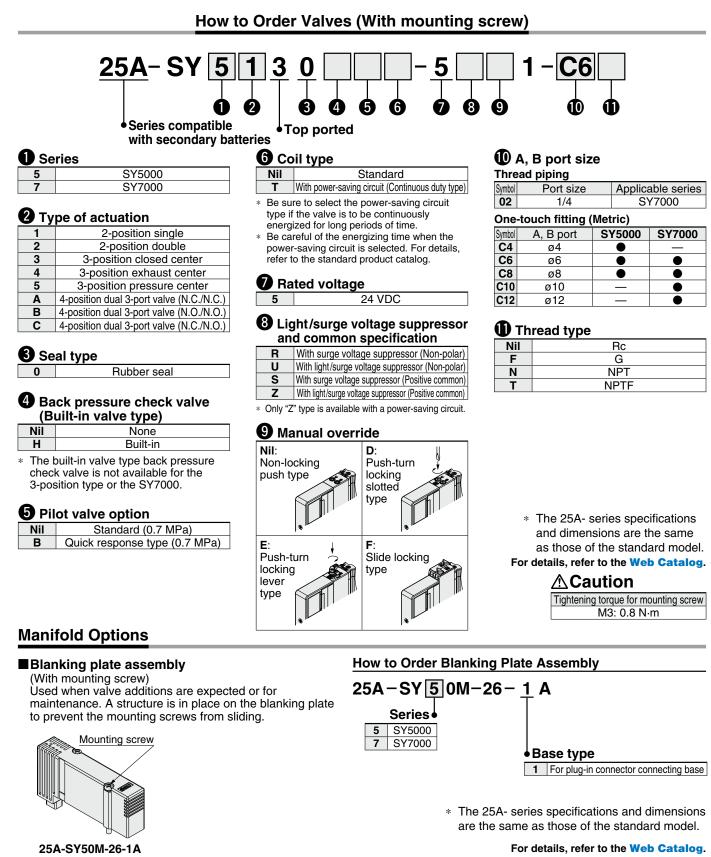
6 Mounting

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

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

For details, refer to the Web Catalog.

For details on the EX126 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalog** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 53 in this catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com Plug-in Connector Connecting Base 25A-SY5000/7000 Series



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52

25A-SY5000/7000 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-SEC4-X117	EtherCAT M12 connector, 16 outputs, Positive common (NPN)
EX260 SI unit	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)
	EX260-SIL1-X117	IO-Link M12 connector, 32 outputs, Negative common (PNP)
EX126 SI unit	EX126D-SMJ1-X220	CC-Link (Terminal block, 16 outputs, Positive common (NPN))

Valve Mounting Screw Part No.

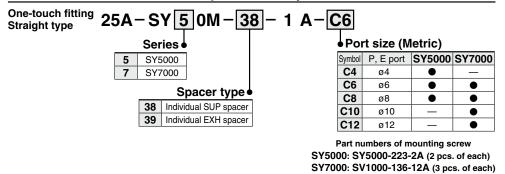
Description	Part no.		Note
Description	SY5000	SY7000	Note
Round head combination screw	SY5000-223-1A	SY7000-224-1A	Part numbers shown on the left are for 10 valves. (SY5000: 20 pcs./SY7000: 30 pcs.)

One-touch Fittings Part Nos.

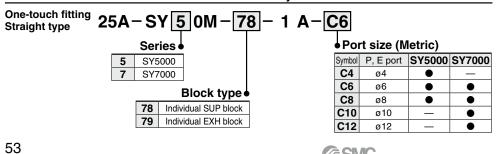
		Port size	25A-SY5000	25A-SY7000
A, B Metric port size	Matria	ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4	—
		ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6	25A-KJH06-17-X1607
		ø8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8	90-VVQ2000-51A-C8
	Size	ø10 One-touch fitting (Straight type)	—	90-VVQ2000-51A-C10
		ø12 One-touch fitting (Straight type)	—	25A-KQ2H12-17-X1607
P, E	Metric	ø10 One-touch fitting (Straight type)	90-VVQ2000-51A-C10	
port	size	ø12 One-touch fitting (Straight type)	_	90-VVQ4000-50B-C12

Manifold Options

How to Order Individual SUP/EXH Spacer Assembly



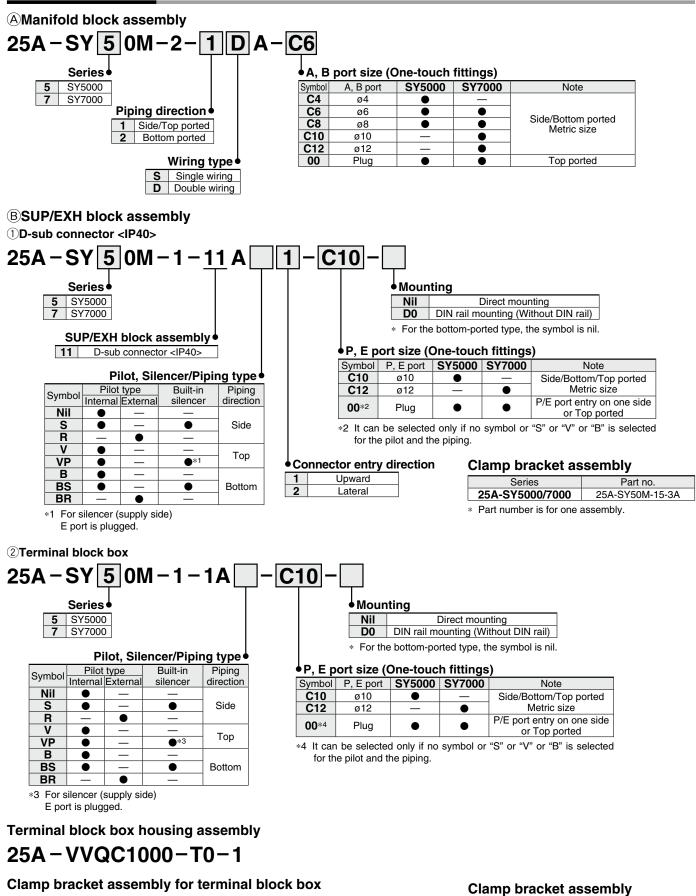
How to Order Individual SUP/EXH Block Assembly



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Manifold Options 25A-SY5000/7000 Series

Manifold Parts Nos.



25A-SY30M-15-6A

* Part number is for one assembly.

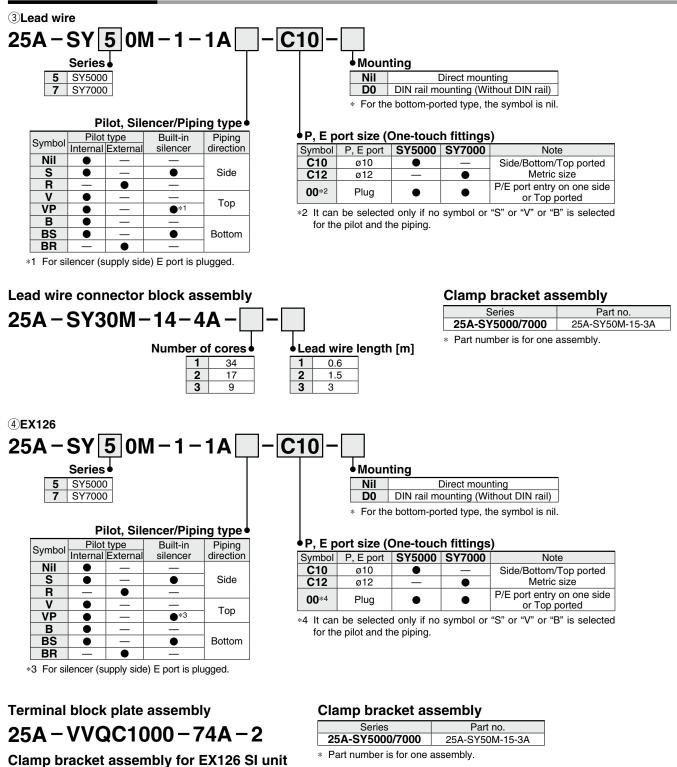
Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

* Part number is for one assembly.



25A-SY5000/7000 Series

Manifold Parts Nos.



25A-SY30M-15-6A

* Part number is for one assembly.

Manifold Options 25A-SY5000/7000 Series

Manifold Parts Nos.

В

BS

BR

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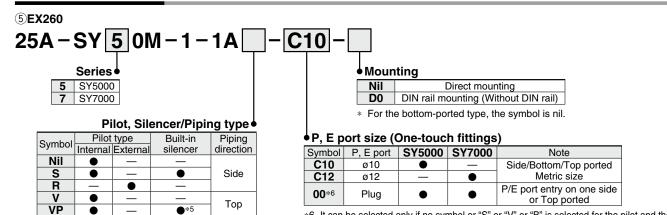
•

•

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

•

Bottom



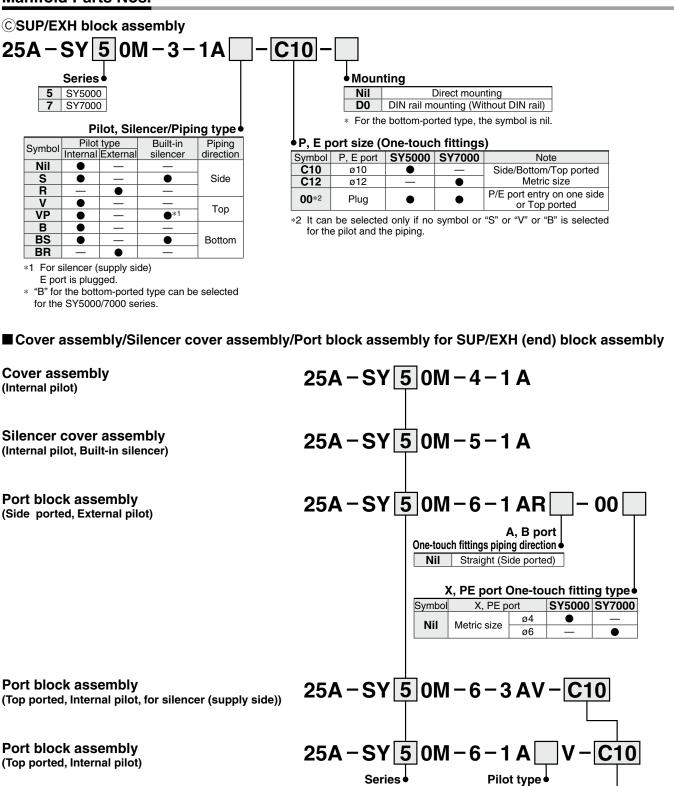
*6 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Clamp bracket assembly

Series	Part no.	
25A-SY5000/7000	25A-SY50M-15-3A	* Part number is for one assembly.

SMC

Manifold Parts Nos.



■ Name plate bracket assembly (For SY5000 only)

25A-SY50M-85-1A

5 7 SY5000

SY7000

Nil

C10

C12

Internal pilot

ø10

ø12

P, E port size (One-touch fittings) Symbol P, E port SY5000 SY7000

•

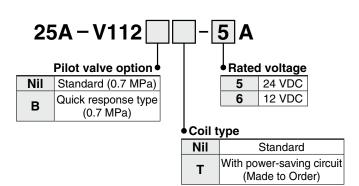
.

25A-SY5000/7000 Series **Valve Replacement Parts**

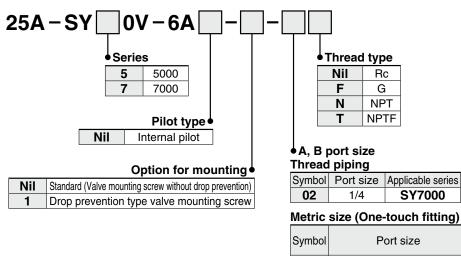
Pilot cover

25A-SY50V-25A

How to Order Pilot Valves



How to Order Port Block Assembly



Symbol	Port size	Applicable series		
Symbol	Foll size	SY5000	SY7000	
C4	ø4	•	—	
C6	ø6		•	
C8	ø8			
C10	ø10	—		
C12	ø12	_		

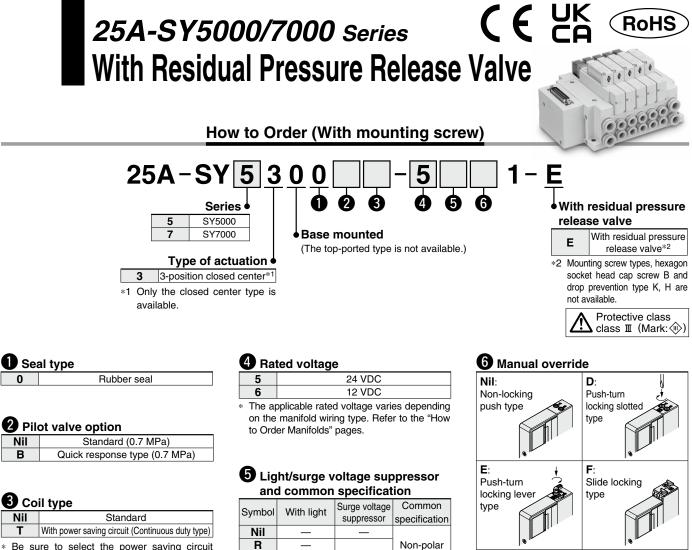
SY7000

Body Cover Assembly

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

		Part no.		
Series		Standard (Valve mounting screw without drop prevention)	Drop prevention type valve mounting screw	
CVE000	Internal pilot	25A-SY50V-16A	25A-SY50V-16A-1	
SY5000	External pilot	25A-SY50V-16AR	25A-SY50V-16AR-1	
SV7000	Internal pilot	25A-SY70V-16A	25A-SY70V-16A-1	
SY7000	External pilot	25A-SY70V-16AR	25A-SY70V-16AR-1	

* The part number is not indicated on the product.



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

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

Positive

common

Negative

common

U

S

Ζ

NS

NZ

•

•

•

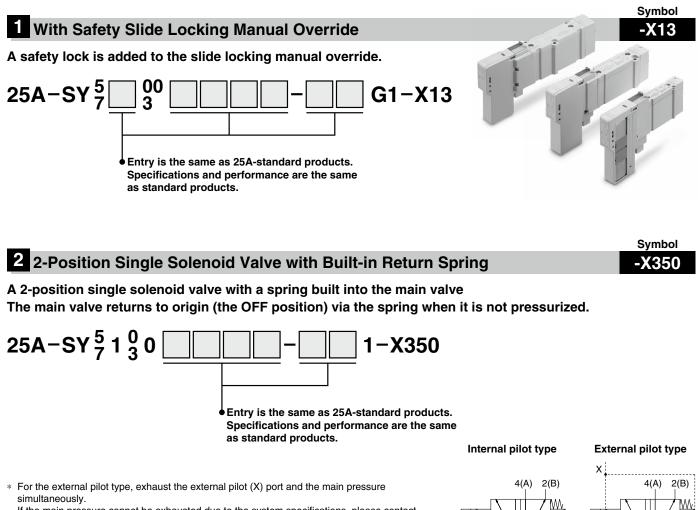
Table 1. Valve mounting screw

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

25A-SY5000/7000 Series Made to Order

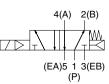
Please contact SMC for detailed dimensions, specifications, and lead times.

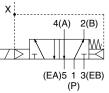


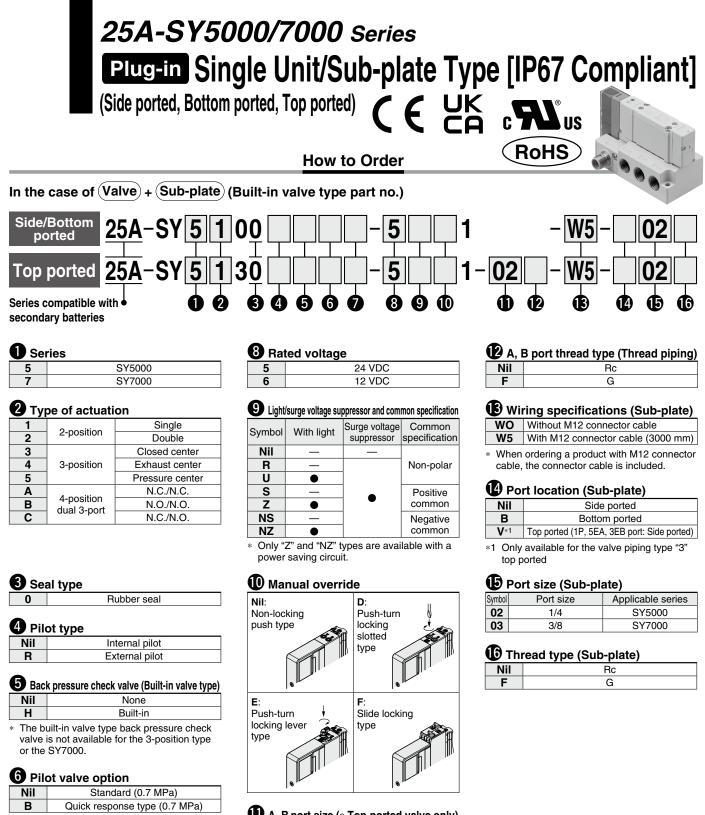


If the main pressure cannot be exhausted due to the system specifications, please contact SMC separately.

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







Coil type

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

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

(1) A, B port size (* Top-ported valve only) Thread piping

	<u> </u>	
Symbol	Port size	Applicable series
02	1/4	SY7000

/letr	ic size	(One-to	uch fitting)
		_	

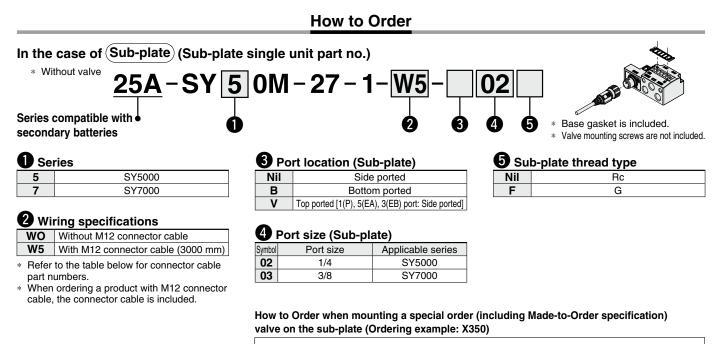
Symbol	A, B port	SY5000	SY7000
C4	ø4	•	—
C6	ø6	•	
C8	ø8	•	
C10 C12	ø10	—	
C12	ø12	—	

60

- * The 25A- series specifications and dimensions are the same as those of the standard model.
- * When mounting a special order (including Made-to-Order specification) valve or manifold option (spacer, etc.) on the sub-plate, add the valve part number or spacer part number under the sub-plate part number to place an order. For details, refer to the ordering example on page 61.

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25A-SY5000/7000 Series

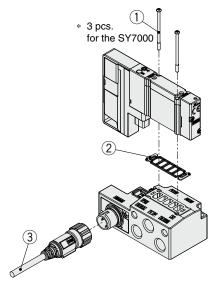


25A-SY50M-27-1-W5-02 ······ 1 set (Sub-plate single unit part no.) *25A-SY5100-5U1-X350 ······· 1 set (Built-in return spring specification)

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

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

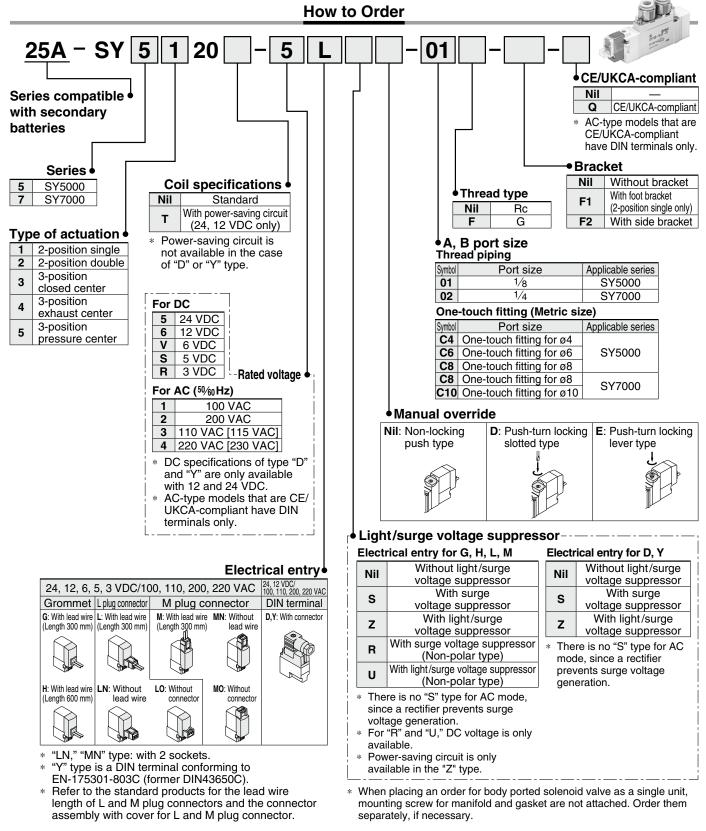
Sub-plate Parts Nos.



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



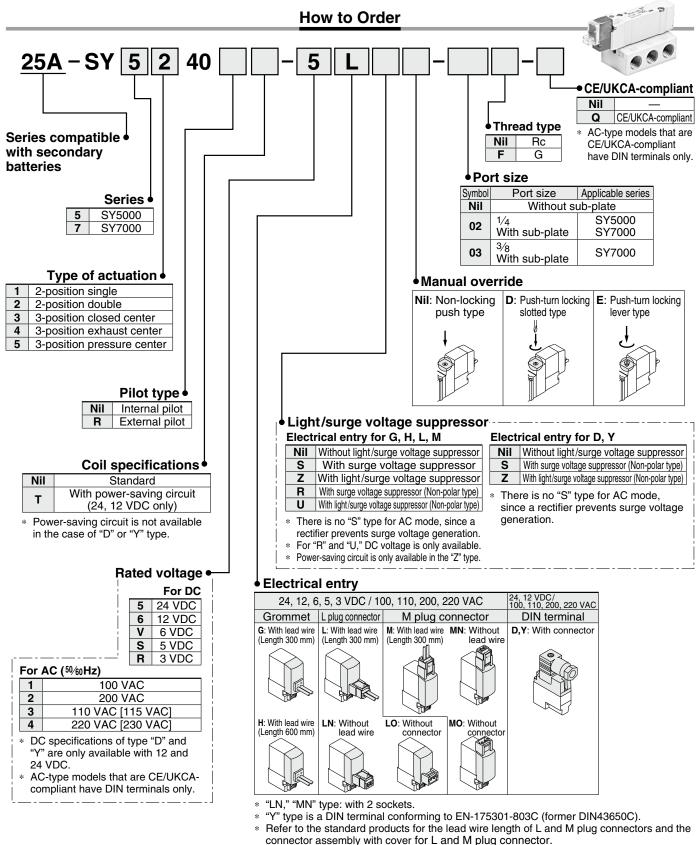
5-Port Solenoid Valve Body Ported/Single Unit € € ЦК 25A-SY5000/7000 Series



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



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

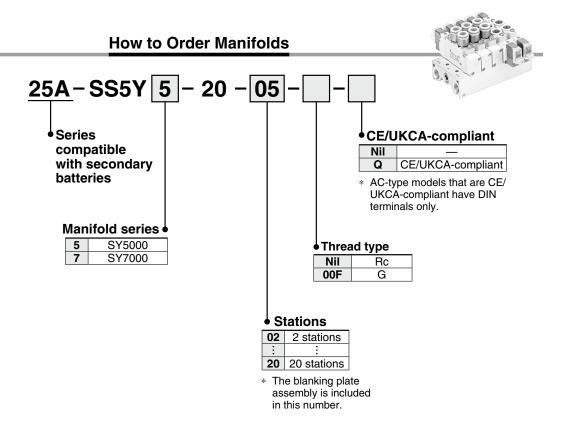


* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.



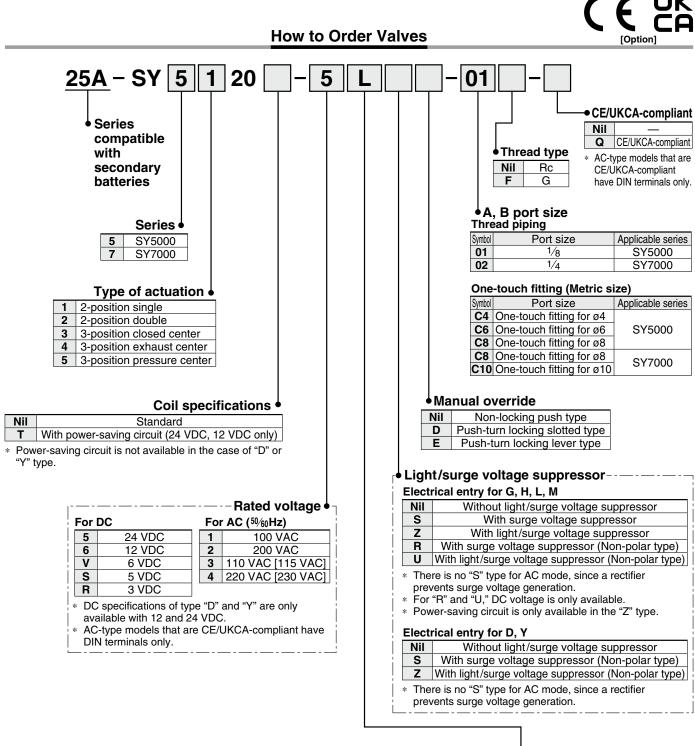
5-Port Solenoid Valve Body Ported Manifold Bar Stock Type/Individual Wiring 25A-SY5000/7000 Series



* 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 71.

For details, refer to the Web Catalog.

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



		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.

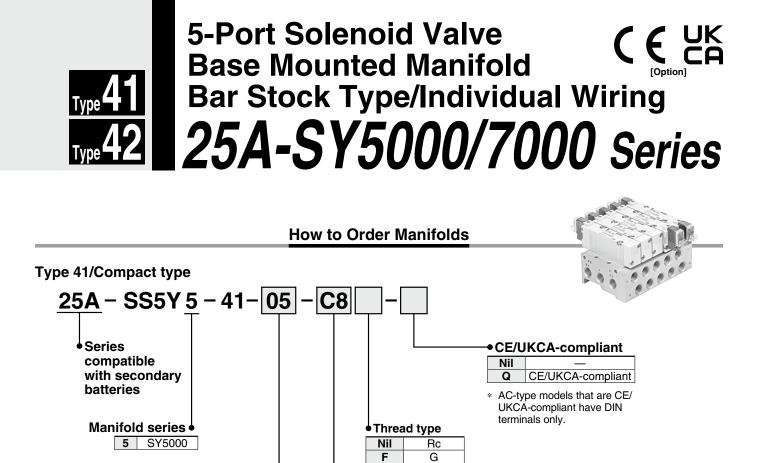
* "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).

* 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.





A, B port size

Port size

1/8

Port size

C6 One-touch fitting for ø6

C8 One-touch fitting for ø8

One-touch fitting (Metric size)

Applicable series

SY5000

Applicable series

SY5000

One-touch fitting (Inch size)

Applicable series

SY5000

Port size

N7 One-touch fitting for ø1/4'

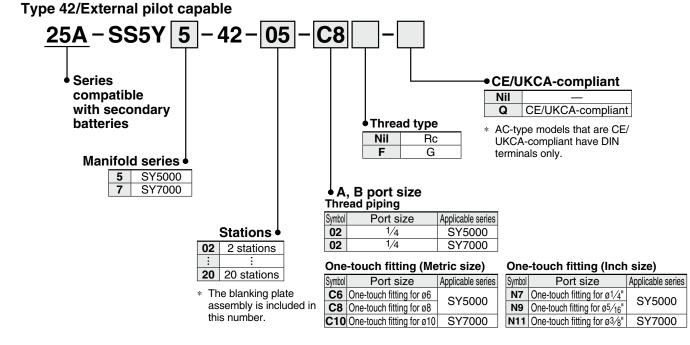
N9 One-touch fitting for ø5/16"

Symbol

Thread piping

Symbol 01

Symbol



Stations

2 stations

The blanking plate assembly is included in

20 20 stations

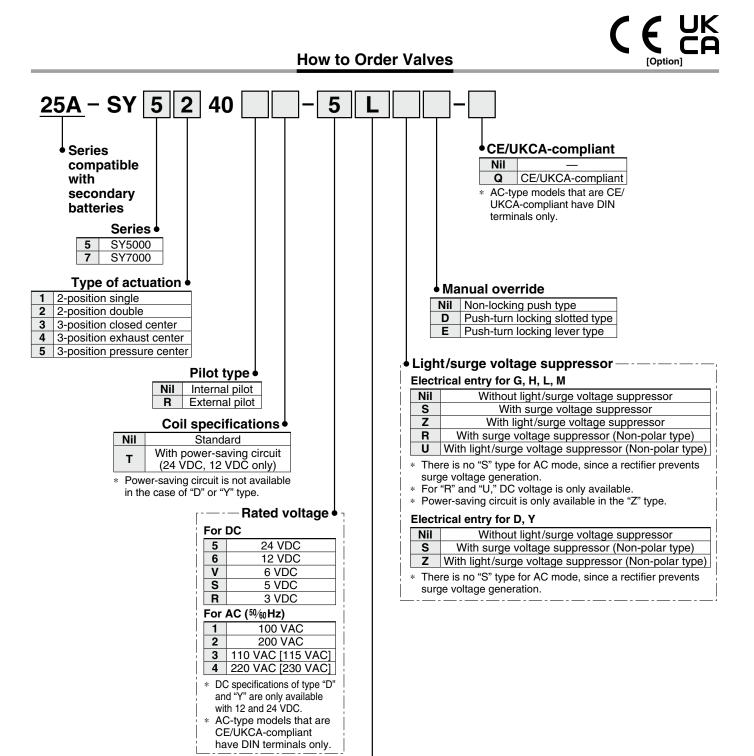
this number.

02

* 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 71.



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



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.

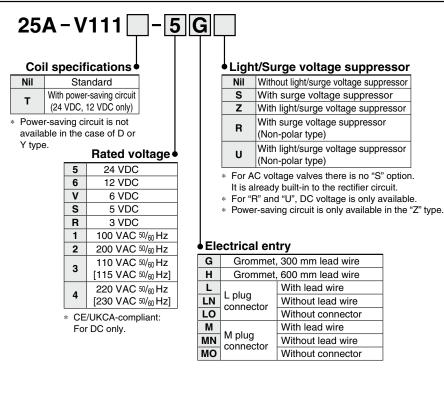
 The 25A- series specifications and dimensions are the same as those of the standard model.

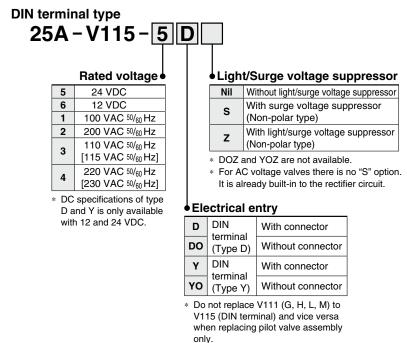
For details, refer to the Web Catalog.



25A-SY5000/7000 Series

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





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

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

One-touch Fittings Part Nos. for Body Ported

Port size			25A-SY5000	25A-SY7000
Cylinder port	Metric size	ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4	
		ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6	
		ø8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8	90-VVQ2000-51A-C8
		ø10 One-touch fitting (Straight type)		90-VVQ2000-51A-C10

Gasket Assembly Part 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-SY5000

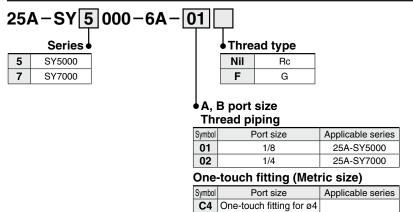
25A-SY7000

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

Bracket Assembly Part Nos.

Description	Part no.
Bracket (For F1)	25A-SX ⁵ 000-16-2A (With mounting screw)
Bracket (For F2)	25A-SX7000-16-1A (With mounting screw)

Port Block Assembly Part Nos.



C6 One-touch fitting for ø6
C8 One-touch fitting for ø8
C8 One-touch fitting for ø8

C10 One-touch fitting for ø10

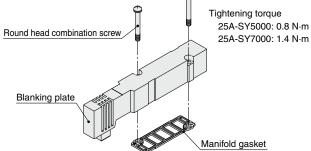
25A-SY5000/7000 Series

Manifold Options

Blanking plate assembly

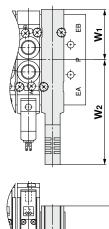
(Mounting screw: 2 pcs., with gasket)

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



Dimensions

Manifold type/For type 20



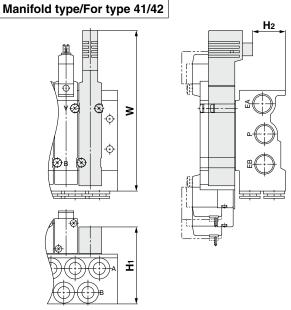
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	·	ਜ਼ੂ ਸ

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

How to Order 25A - SY 5 000 - 26 - 1A • Series 5 SY5000 7 SY7000

A Caution

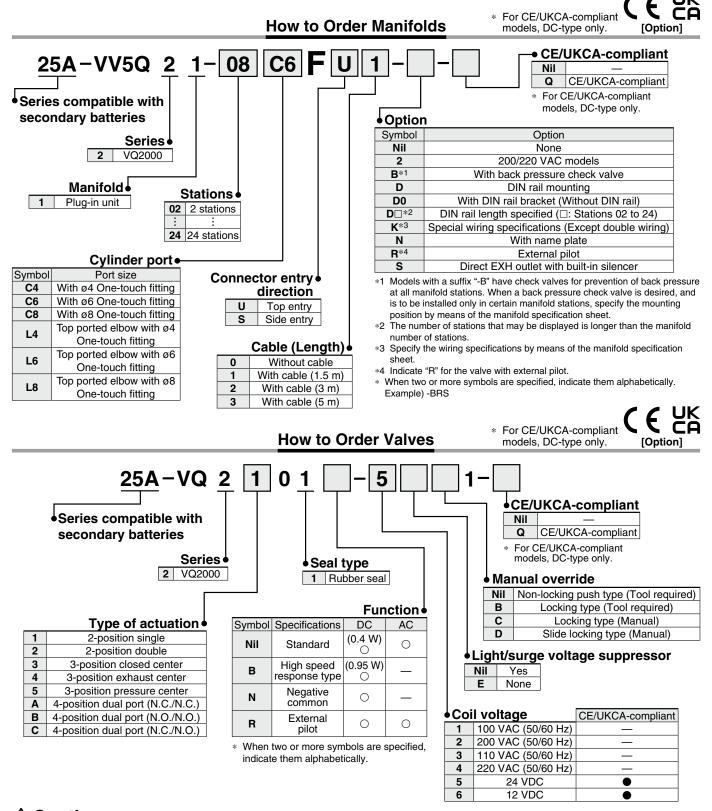
When mounted on a type 20 manifold, only the P port is plugged. In addition, it cannot be used for the type 20 CE/UKCA-compliant manifold.



Dimensions [mm]					
Series	Manifold type	w	H1	H2	
05 A 01/5000	Type 41	106.4	51	21.7	
25A-SY5000	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



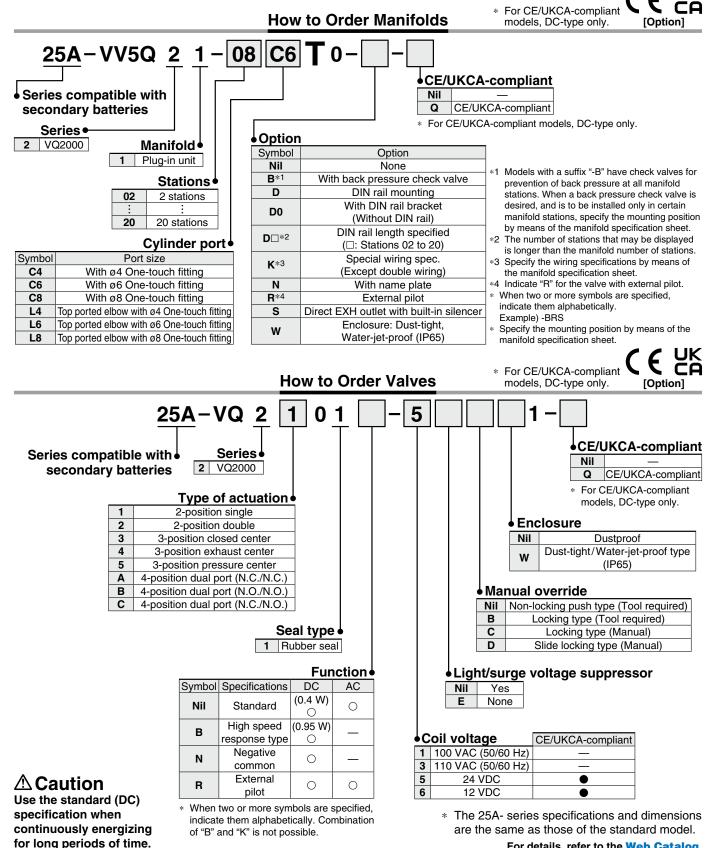
▲ Caution Use the standard (DC) specification when continuously energizing for long periods of time.

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

For details, refer to the Web Catalog.

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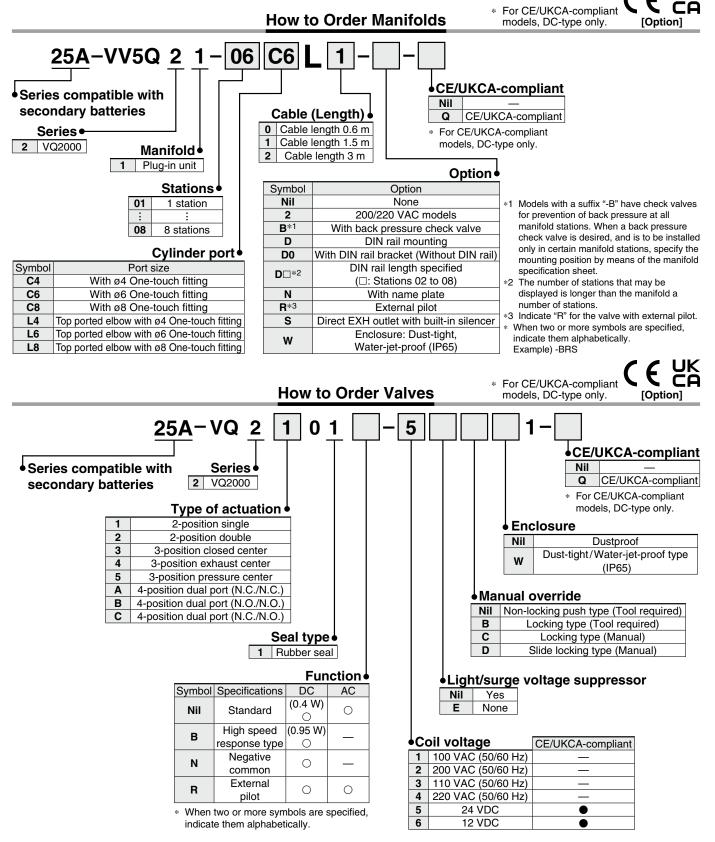
Plug-in Unit/Base Mounted T Kit (Terminal block box kit) 25A-VQ2000 Series



For details, refer to the Web Catalog.

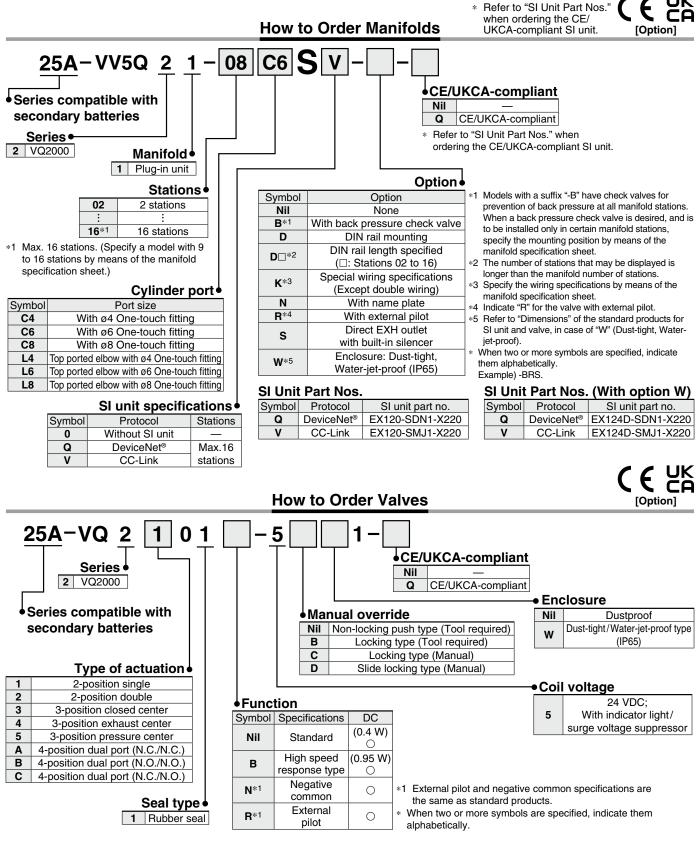
74

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



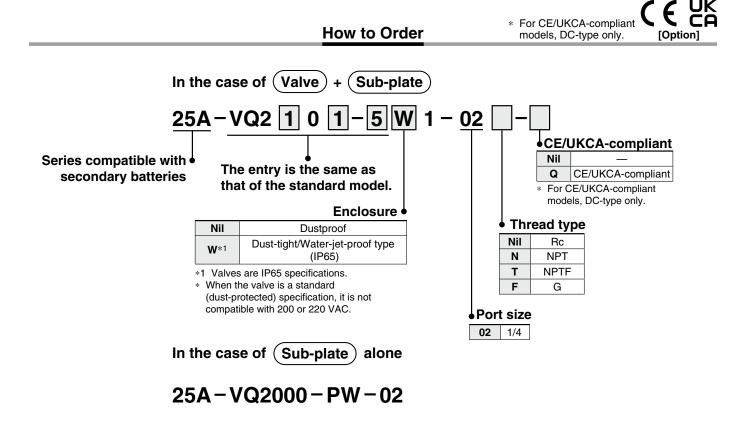
* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalog. 多SMC

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. For details, refer to the Web Catalog.

Sub-plate Single Unit 25A-VQ2000 Series



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

For details, refer to the Web Catalog.

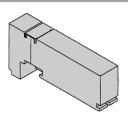
25A-VQ2000 Series

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.

For details, refer to the Web Catalog.

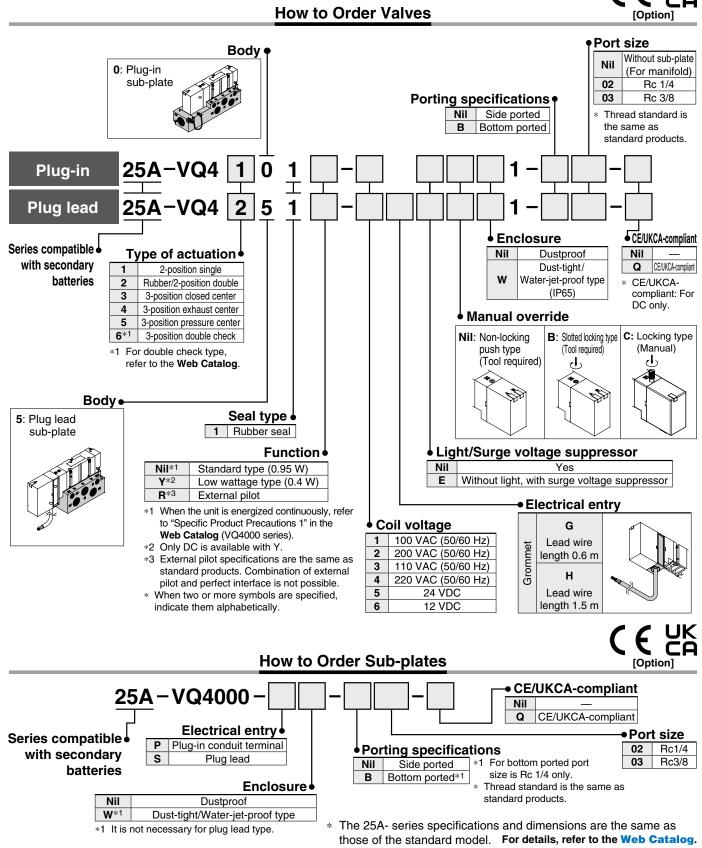
SI Unit Part Nos.

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

One-touch Fittings Part Nos.

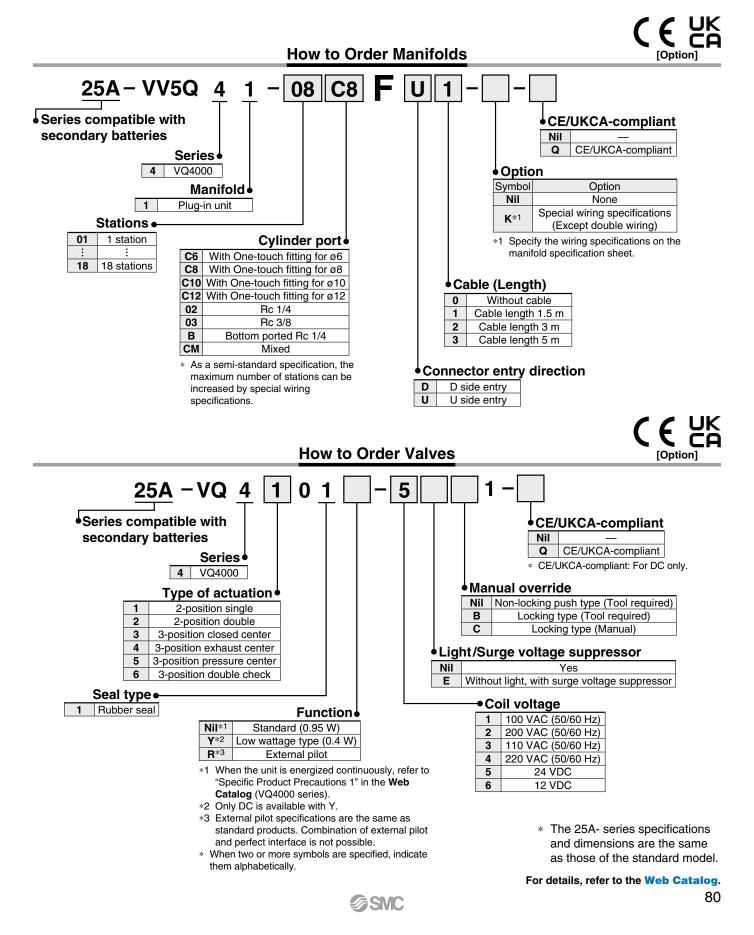
	Port size		One-touch fitting part no.
		ø4 One-touch fitting (Straight type)	90-VVQ1000-51A-C4
Cylinder port	Metric size	ø6 One-touch fitting (Straight type)	90-VVQ1000-51A-C6
		ø8 One-touch fitting (Straight type)	90-VVQ1000-51A-C8
1 (P), 3 (R) port	Metric size	ø10 One-touch fitting (Straight type)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

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

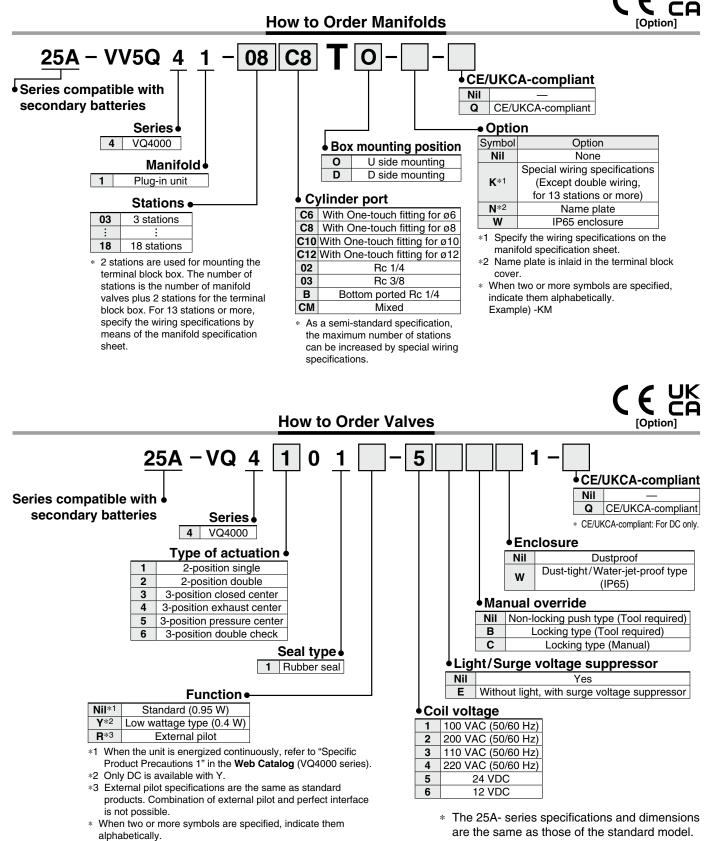


SMC

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



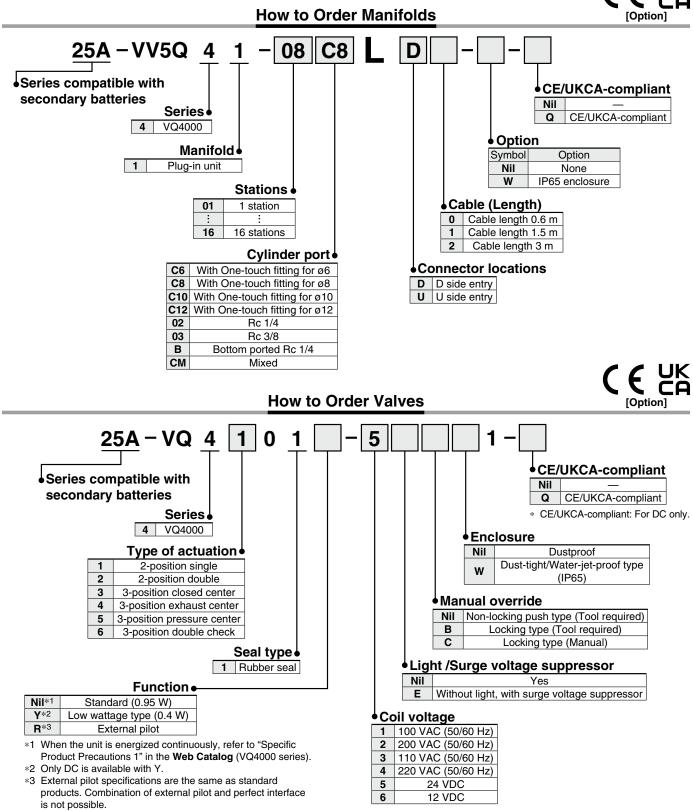
Plug-in Unit/Base Mounted T Kit (Terminal block box kit) 25A-VQ4000 Series



For details, refer to the Web Catalog.

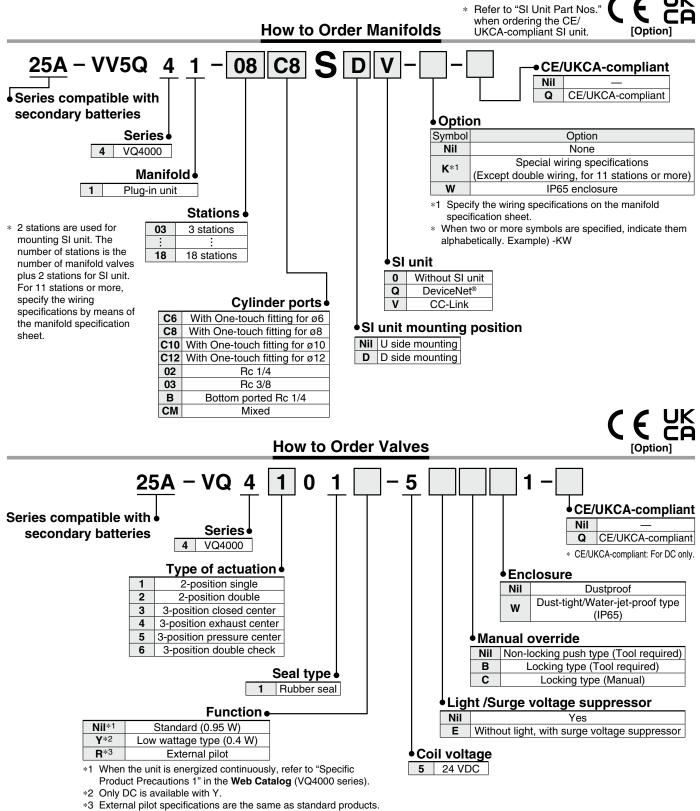
SMC

Plug-in Unit/Base Mounted L Kit (Lead wire cable) 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. For details, refer to the Web Catalog.

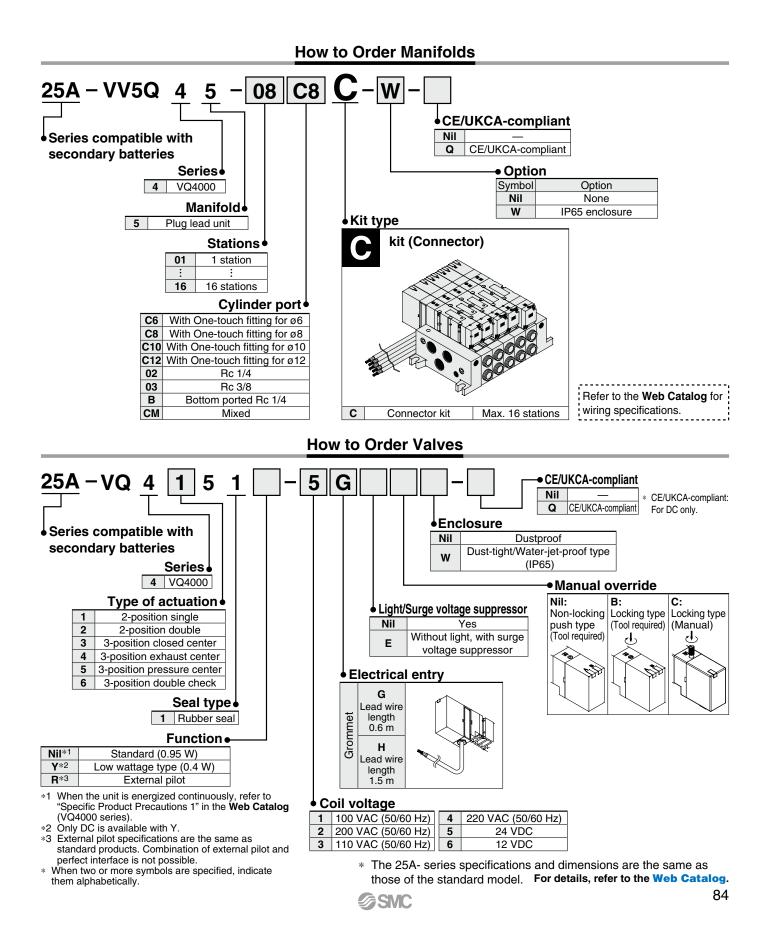
Plug-in Unit/Base Mounted S Kit (Serial transmission unit) 25A-VQ4000 Series



- Combination of external pilot and perfect interface is not possible.
- alphabetically.
- * The 25A- series specifications and dimensions are the same as those of the standard model.



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



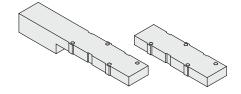
25A-VQ4000 Series

Manifold Options

Blanking plate assembly

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

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



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

For details, refer to the Web Catalog.

SI Unit Part Nos.

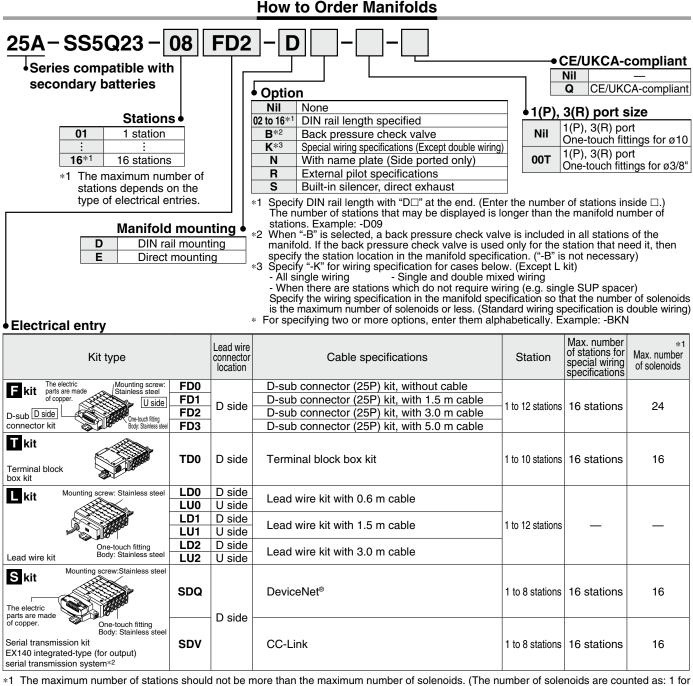
Description	SI unit part no.	Note
	EX124D-SMJ1-X220	CC-Link/D side mounting
EX124 SI unit	EX124D-SDN1-X220	DeviceNet [®] /D side mounting
EX124 SI UIII	EX124U-SMJ1-X220	CC-Link/U side mounting
	EX124U-SDN1-X220	DeviceNet [®] /U side mounting

One-touch Fittings Part Nos.

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



Plug-in Unit 25A-SQ2000 Series



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

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

SI unit part nos.

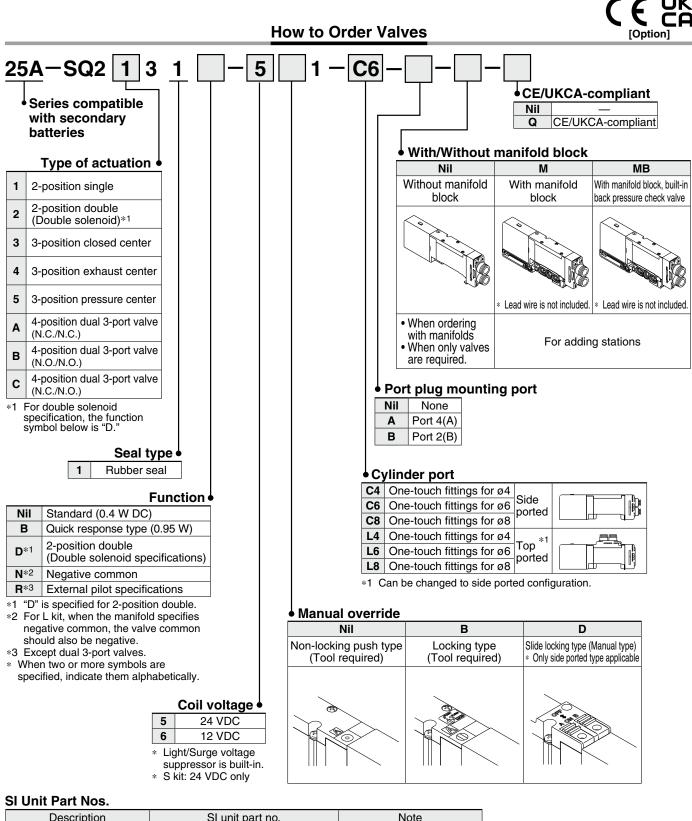
Symbol	Protocol type	SI unit part no.	Page
SDQ	DeviceNet [®]	EX140-SDN1-X220	00
SDV	CC-Link	EX140-SMJ1-X220	88

Blanking plate assembly

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



Plug-in Unit 25A-SQ2000 Series



SMC

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

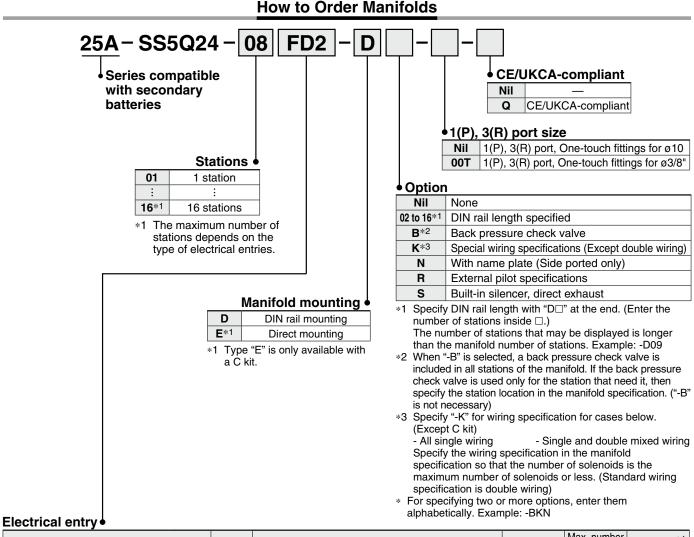
One-touch Fittings Part Nos.

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

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

For details, refer to the Web Catalog. 88

ϵ **Plug Lead Unit** 25A-SQ2000 Series



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

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

Refer to the Web Catalog for manifold spare parts.

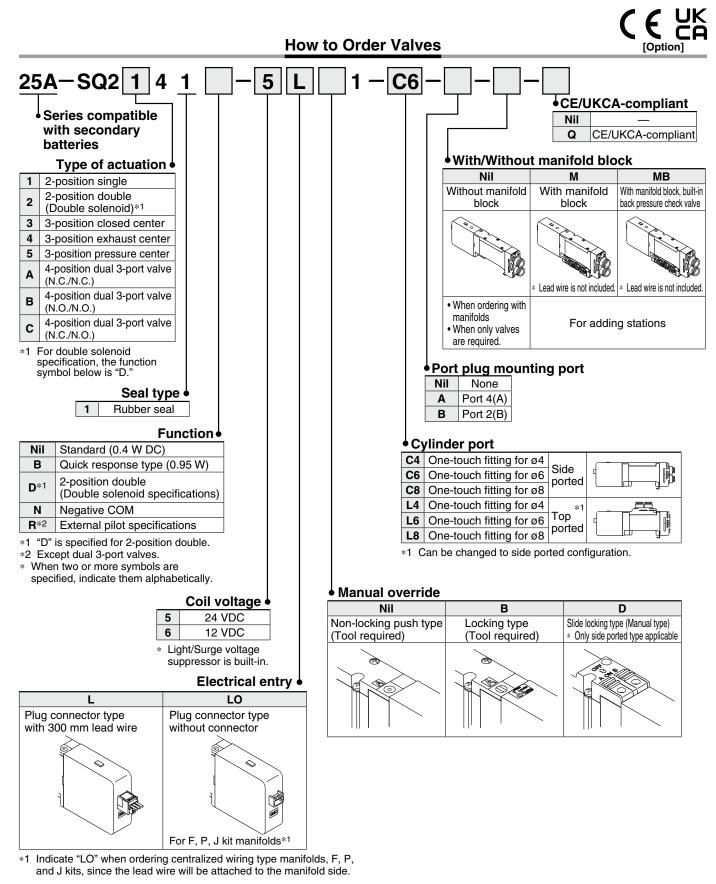
Blanking plate assembly

25A-SSQ2000-10A-4

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



Plug Lead Unit 25A-SQ2000 Series



SMC

One-touch Fittings Part Nos.

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

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

For details, refer to the Web Catalog.

Base Mounted

Plug Lead Unit

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

How to Order Valves <u>25A</u>-VQZ 1 1 5 1-01 1 5 CE/UKCA-compliant Series compatible with secondary Nil CE/UKCA-compliant batteries Q CE/UKCA-compliant: For DC only. Series • 1 VQZ1000 body width 10 mm Port size Symbol Port size Type of actuation Without sub-plate Nil 1 2-position single 01 Rc1/8 2 2-position double 3 3-position closed center Manual override 4 3-position exhaust center 5 3-position pressure center Nil: Non-locking B: Locking type 8 3-port for mixture mounting N.C. push type (Tool required) 9 3-port for mixture mounting N.O. (Tool required) Body type 5 Base mounted Electrical entry Seal type 1 Rubber seal G: Grommet L: L-type LO: L-type M: M-type MO: M-type (DC speciplug plug plug plug fication) connector connector connector connector with lead without with lead without Function wire connector wire connector Specifications Symbol DC AC With light/ With light/ With light/ With light/ (0.35 W) Nil Standard Ο surge voltage surge voltage surge voltage surge voltage (0.9 W) в High speed response type suppressor suppressor suppressor suppressor R 0 0 External pilot type High speed response/External pilot type $|_{\bigcirc}^{(0.9 \overline{W})}$ BR **Coil voltage** ė 1 100 VAC (50/60 Hz) 200 VAC (50/60 Hz) 2 3 110 VAC [115 VAC] (50/60 Hz) 4 220 VAC [230 VAC] (50/60 Hz)

\land Caution

Use standard (DC) specification for continuous duty.

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

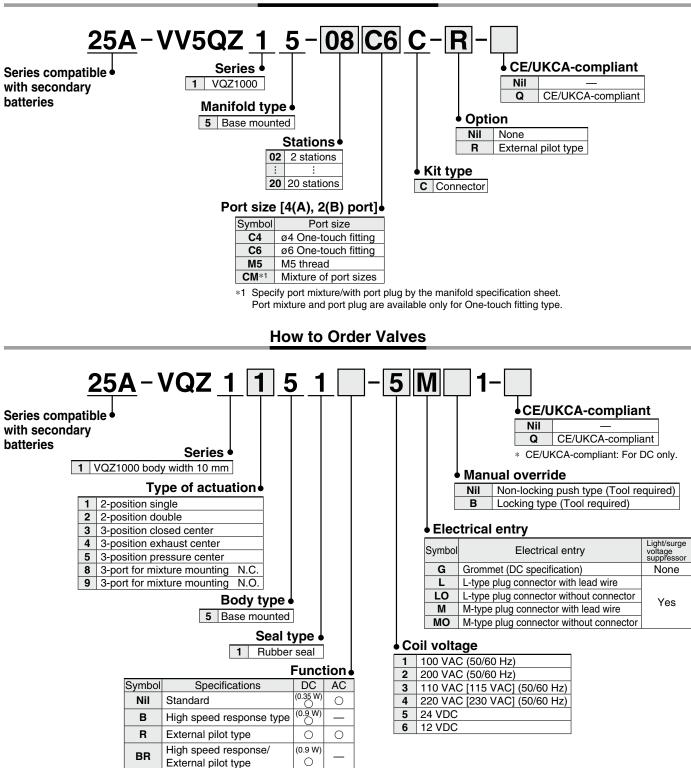


5 24 VDC 6 12 VDC **Base Mounted**

Plug Lead Unit

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

How to Order Manifolds



Caution Use standard (DC) specification for continuous duty.

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

92



Body Ported

Plug Lead Unit

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

How to Order Valves 1-C6-25A-VQZ 1 1 2 1 M 5 CE/UKCA-compliant Series Nil compatible Q CE/UKCA-compliant with secondary CE/UKCA-compliant: For DC only. batteries Option Series • Nil: None F: With bracket 1 VQZ1000 body width 10 mm 2-position single type Type of actuation 1 2-position single 2 2-position double Bracket 3 3-position closed center 4 3-position exhaust center Port size [4(A), 2(B) port] 5 3-position pressure center Symbol Port size 3-port for mixture mounting N.C. 8 C4 ø4 One-touch fitting **9** 3-port for mixture mounting N.O. C6 ø6 One-touch fitting 3-port for mixture mounting is only M5 M5 thread available for port size C4 or C6. Manual override Nil: Non-locking B: Locking type push type (Tool required) (Tool required) Electrical entry G: Grommet L: L-type LO: L-type M: M-type MO: M-type (DC speciplug plug plug plug fication) connector connector connector connector with lead without with lead without connector wire wire connector 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 Rubber seal 1 Function Coil voltage Symbol Specifications DC AC 1 100 VAC (50/60 Hz) (0.35 W) 2 200 VAC (50/60 Hz) Nil Standard Ο 110 VAC [115 VAC] (50/60 Hz) 3 (0.9 W) В High speed response type 220 VAC [230 VAC] (50/60 Hz) 4 5 24 VDC

A Caution

Use standard (DC) specification for continuous duty.

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

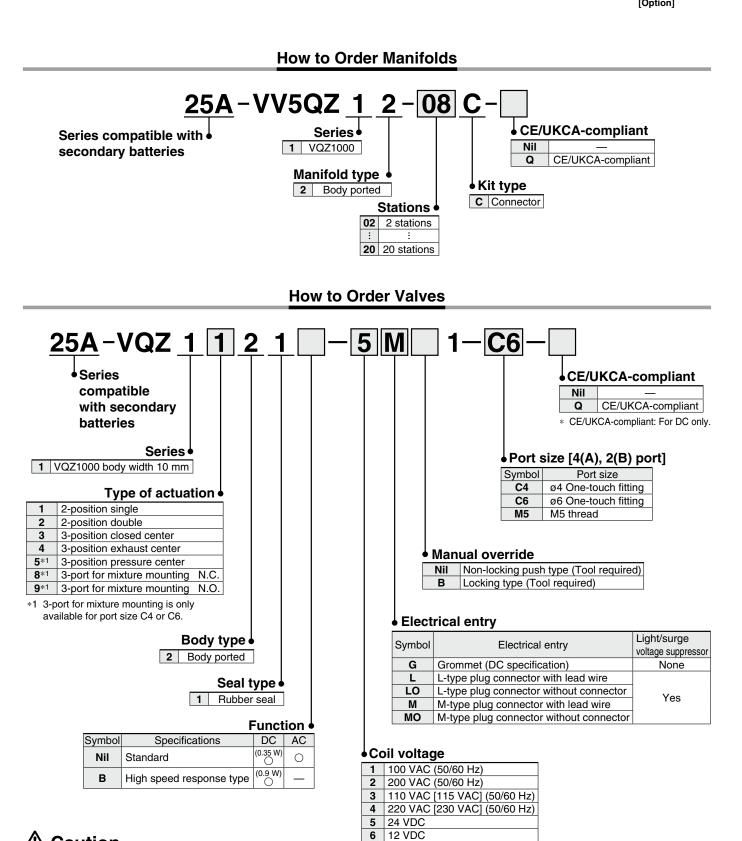
For details, refer to the Web Catalog.



6 12 VDC

Body Ported Plug Lead Unit

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



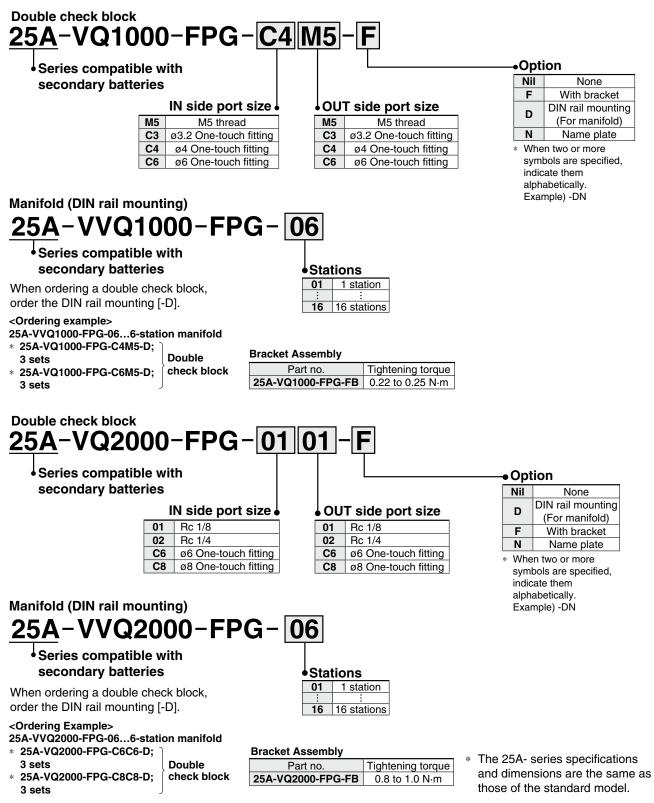
Caution Use standard (DC) specification for continuous duty.

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



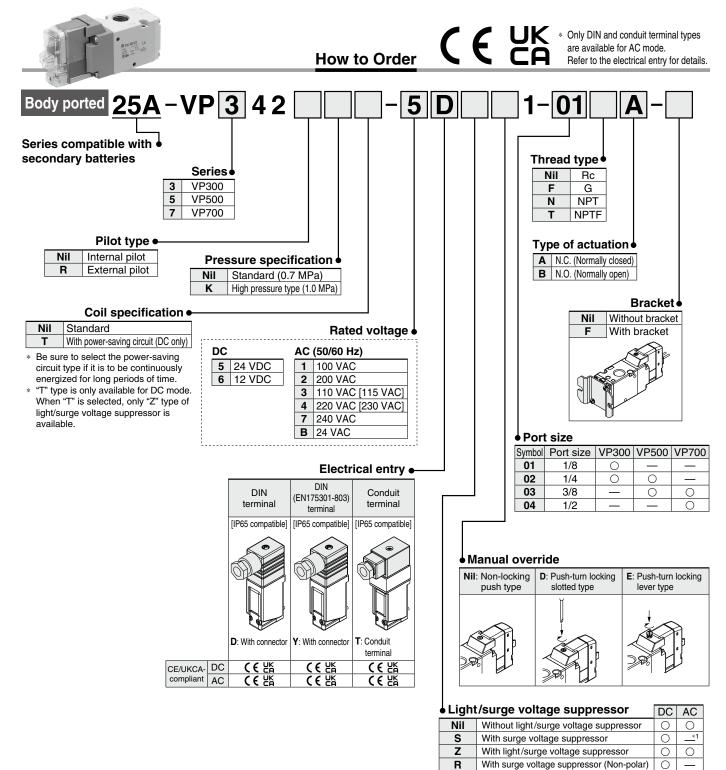
Plug-in Unit Base Mounted 25A-VQ1000/2000 Series Double check block (Separated)

How to Order





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



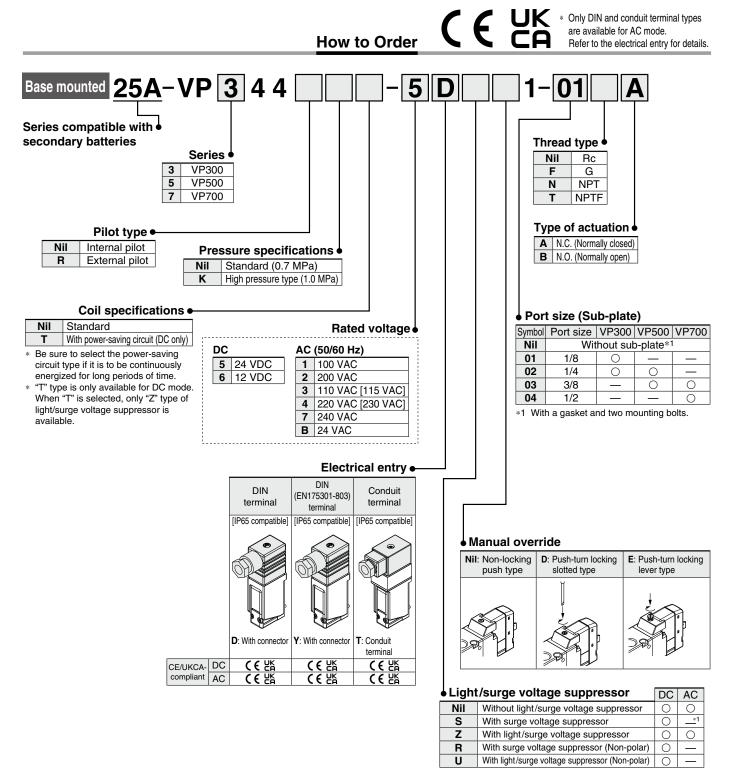
With light/surge voltage suppressor (Non-polar) There is no "S" type for AC mode, since a rectifier prevents *1 surge voltage generation.

U

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

Ο

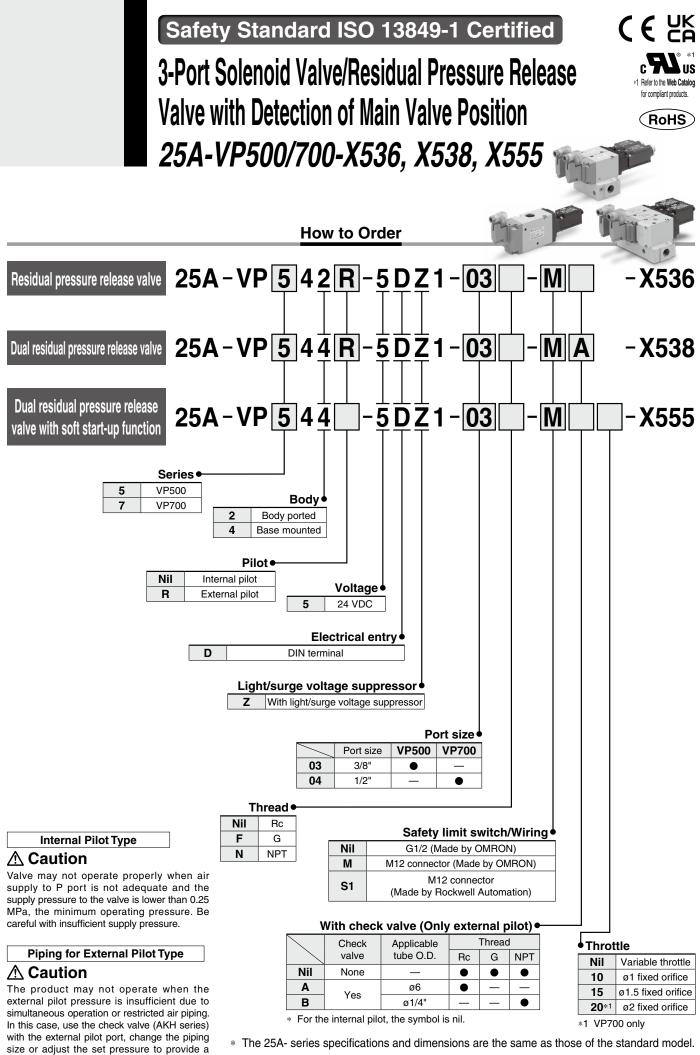
Rubber Seal 3-Port/Pilot Poppet Type 25A-VP344/544/744 Series



*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.





For details, refer to the Web Catalog.

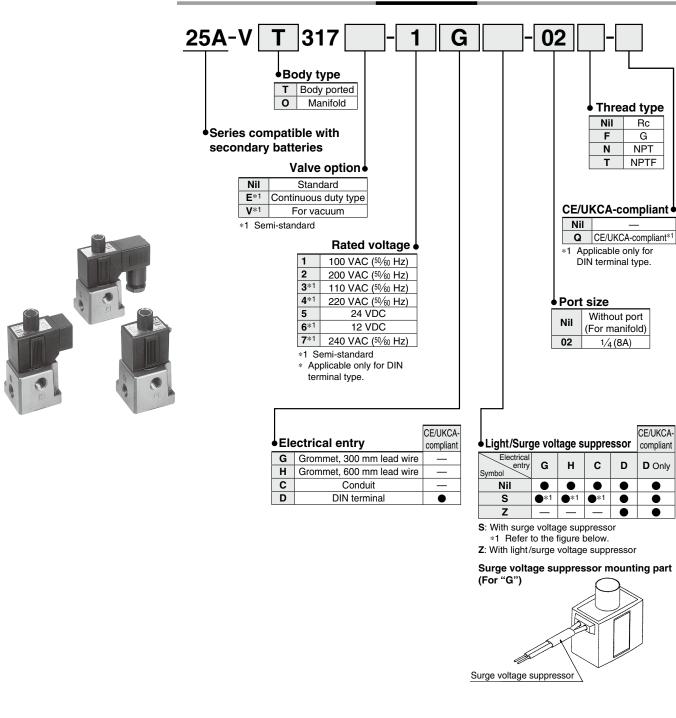


constant pressure of 0.25 MPa or more.

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

How to Order

[Option] * CE/UKCA-compliant: For DIN terminal type.



Manifold

Model Applicable manifold type Accessory VO317(-Q) Common or individual exhaust O-ring (KA00066, 4 pcs.)*1 Path (VT012, 25 C#1, 2 pcs.)	mannora		
	Model	Applicable manifold type	Accessory
Boils (XT012-25C#1, 2 pcs.)	VO317(-Q)	Common or individual exhaust	O-ring (KA00066, 4 pcs.)*1 Bolts (XT012-25C#1, 2 pcs.)

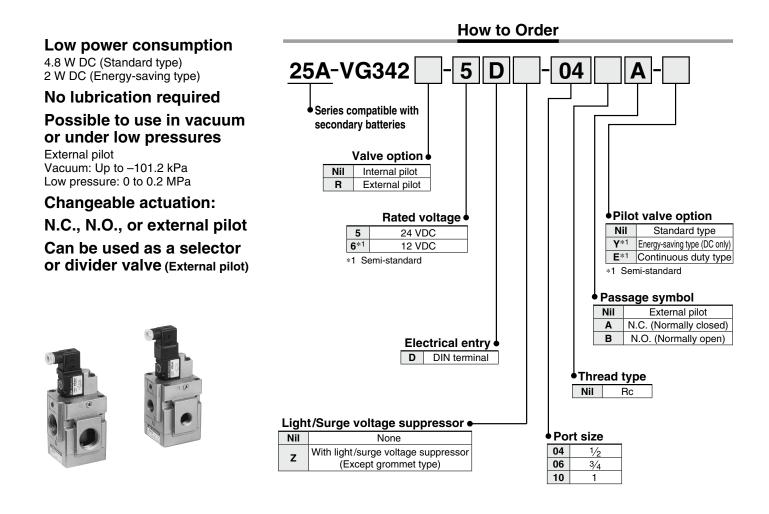
*1 It is not applied to "Continuous duty type." Refer to the accessories in the Web Catalog.

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

SMC



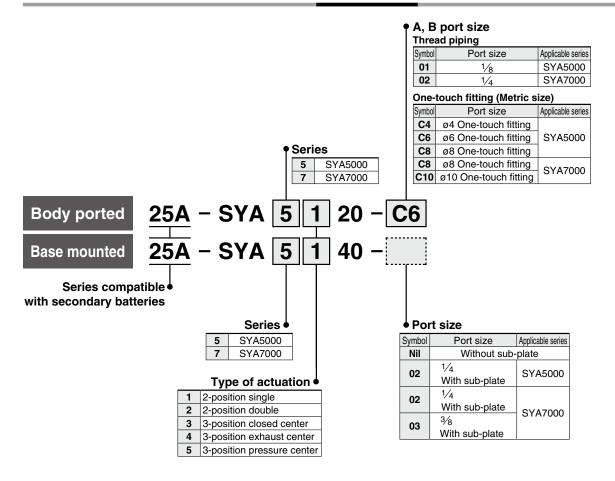
3-Port Solenoid Valve Direct Operated Poppet Type **25A-VG342 Series** Rubber Seal



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

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

How to Order



How to Order Manifold Base

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

25A-SS5YA₇- Fill

Fill the same as $25A-SS5Y_{7}^{5}$.

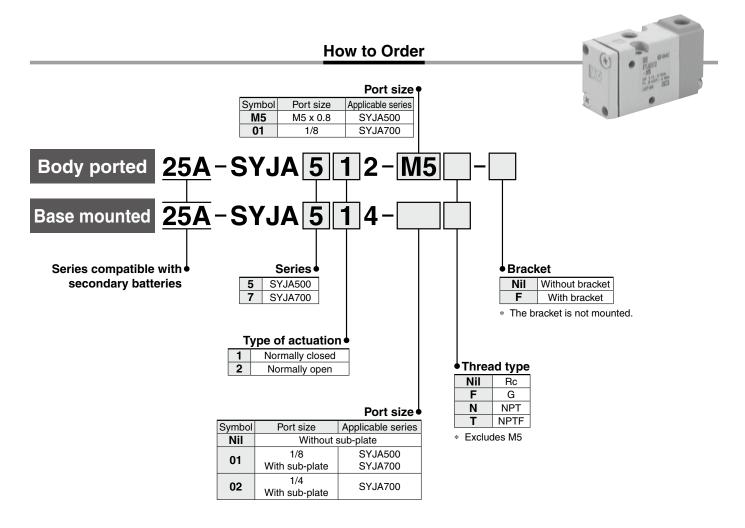
(Refer to pages 65 and 67.)

- * 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 the assembly part no.)
- 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 70.)

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

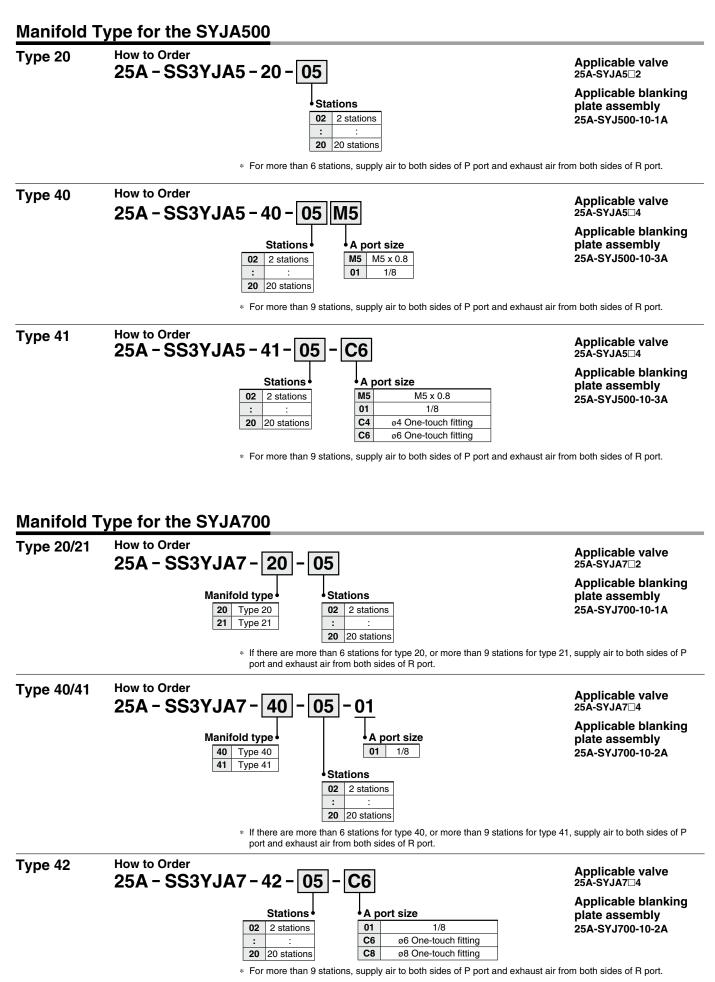


3-Port Air Operated Valve 25A-SYJA500/700 Series



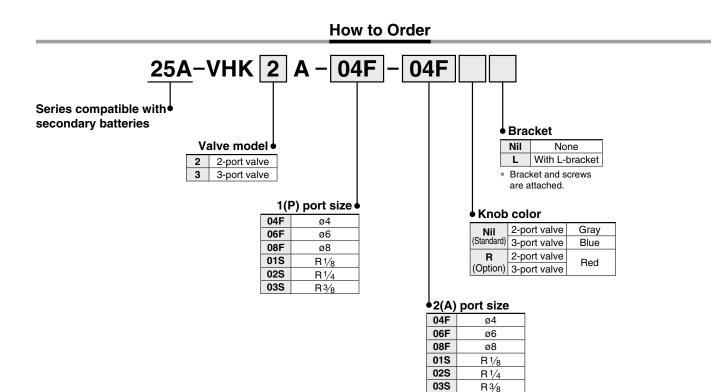
* The 25A- series specifications and dimensions are the same as those of the standard model.

25A-SYJA500/700 Series

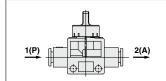


SMC

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

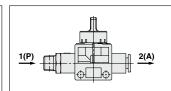


Standard Type

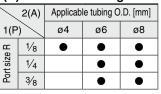


1(P): One-touch fitting 2(A): One-touch fitting

\searrow	2(A)	Applicable tubing O.D. [mm]		
1(P)	ø4	ø6	ø8
Applicable tubing O.D. [mm]	ø4	•		
cable tub D. [mm]	ø6	•	•	
Applic O.	ø8		•	\bullet



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



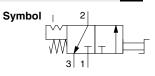
1(P): One-touch fitting 2(A): Male thread

/	-(-)				
	2(A)	P	ort size	R	
1(P)	1⁄8	1⁄4	3⁄8	
Applicable tubing 0.D. [mm]	ø4	•			
able t D. [mr	ø6	•	•	•	
Applic O.	ø8	•	•	•	

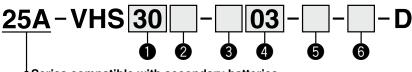
* The 25A- series specifications and dimensions are the same as those of the standard model.



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

	Symbol Description			(
				Body	/ size					
				20	30	40	50			
6				Nil	Single action			•		
2	2 Handle operation W Double action		Double action	•		•				
				+						
_				Nil	Rc*1	•		•		
8		Pij	pe thread type	Ν	NPT	•				
				F	G					
				+						
				01	1/8	•		—	—	
				02	1/4			•	—	
4			Port size	03	3/8			•	—	
9			1 011 3126	04	1/2		-	•	—	
			06	3/4		-	•			
			10	1	—	—	—			
				+			,			
		а	Mounting	Nil	Without mounting option					
_	5	a la	Mounting	В	With bracket					
6	Option			+						
	0	b	Silencer	Nil	Without silencer					
		~		S	With built-in silencer (for EXH port)					
				+						
		с	Handle color	Nil	Red			•		
		-		K	Black					
	-			+				-		
	ard	d Handle material	Ь	Handle material	Nil	Resin	•	•		•
	anc		Μ	Metal						
6	Semi-standard			+						
	<u> </u>	e Flow direction	Nil	Flow direction: Left to right	•	•	•			
	Ň			R	Flow direction: Right to left					
				+						
		f	Pressure unit	Nil	Product label in SI units: MPa		•	•		
				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

Option/Part Nos.

Ontional appoifications			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.

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



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

How to Order 25A-VHS 40 04 A - B Single action Series compatible with Made to order secondary batteries Symbol Description X1 Body: Red Pressure relief 3-port valve Semi-standard specifications Body size • Symbol Description Symbol Nil Thread type 20 κ Handle color: Black 30 Nil Rc R Flow direction: Right \rightarrow Left 40 Ν NPT **Z***1 psi as unit displayed on label 50 F G *1 Only for the NPT thread Port size This product is for overseas use only according to the New Body size Symbol Port size Measurement Act. (The SI unit 20 30 40 50 type is provided for use in Japan.) 01 1/8 • Options 1/4 • 02 • • Symbol Description 03 3/8 • . Nil 04 1/2 • В With bracket 3/4 06 • • 10 1

Handle/Bonnet material

landle/Donnet material					
Symbol	Material				
Α	Flame-resistant PBT				
В	Aluminum				

Option Part Nos.

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

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

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

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

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

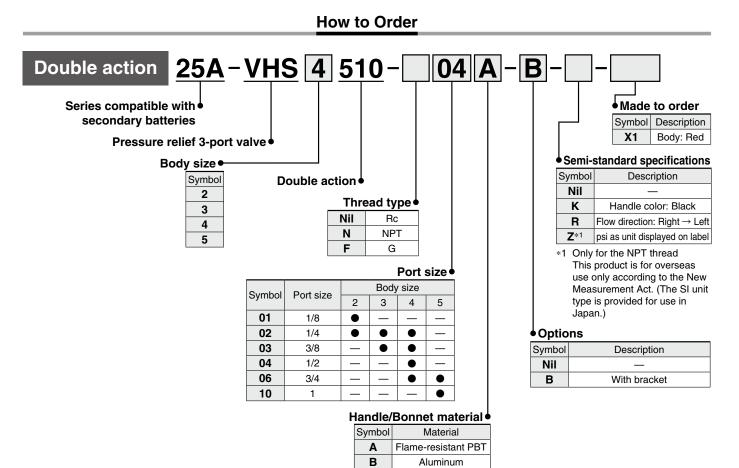
For details, refer to the Web Catalog.

RoHS

5 the de

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.

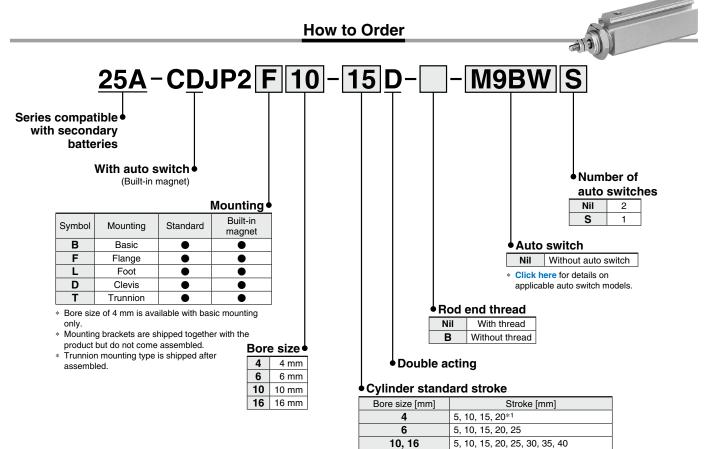
OSHA standard (Occupational Safety and Health Administration Department of Labor)

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 either be locked of labelled with a warning tag.

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

Pin Cylinder: Double Acting, Single Rod 25A-CJP2 Series Ø4, Ø6, Ø10, Ø16



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

Built-in Magnet Cylinder Model

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

Mounting Bracket Part Nos. for the 25A- Series

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

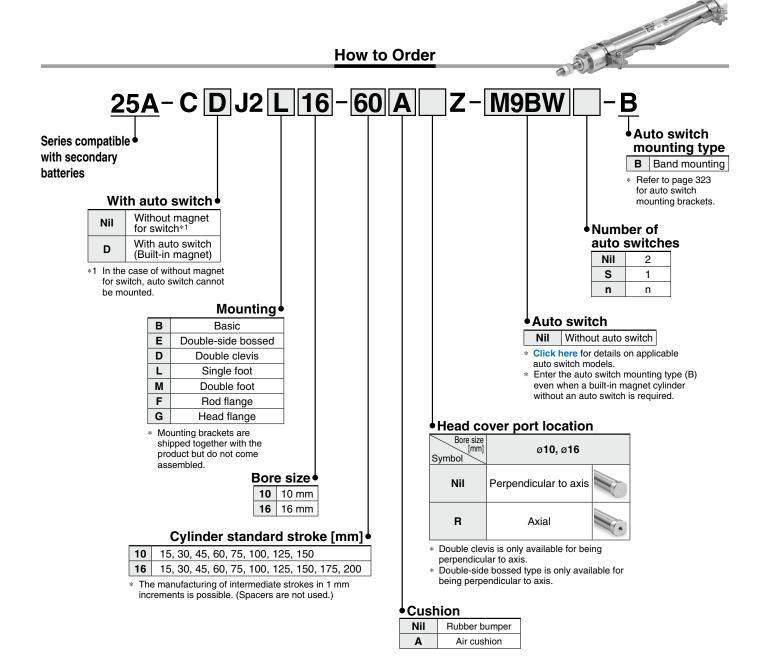
Accessory Bracket Part Nos. for the 25A- Series

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

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



Air Cylinder: Standard Type Double Acting, Single Rod 25A-CJ2 Series (RoHS) Ø10, Ø16

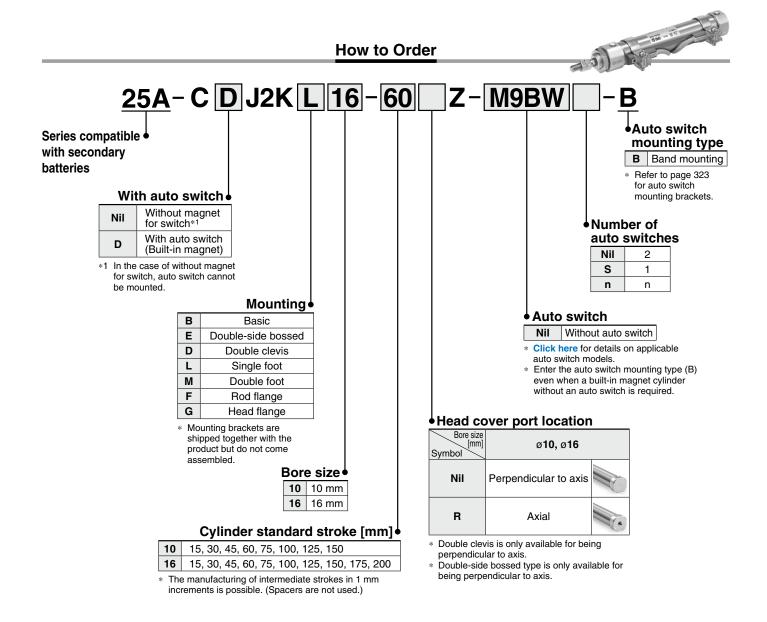


Mounting Bracket Part Nos. for the 25A- Series

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

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

Air Cylinder: Non-rotating Rod Type Double Acting, Single Rod 25A-CJ2K Series Ø10, Ø16

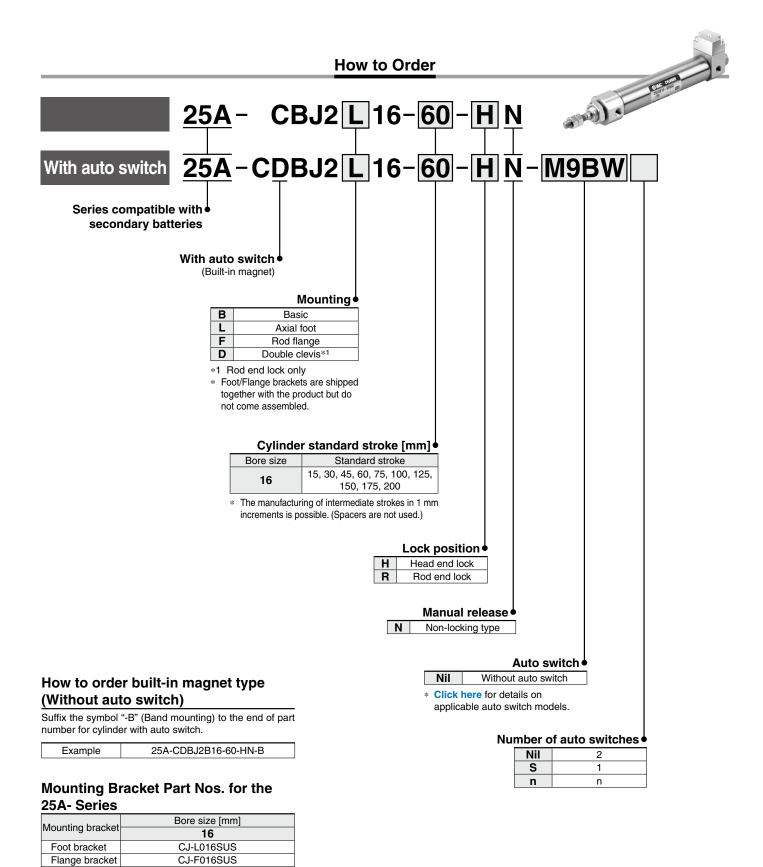


Mounting Bracket Part Nos. for the 25A- Series

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

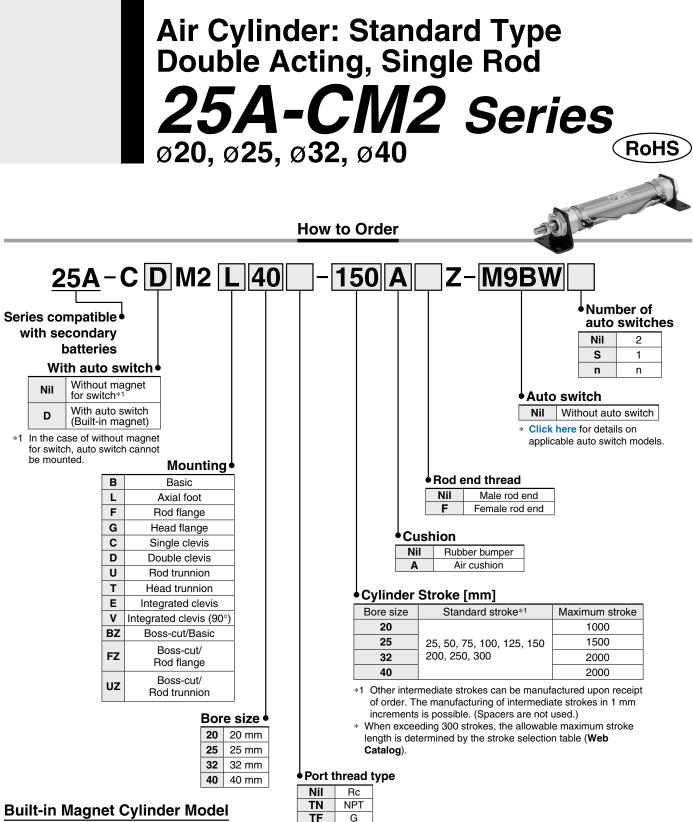
 The 25A- series specifications and dimensions are the same as those of the standard model. (Excluding the foot and flange plate thickness)

Air Cylinder: With End Lock **25A-CBJ2 Series** Ø16



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

SMC



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

Mounting Bracket Part Nos. for the 25A- Series

Mounting 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-L032B-XB12		CM-L040B-XB12	2 foot brackets, 1 mounting nut			
Flange	1	CM-F020BSUS	CM-F032BSUS		CM-F040BSUS	1 flange			
Single clevis*2	1	CM-C020B	CM-C032B		CM-C040B	1 single clevis, 3 liners			
Double clevis ^{*2*3} (with pin)	1	25A-CM-D020B	25A-CM-D032B		25A-CM-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-T032B		25-CM-T040B	1 trunnion, 1 trunnion nut	

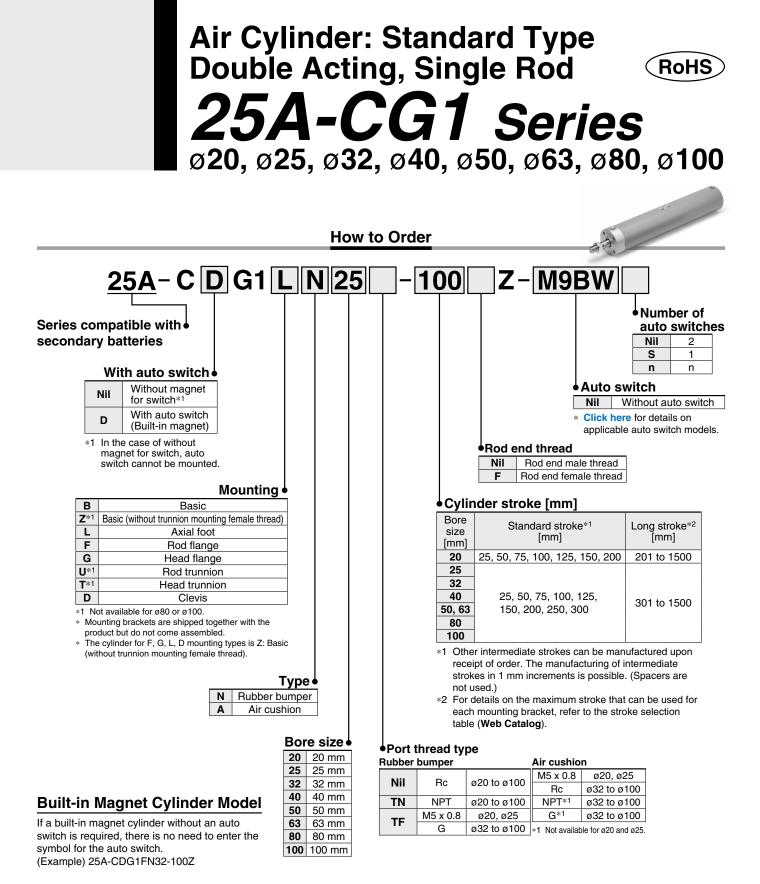
*1 Order 2 foot brackets for each cylinder unit.

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

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

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





Mounting Bracket Part Nos. for the 25A- Series * The rod end brackets are the same as those of the CG5-S series. Refer to the Web Catalog for details.

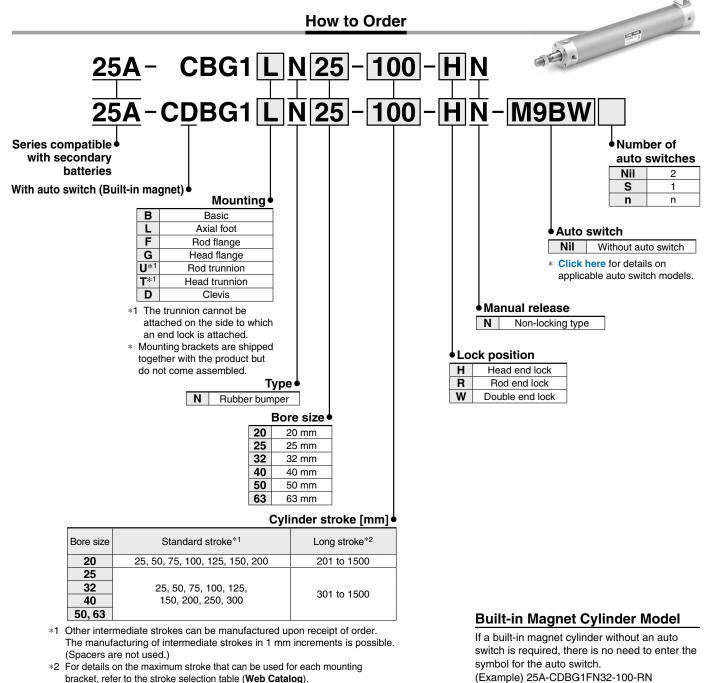
Mounting	Min.	Bore size [mm]								Description
bracket	order	20	25	32	40	50	63	80	100	Description
Foot	2*1	90-CG-L020	90-CG-L025	90-CG-L032	90-CG-L040	90-CG-L050	25-CG-L063	25-CG-L080	25-CG-L100	Foot x 2, Mounting bolt x 8
Flange	1	90-CG-F020	90-CG-F025	90-CG-F032	90-CG-F040	90-CG-F050	25-CG-F063	25-CG-F080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

*1 Order two foot brackets per cylinder.

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



Air Cylinder: With End Lock RoHS **25A-CBG1** Series ø20, ø25, ø32, ø40, ø50, ø63



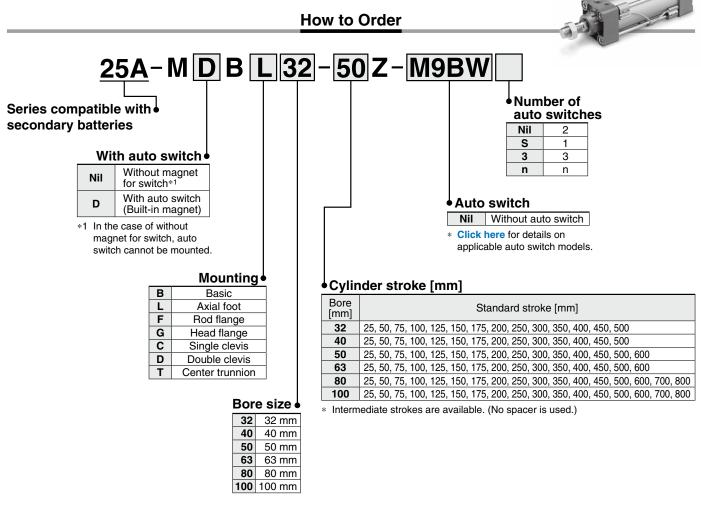
bracket, refer to the stroke selection table (Web Catalog).

Mounting	Min.	Bore size [mm]						Description		
bracket	order	20	25	32	40	50	63	Description		
Foot	2*1	90-CG-L020	90-CG-L025	90-CG-L032	90-CG-L040	90-CG-L050	25-CG-L063	Foot x 2, Mounting bolt x 8		
Flange	1	90-CG-F020	90-CG-F025	90-CG-F032	90-CG-F040	90-CG-F050	25-CG-F063	Flange x 1, Mounting bolt x 4		
Trunnion pin	1	25-CG-T020	25-CG-T025	25-CG-T032	25-CG-T040	25-CG-T050	25-00-1063	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	25-03-0063	Clevis x 1, Mounting bolt x 4, Clevis pin x 1, Retaining ring x 2		
Pivot bracket	1	25-CG-020-24A	25-CG-025-24A	25-CG-032-24A	25-CG-040-24A	25-CG-050-24A	25-CG-063-24A	Pivot bracket x 1		

*1 Order two foot brackets per cylinder. * The 25A- series specifications and dimensions (excluding the cap) are the same as those of the standard model. For details, refer to the Web Catalog.



Air Cylinder: Single Rod **25A-MB** Series $_{\emptyset 32, \ \emptyset 40, \ \emptyset 50, \ \emptyset 63, \ \emptyset 80, \ \emptyset 100}$



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-MDBB40-100Z * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

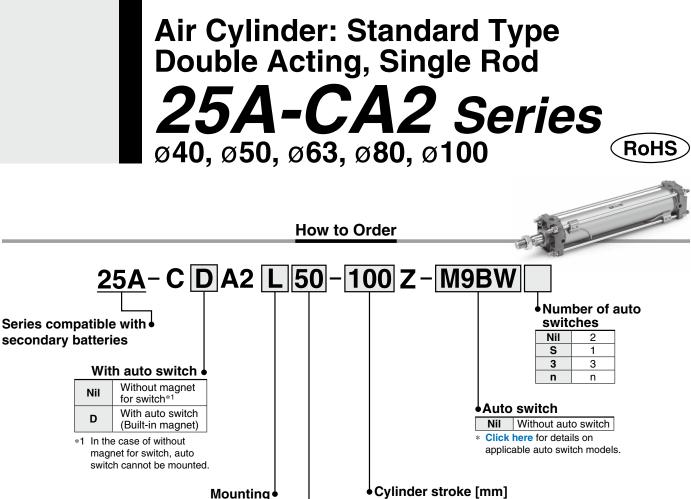
RoHS

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.



40

50, 63

80, 100

upon receipt of order.

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

Bore size

40 mm						
50 mm						
63 mm						
80 mm						
100 mm						

Built-in Magnet Cylinder Model

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

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

25, 50, 75, 100, 125, 150, 175, 200, 250,

25, 50, 75, 100, 125, 150, 175, 200, 250,

25, 50, 75, 100, 125, 150, 175, 200, 250,

300, 350, 400, 450, 500, 600, 700

Intermediate strokes not listed above are produced

300, 350, 400, 450, 500

300, 350, 400, 500, 600

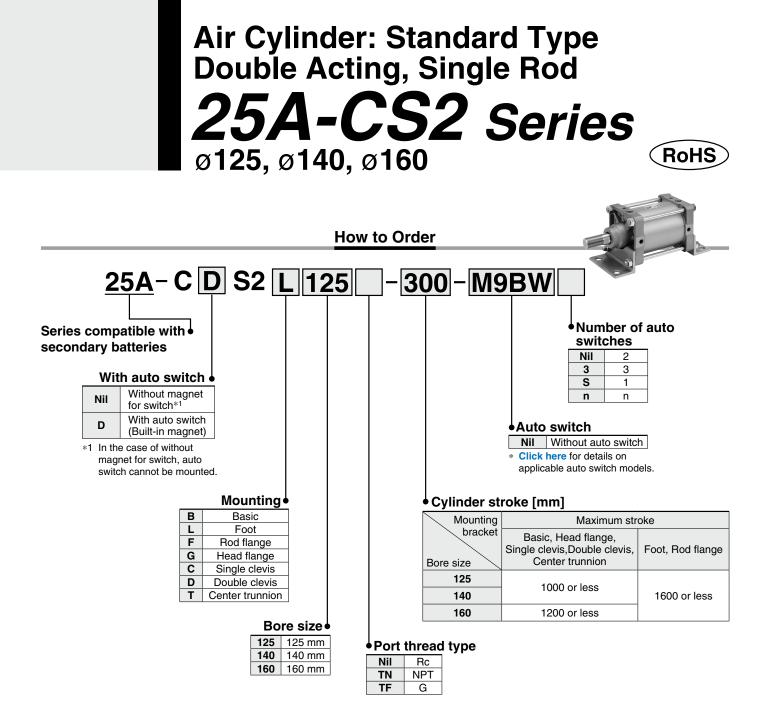
For details, refer to the Web Catalog.

Mounting Bracket Part Nos. for the 25A- Series

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

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

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



Built-in Magnet Cylinder Model

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

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

For details, refer to the Web Catalog.

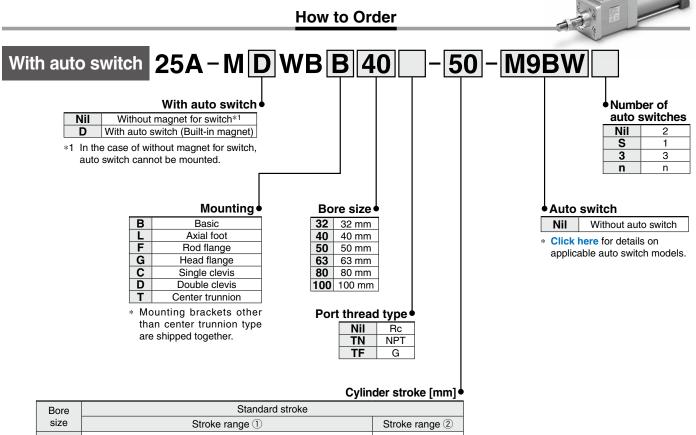
Mounting Bracket Part Nos. for the 25A- Series

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.

Cylinder with Lock Double Acting, Single Rod 25A-MVB Series ø32, ø40, ø50, ø63, ø80, ø100 RoHS



DOIC		
size	Stroke range ①	Stroke range 2
32	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	Up to 1000
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	
50	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	
63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	Up to 1800
80	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	
100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	

* The manufacturing of intermediate strokes is possible. (Spacers are not used.)

Mounting Brackets/Part Nos.

Bore size [mm]	32	40	50	63	80	100
Foot	25-MB-L03	25-MB-L04	25-MB-L05	25A-MWB-L06	25-MB-L08	25-MB-L10
Flange	25A-MWB-F03	25A-MWB-F04	25A-MWB-F05	25A-MWB-F06	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

* Order two foot brackets per cylinder.

Accessories for each mounting bracket are as follows.

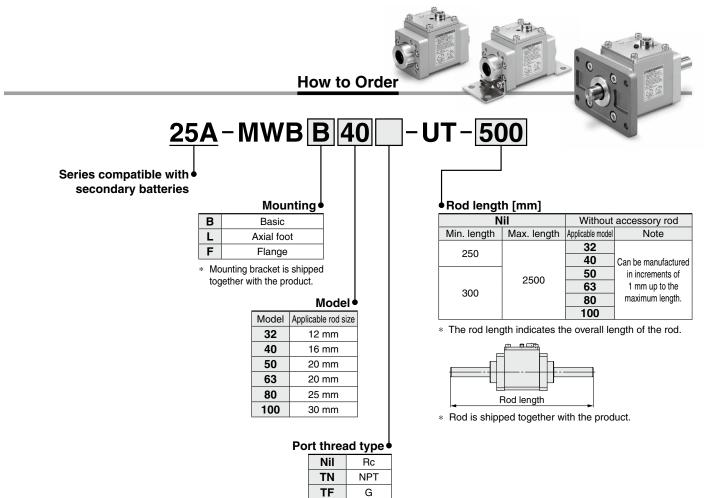
Foot, Flange, Single clevis: Body mounting bolt

Double clevis: Body mounting bolt, Clevis pin, Flat washers and Split pins

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



Lock Unit **25A-MVB-UT Series** 32, 40, 50, 63, 80, 100



* This product uses lithium-based grease (standard grease).

Mounting Brackets/Part Nos.

Bore size [mm]	32	40	50	63	80	100
Foot	25-MB-L03	25-MB-L04	25-MB-L05	25A-MWB-L06	25-MB-L08	25-MB-L10
Flange	25A-MWB-F03	25A-MWB-F04	25A-MWB-F05	25A-MWB-F06	MB-F08-XC7	MB-F10-XC7

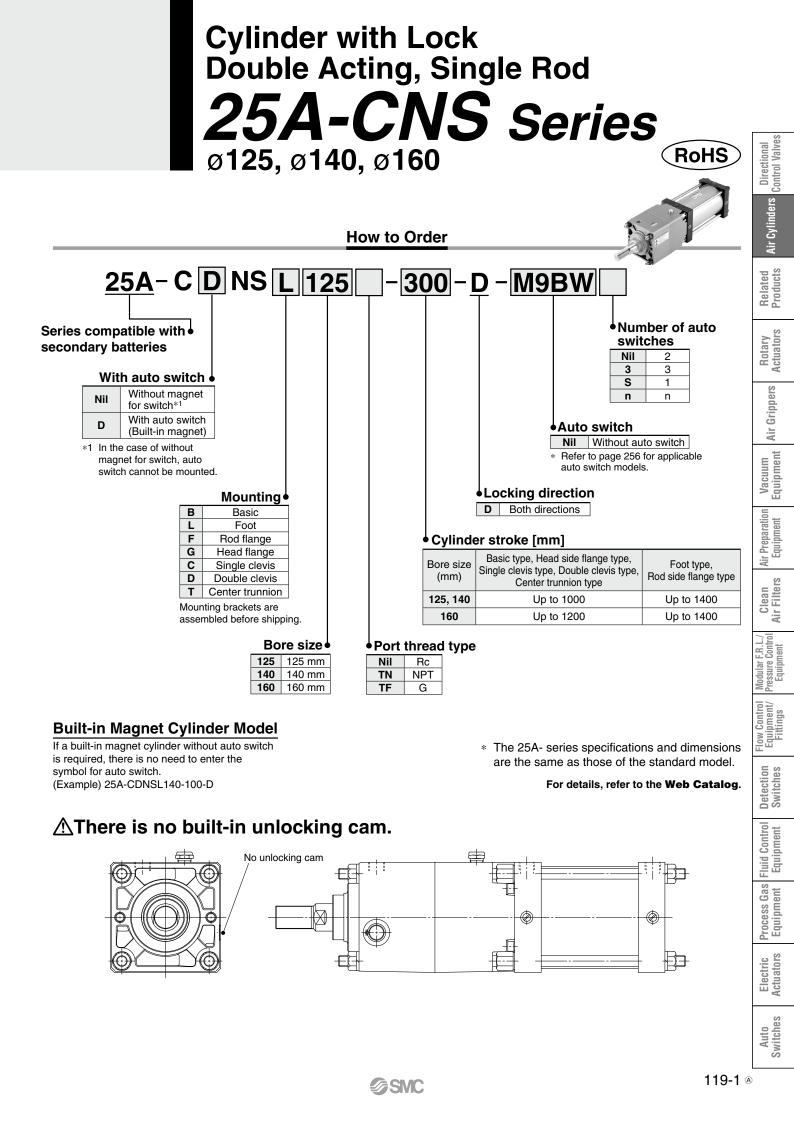
* Order two foot brackets per lock unit.

Accessories for each mounting bracket are as follows.
 East Elange, Pady mounting bolt

Foot, Flange: Body mounting bolt

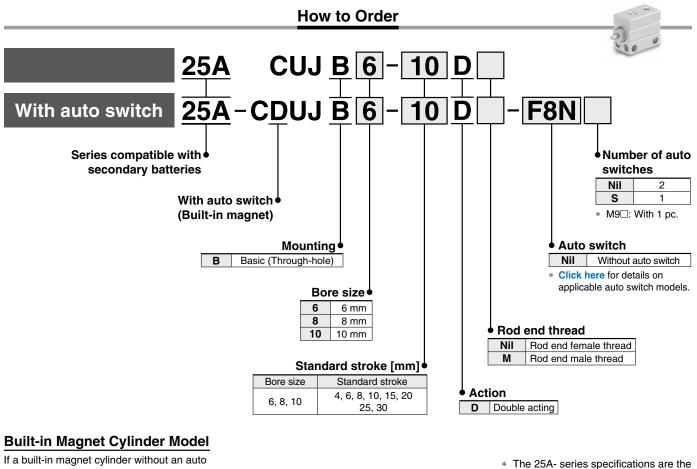


^{*} The 25A- series specifications and dimensions are the same as those of the standard model.



SMC

Mini Free Mount Cylinder 25A-CUJ Series ø6, ø8, ø10 **RoHS**



switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDUJB8-15DM

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

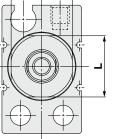
For details, refer to the Web Catalog.

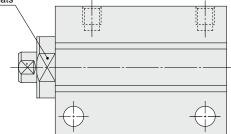
Dimensions (Dimensions other than those shown below are the same as the standard model.) For details, refer to the Web Catalog.

25A-C□UJB 8

Width across flats

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

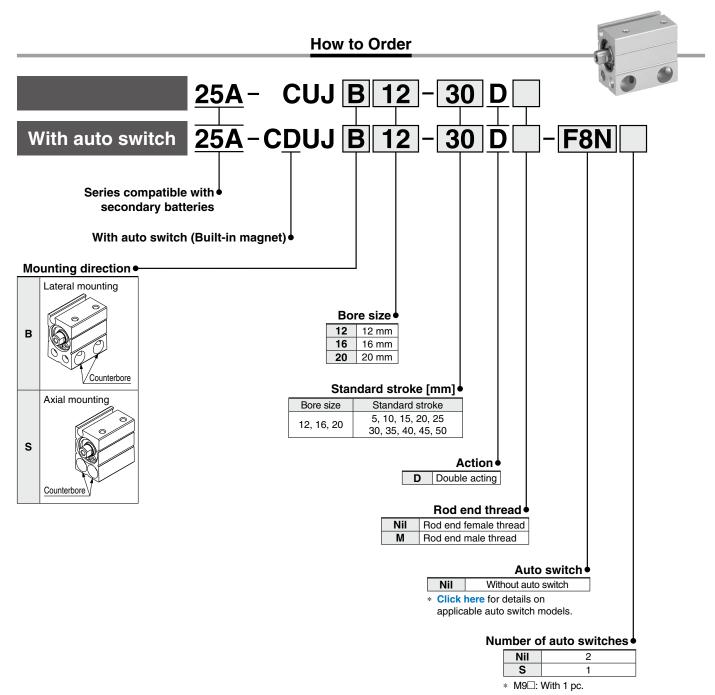




* The position of the width across flats may not be parallel to the cylinder tube



Mini Free Mount Cylinder **25A-CUJ Series** Ø12, Ø16, Ø20

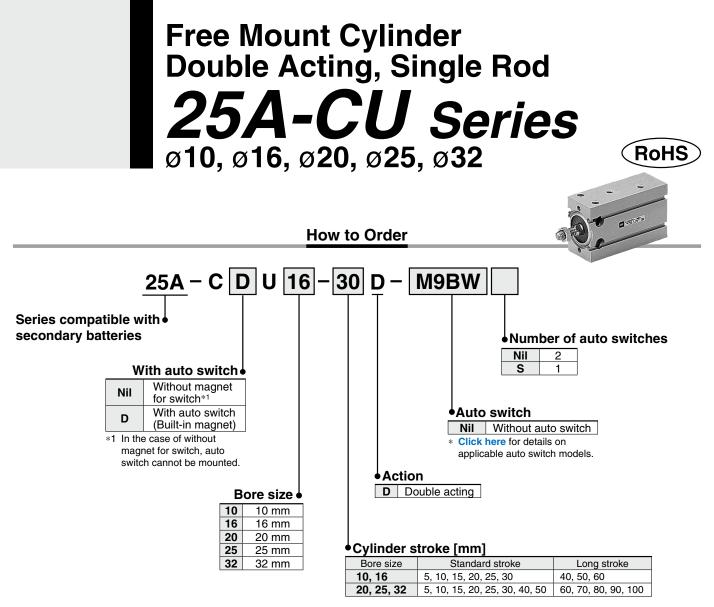


Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDUJB12-15DM

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

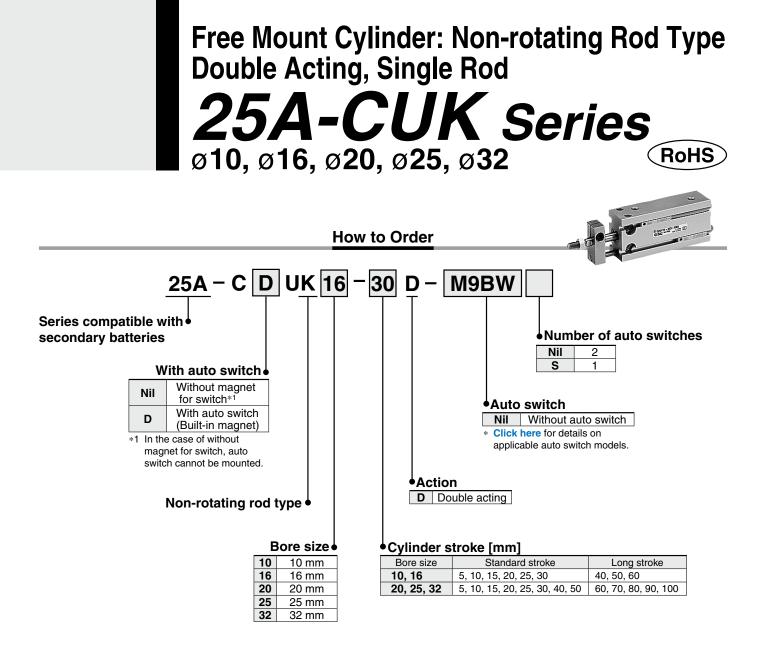




Built-in Magnet Cylinder Model

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

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

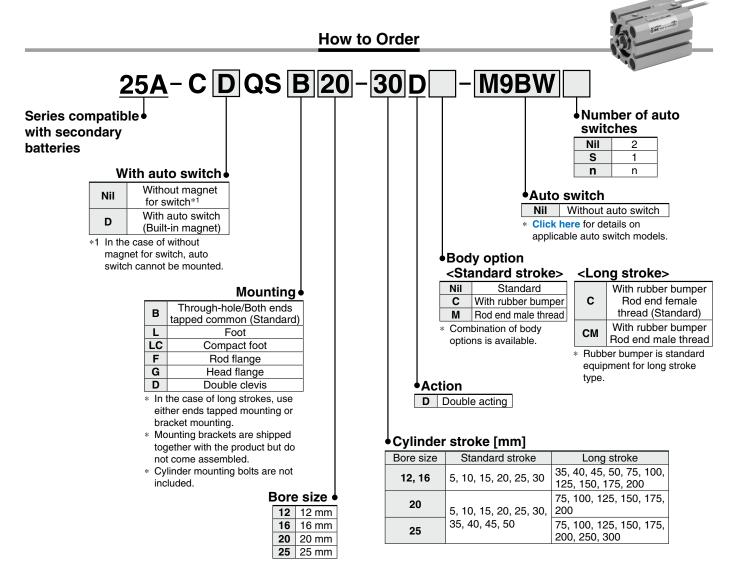


Built-in Magnet Cylinder Model

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

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

Compact Cylinder: Standard Type Double Acting, Single Rod 25A-CQS Series ø12, ø16, ø20, ø25



Built-in Magnet Cylinder Model

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

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

For details, refer to the Web Catalog.

Mounting Bracket Part Nos. for the 25A- Series

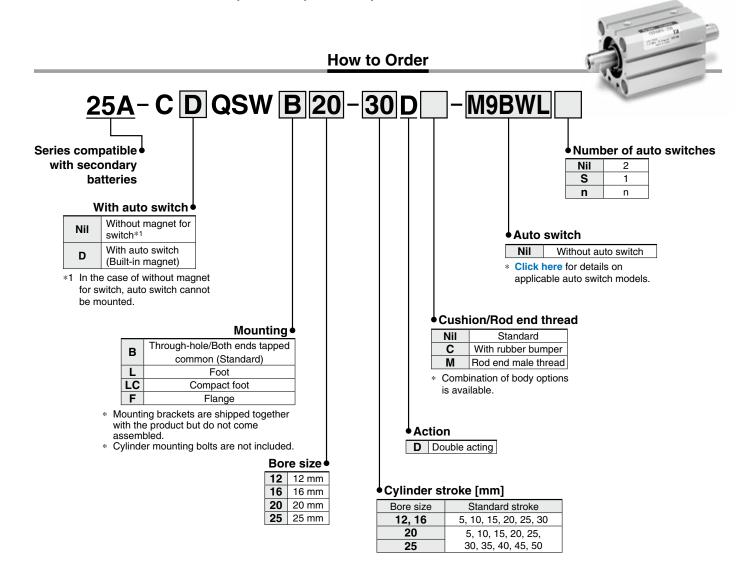
Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
12	25A-CQS-L012	25A-CQS-LC012	25A-CQS-F012	25-CQS-D012
16	25A-CQS-L016	25A-CQS-LC016	25A-CQS-F016	25-CQS-D016
20	25A-CQS-L020	25A-CQS-LC020	25A-CQS-F020	25-CQS-D020
25	25A-CQS-L025	25A-CQS-LC025	25A-CQS-F025	25-CQS-D025

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

Parts included with each type of bracket are as follows.
 Foot, Compact foot, Flange: Body mounting bolts

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

Compact Cylinder: Standard Type Double Acting, Double Rod **25A-CQSV Series** ø12, ø16, ø20, ø25



Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange
12	25A-CQS-L012	25A-CQS-LC012	25A-CQS-F012
16	25A-CQS-L016	25A-CQS-LC016	25A-CQS-F016
20	25A-CQS-L020	25A-CQS-LC020	25A-CQS-F020
25	25A-CQS-L025	25A-CQS-LC025	25A-CQS-F025

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

* Body mounting bolts are included for each bracket.

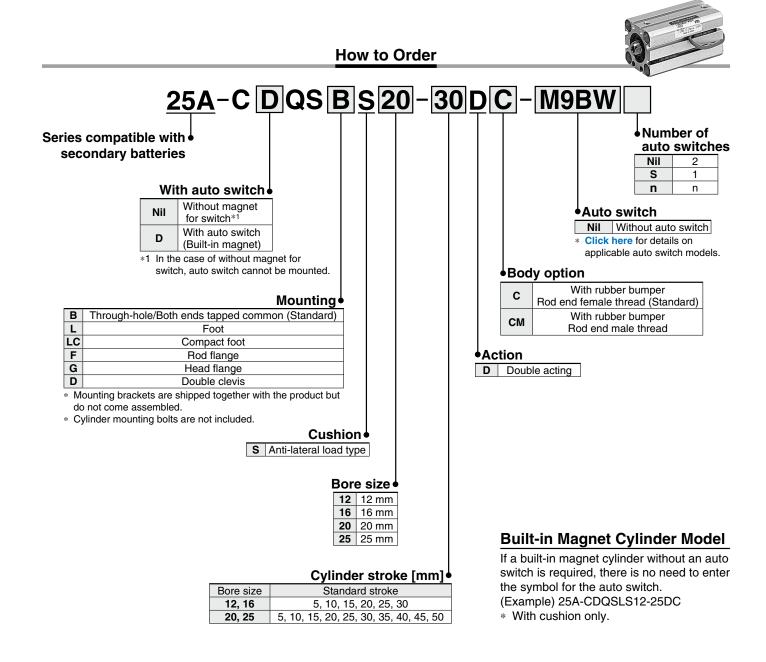
Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDQSWL25-30D

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



Compact Cylinder: Anti-lateral Load Type **25A-CQS Series** Ø12, Ø16, Ø20, Ø25



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

For details, refer to the Web Catalog.

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
12	25A-CQS-L012	25A-CQS-LC012	25A-CQS-F012	25-CQS-D012
16	25A-CQS-L016	25A-CQS-LC016	25A-CQS-F016	25-CQS-D016
20	25A-CQS-L020	25A-CQS-LC020	25A-CQS-F020	25-CQS-D020
25	25A-CQS-L025	25A-CQS-LC025	25A-CQS-F025	25-CQS-D025

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

Parts included with each type of bracket are as follows.

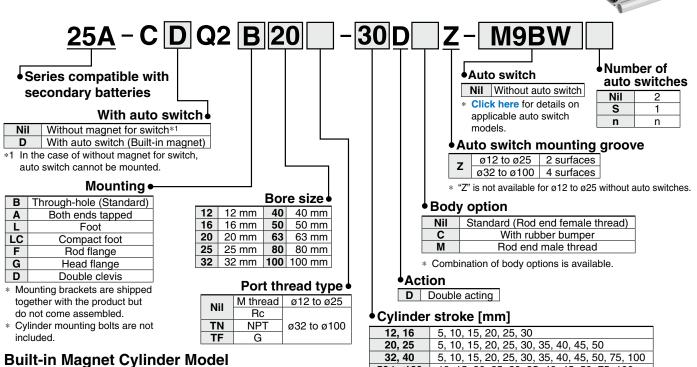
Foot, Compact foot, Flange: Body mounting bolts

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



Compact Cylinder: Standard Double Acting, Single Rod 25A-CQ2 Series 012, 016, 020, 025, 032, 040, 050, 063, 080, 0100

How to Order



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

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

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

For details, refer to the Web Catalog.

	Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis	
12	Without auto switch	25A-CQ-L012	25A-CQ-LC012	25A-CQ-F012	25-CQ-D012	
12	With auto switch	25A-CQ-LZ12	25A-CQ-LCZ12	25A-CQ-F012	25-CQ-D012	
16	Without auto switch	25A-CQ-L016	25A-CQ-LC016	054.00 5040 05.00 00		
10	With auto switch	25A-CQ-LZ16	25A-CQ-LCZ16	25A-CQ-F016	25-CQ-D016	
20	Without auto switch	25A-CQ-L020	25A-CQ-LC020	25A-CQ-F020	25-CQ-D020	
20	With auto switch	25A-CQ-LZ20	25A-CQ-LCZ20	25A-CQ-F020	25-00-0020	
25	Without auto switch	25A-CQ-L025	25A-CQ-LC025	25A-CQ-F025	25-CQ-D025	
25	With auto switch	25A-CQ-LZ25	25A-CQ-LCZ25	25A-CQ-F025	25-CQ-D025	
	32 25A-CQ-L		25A-CQ-LC032	25A-CQ-F032	25-CQ-D032	
	40	25A-CQ-L040	25A-CQ-L040 25A-CQ-LC040 25A-CQ-F040 25-		25-CQ-D040	
	50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050 25-CQ-E		
	63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063 25-CQ-E		
	80 25A-CQ-L080 25A-CQ-LC080 25A-CQ-F080		25-CQ-D080			
	100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100 25-CQ-D		

*1 When ordering foot and compact foot brackets, the required quantity will be different depending on the bore size. ø12 to ø25:

Without auto switch: Order 2 pieces per cylinder.

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

ø32 to ø100:

• Order 2 pieces per cylinder.

Parts included with each type of bracket are as follows.

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

@SMC

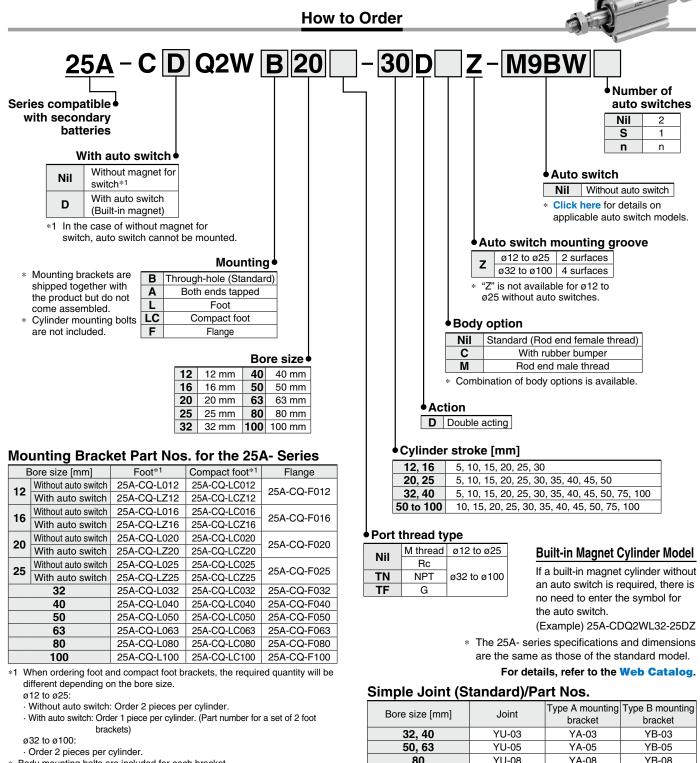
Simple Joint (Standard)/ Part Nos.

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

<Ordering>
• Joints are not included with type A or B
mounting brackets. Order them separately.
(Example)
Bore size Ø40
• Type A mounting bracket ········YA-03
• Joint ·······YU-03



Compact Cylinder: Standard Double Acting, Double Rod RoHS 25A-CQ2W Series ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100



Body mounting bolts are included for each bracket.

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

YA-10

YU-10

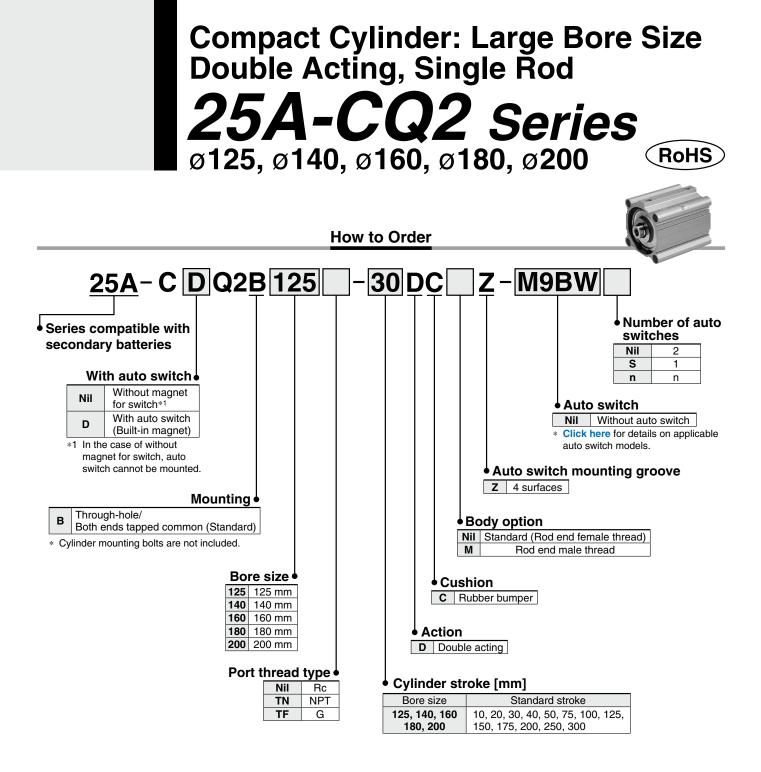
Bore size ø40 Part no

Type A mounting bracket YA-03YU-03 Joint



100

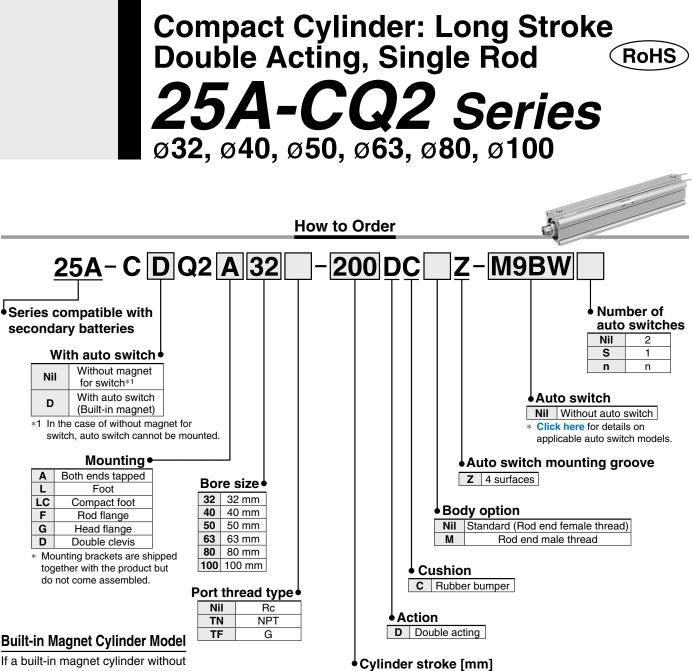
YB-10



Built-in Magnet Cylinder Model

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

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



Bore size

32, 40, 50

63, 80, 100

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) Part no.

Bore size ø40

 Type A mounting bracket ·······YA-03 Joint------.....YU-03

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
32	25A-CQ-L032	25A-CQ-LC032	25A-CQ-F032	25-CQ-D032
40	25A-CQ-L040	25A-CQ-LC040	25A-CQ-F040	25-CQ-D040
50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050	25-CQ-D050
63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063	25-CQ-D063
80	25A-CQ-L080	25A-CQ-LC080	25A-CQ-F080	25-CQ-D080
100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100	25-CQ-D100

*1 Order 2 pieces per cylinder.

Parts included with each type of bracket are as follows.

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

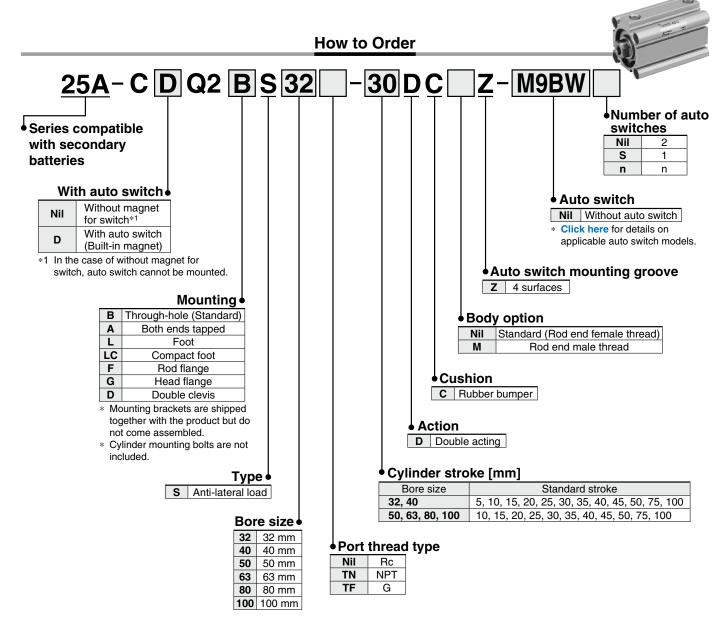


* The 25A- series specifications and dimensions are the same as those of the standard model.

Standard stroke

125, 150, 175, 200, 250, 300

Compact Cylinder: Anti-lateral Load 25A-CQ2 Series Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



Built-in Magnet Cylinder Model

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

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

For details, refer to the Web Catalog.

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
32	25A-CQ-L032	25A-CQ-LC032	25A-CQ-F032	25-CQ-D032
40	25A-CQ-L040	25A-CQ-LC040	25A-CQ-F040	25-CQ-D040
50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050	25-CQ-D050
63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063	25-CQ-D063
80	25A-CQ-L080	25A-CQ-LC080	25A-CQ-F080	25-CQ-D080
100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100	25-CQ-D100

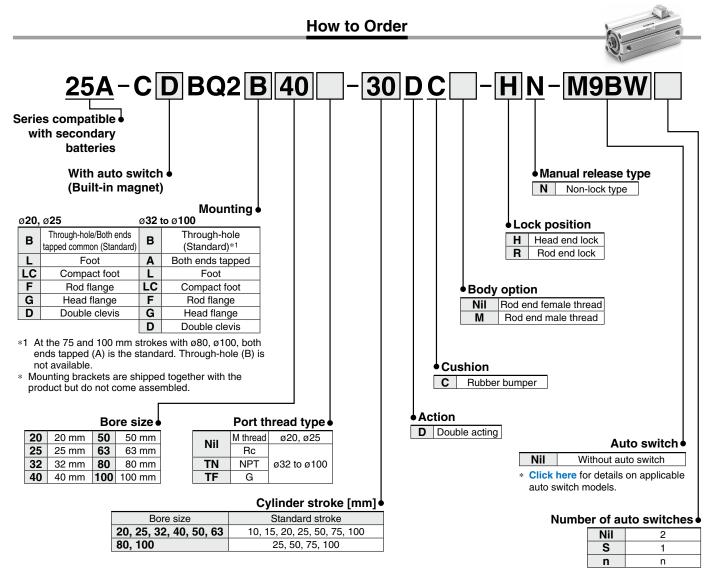
*1 Order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows.

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



Compact Cylinder: With End Lock **25A-CBQ2** Series ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100



Built-in Magnet Cylinder Model

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

Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Compact foot*1	Flange	Double clevis
20	25A-CQS-L020	25A-CQS-LC020	25A-CQS-F020	25-CQS-D020
25	25A-CQS-L025	25A-CQS-LC025	25A-CQS-F025	25-CQS-D025
32	25A-CQ-L032	25A-CQ-LC032	25A-CQ-F032	25-CQ-D032
40	25A-CQ-L040	25A-CQ-LC040	25A-CQ-F040	25-CQ-D040
50	25A-CQ-L050	25A-CQ-LC050	25A-CQ-F050	25-CQ-D050
63	25A-CQ-L063	25A-CQ-LC063	25A-CQ-F063	25-CQ-D063
80	25A-CQ-L080	25A-CQ-LC080	25A-CQ-F080	25-CQ-D080
100	25A-CQ-L100	25A-CQ-LC100	25A-CQ-F100	25-CQ-D100

*1 Order 2 pieces per cylinder.

* Parts included with each type of bracket are as follows: Foot, Compact foot, Flange: Body mounting bolts, Double clevis: Clevis pin, Type C retaining rings for axis, Body mounting bolts

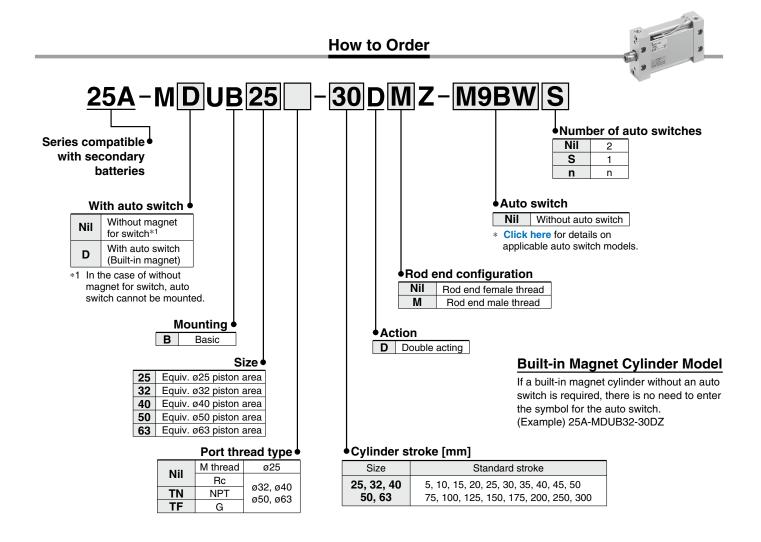


* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

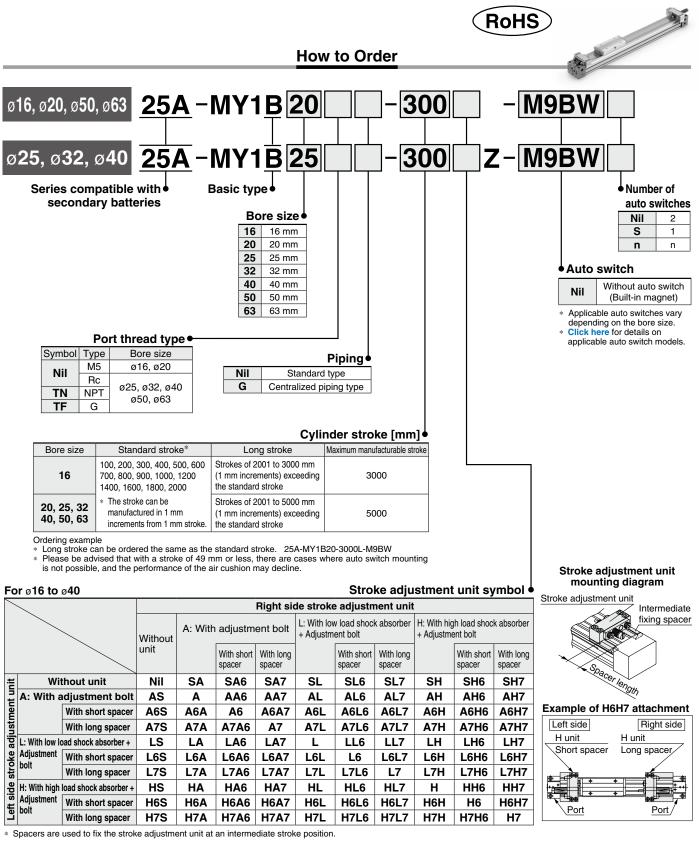
RoHS

Plate Cylinder: Double Acting, Single Rod 25, Ø32, Ø40, Ø50, Ø63



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

Mechanically Jointed Rodless Cylinder Basic Type **25A-MY1B Series** ø16, ø20, ø25, ø32, ø40, ø50, ø63

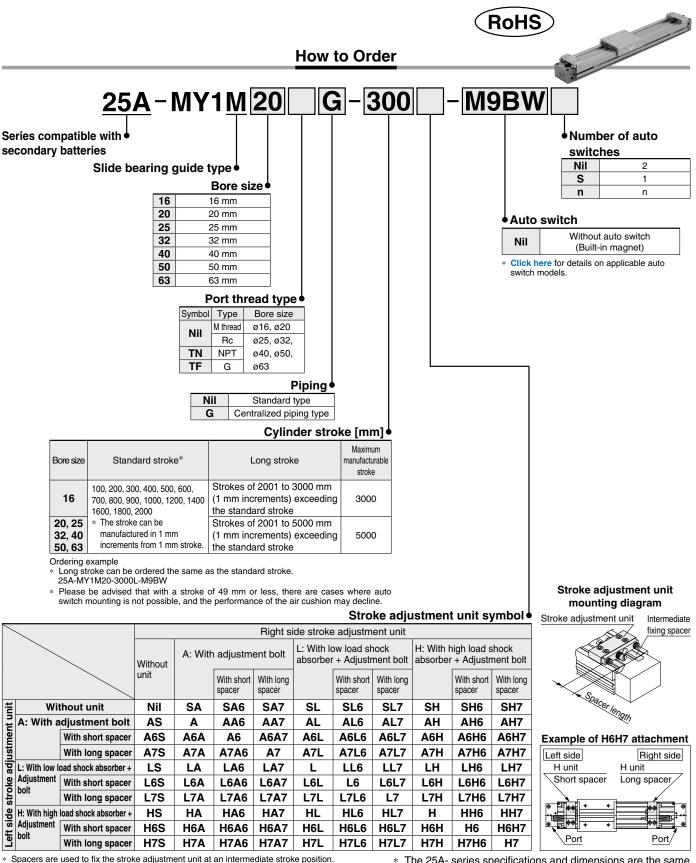


* The 25A-MY1B50 and 63 are not available with the stroke adjustment unit.

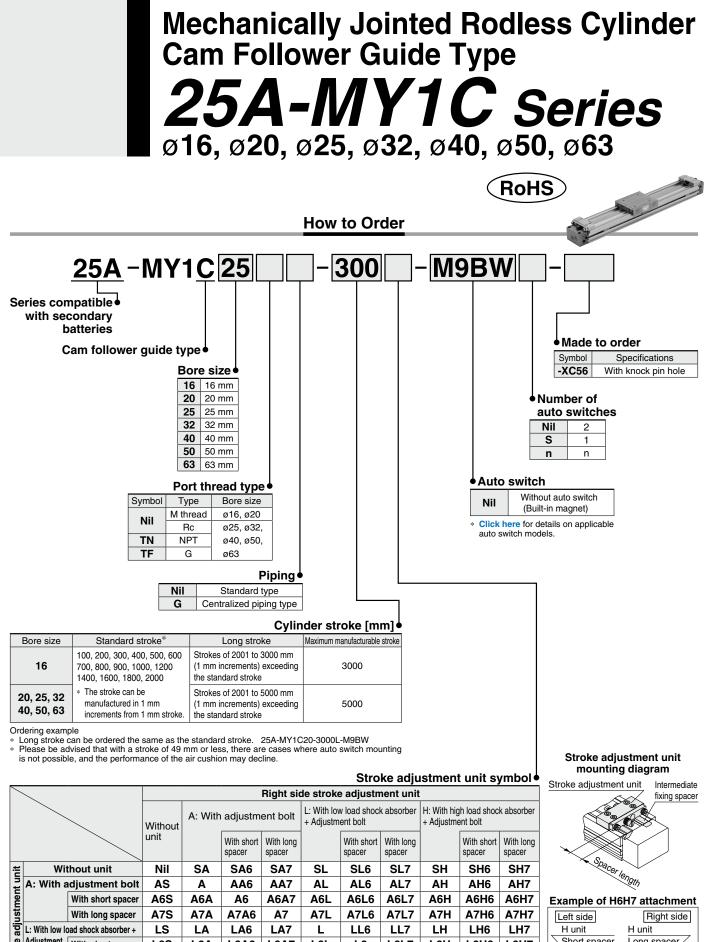
* The stroke adjustment unit H unit is not available for the 25A-MY1B16.

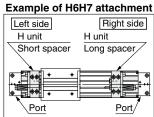
 The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalog.

Mechanically Jointed Rodless Cylinder Slide Bearing Guide Type **25A-MY1M Series** ø16, ø20, ø25, ø32, ø40, ø50, ø63



Spacers are used to fix the stroke adjustment unit at an intermediate stroke position Stroke adjustment unit H is not available for 25A-MY1M16. * The 25A- series specifications and dimensions are the same as those of the standard model.





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

Stroke adjustment unit H is not available for 25A-MY1C16.

A7S

LS

L6S

L7S

HS

H6S

H7S

With short spacer

With long spacer

With short spacer

With long spacer

H: With high load shock absorber +

Adjustment

Adjustment

bolt

stroke

side

Left bolt A7A

LA

L6A

L7A

HA

H6A

H7A

A7A6

LA6

L6A6

L7A6

HA6

H6A6

H7A6

A7

LA7

L6A7

L7A7

HA7

H6A7

H7A7

A7L

L

L6L

L7L

HL

H6L

H7L

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

A7L6

LL6

L6

L7L6

HL6

H6L6

H7L6

A7L7

LL7

L6L7

L7

HL7

H6L7

H7L7

A7H

LH

L6H

L7H

н

H6H

H7H

A7H6

LH6

L6H6

L7H6

HH6

H6

H7H6

A7H7

LH7

L6H7

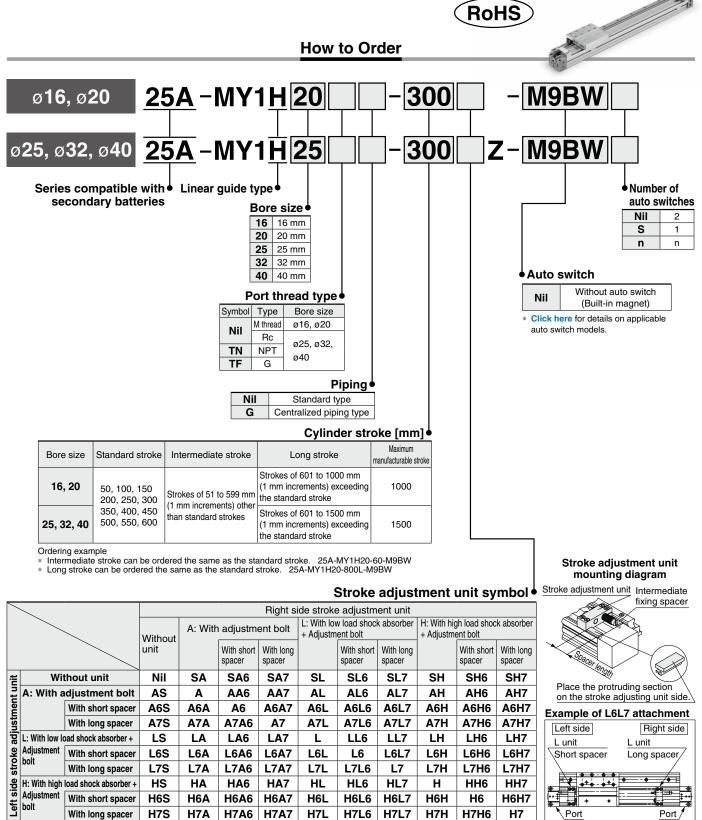
L7H7

HH7

H6H7

H7

Mechanically Jointed Rodless Cylinder Linear Guide Type **25A-MY1H Series** ø16, ø20, ø25, ø32, ø40



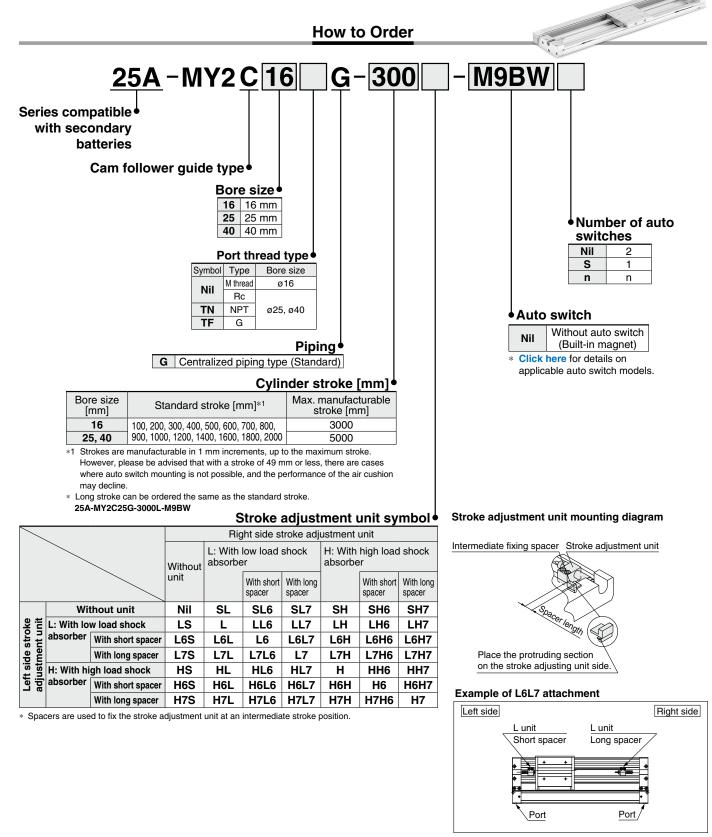
* Spacers are used to fix the stroke adjustment unit at an intermediate stroke position.

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

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



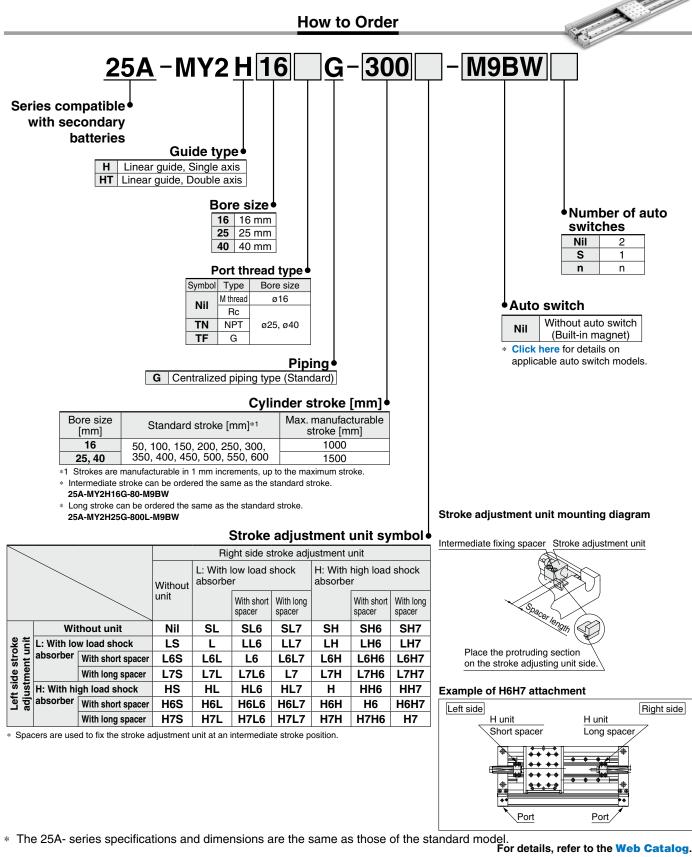
Mechanically Jointed Rodless Cylinder Cam Follower Guide Type 25A-MY2C Series ø16, ø25, ø40



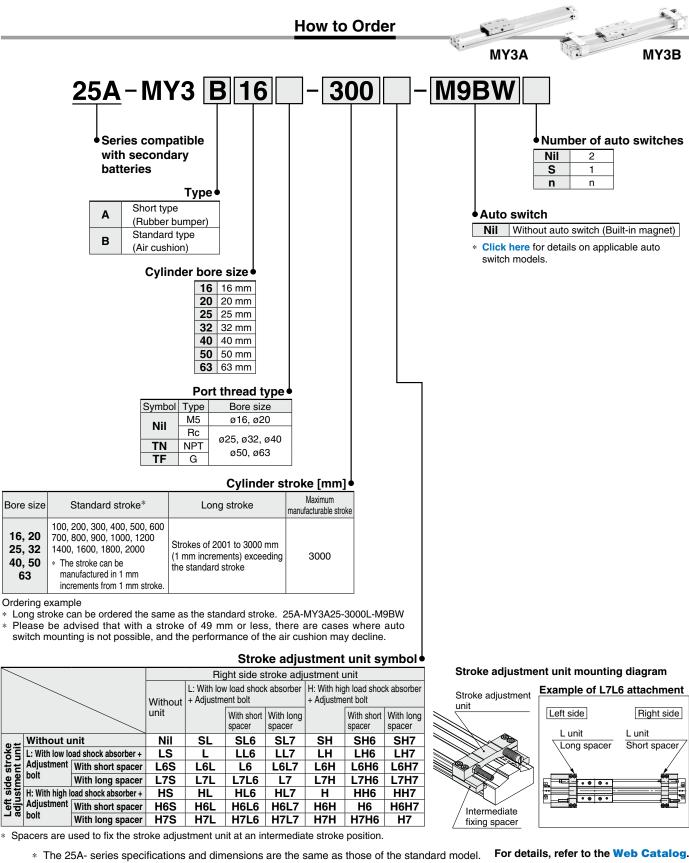
* The 25A- series specifications and dimensions are the same as those of the standard model.



Mechanically Jointed Rodless Cylinder Linear Guide Type **25A-MY2H/HT** Series ø16, ø25, ø40 RoHS



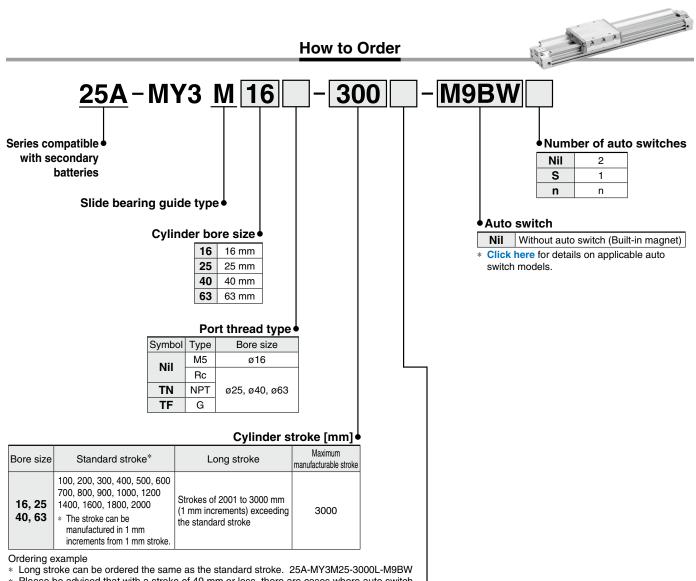
Mechanically Jointed Rodless Cylinder/Basic Type **25A-MY3A/3B** Series Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63



140

RoHS

Mechanically Jointed Rodless Cylinder Slide Bearing Guide Type **25A-MY3M Series** Ø16, Ø25, Ø40, Ø63



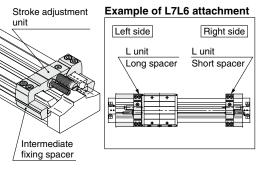
Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

Stroke adjustment unit symbol

									·		
				Right side stroke adjustment unit							
			Without	L: With low load shock absorber + Adjustment bolt			H: With high load shock absorbe + Adjustment bolt				
		unit		With short spacer	With long spacer		With short spacer	With long spacer			
	Without u	nit	Nil	SL	SL6	SL7	SH	SH6	SH7		
nit ke		ad shock absorber +	LS	L	LL6	LL7	LH	LH6	LH7		
nt u	Adjustment	With short spacer	L6S	L6L	L6	L6L7	L6H	L6H6	L6H7		
Left side stroke adjustment unit	bolt	With long spacer	L7S	L7L	L7L6	L7	L7H	L7H6	L7H7		
t si ust		With high load shock absorber +		HL	HL6	HL7	Н	HH6	HH7		
adj	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

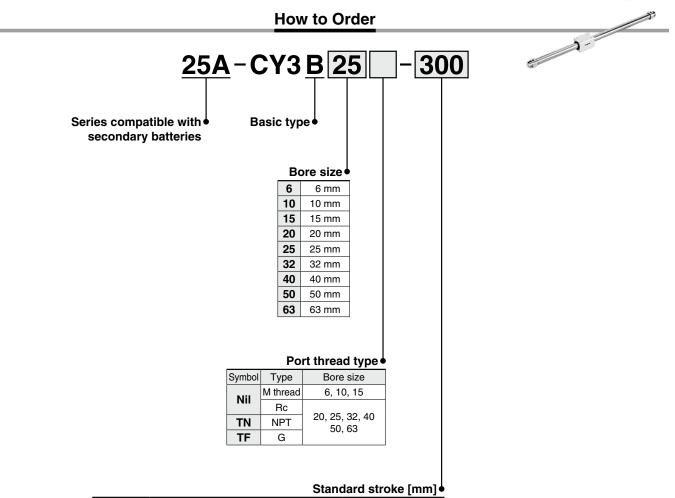


* The 25A- series specifications and dimensions are the same as those of the standard model.





Magnetically Coupled Rodless Cylinder/Basic Type $\begin{array}{c} \textbf{25A-CY3B Series} \\ \texttt{06}, \texttt{010}, \texttt{015}, \texttt{020}, \texttt{025}, \texttt{032}, \texttt{040}, \texttt{050}, \texttt{063} \end{array}$



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, 000, 000, 700, 000	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.

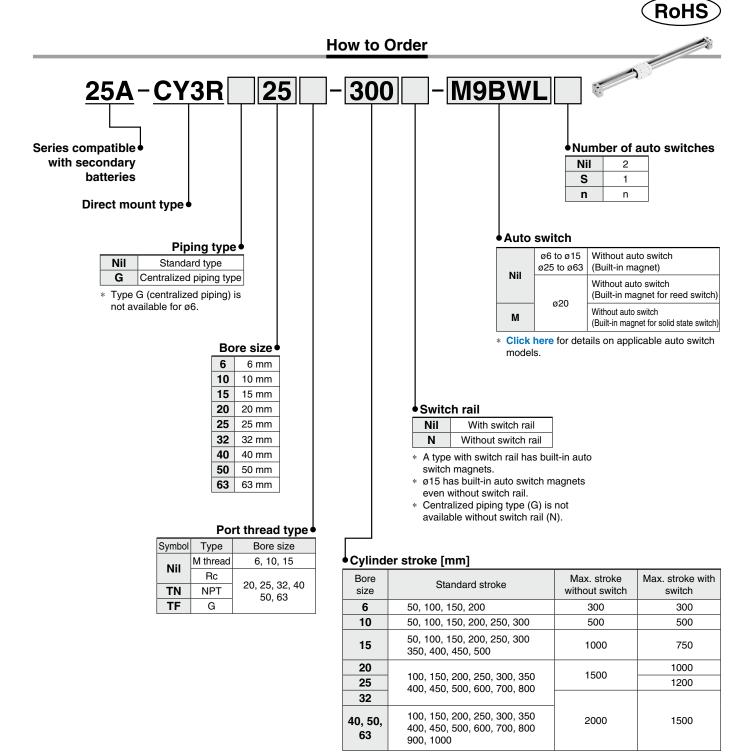
For details, refer to the Web Catalog.



RoHS

Magnetically Coupled Rodless Cylinder/Direct Mount Type

25A-CY3R Series ø6, ø10, ø15, ø20, ø25, ø32, ø40, ø50, ø63



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

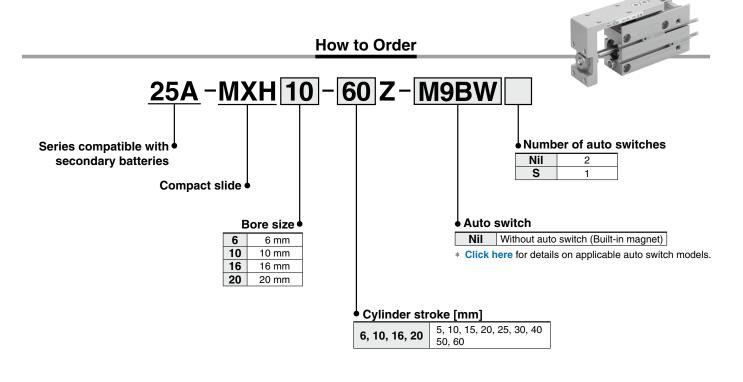
attention to the mounting bracket and clearance value.

* Intermediate stroke is available in 1 mm increments.

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

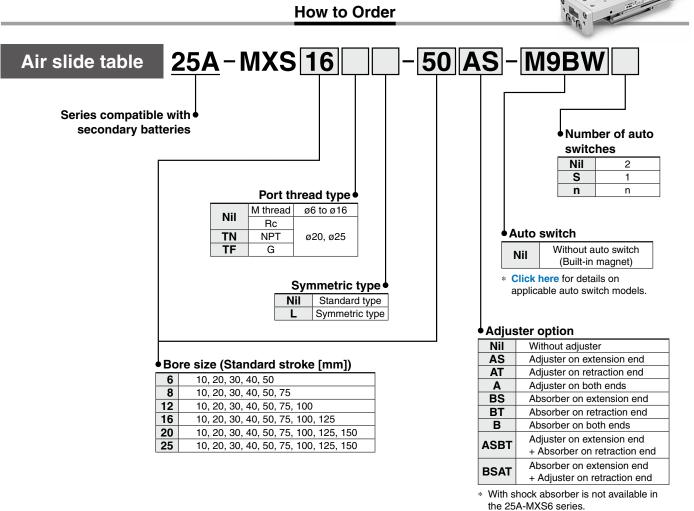


Compact Slide **25A-MXH Series** Ø6, Ø10, Ø16, Ø20 RoHS

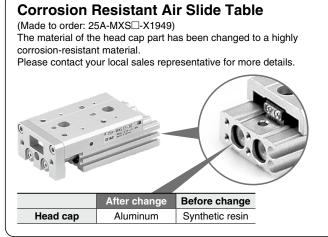


* The 25A- series specifications and dimensions are the same as those of the standard model.

Air Slide Table **25A-MXS Series** Ø6, Ø8, Ø12, Ø16, Ø20, Ø25 RoHS

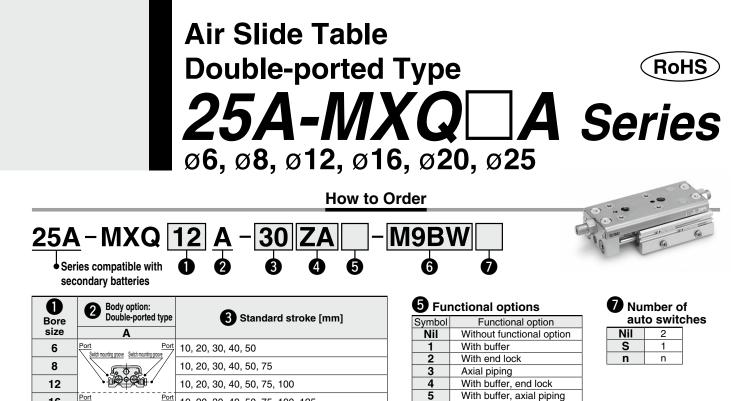


When the adjuster option with shock absorber is used, metal-to-metal collisions occur, and may generate dust particles.



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





6 Auto switch

Nil Without auto switch (Built-in magnet)

* Click here for details on applicable auto

switch models.

Adjuster options/Functional option combinations

rtino arc

 $\{ \bullet \bullet \bullet \}$

 $\phi \bigoplus_{i=1}^{\infty} \phi$

10, 20, 30, 40, 50, 75, 100, 125

10, 20, 30, 40, 50, 75, 100, 125, 150

10, 20, 30, 40, 50, 75, 100, 125, 150

16

20

25

					Adjuster mounting			Functional option combination				
			posit	ion*1	Nil	1	2	3	4	5		
Symbol		Adj	just	er type ^{*6}		Retraction stroke end	Without functional option	*2*7 With buffer	With end lock	*5 Axial piping	With buffer,	*2*5*7 With buffer, axial piping
Ζ	Wi	thout adjuste	r				0	0	0	0	0	0
ZA							0	×	×	0	×	×
ZB	Me	tal stopper w	vith	bumper			0	×	0	0	×	×
ZC							0	×	×	0	×	×
ZD							0	×	×	0	×	×
ZE	Ru	bber stopper					0	0	0	0	0	0
ZF							0	×	×	0	×	×
ZG							0	×	×	0	×	×
ZH	Sh	ock absorbei	r/R.	J			0	×	0	0	×	×
ZJ							0	×	×	0	×	×
ZK							0	×	×	0	×	×
ZL	Me	tal stopper					0	0	0	0	0	0
ZM							0	×	×	0	×	×
ZN				Without adjuster			0	0*4	×	0	×	O*4
ZP	0			Rubber stopper	1 /		0	×	×	0	×	×
ZQ	-	orter total		Shock absorber/RJ	1 /		0	×	×	0	×	×
ZS	len	gth type*3	Ē	Metal stopper with bumper	1/		0	×	×	0	×	×
ZT			adjuster	Metal stopper	1/		0	×	×	0	×	×
ZBF	_	Metal	adi	Rubber stopper			0	×	×	0	×	×
ZBJ	djuster	stopper with	end	Shock absorber/RJ			0	×	×	0	×	×
ZBM	jü	bumper		Metal stopper			0	×	×	0	×	×
ZEC	g	Dubbar	stroke	Metal stopper with bumper			0	×	×	0	×	×
ZEJ		Rubber	str	Shock absorber/RJ			0	×	×	0	×	×
ZEM	e	stopper		Metal stopper	•		0	×	×	0	×	×
ZHC	stroke	Oh a ala	Retraction	Metal stopper with bumper			0	×	×	0	×	×
ZHF				Rubber stopper			0	×	×	0	×	×
ZHM	lon	absorber/RJ	Be	Metal stopper			0	×	×	0	×	×
ZLC	SUS		1	Metal stopper with bumper			0	×	×	Ō	×	×
ZLF	X	Metal		Rubber stopper			0	×	×	0	×	×
ZLJ	ш	stopper		Shock absorber/RJ			0	×	×	0	×	×

- Shipped together with the product, but not assembled Without any symbol for the adjuster mounting position: The adjuster can be mounted afterward.
- 2 For the buffer mechanism, the buffer stroke will be shorter for the stroke that is adjusted by the extension stroke end adjuster.
- 3 Extension stroke end adjuster mounting holes have been removed to reduce the total length of the table.
- 4 The shorter total length type can be used, but a retraction stroke end adjuster cannot be mounted afterward.
- 5 There is no piping port on the side surface of the product.6 The metal stopper with
- bumper option is not available for ø6.
- 7 As there is no magnet in the buffer mechanism, auto switches cannot be used on the buffer part.

Adjuster Mounting Position

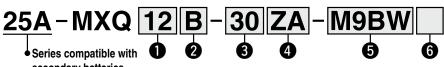
Retraction stroke end adjuster	Shorter total length type
Extend Retract	Extension stroke end adjuster mounting holes have been removed to reduce the total length of the table.

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

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

Air Slide Table Low Thrust with High Rigidity Type RoHS 25A-MXQ B Series ø6, ø8, ø12, ø16, ø20

How to Order



secondary batteries

0	2 Bo	dy option	3 Standard stroke [mm]				
Bore	Standard type	Symmetric type					
size	В	BL					
6	Port Switch mounting groove	Switch mounting groove Port	10, 20, 30, 40, 50, 75				
8			10, 20, 30, 40, 50, 75, 100				
12			10, 20, 30, 40, 50, 75, 100, 125				
16	Port Port Setch mouring grove Setch 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.

Adjuster options

4 Ad	just	ter options						5 Auto switch
Symbol		Adju	r type* ³	posit	mounting tion * 1		Nil Without auto switch (Built-in magnet) * Click here for details on applicable auto switch models.	
z	Wit	hout adjuster			Exicitional office office		1	Switch models.
ZA ZB ZC	Metal stopper with bumper					•	-	6 Number of auto switches
ZD ZE ZF	Ru	Rubber stopper				•	-	S 1 n n
ZG ZH ZJ	Sh	Shock absorber/RJ				•	-	
ZK ZL ZM	Me	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 can be
ZLC ZLF ZLJ	Extension	Metal stopper		Metal stopper with bumper Rubber stopper Shock absorber/RJ	• • •	• • •		mounted afterward. Extension stroke end adjuster mounting holes have been removed to reduce the total length of the table. The metal stopper with bumper option is not available for ø6.

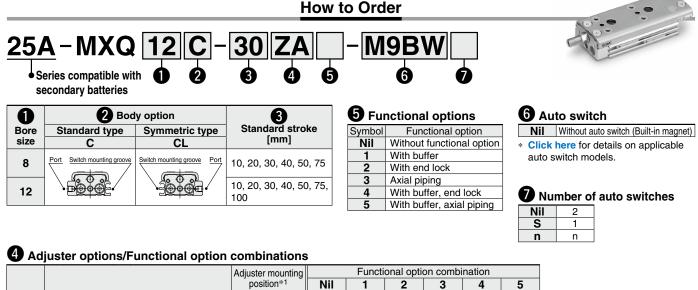
Adjuster Mounting Position



When the shock absorber, metal stopper with bumper, or adjuster option with metal stopper is used, metal-to-metal collisions occur, and may generate dust particles. * The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalog.

SMC

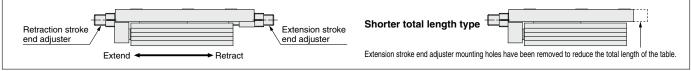
Air Slide Table Single Side-ported Type 25A-NXQ C Series Ø8, Ø12



						Adjuster mounting									
					posit	ion*1	Nil	1	2	3	4	5	1		
Symbol						Retraction stroke end	Without functional option	*2*6 With buffer	With end lock	*5 Axial piping	*2*6 With buffer, end lock	*3*5*6 With buffer, axial piping			
Z	Wi	thout adjuste	r				0	0	0	0	0	0	1		
ZA					•	•	0	×	×	0	×	×	1		
ZB	Me	etal stopper w	/ith	bumper	•		0	×	0	0	×	×	1		
ZC							0	×	×	0	×	×]		
ZD					•	•	0	×	×	0	×	×			
ZE	Rι	ibber stopper			•		0	0	0	0	0	0	ļ		
ZF						•	0	×	×	0	×	×			
ZG				•		0	×	×	0	×	×	ļ			
ZH	Shock absorber/RJ			•		0	×	0	0	×	×				
ZJ						•	0	×	×	0	×	×	*1		
ZK	Metal stopper					•	0	×	×	0	×	×			
ZL					•		0	0	0	0	0	0	1		
ZM						•	0	×	×	0	×	×			
ZN		Shorter overall length type*3		Without adjuster	/	1	0	0*4	×	0	×	0*4			
ZP	Sh			Rubber stopper		•	0	×	×	0	×	×	*2		
ZQ	-			ath type*3		Shock absorber/RJ			0	×	×	0	×	×	
ZS	ICII	guitype	ter	Metal stopper with bumper		•	0	×	×	0	×	×	1		
ZT			adjuste	Metal stopper	/		0	×	×	0	×	×			
ZBF	5	Metal	ad	Rubber stopper	•	•	0	×	×	0	×	×	*3		
ZBJ	ste	stopper with	end	Shock absorber/RJ			0	×	×	0	×	×			
ZBM	djuster	bumper		Metal stopper			0	×	×	0	×	×			
ZEC	n a	Rubber	stroke	Metal stopper with bumper	•	•	0	×	×	0	×	×	*4		
ZEJ	end	stopper	str	Shock absorber/RJ			0	×	×	0	×	×			
ZEM		stopper	Ы	Metal stopper	•	•	0	×	×	0	×	×			
ZHC	stroke	Shock	cti	Metal stopper with bumper			0	×	×	0	×	×			
ZHF		absorber/RJ	Retraction	Rubber stopper	•	•	0	×	×	0	×	×	*5		
ZHM	ig	absolbei/hJ	Ъ	Metal stopper	•	•	0	×	×	0	×	×	*6		
ZLC	Sue	Metal		Metal stopper with bumper	•	•	0	×	×	0	×	×	*0		
ZLF	Extension			Rubber stopper	•		0	×	×	0	×	×			
ZLJ	ш	ய் stopper		Shock absorber/RJ			0	×	×	0	×	×			

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

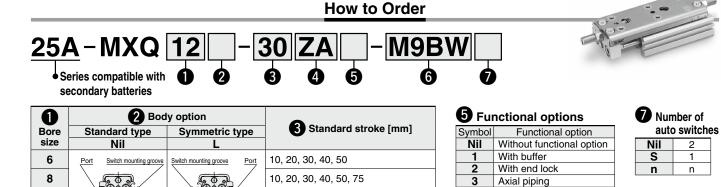
* When the buffer mechanism or the end lock mechanism functional options are used, dust particles may be generated by the buffer part as well as the end lock part.

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

148



Air Slide Table Height Interchangeable Type RoHS 25A-MXQ Series ø6, ø8, ø12, ø16, ø20, ø25



10, 20, 30, 40, 50, 75, 100

10, 20, 30, 40, 50, 75, 100, 125

10, 20, 30, 40, 50, 75, 100, 125, 150

10, 20, 30, 40, 50, 75, 100, 125, 150

6	Auto	switch
---	------	--------

4

5

Nil Without auto switch (Built-in magnet)

With buffer, end lock

With buffer, axial piping

Click here for details on applicable auto switch models.

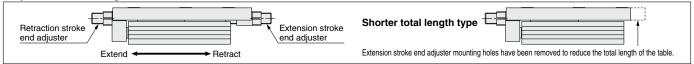
*1 Not available, as the standard model has piping ports and auto switch mounting grooves on both sides. Please use the standard type.

Adjuster options/Functional option combinations

		-		-	Adjuster	mounting		Functi	ional optic	on combi	nation			
					posi	tion*1	Nil	1	2	3	4	5		
Symbol					Extension stroke end	Retraction stroke end	Without functional option	*2*7 With buffer	With end lock	*5 Axial piping		*2*5*7 With buffer, axial piping		
Z	W	ithout adjuste	r				0	0	0	0	0	0		
ZA							0	×	×	0	×	×		
ZB	M	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		Shock absorber/RJ					0	×	×	0	×	×	*1	 Shipped together
ZH	Sł						0	×	0	0	×	×		product, but not as
ZJ							0	×	×	0	×	×		Without any symbo
ZK		Metal stopper			•		0	×	×	0	×	×		adjuster mounting p
ZL	M						0	0	0	0	0	0		adjuster can be mo
ZM							0	×	×	0	×	×	*0	afterward. For the buffer mech
ZN				Without adjuster	/		0	0*4	×	0	×	0*4	~2	buffer stroke will be
ZP	C1	norter total		Rubber stopper			0	×	×	0	×	×		the stroke that is a
ZQ	-	ngth type*3		Shock absorber/RJ			0	×	×	0	×	×		extension stroke er
ZS		igintype	ter	Metal stopper with bumper			0	×	×	0	×	×	*3	Extension stroke er
ZT			adjust	Metal stopper	/		0	×	×	0	×	×		mounting holes have
ZBF	ř	Metal		Rubber stopper	•	•	0	×	×	0	×	×		removed to reduce
ZBJ	adjuster	stopper with	end	Shock absorber/RJ			0	×	×	0	×	×	*1	length of the table. The shorter total le
ZBM	ij	bumper		Metal stopper	•		0	×	×	0	×	×		be used, but a retra
ZEC	da	Rubber	stroke	Metal stopper with bumper			0	×	×	0	×	×		end adjuster canno
ZEJ	end	stopper	str	Shock absorber/RJ	•		0	×	×	0	×	×		afterward.
ZEM	ê	Stopper	Ы	Metal stopper	•		0	×	×	0	×	×	*5	There is no piping
ZHC	stroke	Shock	Cti	Metal stopper with bumper	•		0	×	×	0	×	×		side surface of the
ZHF	ਨੂ Snock ⊑ absorber/RJ			Rubber stopper	•		0	×	×	0	×	×	*6	The metal stopper
ZHM	io,		ľ	Metal stopper	•		0	×	×	0	×	×	*7	option is not availal As there is no mag
ZLC	ense	Metal		Metal stopper with bumper			0	×	×	0	×	×		buffer mechanism.
ZLF	Extension			Rubber stopper			0	×	×	0	×	×		switches cannot be
ZLJ	– யி stopper			Shock absorber/RJ			0	×	×	0	×	×		buffer part.

- ner with the ssembled ol for the position: The ounted
- chanism, the be shorter for adjusted by the end adjuster. end adjuster ave been
- e the total ength type can raction stroke
- ot be mounted port on the
- e product. with bumper able for ø6.
- gnet in the , auto e used on the

Adjuster Mounting Position



When the shock absorber, metal stopper with bumper, or adjuster option with metal stopper is used, metal-to-metal collisions occur, and may generate dust particles. When the buffer mechanism or the end lock mechanism functional options are used,

- dust particles may be generated by the buffer part as well as the end lock part.
- * The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalog.

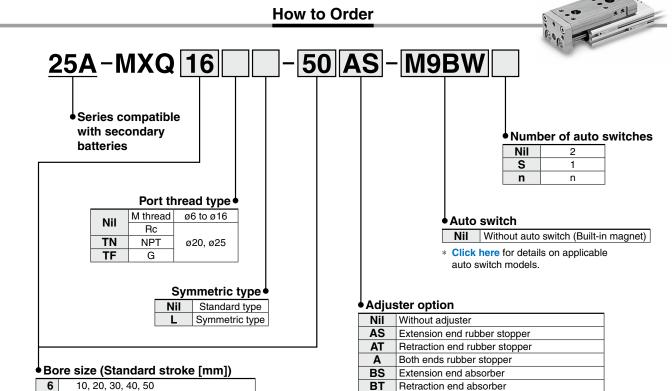
12

16 20

25







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

 CSBT
 Extension end metal stopper + Retraction end absorber

 * 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

B CS

СТ С

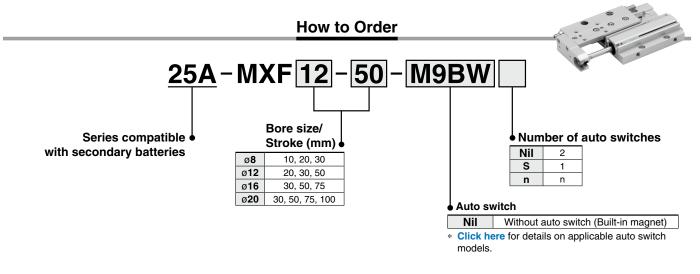
series.

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

(Made to order: 25	A-MXQ⊡-X771) e head cap part ha t material.	ir Slide Table as been changed to a highly resentative
	After change	Before change
Head cap	Aluminum	Synthetic resin

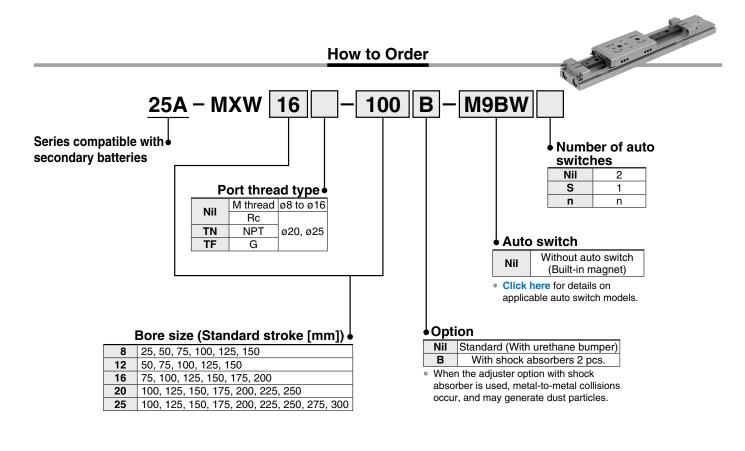
* The 25A- series specifications and dimensions are the same as those of the standard model.

Low Profile Slide Table **25A-MXF Series** Ø8, Ø12, Ø16, Ø20 RoHS



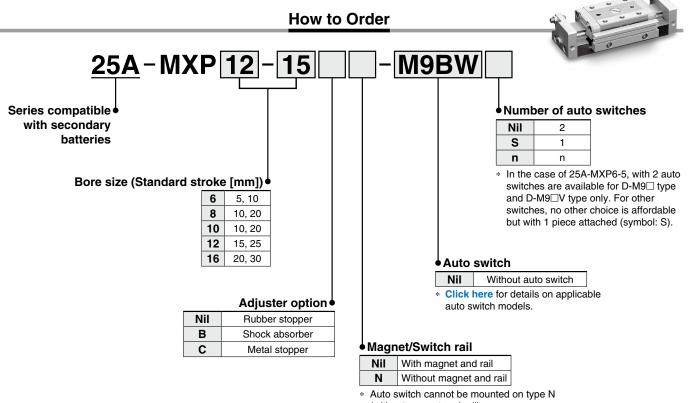
* The 25A- series specifications and dimensions are the same as those of the standard model.

Air Slide Table RoHS 25A-MXV Series Ø8, Ø12, Ø16, Ø20, Ø25



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





(without magnet and rail).

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

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

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

Miniature Guide Rod Cylinder **25A-MGJ Series** Ø6, Ø10



How to Order

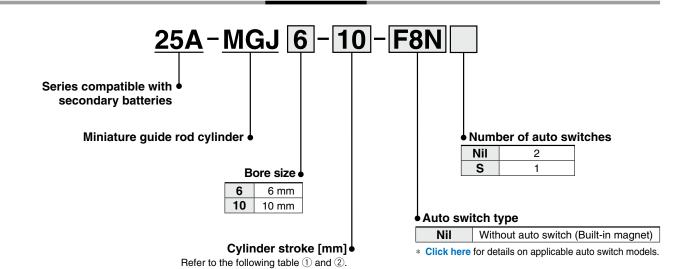


Table 1) Standard Strokes

Bore size [mm]	Standard stroke [mm]
6	5, 10, 15
10	5, 10, 15, 20

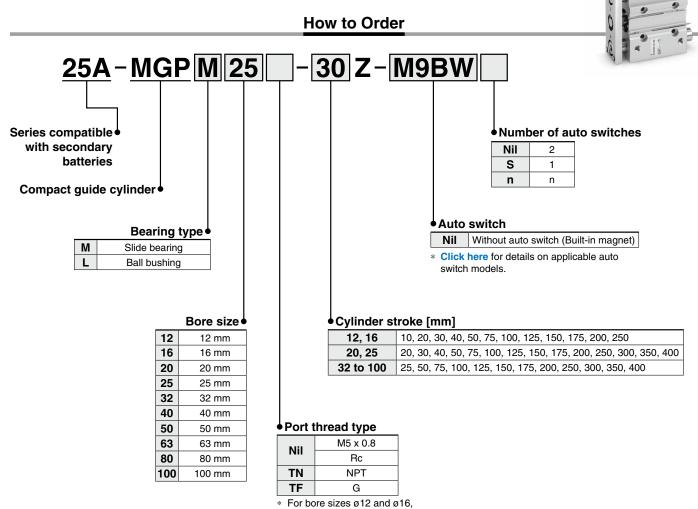
Table 2 Intermediate Stroke (by the 1 mm stroke)

Bore size [mm]	Applicable stroke [mm]
6	1 to 15 (Spacer type)
10	1 to 20 (Spacer type)
Example	Model no.: 25A-MGJ6-9 Installing a 1 mm width spacer for 25A-MGJ6-10 External size: same as 25A-MGJ6-10

* When mounting an auto switch, the min. stroke is 4 mm. However, only 1 auto switch can be mounted in this case.

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

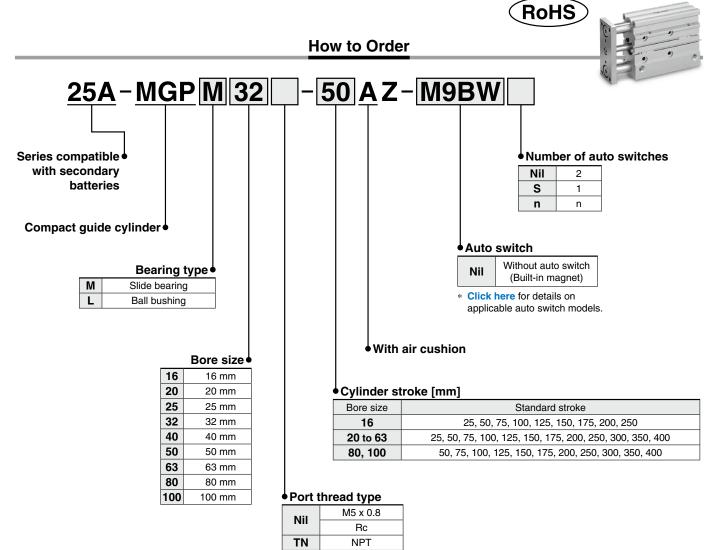
Compact Guide Cylinder (RoHS) **25A-MGP Series** ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100



 For bore sizes ø12 and ø16 only M5 x 0.8 is available.

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

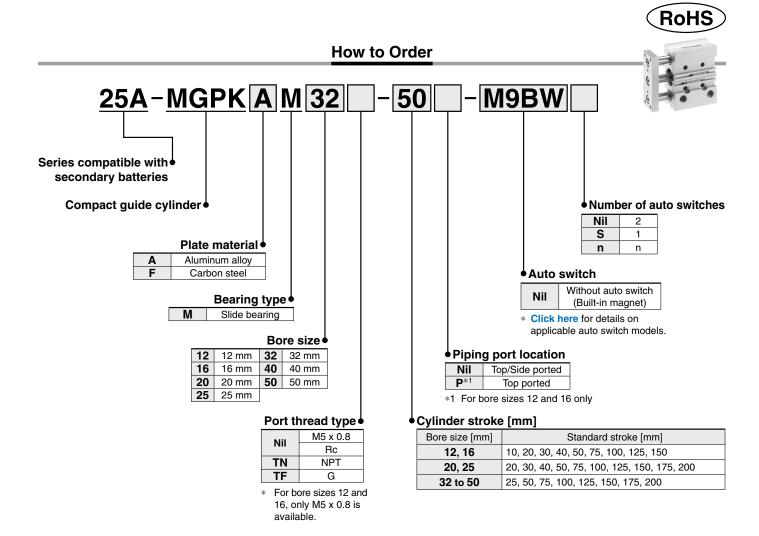
Compact Guide Cylinder/With Air Cushion **25A-MGP Series** Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



TFG* For bore size 16, only
M5 x 0.8 is available.

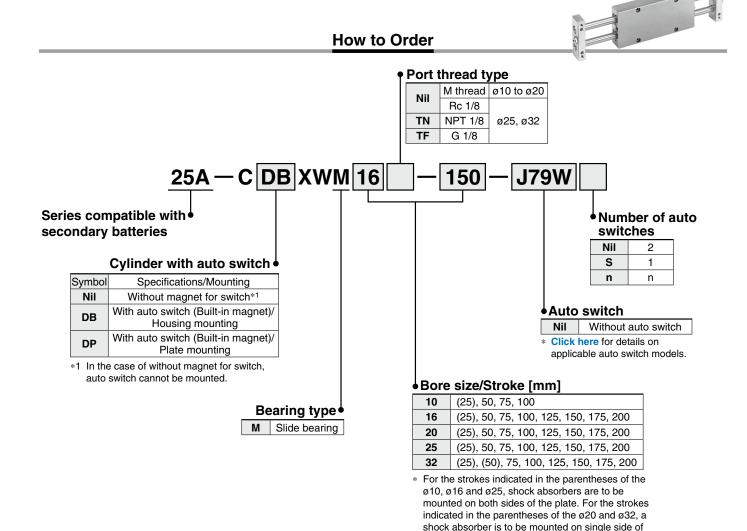
* The 25A- series specifications and dimensions are the same as those of the standard model.

Compact Guide Cylinder **25A-NGPK Series** Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50



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





the plate.

Order.

refer to the Web Catalog.

For the strokes other than those indicated above,

For ø16, ø20 and ø25, strokes up to 300, and for

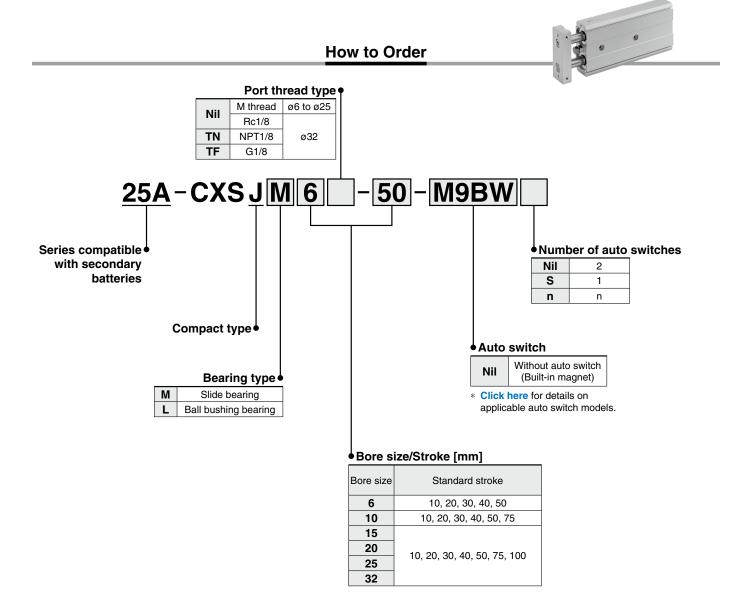
ø32, strokes up to 250 are available as Made-to-

Built-in Magnet Cylinder Model

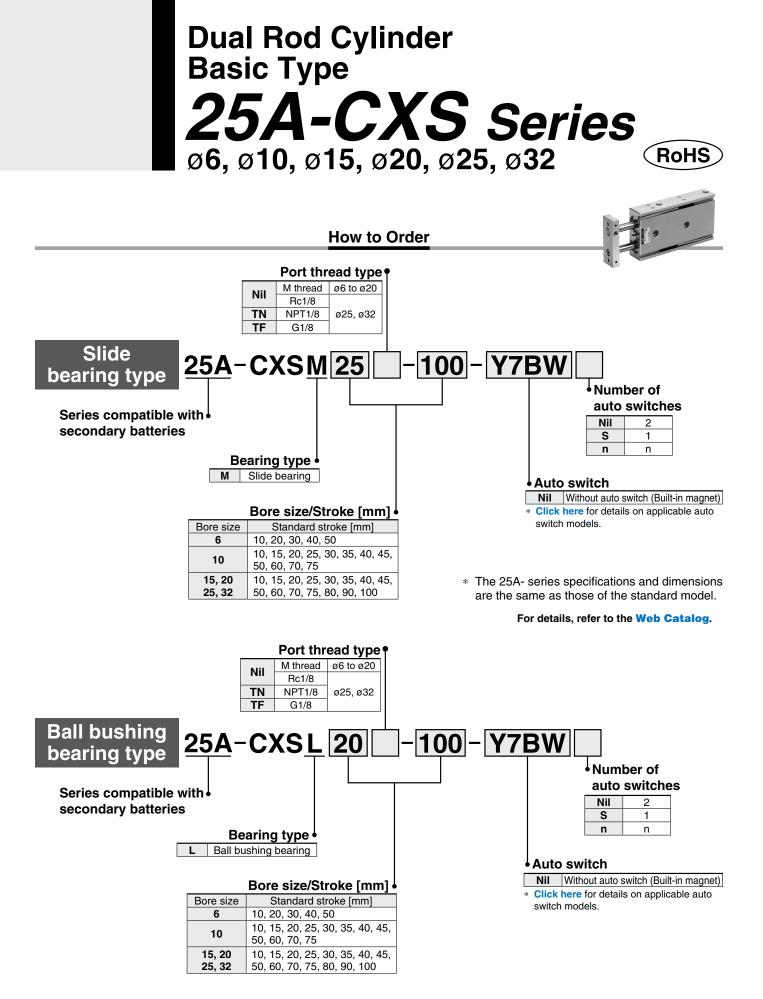
If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) 25A-CDPXWM20-100

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

Dual Rod Cylinder/Compact Type **25A-CXSJ Series** ø6, ø10, ø15, ø20, ø25, ø32 RoHS



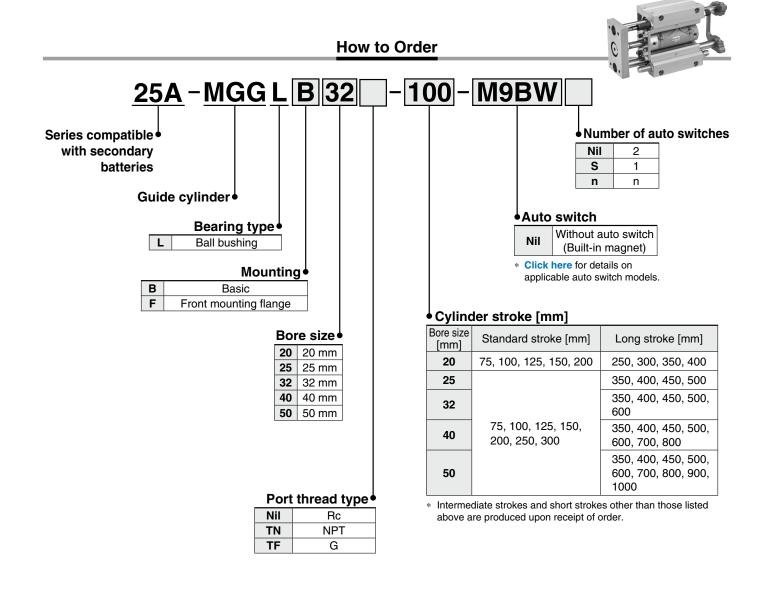
* The 25A- series specifications and dimensions are the same as those of the standard model.



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

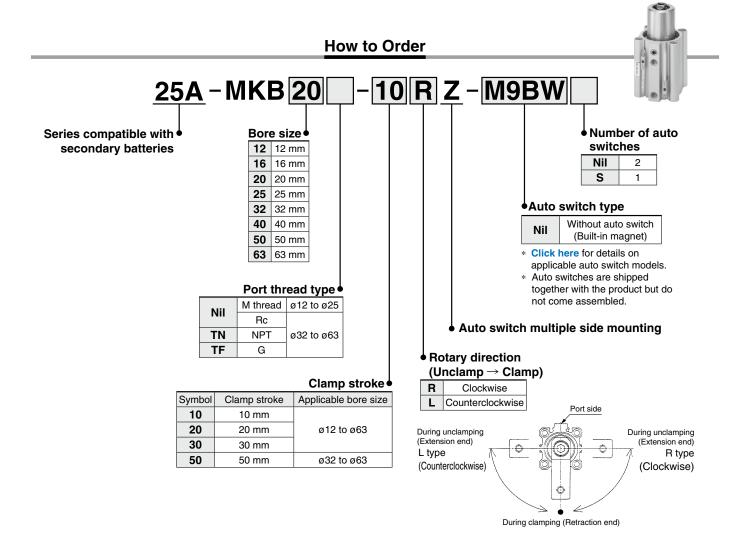


Guide Cylinder **25А-МСС Series** Ø20, Ø25, Ø32, Ø40, Ø50



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

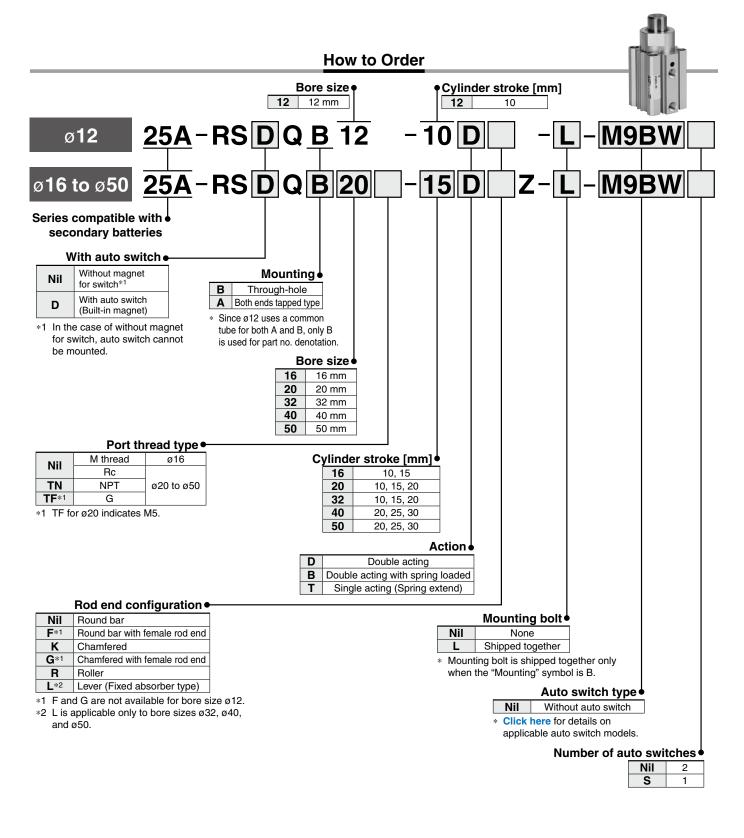
Rotary Clamp Cylinder: Standard **25A-NK Series** @12, @16, @20, @25, @32, @40, @50, @63



* The coil scraper is not built-in.

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

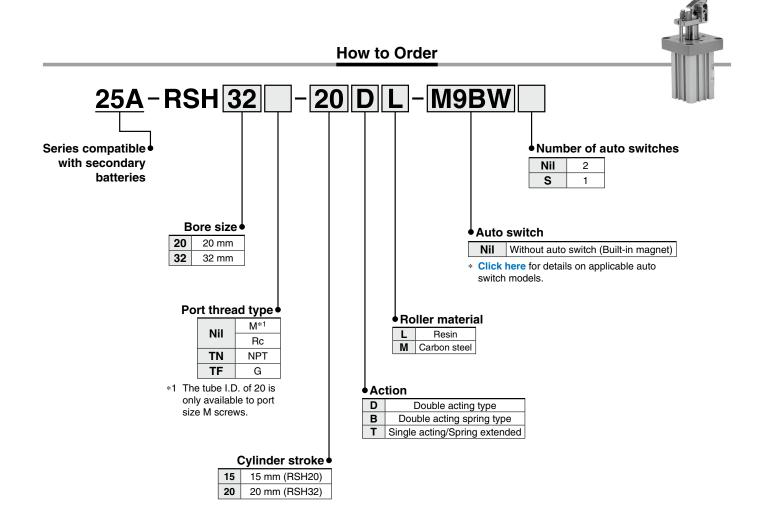
Stopper Cylinder/Fixed Mounting Height **25A-RSQ Series** Ø12, Ø16, Ø20, Ø32, Ø40, Ø50 RoHS



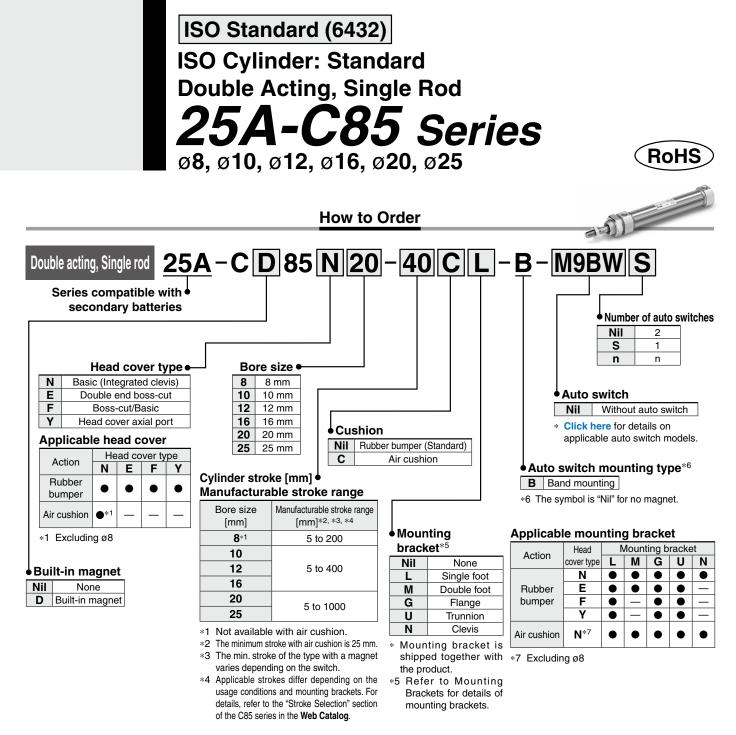
* The 25A- series specifications and dimensions are the same as those of the standard model.



Heavy Duty Stopper Cylinder RoHS 25A-RSH Series Ø20, Ø32



* 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		Bore size [mm]					Contents
	Mounting bracket	8	10	12	16	20	25	Contents
	Rod end nut	C85NT08A-S		C85NT	[10A-S	C85NT20A-S	C85NT25A-S	1 rod end nut
	Mounting nut	C85NT08B-S		C85NT10B-S		C85NT20B-S		1 mounting nut
bracket	Foot (1 pc.)	25A-C85L10A		25A-C85L16A		25A-C85L25A		1 foot bracket
brac	Foot (2 pcs. with 1 mounting nut)	25A-C85L10B		25A-C85L16B		25A-C85L25B		2 foot brackets, 1 mounting nut
ting	Foot (1 pc. with 1 mounting nut)	25A-C85L10C		25A-C85L16C		25A-C85L25C		1 foot bracket, 1 mounting nut
Mounting	Flange	25A-C85F10		25A-C	85F16	25A-C	85F25	1 flange
	Trunnion	C85T10		C85	T16	C85	T25	1 trunnion
	Clevis	25A-C85C10		25A-C	85C16	25A-C	85C25	1 clevis pivot bracket, 1 clevis pin, 2 pin retaining rings

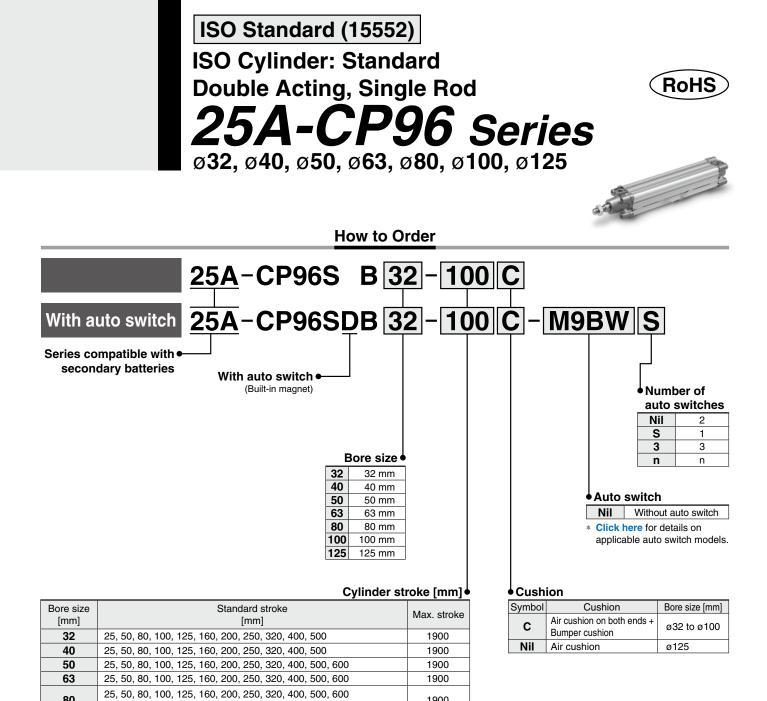
Replacement Parts: For Standard Type

_			
	Bore size [mm]	Part no.	Note
	20	25A-C85A-20PS	Every set includes: 1 rod seal
	25	25A-C85A-25PS	1 flat washer 1 retaining ring

* When replacing the seals, use grease (GR-D-010: ordered separately) on the sliding parts.

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





100	700, 800	1000
125	—	1850
	the standard strokes, intermediate strokes are also available in 1 mm oduced upon receipt of order.	increments

25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600

80

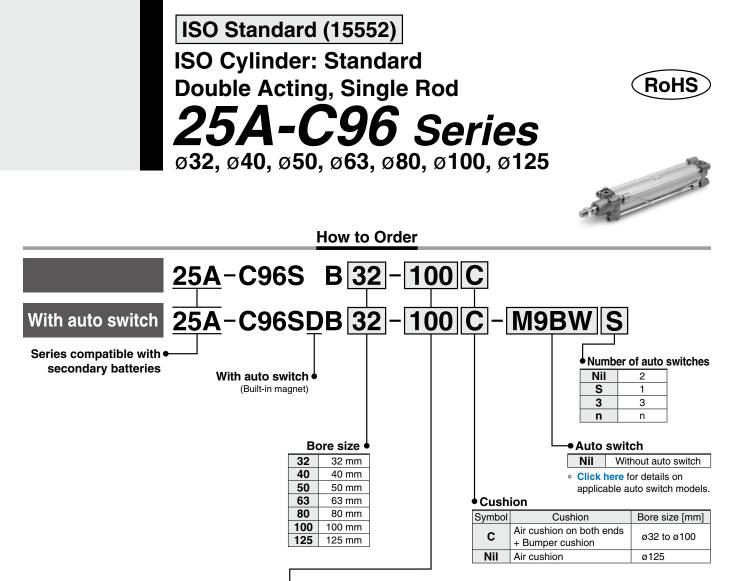
100

700,800

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

1900

1850



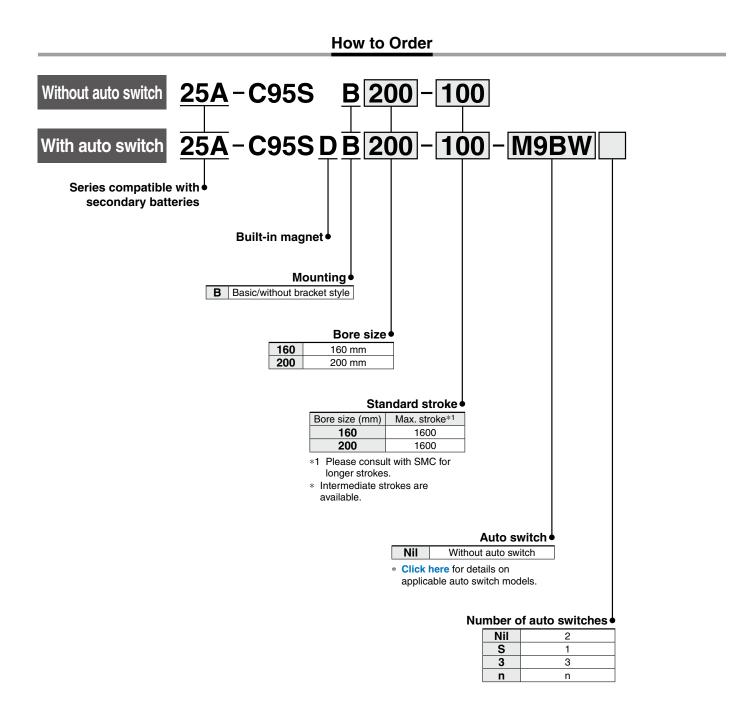
• Cylinder stroke [mm]

Bore size [mm]	Standard stroke [mm]	Max. stroke
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1000
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600 700, 800	1900
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600 700, 800	1850
125	—	1850

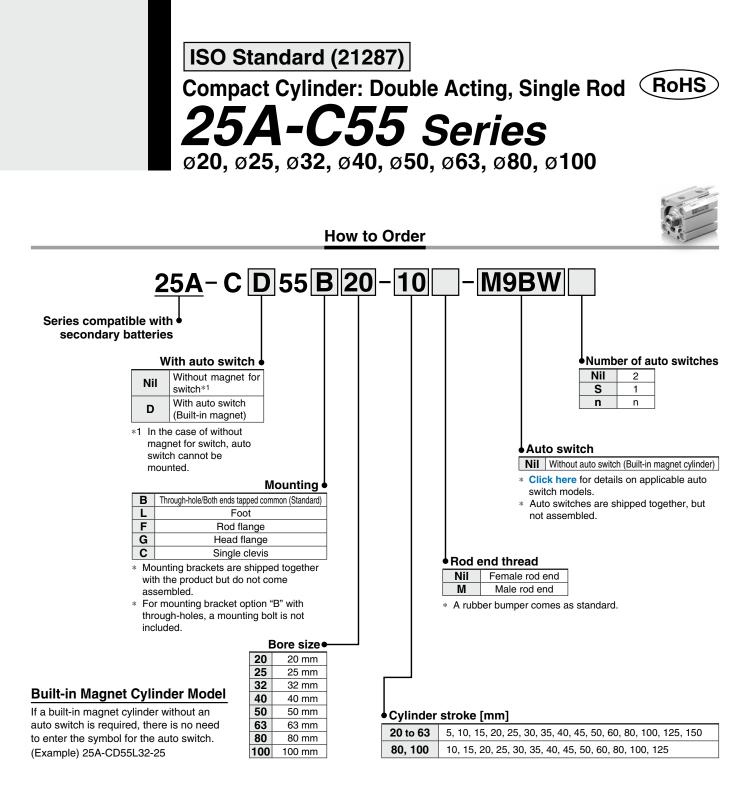
* Aside from the standard strokes, intermediate strokes are also available in 1 mm increments and are produced upon receipt of order.

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

ISO/VDMA Cylinder: Large Bore Size Type Double Acting, Single Rod 25A-C95 Series Ø160, Ø200



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



Mounting Bracket Part Nos. for the 25A- Series

Bore size [mm]	Foot*1	Flange	Single clevis*2
20	25A-C55-L020	25A-C55-F020	25A-C55-C020
25	25A-C55-L025	25A-C55-F025	25A-C55-C025
32	25A-C55-L032	25A-C55-F032	—
40	25A-C55-L040	25A-C55-F040	—
50	25A-C55-L050	25A-C55-F050	—
63	25A-C55-L063	25A-C55-F063	—
80	25A-C55-L080	25A-C55-F080	—
100	25A-C55-L100	25A-C55-F100	—

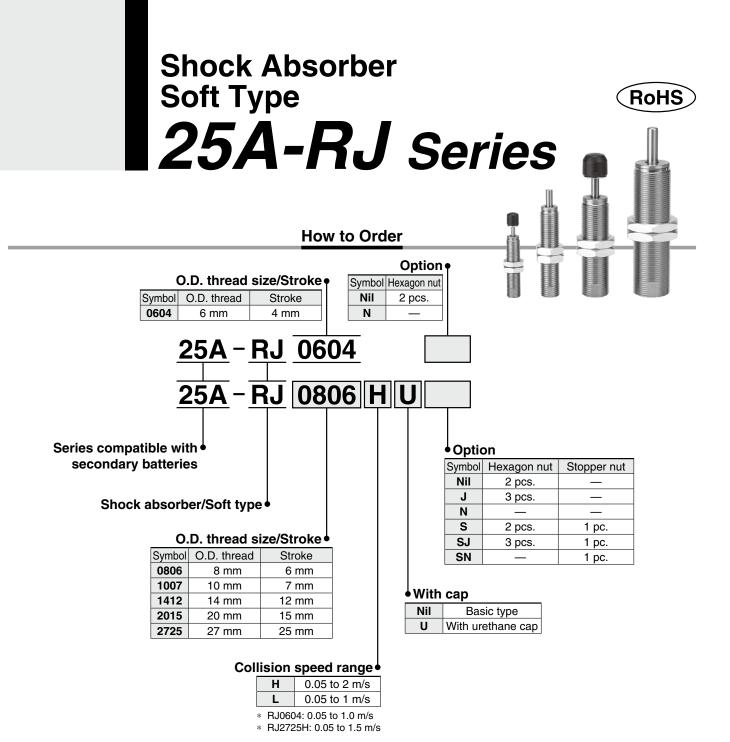
*1 Foot bracket part number contains two foot brackets

*2 The single clevis is only applicable to bore sizes ø20 and ø25.

* Mounting bolts are also included with bracket.

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





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

				Threa	d size		
		M6	M8	M10	M14	M20	M27
Hexagon nut		25A-RJ06J	25-RB08J	25-RB10J	25-RB14J	25-RB20J	25-RB27J
Ctopper put	Basic type		25-RB08S	25-RB10S	25-RB14S	25-RB20S	25-RB27S
Stopper nut	With cap		25-RBC08S	25-RBC10S	25-RBC14S	25-RBC20S	25-RBC27S

SMC

Treatment: Electroless nickel plating

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

For details, refer to the Web Catalog.

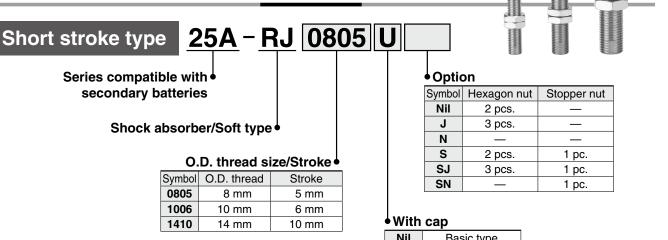
170

Material: Special steel

Shock Absorber Short Stroke Type 25A-RJ Series



How to Order



	Dasic type
U	With urethane cap

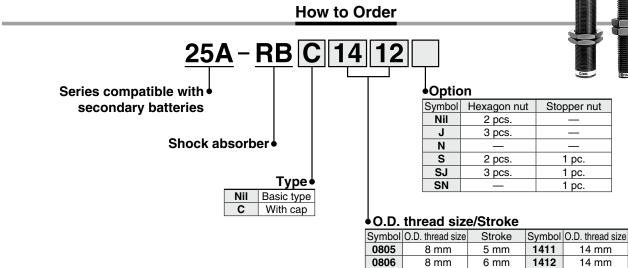
Hexagon Nut, Stopper Nut (Option) Part Nos. for the 25A-Series

		Thread size			
		M8	M10	M14	
Hexagon nut		25-RB08J	25-RB10J	25-RB14J	
Otomorenaut	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.

Shock Absorber RoHS **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
0	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.

—

1 pc.

1 pc.

1 pc.

2015

2725

6 mm

7 mm

14 mm

14 mm

20 mm

27 mm

Stroke

11 mm

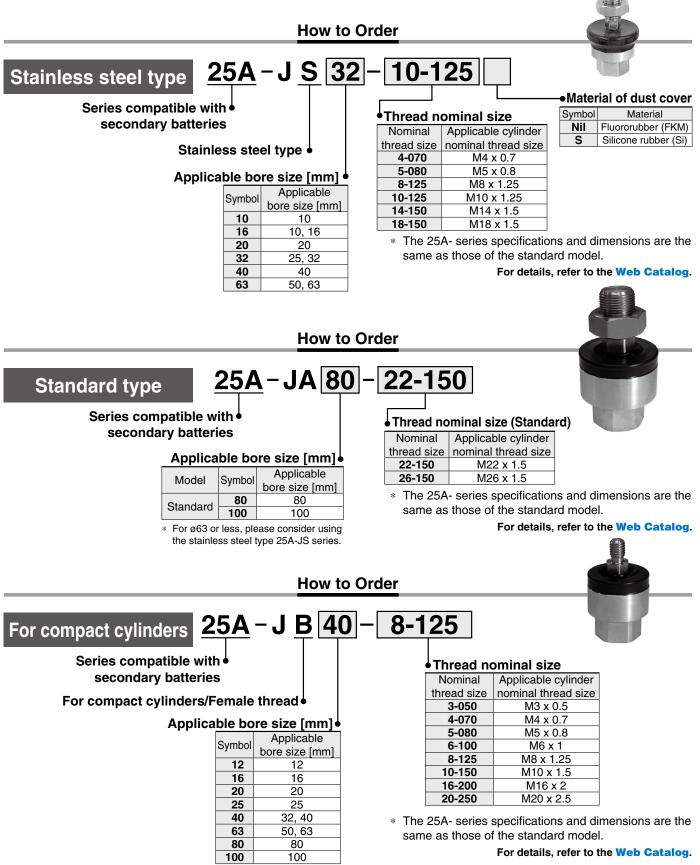
12 mm

15 mm

25 mm

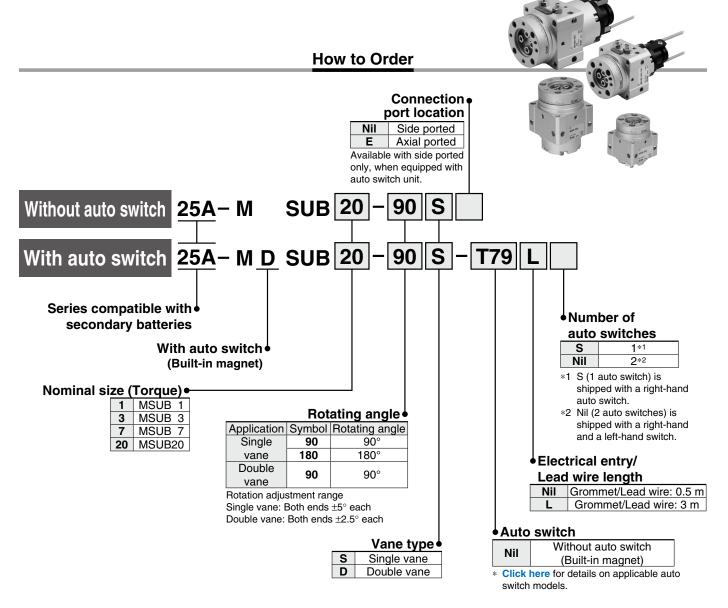
Floating Joint **25A-J** Series

RoHS



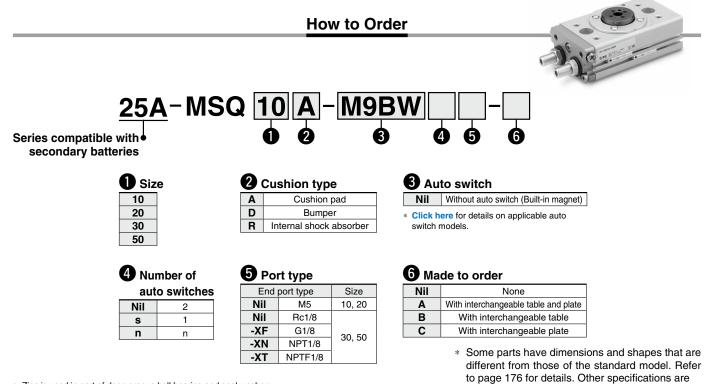
SMC

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.

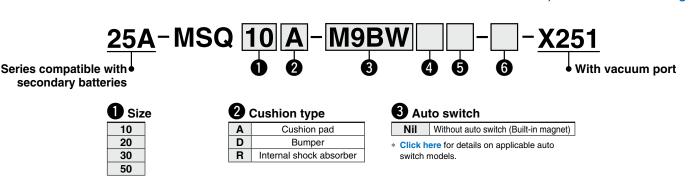
Rotary Table/Rack & Pinion Type **25A-MSQ Series** Size: 10, 20, 30, 50



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

For details, refer to the Web Catalog.

the same as those of the standard model.



6 Made to order

None

With interchangeable table

Nil

в

4 Number of			
auto switches			
Nil	2		
S	1		
n	n		

Port type					
End	Size				
Nil	M5	10, 20			
Nil	Rc1/8				
-XF	G1/8	30, 50			
-XN	NPT1/8	30, 50			
-XT	NPTF1/8				

*	Some parts have dimensions and shapes that are
	different from those of the standard model. Refer
	to page 176 for details. Other specifications are
	the same as those of the standard model.

Internal Shock Absorber Part Nos. for the 25A- Series

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

Size	Part no.					
10	25A-RBA0805-X692					
20	25A-BBA1006-X692					
30	20A-RDA1006-X692					
50 25A-RBA1411-X692						
* The part number is the same for the 25A-MSO-X251						

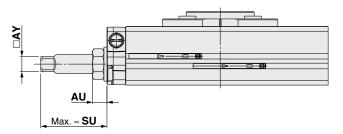
* The part number is the same for the 25A-MSQ-X251.

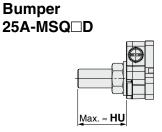


Rotary Table/Rack & Pinion Type **25A-MSQ** Series

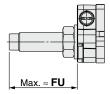
Dimensions

Basic type 25A-MSQ⊡A





Internal shock absorber 25A-MSQ

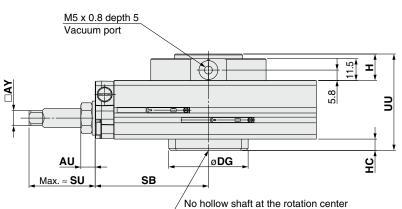


					[mm]
Size	AU	AY	FU	HU	SU
10	6.5	6	32	18	24
20	7.5	8	36	26	34
30	7.5	8	34	24	32
50	10	10	54	34	45.5

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

For details, refer to the Web Catalog.

With vacuum port 25A-MSQ□A-X251



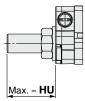
										[mm]
Size	AU	AY	DG	FU	н	HC	HU	SB	SU	UU
10	6.5	6	35h9	32	14.2	5	18	47.2	24	48.7
20	7.5	8	42h9	36	14	6	26	59.9	34	51
30	7.5	8	48h9	34	14	6	24	65.3	32	58
50	10	10	54h9	54	14	7	34	77.7	45.5	64

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

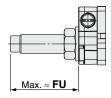
* The product with the vacuum port has no hollow shaft at its rotation center.

For details, refer to the Web Catalog.

Bumper 25A-MSQ⊡D-X251



Internal shock absorber 25A-MSQ□R-X251

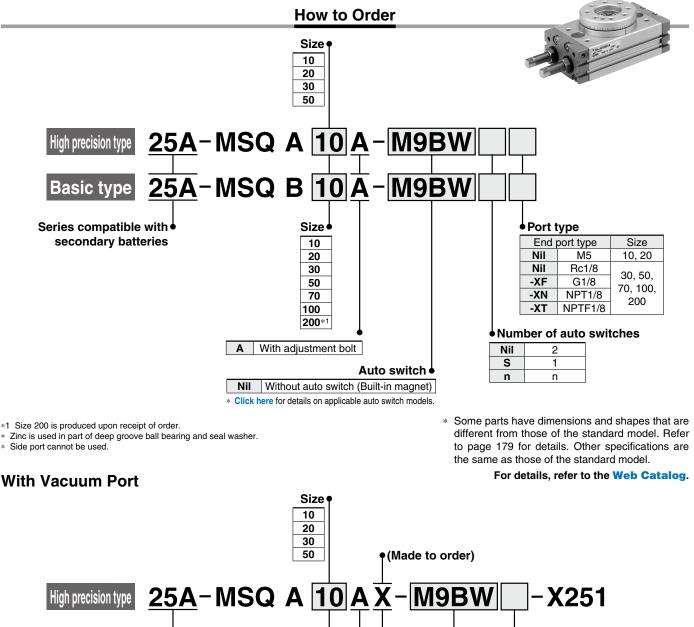


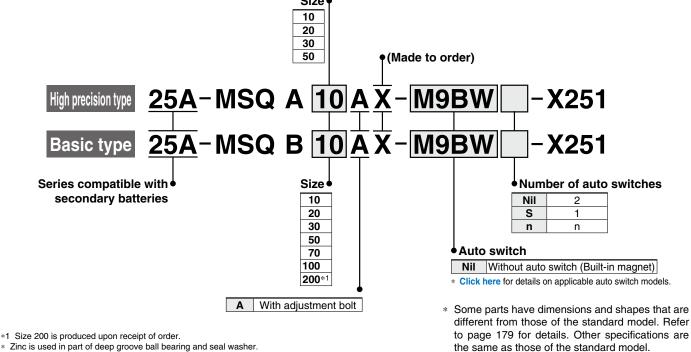
MSQ Series Made to Order Nade Please contact SMC for detailed dimensions, specifications, and delivery times. Symbol 1 With Interchangeable Table and Plate - R -A. **Applicable Rotary Table** Hexagon socket head cap screw Made to order With interchangeable Mode With interchangeable With interchangeable With interchangeable Note Interchangeable table В table table and plate table plate 25A-MSQ \cap Ο 25A-MSQ
-B-X251 \cap Parallel pin With interchangeable (Built into the 111 fundant 1111 How to Order Α table and plate interchangeable table) Standard model no. Interchangeable tab Made to order The interchangeable table and plate A With interchangeable table and plate can be ordered separately. For details, **B** With interchangeable table refer to the tables below. With interchangeable plate С The interchangeable table and plate are assembled before shipment. Part Nos. of Interchangeable Parts Interchangeable A Unit (With Interchangeable Table and Plate) Interchangeable Contents plate Size Part no. Description (Qty.) 10 P891010-53 Interchangeable table (1) Parallel pin (1) P891020-53 20 Hexagon socket head cap screw (4) Interchangeable plate (1) 30 P891030-53 Cross recessed head machine P891040-53 50 screw for precision instruments (2) Interchangeable plate Interchangeable B Unit (With Interchangeable Table) Through hole Cross recessed head Contents Size Part no. machine screw for With interchangeable Ĵ Description (Qty.) precision instruments С plate 10 P891010-54 Interchangeable table (1) 20 P891020-54 Parallel pin (1) * To position the product, use the knock pin holes on the body instead of 30 P891030-54 Hexagon socket head cap screw (4) the through holes that are empty in the interchangeable plate. P891040-54 50 Dimensions: The dimensions of the 25A-MSQ are the same as those of Interchangeable C Unit (With Interchangeable Plate) the standard product. Contents Refer below for the dimensions of the 25A-MSQD-B-X251 Size Part no. Description (Qty.) with a vacuum port. 10 P891010-55 · Interchangeable plate (1) 20 P891020-55 Cross recessed head machine P891030-55 30 screw for precision instruments (2) 50 P891040-55 Refer to the Web Catalog for the tightening torque of the interchangeable parts. Mounting diagram of the interchangeable table Dimensions Dimensions other than those shown below are the same as those of the basic type. Refer to the Web Catalog for details. With vacuum port/With interchangeable table **Bumper** 25A-MSQD-B-X251 25A-MSQ

A-B-X251 M5 x 0.8 depth 5 Vacuum port \equiv Ā Max. ≈ HŲ 5.8 В Internal shock absorber 25A-MSQ
R-B-X251 AU øDG ပ္ SB Max. ~ SU No hollow shaft at the rotation center (mm) Size AU AY DG FU н HC HU UU SB SU Max. ≈ FU 10 24 6.5 6 35h9 32 21 5 18 47.2 55.7 Dimensions other than those shown above are identical 7.5 6 20 8 42h9 36 23 26 59.9 34 60 to the standard products. 7.5 30 8 48h9 34 23 6 24 65.3 32 67 The product with the vacuum port has no hollow shaft at 50 10 10 54h9 26 7 34 45.5 75.5 54 77.7 its rotation center.



Rotary Table/Rack & Pinion Type 25A-MSQ Series Size: 10, 20, 30, 50, 70, 100, 200 RoHS





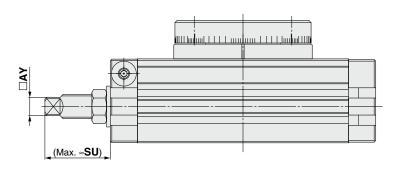
* Side port cannot be used.



25A-MSQ Series

Dimensions

25A-MSQB

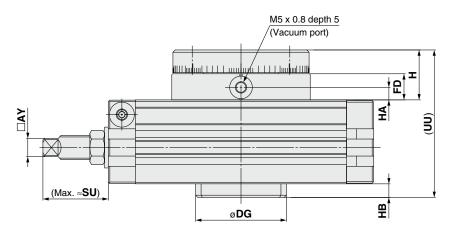


		[mm]
Size	AY	SU
10	6	23.7
20	8	33
30	8	33
50	10	42.9
70	16	44.2
100	16	44.3
200	21	52.2

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

For details, refer to the Web Catalog.

25A-MSQB AX-X251

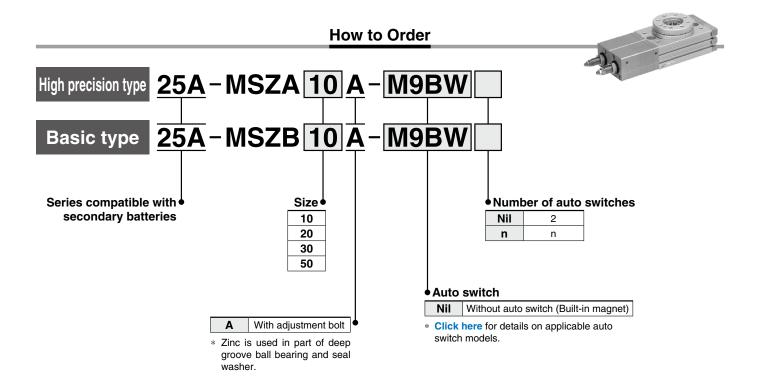


								[mm]
Size	AY	DG	FD	Н	HA	HB	SU	UU
10	6	35h9	11.5	20	5.5	5	23.7	59
20	8	40h9	11.5	22	5.5	6	33	65
30	8	48h9	11.5	22	5.5	6	33	68
50	10	54h9	11.5	24	5.5	7	42.9	77
70	16	50h9	12	25	6	7	44.2	85
100	16	52h9	12	27	6	7	44.3	93
200	21	64h9	15	32	7.5	8	52.2	114

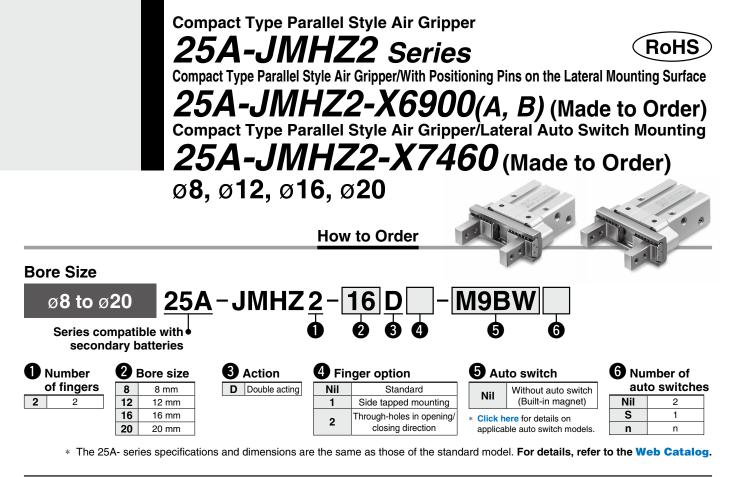
* The product with the vacuum port has no hollow shaft at its rotation center.

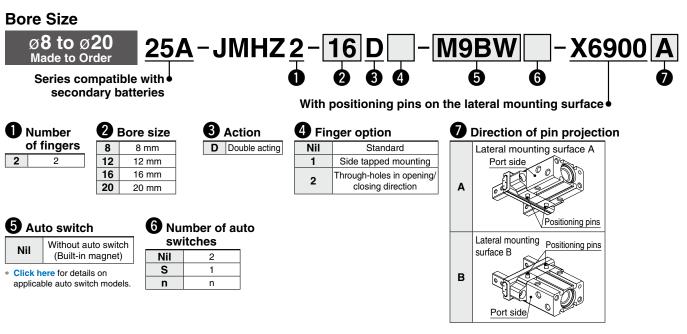
* Dimensions other than those shown above are identical to the standard products.

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

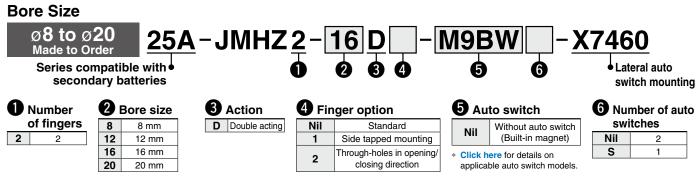


* The 25A- series specifications and dimensions are the same as those of the standard model.





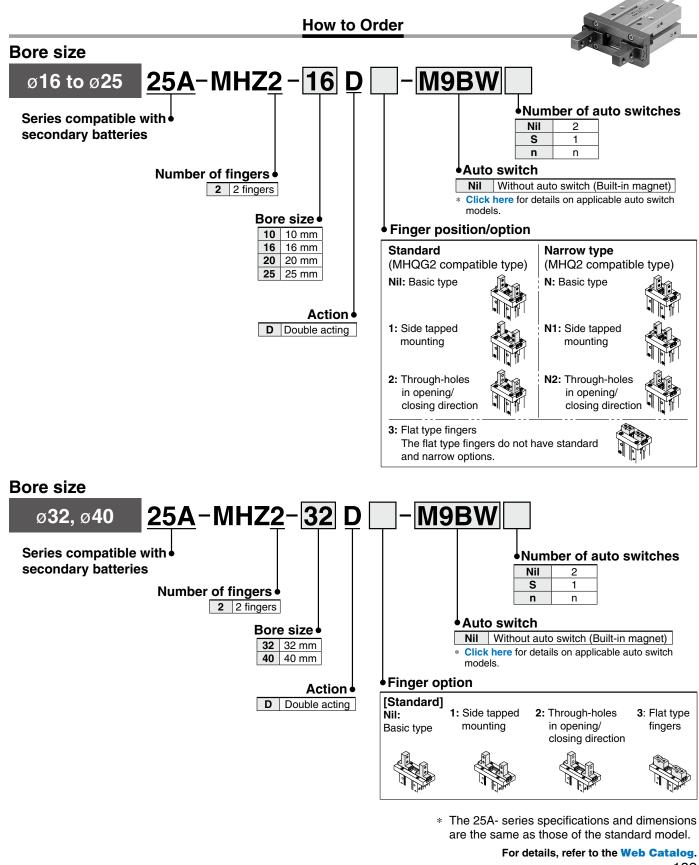
* The 25A- series have the same specifications and dimensions as those of the JMHZ2-X6900(A, B) (made-to-order individual specifications). For details, refer to the Web Catalog.



@SMC

* The 25A- series have the same specifications and dimensions as those of the JMHZ2-X7460 (made-to-order individual specifications). For details, refer to the Web Catalog.

Parallel Type Air Gripper Standard Type **25A-MHZ2 Series** ø10, ø16, ø20, ø25, ø32, ø40



SMC

Parallel Type Air Gripper Long Stroke Type **25A-MHZL2** Series RoHS ø10, ø16, ø20, ø25 How to Order 25A-MHZL2-16D -M9BW Series compatible with Number of auto switches secondary batteries Nil 2 S 1 n n Number of fingers 2 2 fingers Auto switch Nil Without auto switch (Built-in magnet) Bore size Click here for details on applicable auto switch Symbol Bore size [mm] models. 10 10 mm 16 16 mm Finger option 20 20 mm 25 25 mm Nil: Basic type

Action

D Double acting

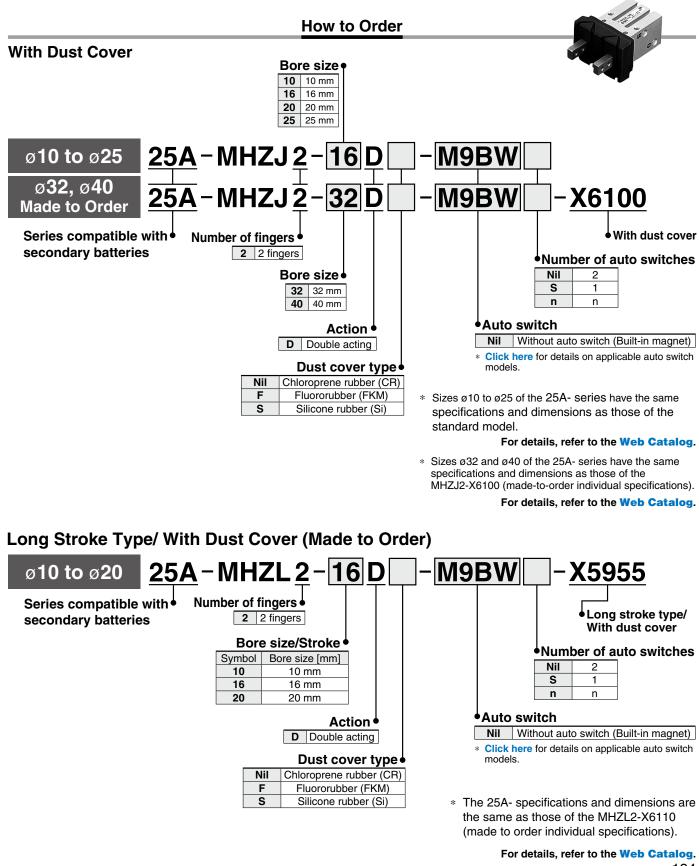
1: Side tapped

mounting

2: Through-holes in opening/closing direction3: Flat type fingers

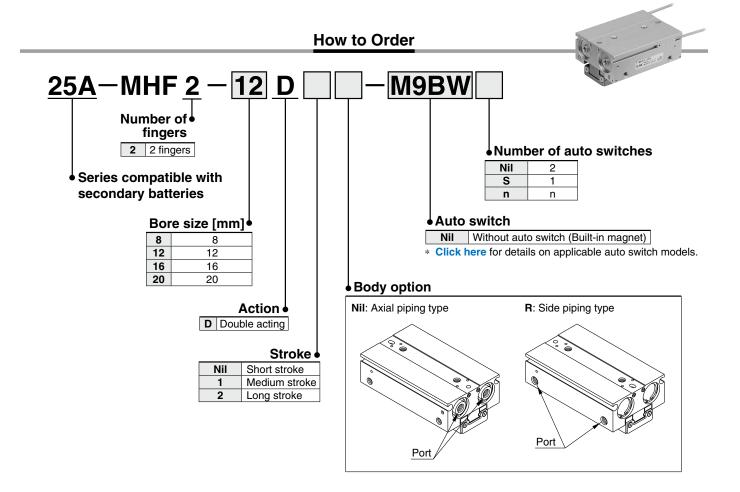
* The 25A- series specifications and dimensions are the same as those of the standard model.





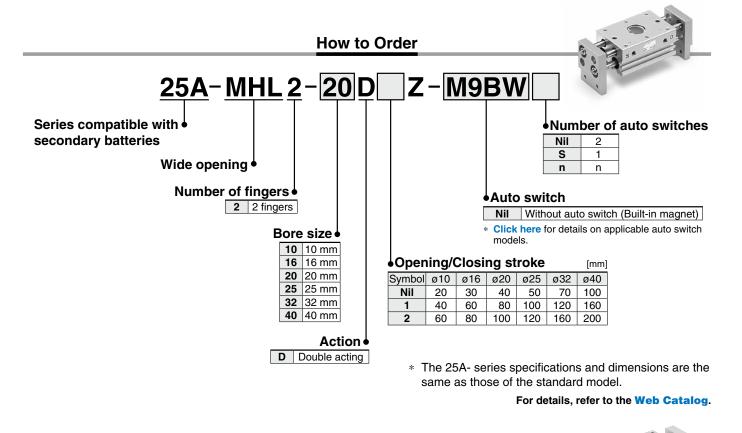
₿SMC

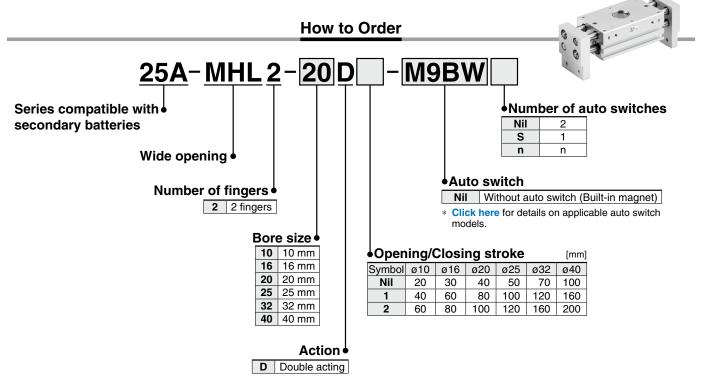
Low Profile Air Gripper **25A-MHF2 Series** Ø8, Ø12, Ø16, Ø20



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

Parallel Type Air Gripper: Wide Type **25A-MHL2 Series** Ø10, Ø16, Ø20, Ø25, Ø32, Ø40 RoHS





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



Parallel Type Air Gripper 25A-MHS Series ø16, ø20, ø25, ø32 RoHS How to Order <u>25A</u>-MHS <u>3</u>-20D-M9BW Number of auto switches Series compatible with Nil secondary batteries 2 S 1 Number of fingers Auto switch 3 3 fingers Nil Without auto switch (Built-in magnet) 4 4 fingers Click here for details on applicable auto switch

Action

D Double acting

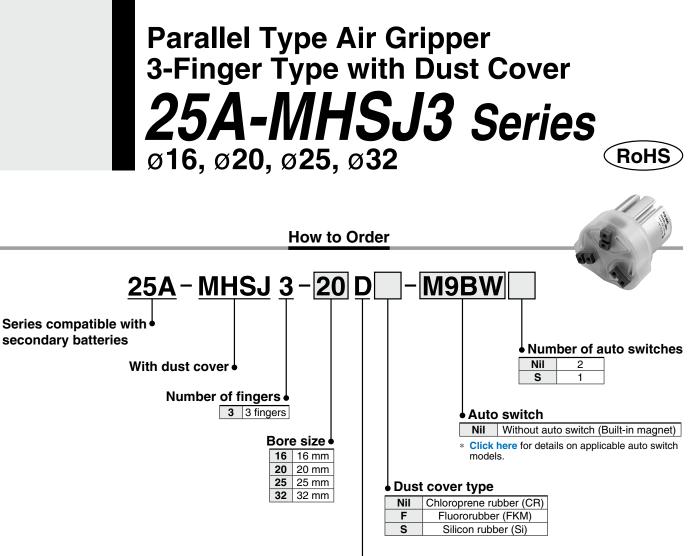
Bore size

16 16 mm

20 mm25 mm32 mm

models.

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

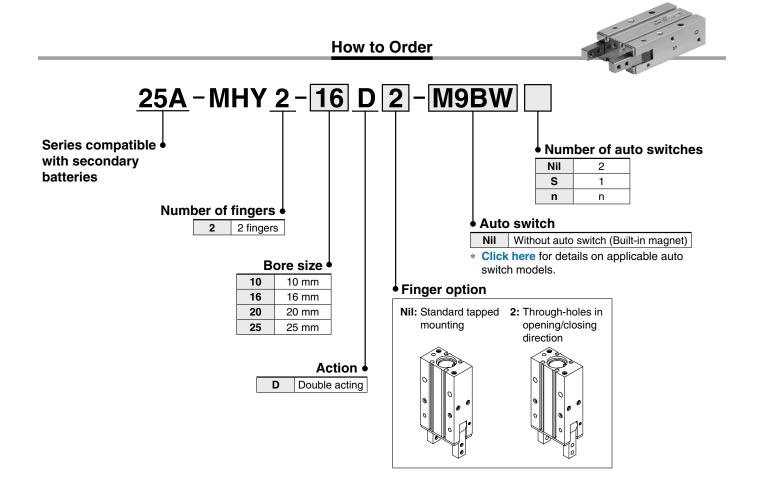


Action

D Double acting

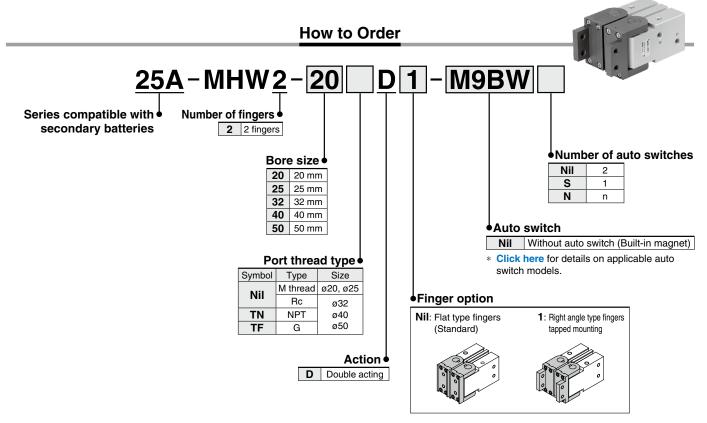
* The 25A- series specifications and dimensions are the same as those of the standard model.

180° Angular Type Air Gripper Cam Type **25A-MHY2 Series** Ø10, Ø16, Ø20, Ø25



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





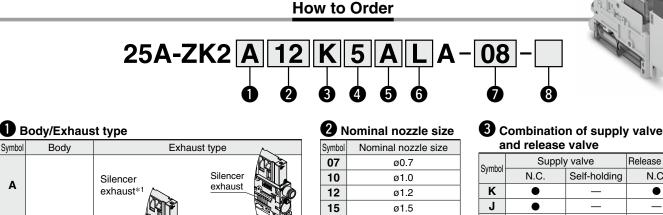
* Change of material and surface treatment are not available for the bearing or the parallel key.

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

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

Ejector System Vacuum Unit 25A-ZK2 A Series RoHS

Single Unit Ejector + With Valve + Without Energy Saving Function



The standard supply pressure of each nozzle diameter is the same as that of the corresponding standard product. For details, refer to the Web Catalog

Supply valve Release valve N.C. Self-holding N.C. •

R ●*2 *2 Supply valve maintains vacuum by energization (20 ms or

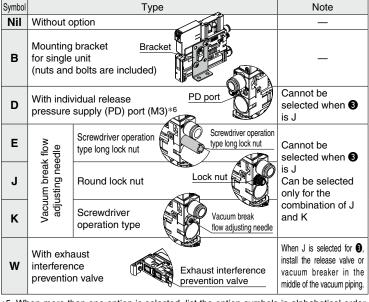
more). Stopping the vacuum turns on the release valve.

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

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

*4 For the connector length other than 300 mm, select L1 or L3, and order the connector assembly on page 194 separately.

8 Option*5 (For details on the Function/Application, refer to page 195.)



*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 ø6.2)

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

The manifold type is available as a special order.

A		Silencer exhaust*1	Silencer exhaust
в	Single unit	Port exhaust	Port exhaust
G		High-noise reduction silencer exhaust	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

• Pressure switch for vacuum/Pressure sensor

		_	Specifications			
Symbol	Туре	Pressure range [kPa]	NPN	PNP	With unit selection	
			2 ou	tputs	function*3	
Α			•	—	•	
В	for	0.4- 4.04	•	—	None (SI unit only)	
С	, tch	0 to -101			•	
D	swit		—	•	None (SI unit only)	
Ε	act		•	—	•	
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				
Т	sensor	-100 to 100	 Analog output 1 to 5 V 			
Ν	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.

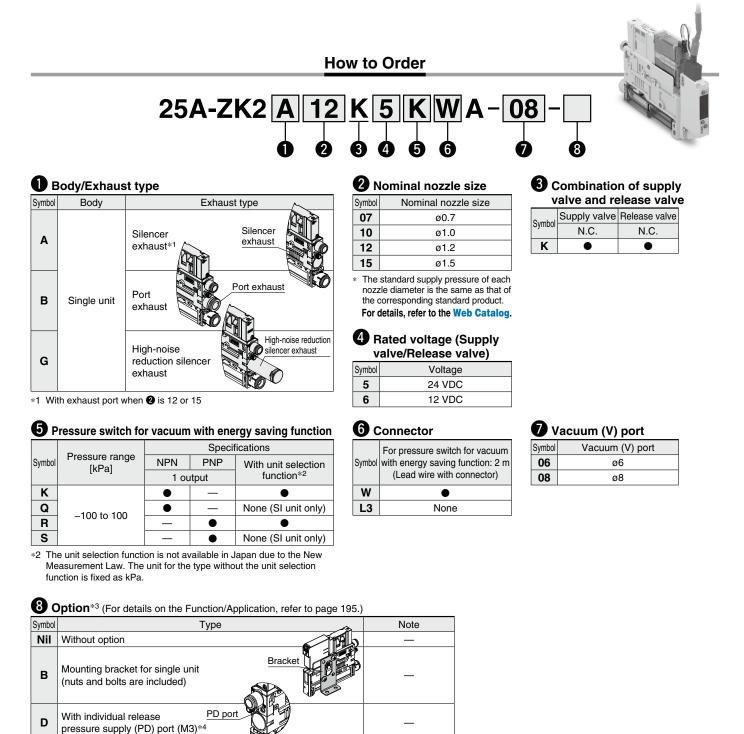
🕖 Vacuum (V) port

Symbol Vacuum (V) p				
06	ø6			
08 ø8				



Ejector System Vacuum Unit 25A-ZK2 A Series RoHS

Single Unit Ejector + With Valve + With Energy Saving Function



*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 ø6.2)

Screwdriver operation

type long lock nut

Round lock nut

Screwdriver

operation type

Ε

J

κ

flow

Vacuum break flov adjusting needle

Screwdriver operation

Lock nu

type long lock nut

Vacuum break

flow adjusting needle

For details, refer to the Web Catalog. 192

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

The manifold type is available as a special order.

of the standard model.



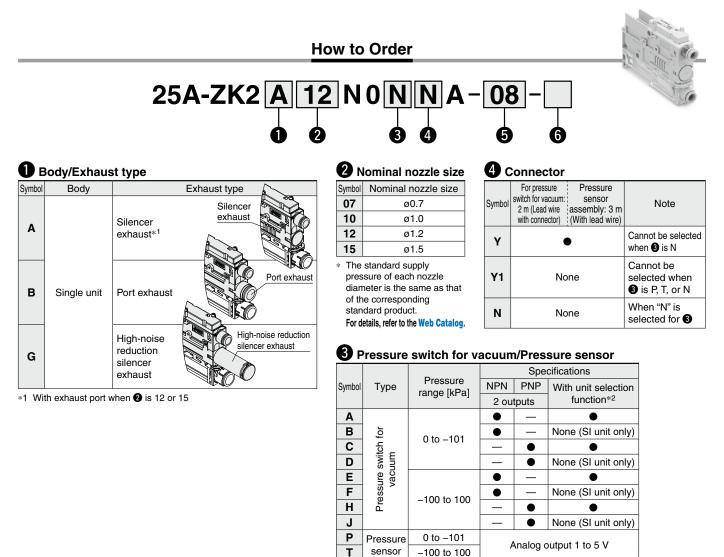
Can be selected only for the

combination of J

and K

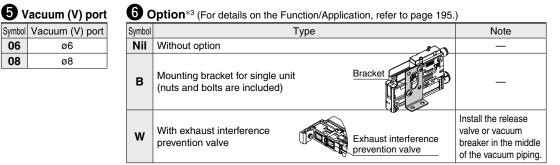
Ejector System Vacuum Unit 25A-ZK2 A Series RoHS

Single Unit Ejector + Without Valve + Without Energy Saving Function



Ν Without pressure switch for vacuum/pressure 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.



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

The manifold type is available as a special order.

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



Symbol

06

08

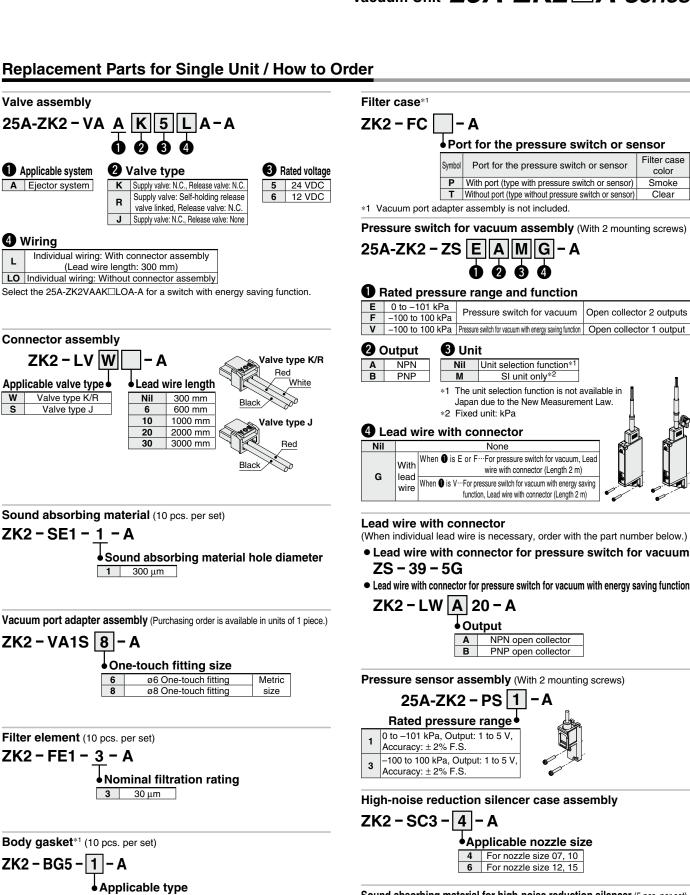
Filter case

color

Smoke

Clear

Open collector 2 outputs



One check valve type

(All specifications other than vacuum switch with energy saving function and exhaust interference prevention valve)

Two check valve type

(Vacuum switch with energy saving function and exhaust interference prevention valve)

*1 When ZK2-BG5-2-A is mounted, the workpiece cannot be removed until

1

2

vacuum is released.

•Applicable nozzle size 4 For nozzle size 07, 10 6 For nozzle size 12, 15

Sound absorbing material for high-noise reduction silencer (5 pcs. per set)

ZK2 - SE4 - 6 - A

Release lever (10 pcs. per set)

ZK2 – RL1 – A

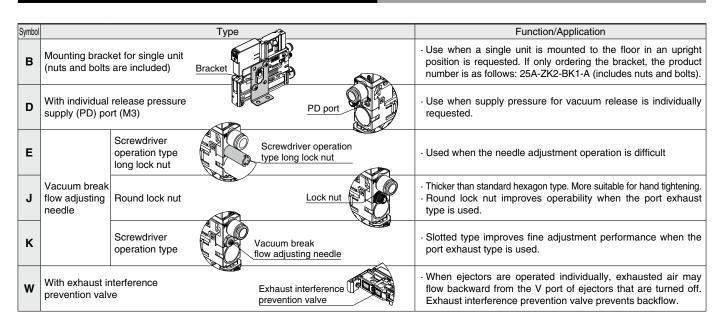
Lock nut (10 pcs. per set)

25A-ZK2 – LN1 – A

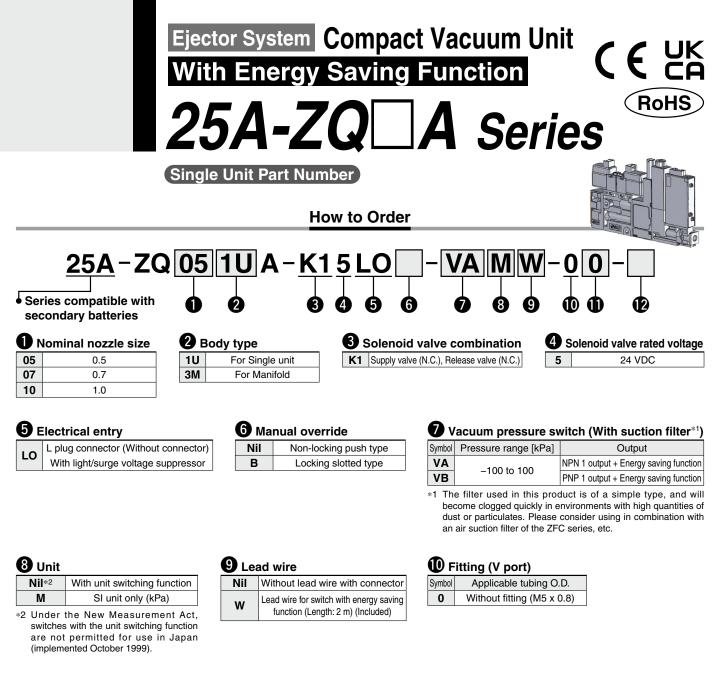
SMC

25A-ZK2 A Series

Optional Specifications/Functions/Applications







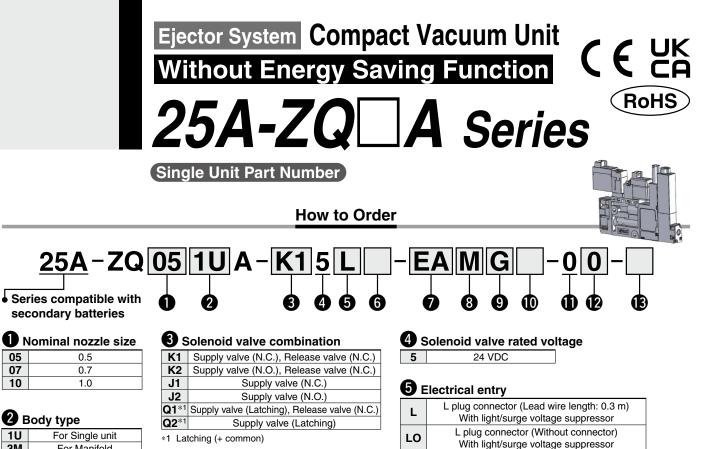
Symbol	Applicable tubing O.D.	Specification
Nil	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

Doption

	Bracket for single unit		
	Single unit Manifold		
Nil	With Without		
Ν	Without	Not available	

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

For details, refer to the Web Catalog.



3111	For Maniloid	

6 Manual override

	Non-locking push type
Nil	Latching:
	Push-locking slotted type
B *2	Locking slotted type

*2 When "Q1" is selected in
, the locking slotted type is only available in the release valve. This option cannot be chosen when "Q2" is

selected in **3**.

7 Vacuum pressure switch (With suction filter*3)

	• · · · · · · · · · · · · · · · · · · ·			
Symbol	Pressure range [kPa]	Output		
EA	0 to -100	NPN 2 outputs		
EB		PNP 2 outputs		
EC		NPN 1 output + Analog voltage		
EE		PNP 1 output + Analog voltage		
FA	-100 to 100	NPN 2 outputs		
FB		PNP 2 outputs		
FC		NPN 1 output + Analog voltage		
FE		PNP 1 output + Analog voltage		
F *4	Suction filter only			

*3 The filter used in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please consider using in combination with an air suction filter of the ZFC series, etc.

*4 It is not necessary to select the items for (3) and (9).

Nil	None
K *7	With check valve

*6 The check valve has a function to prevent the exhaust air from the exhaust unit overflowing to the vacuum port side when a manifold is used, but it cannot prevent overflow of the exhaust air completely. During usage, please inspect thoroughly with actual machine.

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

*7 Cannot be selected when ② is "1U" In addition, for the type with a check valve, the air in the adsorption part is not released to the atmosphere when vacuum is stopped. If "J1," "J2," or "Q2" is selected for ③, be sure to also install a circuit for vacuum release.

Warning

- · Cannot be used for vacuum retention
- Use a release valve. Without a release valve, a workpiece may not be released.

D Fitting (V port)

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

Pitting (P port)

8 Unit Nil*5

Μ

P*5

9 Lead wire

Nil

G

For Manifold (9: 3M)

With unit switching function

SI unit only (kPa) With unit switching function

(Initial value: psi)

Without lead wire with

connector

Lead wire with connector

(Length: 2 m) (Included)

*5 Under the New Measurement Act,

(implemented October 1999).

switches with the unit switching function are not permitted for use in Japan

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

Option Ear Single Unit (

For Single Unit (2: 1U)

Symbol	Bracket assembly	Converter assembly for solenoid valve*8	Symbol		Converter assembly for solenoid valve*8
Nil O —		Nil	—	—	
N	—	—	S	0	—
С	—	0	С	—	0
D	0	0	E	0	0

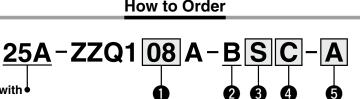
- *8 A converter assembly for attaching the VQ100 lead wire assembly with a connector to the ZQ-A is included. Refer to the "Converter assembly for solenoid valve" in the Web Catalog. "Q2" cannot be selected in ③. Select "LO" in ⑤.
- *9 Select "C" for (1) for the manifold part number on page 180-3. "J1", "J2", or "Q2" cannot be selected in (3). For a release pressure supply pressure of 0.3 MPa or lower, select "S" or "E."
- * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.



Ejector System Compact Vacuum Unit 25A-ZQ A Series Rolls Manifold Part Number





Series compatible with secondary batteries

Stations^{*1}

-	
01	1 station
02	2 stations
:	:
08	8 stations

*1 Number of stations varies according to nominal nozzle size during simultaneous operation. (Table 1)

Table 1. Max. Number of Stations that Can Operate Simultaneously*2

Nominal nozzle size	Max. number of stations that can operate simultaneously
0.5	8 stations
0.7	6 stations
1.0	4 stations

*2 For any of the nominal nozzle sizes, the max. number of stations that can be mounted is 8. However, please ensure that the max. number of stations that are operated simultaneously comply with the values above.

2 A	Air pressure supply (P) port location
B	Both sides

Provide the second s

в	None (Release pressure: Commonly supplied from the P port)
C *3	Provided (Release pressure: Supplied from the PD port)

*3 For a release pressure supply pressure of 0.3 MPa or lower (for an individual unit without the energy-saving function), select "S" or "E" for (B) for the single unit part number on page 198.

B Exhaust

-	
S	Silencer exhaust (Both sides)
Ρ	Port exhaust (Both sides)

5 Shipping configuration

Nil	Assembled as a vacuum unit
A *4	Manifold unit only
.4 4 9 9	t of and blocks and the alarma ra

A set of end blocks and the clamp rod assembly is included in this manifold unit. (Used for the maintenance of the end block)

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

For details, refer to the Web Catalog.

Manifold Order Example

∕⁄∂SMC

25A-ZZQ104A-BSB------ 1 pc.

* 25A-ZQ053MA-K15L-EAG-0 \cdots 2 pcs. \rightarrow Stations 1 and 2

* 25A-ZQ103MA-K15L-F-0 \cdots 2 pcs. \rightarrow Stations 3 and 4 When the manifold is viewed from the vacuum (V) port, the first station starts from the left.

25A-ZQ053MA-K15L-EAG-0 (2 pcs.) and 25A-ZQ103MA-K15L-F-0 (2 pcs.) are arranged from the first station.

Vacuum (V) port .7 Stations If "*" is not entered, the manifold and single unit will be shipped without being assembled.

- When the manifold and the units are not assembled, please assemble them by referring to
- "How to increase/decrease manifold stations" in the Web Catalog. There is nothing else to arrange additionally.

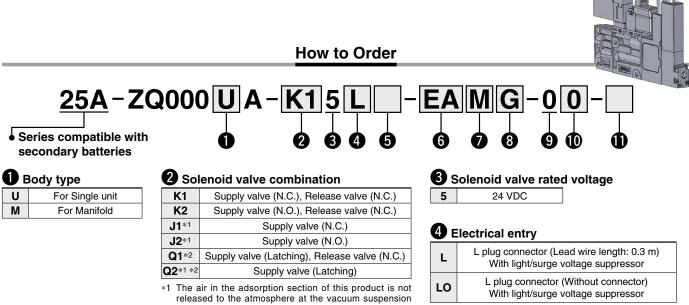
The asterisk (*) denotes the symbol for the assembly.

🗥 Caution when ordering manifold

Prefix it to the single unit part number.

I. I.

Vacuum Pump System Compact Vacuum Unit 25A-ZQ A Series RoHS Single Unit Part Number



state. Devise the circuit for the vacuum release additionally.

*2 Latching (+ common)

L	L plug connector (Lead wire length: 0.3 m) With light/surge voltage suppressor
LO	L plug connector (Without connector) With light/surge voltage suppressor

5 Manual override

Nil	Non-locking push type
INII	Latching: Push-locking slotted type
B *3	Locking slotted type

*3 When "Q1" is selected in 2, the locking slotted type is only available in the release valve. This option cannot be chosen when "Q2" is selected

in 🛛

6 Vacuum pressure switch (With suction filter^{*4})

Symbol	Pressure range [kPa]	Output		
EA		NPN 2 outputs		
EB	0 to -100	PNP 2 outputs		
EC		NPN 1 output + Analog voltage		
EE		PNP 1 output + Analog voltage		
FA		NPN 2 outputs		
FB		PNP 2 outputs		
FC	–100 to 100	NPN 1 output + Analog voltage		
FE		PNP 1 output + Analog voltage		
F * ⁵	Suction f	ilter only		

- *4 The filter used in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please consider using in combination with an air suction filter of the ZFC series, etc.
- ∗5 It is not necessary to select the items for ⑦ and ⑧

🖸 Unit

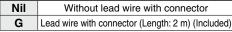
Nil*6	With unit switching function
М	SI unit only (kPa)
P *6	With unit switching function (Initial value: psi)

*6 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan (implemented October 1999).

Fitting (PS/PV port)

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

8 Lead wire



9 Fitting (V port)

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

D Option

For Sing	gle Unit (0: U)		For Manifold (① : M)			
Symbol	Bracket assembly	Converter assembly for solenoid valve*7	Symbol		Converter assembly for solenoid valve*7	
Nil	0	—	Nil	_	_	
Ν	—	—	S	0	—	
С	—	0	С	—	0	
D	0	0	E	0	0	

A converter assembly for attaching the VQ100 lead wire assembly with a connector to the ZQ-A is included. Refer to the "Converter Assembly for Solenoid Valve" in the **Web Catalog**. *7 Q2" cannot be selected in 2. Select "LO" in 4.

*8 Select "C" for (3) for the manifold part number on page 201. "J1", "J2", or "Q2" cannot be selected in 2. For a release pressure supply pressure of 0.3 MPa or lower, select "S" or "E."

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

For details, refer to the Web Catalog.



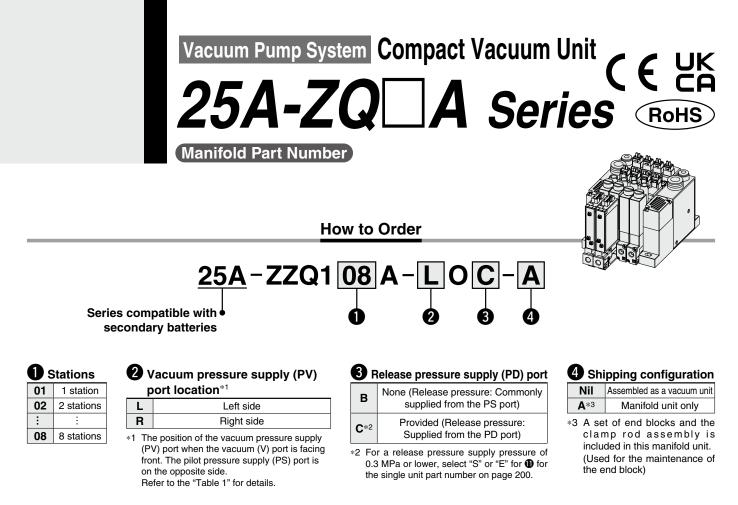


Table 1. Location of Each Port

PV port location	3 PD port	Left side with the V port facing the front		Right side with the V port facing the front			
	SPD port	PS port	PV port	PD port	PS port	PV port	PD port
L	В	—	•	—	•	—	—
	С	—	•	•	•	_	•
R	В	•	_	_	_	•	—
	С	•	—	•	—	•	•

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

3 4

Stations

For details, refer to the Web Catalog.

Manifold Order Example

25A-ZZQ104A-ROB 1 pc.

* 25A-ZQ000MA-K15L-EAG-0… 2 pcs. \rightarrow Stations 1 and 2 * 25A-ZQ000MA-K15L-F-0 …… 2 pcs. \rightarrow Stations 3 and 4

* When the manifold is viewed from the vacuum (V) port, the first station starts from the left.

25A-ZQ000MA-K15L-EAG-0 (2 pcs.) and 25A-ZQ000MA-K15L-F-0 (2 pcs.) are arranged from the first station.

Vacuum (V) port

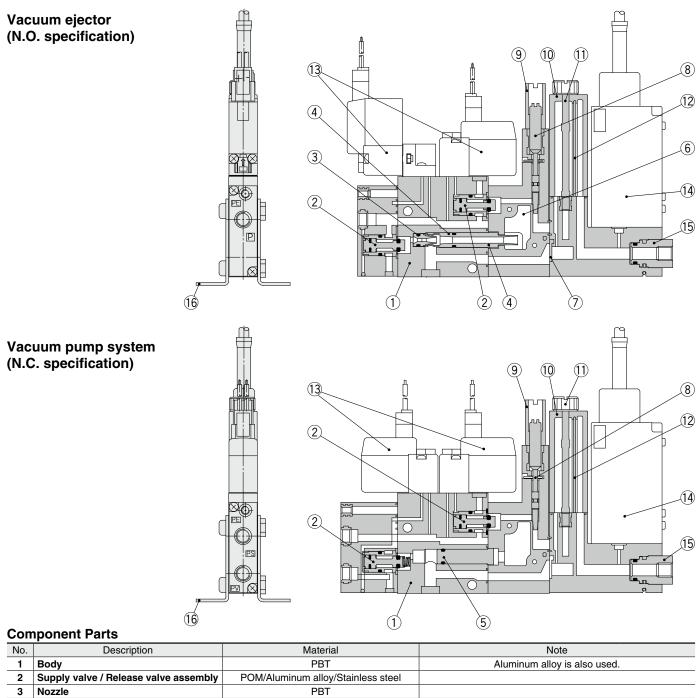
∕⁄∂SMC

▲ Caution when ordering manifold

- The asterisk (*) denotes the symbol for the assembly.
- Prefix it to the single unit part number.
- I If "*" is not entered, the manifold and single unit will be shipped without being assembled.
- When the manifold and the units are not assembled, please assemble them by referring to
- I "How to increase/decrease manifold stations" in the Web Catalog.
- There is nothing else to arrange additionally.

Compact Vacuum Unit **25A-ZQ** A Series

Construction

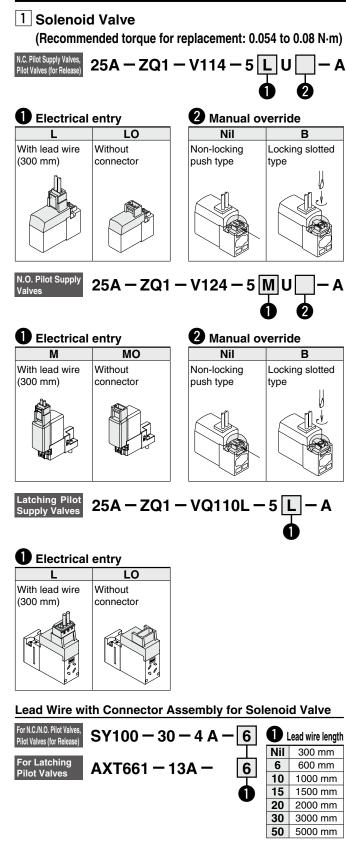


Refer to 3 on page 204 for how to order. (When replacing the sound absorbing material, order a silencer plate assembly.)		
Refer to 6 on page 204 for how to order.		
order.		
order.		
order.		
order.		
order.		



25A-ZQ A Series

How to Order Replacement Parts for Single Unit



Connector and Socket for Solenoid Valve

 For N.C.N.O. Pilot Valves,
 SY100-30-A
 * With connector and sockets only

 Pilot Valves
 (Number of sockets: 2)
 * With connector and sockets only

 For Latching
 AXT661-12A
 * Unumber of sockets: 3)

2 Vacuum Pressure Switch (With Suction Filter) (Recommended torque for replacement: 0.11 to 0.13 N·m)



Vacuum pressure switch

U 140								
Symbol	Pressure range [kPa]	Output						
EA		NPN 2 outputs						
EB	0 to -100	PNP 2 outputs						
EC	010-100	NPN 1 output + Analog voltage						
EE		PNP 1 output + Analog voltage						
FA	-100 to 100	NPN 2 outputs						
FB		PNP 2 outputs						
FC		NPN 1 output + Analog voltage						
FE		PNP 1 output + Analog voltage						
VA *1		NPN 1 output + Energy saving control						
VB *1		PNP 1 output + Energy saving control						

*1 It is not possible to replace the vacuum pressure switch from the specification without energy saving function to the specification with energy saving function.

2 Unit

Nil*2 With unit switching function			
M SI unit only (kPa)			
P *2, *3	With unit switching function (Initial value: psi)		

*2 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan (implemented October 1999).
*3 Cannot be selected when ① is "VA" or "VB"

3 Lead wire

Nil	Without lead wire with connector
G	Lead wire with connector (Length: 2 m) (Included)
W	Lead wire for switch with energy saving function (Length: 2 m) (Included)

4 Check valve*4

Nil	None
K *5	With check valve

*4 The check valve has a function to prevent the exhaust air from the exhaust unit overflowing to the vacuum port side when a manifold is used, but it cannot prevent overflow of the exhaust air completely. During usage, please inspect thoroughly with actual machine. Also, in order to completely prevent the overflow of exhaust air, leave

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

*5 When "VA" or "VB" is specified for $lackbda{0}$, the check valve is already built in.

\land Warning

1. Cannot be used for vacuum retention

2. Use a release valve. Without a release valve, a workpiece may not be released.

5 Fitting (V port)

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

Lead Wire with Connector Assembly for Vacuum Pressure Switch

(When an individual lead wire is necessary, order with the part numbers below.)

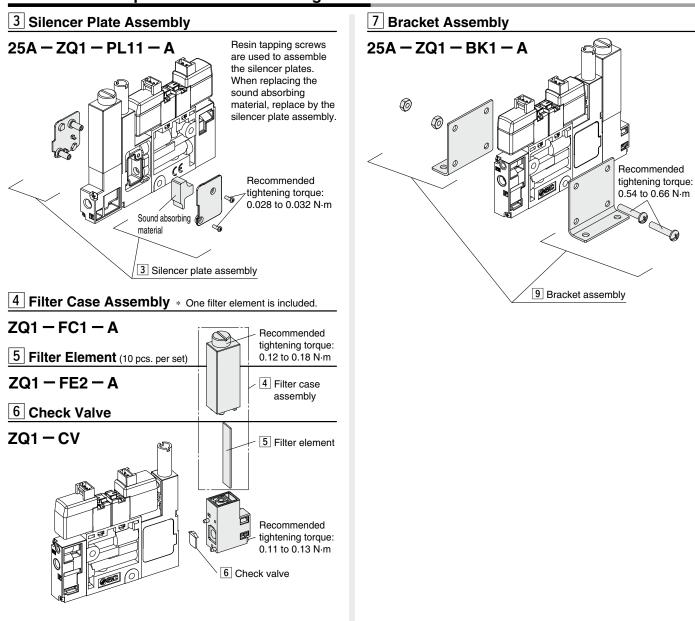
\cdot Lead wire with connector for vacuum pressure switch

ZS – 39 – 5G

SMC

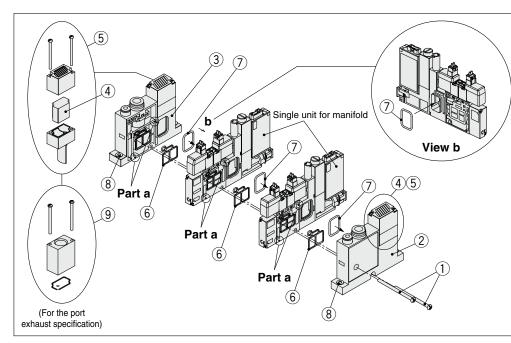
 \cdot Lead wire with connector for pressure switch with energy saving function





How to Order Replacement Parts for Single Unit

Compact Vacuum Unit/25A-ZQ A Series



How to increase/decrease manifold stations

Disassembly

- 1. Remove 2 clamp rods ①.
- 2. Remove end block L ②. (Be careful not to drop the gasket.)

Assembly

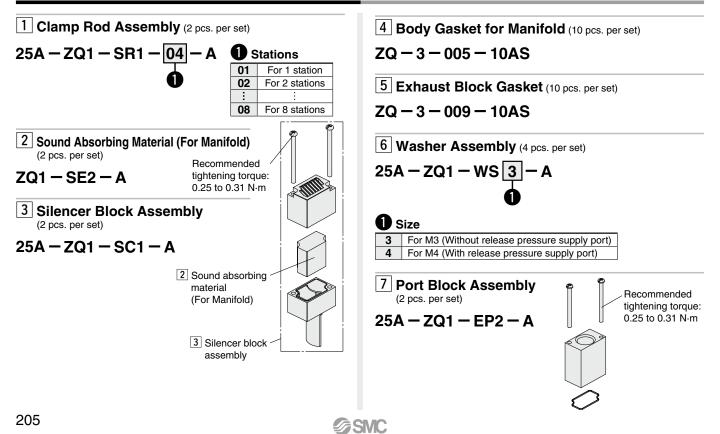
- Confirm that the body gasket for manifold (6) is attached to the gasket groove on each single unit and that the exhaust block gasket (7) is also attached to the outer side of the raised part. (See View b.)
- 2. Confirm that the body gasket for manifold (6) is attached to the gasket groove on end block R (3).
- 3. Confirm that the exhaust block gasket $(\overline{2})$ is attached to the outer side of the raised part on end block L $(\overline{2})$.

4. Put together the single units for manifold, end block R ③, and end block L ② using the positioning pins (at two "a" locations), and assemble them using the clamp rods ①. Tightening torque: 0.54 to 0.66 N·m

Component Parts

No.	Description	Material	Note
1	Clamp rod assembly	Steel (Electroless nickel plating)	Refer to 1 below for how to order.
2	End block L	PBT, POM, PET, Steel, Aluminum alloy, Stainless steel	Left side with the vacuum (V) port facing the front
3	End block R	PBT, POM, PET, Steel, Aluminum alloy, Stainless steel	Right side with the vacuum (V) port facing the front
4	Sound absorbing material (For Manifold)	Non-woven fabric (PET)	Refer to 2 below for how to order.
5	Silencer block assembly	PBT	Refer to 3 below for how to order.
6	Body gasket for manifold	NBR	Refer to 4 below for how to order.
7	Exhaust block gasket	NBR	Refer to 5 below for how to order.
8	Washer assembly	Stainless steel	Refer to 6 below for how to order.
9	Port block assembly	Aluminum alloy, Steel (Electroless nickel plating), NBR	Refer to 7 below for how to order.

How to Order Replacement Parts for Manifold



This product **(only the One-touch fitting port type)** is a secondary battery compatible product. For details, refer to the **Web Catalog**.

Vacuum Ejector Body Ported Type/Box Type (Built-in Silencer)

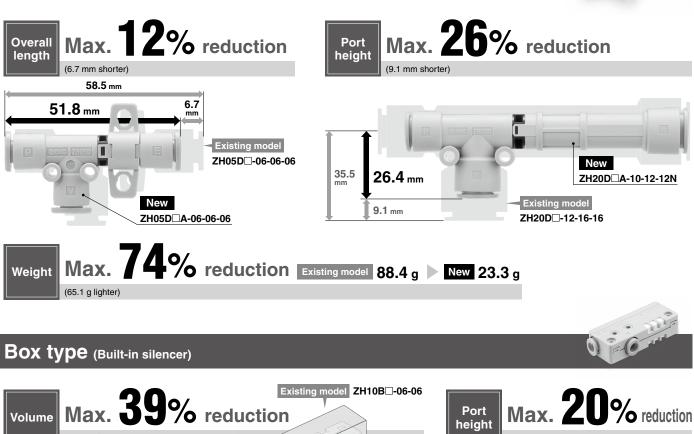
ZH Series

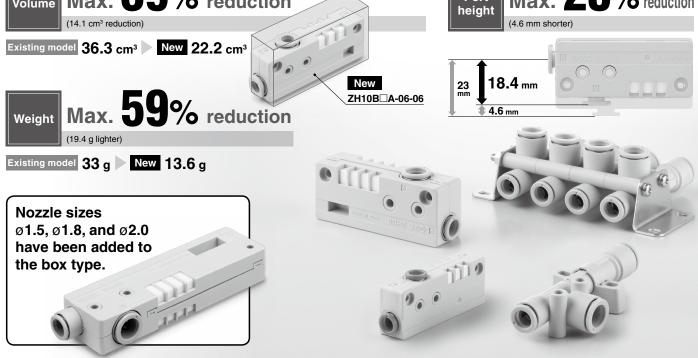
RoHS

Compact and lightweight

Body ported type

Port size: G threads have been added.





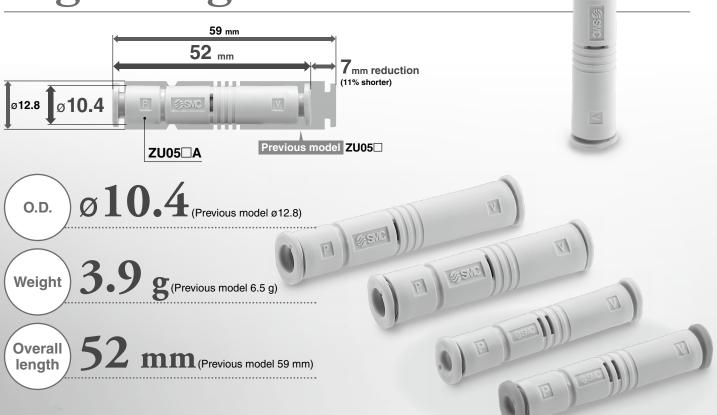
This product (only the One-touch fitting port type) is a secondary battery compatible product. For details, refer to the Web Catalog.

In-line Type Vacuum Ejector

ZU A Series

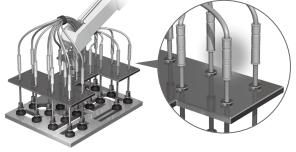
(RoHS)

Compact and Lightweight

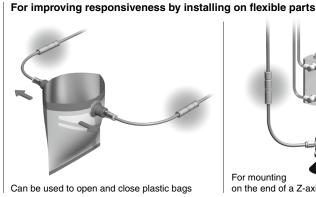


Application Examples

For preventing pad adsorption failures from the vacuum source



Numerous pads can be used to adsorb workpieces with holes.



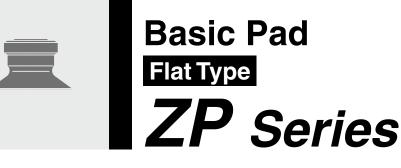


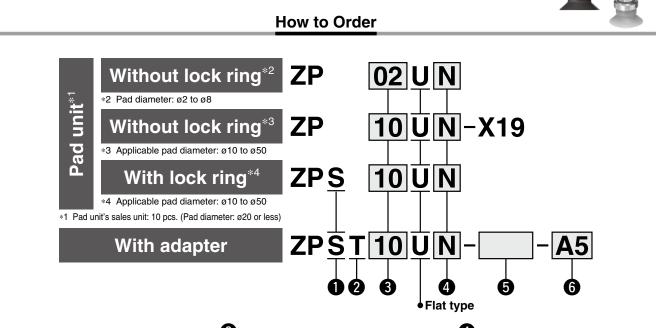
For mounting on the end of a Z-axis air cylinder

Variations

Model	Nozzle size	Standard supply	Ultimate vacuum pressure [kPa]		Maximum suction flow rate [L/min (ANR)]		Air consumption	Port size
MOdel	[mm]	pressure [MPa]	Type S	Type L	Type S	Type L	[L/min (ANR)]	FUITSIZE
ZU03⊟A	0.3	0.25	-85	-40	1.8	3.4	4.2	ø4 One-touch fitting
ZU04⊟A	0.4	0.35	-87	-40	3.2	5.8	7.7	ø5/32"
ZU05⊟A	0.5	0.45	00	40	7	13	14	ø6 One-touch fitting
ZU07⊟A	0.7	0.45	-90	-48	11	16	28	Rc1/8
007								









Vertical

2 Vacuum inlet direction

Pad diameter

-			
02	ø2	16	ø16
04	ø4	20	ø20
06	ø6	25	ø25
08	ø8	32	ø32
10	ø10	40	ø40
13	ø13	50	ø50

With adapter

5 Vacu	uum inl	et				
Turne	Sumbol	Size		Pad diam	eter [mm]	
Туре	Symbol	Size	ø2 to ø8	ø10 to ø16	ø20 to ø32	ø40, ø50
	A5	M5 x 0.8	O*1	—	—	—
	AS5	NID X U.O	—	○*1	○*1	—
Male	A6	M6 x 1	O*1	—	—	—
thread	AS6		—	○*1	○*1	⊖*1
	AG01	G1/8	—	O*1	O*1	—
	AG02	G1/4	—	—	—	⊖*1
	Nil	M3 x 0.5	_	○ (⑥ Connection thread: A5/A6)	○ (⑥ Connection thread: A6)	○ (⑤ Connection thread: A6)
		M5 x 0.8	_	_	○ (⑥ Connection thread: A8)	○ (6 Connection thread: A8)
F	B4	M4 x 0.7	O*1	_	—	—
Female thread	B5	M5 x 0.8	O*1	O*1	O*1	—
uneau	B6	M6 x 1	_	○*1	○*1	⊖*1
	B8	M8 x 1.25	_	—	O*1	⊖*1
	B01	Rc1/8	_	○*1	○*1	⊖*1
	BG01	G1/8	_	O*1	O*1	_
	BG02	G1/4	—	—	—	O*1

*1 Use the connection thread.

6 Connection thread

Туре	Symbol	Size	Pad diameter [mm]				
		Size	ø2 to ø8	ø10 to ø16	ø20 to ø32	ø40, ø50	
Male thread	A5	M5 x 0.8	—	O*2	—	_	
	A6	M6 x 1	—	O*2	()*2	O*2	
	A8	M8 x 1	_	—	⊖*2	○*2	

4 Material

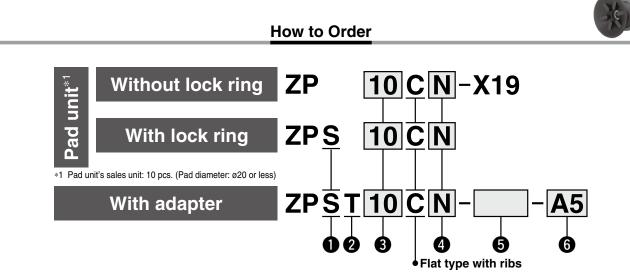
Ν	NBR			
S	Silicone rubber*1 *2			
U	Urethane rubber			
F	F FKM			
GN	GN Conductive NBR			
GS	Conductive silicone rubber			

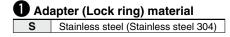
- *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"
- *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/ Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)

Lock ring unit

	<u> </u>
Part no.	Pad diameter [mm]
ZPSL1	ø10 to ø16
ZPSL2	ø20 to ø32
ZPSL3	ø40, ø50







2 Vacuum inlet direction

B Pad diameter

D Pac	d diameter
10	ø10
13	ø13
16	ø16
20	ø20
25	ø25
32	ø32
40	ø40
50	ø50

4 Material

Waterial					
Ν	NBR				
S	Silicone rubber*1 *2				
U	Urethane rubber				
F	FKM				
GN	Conductive NBR				
GS	Conductive silicone rubber				

- *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"
- *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/ Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)

Lock ring unit

	guine
Part no.	Pad diameter [mm]
ZPSL1	ø10 to ø16
ZPSL2	ø20 to ø32
ZPSL3	ø40, ø50

Vertical

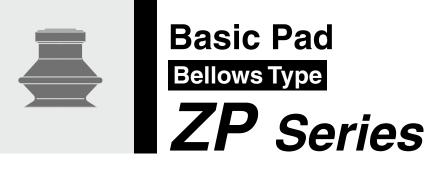
5 Vacı	um inl	et					
Tuno	0	Cine	Pad diameter [mm]				
Туре	Symbol	Size	ø10 to ø16	ø20 to ø32	ø40, ø50		
	AS5	M5 x 0.8	O*2	O*2	—		
Male	AS6	M6 x 1	⊖*2	⊖*2	O*2		
thread	AG01	G1/8	O*2	O*2	—		
AG02		G1/4	—	—	O*2		
Ni	N.:	M3 x 0.5	○ (⑥ Connection thread: A5/A6)	○ (⑥ Connection thread: A6)	○ (6 Connection thread: A6)		
	INII	M5 x 0.8	_	○ (⑥ Connection thread: A8)	○ (⑥ Connection thread: A8)		
Female	B5	M5 x 0.8	O*2	O*2	—		
thread	B6	M6 x 1	O*2	O*2	O*2		
	B8	M8 x 1.25	—	O*2	O*2		
	B01	Rc1/8	O*2	O*2	○*2		
	BG01	G1/8	O*2	O*2	—		
	BG02	G1/4	_	_	O*2		
*1 Use th	B01 BG01 BG02	Rc1/8 G1/8	<u> </u>				

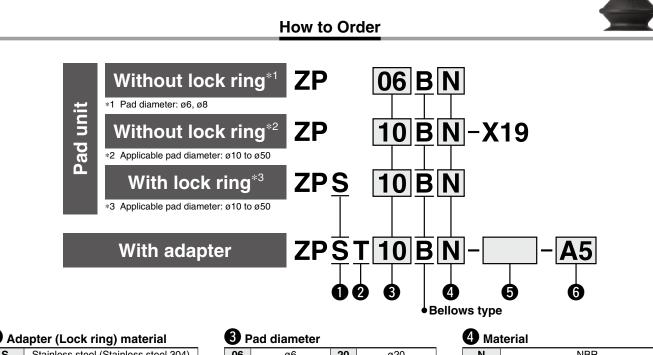
*1 Use the connection thread.

6 Connection thread

Type Symbol		Size	Pad diameter [mm]			
Type	Symbol	Size	ø10 to ø16	ø20 to ø32	ø40, ø50	
	A5	M5 x 0.8	O*2	—	—	
Male thread	A6	M6 x 1	O*2	O*2	○*2	
uncau	A8	M8 x 1	—	O*2	⊜*2	

*2 With a (female) vacuum inlet





U Ad	apter (Lock ring) material
S	Stainless steel (Stainless steel 304)

Vertical

2 Vacuum inlet direction

A

B P	Pad diameter		
06	ø6	20	ø20
08	ø8	25	ø25
10	ø10	32	ø32
13	ø13	40	ø40
16	ø16	50	ø50

With adapter

Vacu	um inl	et					
Tuno	Sumbol	0:	Pad diameter [mm]				
Туре	Symbol	Size	ø6, ø8	ø10 to ø16	ø20 to ø32	ø40, ø50	
	A5	M5 x 0.8	O*1	—	—	—	
	AS5	O.O X CIVI	—	⊖*1	⊖*1	—	
Male	A6	M6 x 1	O*1	—	—	—	
thread	AS6		_	O*1	O*1	O*1	
	AG01	G1/8	—	O*1	O*1	—	
	AG02	G1/4	—	—	—	O*1	
	Nil	M3 x 0.5	—	○ (⑥ Connection thread: A5/A6)	○ (⑥ Connection thread: A6)	○ (⑥ Connection thread: A6)	
		M5 x 0.8	—	_	○ (⑥ Connection thread: A8)	○ (⑥ Connection thread: A8)	
E	B4	M4 x 0.7	O*1	—	—	_	
Female thread	B5	M5 x 0.8	O*1	O*1	()*1	_	
uneau	B6	M6 x 1	—	O*1	O*1	O*1	
	B8	M8 x 1.25	—	—	O*1	O*1	
	B01	Rc1/8	—	O*1	O*1	O*1	
	BG01	G1/8	—	O*1	O*1	_	
	BG02	G1/4	—	—	—	O*1	

*1 Use the connection thread.

6 Connection thread

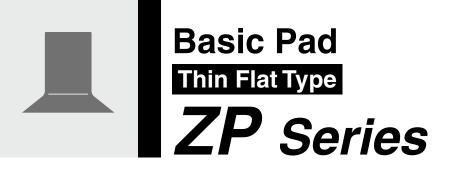
T	Sumbol	Size	Pad diameter [mm]			
Туре	Symbol	Size	ø6, ø8	ø10 to ø16	ø20 to ø32	ø40, ø50
Mala	A5	M5 x 0.8	—	O*2	—	—
Male thread	A6	M6 x 1	—	O*2	O*2	O*2
uneau	A8	M8 x 1		—	O*2	O*2

N	NBR			
S	Silicone rubber*1 *2			
U	Urethane rubber			
F	FKM			
GN	Conductive NBR			
GS	Conductive silicone rubber			

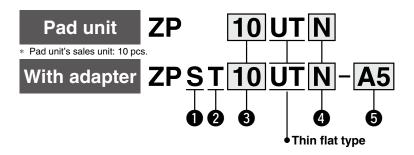
- *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"
- *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/ Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)

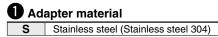
Lock ring unit

Part no.	Pad diameter [mm]			
ZPSL1	ø10 to ø16			
ZPSL2	ø20 to ø32			
ZPSL3	ø40, ø50			



How to Order





Vacuum inlet direction
 T
 Vertical

B Pa	d diameter
10	ø10
13	ø13
16	ø16

4 Material

-	
N	NBR
S	Silicone rubber *1 *2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

*1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"

*2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)

With adapter

6	Vacuum	inlet
---	--------	-------

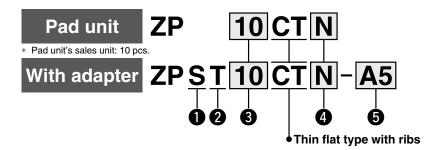
Tuno	Sumbol	Size	Pad diameter		
Туре			All sizes		
Female	A5	M5 x 0.8	0		
thread	A6	M6 x 1	0		
One-touch	B4	M4 x 0.7	0		
fitting	B5	M5 x 0.8	0		

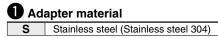


Basic Pad Thin Flat Type with Ribs **ZP Series**

For pad units and pads with an adapter (stainless steel type): The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the **Web Catalog**.

How to Order





Vacuum inlet direction
 T Vertical

B Pad	d diameter
10	ø10
13	ø13
16	ø16

4 Material

-	
Ν	NBR
S	Silicone rubber*1 *2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

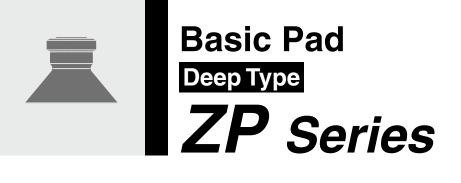
*1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"

*2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)

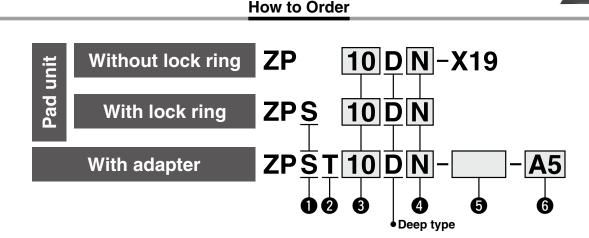
With adapter

5 Vacuum inlet

Turne	Symbol	Size	Pad diameter		
Туре			All sizes		
Male	A5	M5 x 0.8	0		
thread	A6	M6 x 1	0		
Female	B4	M4 x 0.7	0		
thread	B5	M5 x 0.8	0		







Adapter (Lock ring) material		
S	Stainless steel (Stainless steel 304)	

3 Pad diameter

	a alamotor
10	ø10
16	ø16
25	ø25
40	ø40

4 Material

N	NBR
S	Silicone rubber*1 *2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

*1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"

*2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/ Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)

Lock ring unit

LOOKTII	guint
Part no.	Pad diameter [mm]
ZPSL1	ø10, ø16
ZPSL2	ø25
ZPSL3	ø40

2	Va	cuum	inlet	dir	ec	tio	on	
	_							

T Vertical

With adapter

6	Vacu	Jum	inl	et

Tuno	Symbol	Size	Pad diameter [mm]				
Туре	Symbol	Size	ø10, ø16	ø25	ø40		
	AS5	M5 x 0.8	O*1	○*1	—		
Male	AS6	M6 x 1	⊖*1	⊖*1	O*1		
thread	AG01	G1/8	⊖*1	⊖*1	—		
	AG02	G1/4	—	—	O*1		
	Nil	M3 x 0.5	○ (ⓒ Connection thread: A5/A6)	○ (ⓒ Connection thread: A6)	○ (⑥ Connection thread: A6)		
		M5 x 0.8	—	○ (⑥ Connection thread: A8)	○ (ⓒ Connection thread: A8)		
Female	B5	M5 x 0.8	O*1	O*1	—		
thread	B6	M6 x 1	O*1	O*1	O*1		
	B8	M8 x 1.25	—	⊖*1	O*1		
	B01	Rc1/8	O*1	O*1	O*1		
	BG01	G1/8	O*1	O*1	—		
	BG02	G1/4	—	—	O*1		

*1 Use the connection thread.

6 Connection thread

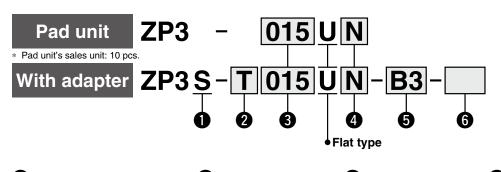
Tuno	Symbol	Size	Pad diameter [mm]				
Type Symbol		Size	ø10, ø16	ø25	ø40		
Male thread	A5	M5 x 0.8	O*2	—	—		
	A6	M6 x 1	O*2	O*2	○*2		
	A8	M8 x 1	—	O*2	○*2		

*2 With a (female) vacuum inlet





How to Order



3 Pad diameter 2 Vacuum inlet direction Adapter material S Stainless steel (Stainless steel 304) Nil Pad unit 015 т Vertical 02 γ Lateral 035

With adapter

5 Connection thread/ 6 Vacuum inlet O: ZP3S-T/Vertical ●: ZP3S-Y/Latera						
5 Connection thread			6 Vacuum inlet			Pad diameter
Туре	Symbol	Size	Туре	All sizes		
Male	A3	M3 x 0.5	— Nil		*1	0
thread	A6	M6 x 0.75	Female thread	B3	M3 x 0.5	0
Female	B3	M3 x 0.5	—	Nil	*1	0
thread	БЗ	IVIS X 0.5	Female thread	B3	M3 x 0.5	

*1 Use the connection thread.

4 Material

ø1.5

ø2

ø3.5

N	NBR
S	Silicone rubber*1 *2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

- *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"
- *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/ Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)



For pad units and pads with an adapter (stainless steel type): The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the **Web Catalog**.

Pad diameter: Ø4, Ø6, Ø8, Ø10, Ø13, Ø16

How to Order

P3 Series

Pad unit ZP3 - 04 UM N * Pad unit's sales unit: 10 pcs. (Except material HS) With adapter ZP3 S - T 04 UM N - B5 - 0 2 3 0 5 6

Compact Type

Flat Type with Groove

Adapter material					
S	Stainless steel (Stainless steel 304)				

2 Vacuum inlet direction					
Nil	Pad unit				
Т	Vertical				
Y	Lateral				

B Pad diameter					
04	ø4				
06	ø6				
08	ø8				
10	ø10				
13	ø13				
16	ø16				

Flat type with groove

4 Material

Ν	NBR
S	Silicone rubber*1*2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber
HS	Semiconductive silicone rubber

*1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"

*2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/ Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959).

5 Con	nection	thread/	Vacuum inle	et	⊖: ZP3S-T/Vertica	I •: ZP3S	-Y/Lateral
5 Connection thread 6 Vacuum inlet				Pad diameter [mm]			
Туре	Symbol	Size	Туре	Type Symbol Size a			
Mala	A5	M5 x 0.8	—	Nil	Use the connection thread.	0	0
Male thread	A10	M10 x 1	Female thread	B5	M5 x 0.8	0	—
	A12	M12 x 1	Female thread	B5	M5 x 0.8	—	0
Female	B5	M5 x 0.8	—	Nil	Use the connection thread.	0	0
thread	БЭ	Fema	Female thread	B5	M5 x 0.8		



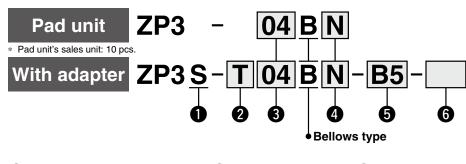
thread

Compact Type **Bellows Type** P3 Series Pad diameter: Ø4, Ø6, Ø8

For pad units and pads with an adapter (stainless steel type): The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the Web Catalog.



How to Order



Adapter material	2 Vac	2 Vacuum inlet direction		ad diameter	4 Material	
S Stainless steel (Stainless steel 304)	Nil	Pad unit	04	ø4	N	NBF
	Т	Vertical	06	ø6	S	Silicone rub
	Y	Lateral	08	ø8	U	Urethane
					F	FKM
	Y	Lateral	08	ø8	U F	

M5 x 0.8

•

	With adapter					
5 Connection thread/ 6 Vacuum inlet O: ZP3S-T/Vertical • : ZP3S-Y/Lateral						
6 C	Connectio	n thread		6 Va	cuum inlet	Pad diameter
Туре	Symbol	Size	Type Symbol Size			All sizes
Male	A5	M5 x 0.8	—	Nil	Use the connection thread.	0
thread	A10	M10 x 1	Female thread	B5	M5 x 0.8	0
Female	B5	M5 x 0.8	_	Nil	Use the connection thread.	0
thread	60	1VID X U.O	Female thread	B5	M5 x 0 8	

B5

Female thread

N	NBR
S	Silicone rubber*1 *2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

- *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"
- *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/ Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)



1 Adapter

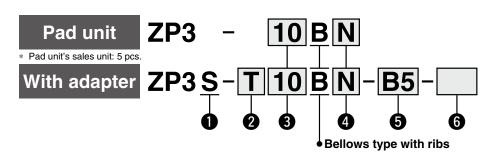
Compact Type Bellows Type with Ribs

ZP3 Series



How to Order

Pad diameter: Ø10, Ø13, Ø16



🕽 Ad	apter material	2 Vac	uum inlet direction	3 Р	B Pad diameter		
S	Stainless steel (Stainless steel 304)	Nil	Pad unit	10	ø10		
		Т	Vertical	13	ø13		
		Y	Lateral	16	ø16		

With adapter

5 Con	nectior	thread/ 6	acuum inlet/		O: ZP3S-T/Vertical ●: ZP3	3S-Y/Lateral
6	Connecti	on thread		6 Vacuum inlet		
Туре	Symbol	Size	Type Symbol Size			All sizes
Male	A5	M5 x 0.8	—	Nil	Use the connection thread.	0
thread	A12	M12 x 1	Female thread	B5	M5 x 0.8	0
Female	B5	M5 x 0.8	—	Nil	Use the connection thread.	0
thread	read DO M5 X 0.8		Female thread	B5	M5 x 0.8	

4 Material

Ν	NBR
S	Silicone rubber*1 *2
U	Urethane rubber
F	FKM
GN	Conductive NBR
GS	Conductive silicone rubber

For pad units and pads with an adapter (stainless steel type): The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the Web Catalog.

> *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"

> *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959)

For pad units and pads with an adapter (Excludes the M12 x 1.75 type): The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the **Web Catalog**.

Pad unit ZP3P - 20 PT SF Vertical vacuum inlet With adapter ZP3P - T 20 PT SF - A5

Vacuum Pad

Adapter material				
Nil	Aluminum			
S	Stainless steel			
	(Stainless steel 304)			

2 Pa	2 Pad diameter				
20	ø20				
25	ø25				
35	ø35				
50	ø50				

With adapter

4 Mounting thread size

Туре	Symbol	Size	ø 20	ø 25	ø 35	ø 50
	A5	M5 x 0.8		•	—	_
Male	AG1	G1/8	•	•	—	_
thread	AG2	G1/4	_	_		•
	AG3	G3/8	—		•	•
Female	B5	M5 x 0.8		•	—	_
thread	B8	M8 x 1.25	—	_		

Pad material SF

P3P-PT Series

Pad diameter: Ø20, Ø25, Ø35, Ø50

How to Order

- Silicone rubber*1, *2

 *1 Compliant with the FDA (USA Food and Drug Administration) regulation 21CFR§177.2600 for "Rubber articles intended for repeated use"
- *2 Compliant with the standards for "Rubber apparatus (excluding baby drinking apparatus) and containers/packaging" (D3) (Partial revision: Ministry of Health, Labour, and Welfare Notification No. 595, 2012) in Section 3 "Apparatus and Containers/Packaging" of the Food Sanitation Act, Article 18 "Specifications and Standards for Food and Food Additives, etc." (Ministry of Health and Welfare Notification No. 370, 1959).



Vacuum Pad

2.5-Stage Bellows Type ZP3P-JT Series

For pad units and pads with an adapter (Vacuum inlet: Excludes the built-in One-touch fitting type): The standard product is a secondary battery compatible product. For details

on specifications and dimensions, refer to the Web Catalog.

	How to Order	
Pad unit ZP3P With adapter ZP3P	- 20 JT 2 SF - W - T 20 JT 2 SF - W Bellows type 2.5-stage • Silicone re	- AG01 -
Adapter material	Pad diameter	3 Attachment
Nil Aluminum	20 ø20	W With attachment
S Stainless steel (Stainless steel 304)	25 ø25	WM With mesh attachment
	32 Ø32	WF With flat attachment
	40 ø40	

ø50

4 Connection thread/**5** Vacuum inlet

•								
	Onnection thread			S Vacuum inlet			Pad diameter [mm]	
Туре	Thread	Symbol	Size	Thread	Symbol	Size	ø20, ø25	ø32, ø40, ø50
		AG01	G1/8				•	•
	Male	AG02	G1/4		NI:1	*1		•
Direct	thread	AG03	AG03 G3/8 - Nil		•	•		
mounting		AG04	G1/2				—	•
	Female	BG01	G1/8		Nil	*1	•	—
	thread	BG02	G1/4				_	•
	ate Male	A16	M16 x 1	Female	B01	Rc1/8		
Plate		AIO	IVITOXI	thread	BN01	NPT1/8		
mounting	thread	A20	M20 x 1	Female	B02	Rc1/4		
		AZU		thread	BN02	NPT1/4	1 —	•

50

With adapter

*1 Use the connection thread.

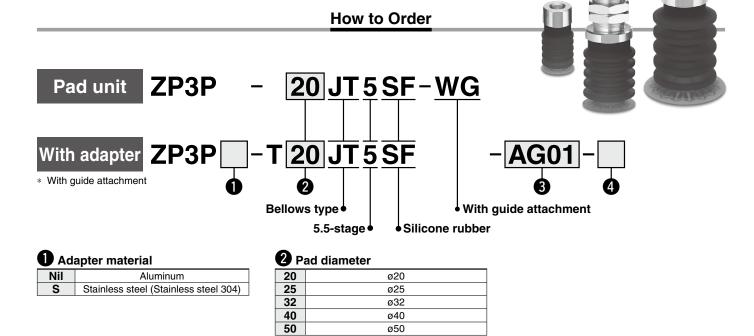
Pad, adapter assembly, and mounting nuts are included but do not come assembled.



Vacuum Pad 5.5-Stage Bellows Type

For pad units and pads with an adapter (Vacuum inlet: Excludes the built-in One-touch fitting type): The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the **Web Catalog**.

ZP3P-JT Series



With adapter

3 Connection thread/**4** Vacuum inlet

	Connection thread			4 Vacuum inlet			Pad diameter [mm]	
Туре	Thread	Symbol	Size	Thread	Symbol	Size	ø20, ø25	ø32 to ø50
	Male	AG01	G1/8		Nil	*1	•	•
Direct	thread	AG02	G1/4	1 —				•
mounting	Female	BG01	G1/8		Nil	*1	•	_
	thread	BG02	G1/4					•
		A1C	A16 M16 x 1	Female	B01	Rc1/8		
Plate Male mounting thread	AIO	M16 x 1	thread	BN01	NPT1/8		_	
	thread	id Ago Ma	M00 x 1	Female	B02	Rc1/4		
-		A20 M20 x		thread	BN02	NPT1/4		•

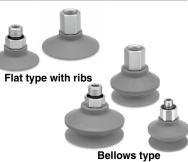
*1 Use the connection thread.

Pad, adapter assembly, and mounting nuts are included but do not come assembled.



For pad units and pads with an adapter: The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the **Web Catalog**.

Flat Type with Ribs Bellows Type ZP3C Series Flat type



Pad unit ZP3C - 20 C FS With adapter ZP3C - T 20 C FS - MF - A8 0 2 3 0 0 5 Pad material: FS61

Vacuum Pad

Vacuum inlet direction						
Nil	III Pad unit					
Т	T Vertical					

Pad	Pad diameter		
20	ø20		
25	ø25		
32	ø32		
40	ø40		
50	ø50		

B Pad	d form
С	Flat

C B

lat type with ribs	
Bellows type	

Mesh	filter
MCOIL	me

(4

Nil	Without mesh filter	
MF	With mesh filter	

6 Connection thread

Turne	vpe Thread Symbol	Size	Pad diameter [mm]		
Туре	Inreau	Symbol	Size	Ø20 to Ø32	ø 40 , ø 50
		A8	M8 x 1	•	—
Male	A10	M10 x 1	—	•	
Direct	Direct thread	AG01	G1/8	•	—
mounting		AG02	G1/4	—	•
Female	BG01	G1/8	•	—	
	thread	BG02	G1/4	—	•

* Use the connection thread for the vacuum inlet.

Specifications

Pad/Mesh filter specifications

	Material	FS61 (Fluoro-based rubber)	
Pad	Color	Green	
	Hardness (Shore A: $\pm 5^{\circ}$)	60	
Mesh filter		Opening: 250 µm	

Adapter specifications

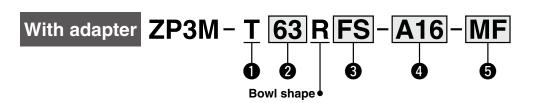
Adapter specifications				
Connection	Male thread		Female thread	
Pad diameter	Ø20 to Ø32 Ø40, Ø50 Ø20 to Ø32 Ø40, Ø		ø 40, ø 50	
Connection thread	M8 x 1 G1/8	M10 x 1 G1/4	G1/8	G1/4
Vacuum inlet	Use the connection thread.			

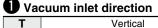
Vacuum Pad/Bowl Shape with Non-slip Feature **ZP3M** Series

For pads with an adapter: The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the Web Catalog.



How to Order





т

Pad diameter		
32	ø32	
40	ø40	
50	ø50	
63	ø63	
80	ø80	
100	ø100	

Material

Symbol	Material	Color
FS	FS61 (Fluoro-based rubber)	Green

4 Connection thread and type

Mounting	Turna	Cumphed Cir	Cizo	Pad diameter	
Mounting	Туре	Symbol	Size	ø32 to ø50	ø63 to ø100
	A10	M10 x 1.0	•	—	
	Male thread	A16	M16 x 1.5	—	•
Diverset	AG02	G1/4	•	•	
mounting	Direct	B14	M14 x 1.0		•
Female thread	BG02	G1/4	•		
	BG03	G3/8	•	•	
	Square adapter	S32	□31.8	•	

* The adapter and pad are adhered to each other and cannot be disassembled.

Specifications

Pad Material

Material	FS61 (Fluoro-based rubber)
Color of rubber	Green
Rubber hardness (Shore A: ±5°)	60
Operating temperature range*1	0°C to 200°C
Ambient temperature	0°C to 150°C

*1 Surface temperature of the workpiece to be adsorbed

Adapter Specifications

Connection	Male thread		Female thread		Square adapter
Pad diameter	ø32 to ø50	ø63 to ø100	ø32 to ø50	ø63 to ø100	ø32 to ø100
Size	M10 x 1.0 G1/4	M16 x 1.5 G1/4	G	x 1.0 1/4 3/8	□31.8
Vacuum inlet	Use the connection thread and type.				

5 Mesh filter

Nil	None
MF	With mesh filter

Mesh filter unit

	-		
Part no.	Pad diameter		
Fait no.	ø32 to ø50	ø63 to ø100	
ZPMF-60-D13	•	—	
ZPMF-60-D18	—		

Pad Specifications

Part no.	Horizontal hold	ling force [N]*1	Minimum curvature radius
Part no.	Without oil	With oil	for adsorption [mm]*2
ZP3M-T32RFS	47	21	14
ZP3M-T40RFS	81	53	15
ZP3M-T50RFS	111	74	20
ZP3M-T63RFS	170	108	27.5
ZP3M-T80RFS	231	178	36
ZP3M-T100RFS	387	224	46

*1 These are actual measurement values when flat workpieces were adsorbed and are not guaranteed values. (According to the SMC test) The values vary depending on the conditions (shape, surface roughness, oil type, oil amount, and other conditions) of the workpiece.

*2 These are actual measurement values when cylindrical workpieces were adsorbed and are not guaranteed values. (According to the SMC test)

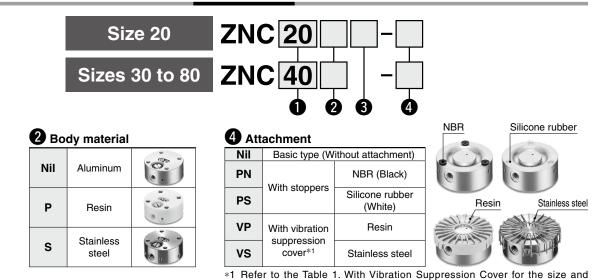
Mesh Filter Specifications

Mesh filter	60
Opening	250 μm

Bernoulli Gripper ZNC Series

For grippers without a sensor: The standard product is a secondary battery compatible product. For details on specifications and dimensions, refer to the Web Catalog.

How to Order



Mounting plate (Size 20)

🕖 Body size 20

30

40

60

80

ø20 mm

ø30 mm

ø40 mm

ø60 mm

ø80 mm

Nil	Without moun	00			
т	With mounting	Aluminum			
TS	plate	Stainless steel	\mathcal{D} .		

Mounting plate

Stoppers cannot be retrofitted.

material.

Vibration suppression cover can be retrofitted to the basic type.

* The vibration suppression cover cannot be used with the type with stoppers.

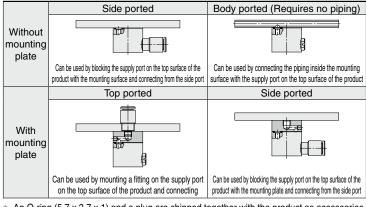
The mounting plate is shipped together with the product but does not come assembled. Single unit part nos. \Rightarrow Web Catalog *

The piping methods for types with and without a mounting plate are shown in Table 2 below. *

Table 1. With Vibration Suppression Cover

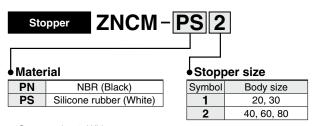
Symbol	Material	Body size	ly size Body material		
Symbol	waterial	symbol	Aluminum	Resin	Stainless steel
		20	—	—	—
		30	—	—	—
VP	VP Resin	40	•	•	—
		60	—	—	—
		80	—	—	—
		20	•	•	•
		30	•	•	•
VS	Stainless steel	40	•	—	•
		60		•	
		80	•	•	•

Table 2. Size 20 Piping (Refer to the Web Catalog for details on how to mount the product.)



An O-ring (5.7 x 3.7 x 1) and a plug are shipped together with the product as accessories. 223

Attachments/Part Nos.



Stopper size 1: With 3 stoppers * Stopper size 2: With 3 stoppers and 3 spring pins For replacement instructions \Rightarrow Refer to the **Web Catalog**.

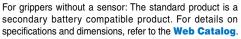
Vibration si	uppression cover	ZN	СМ-[40 V	Ρ
Body	y size			Mate	rial
20	ø20 mm	60	ø60 mm	VP	Resin
30	ø30 mm	80	ø80 mm	VS	Stainless steel
40	ø40 mm		·,		rial: Resin is only

For stainless steel:

SMC

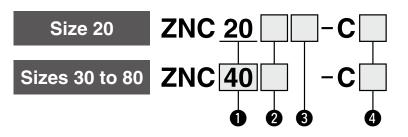
Body sizes ø20mm and ø30 mm: With 2 mounting screws Body sizes ø40 mm, ø60 mm, and ø80 mm: With 3 mounting screws

Bernoulli Gripper With Coanda Grip **ZNC-C Series**





How to Order





• = • • • • • • • • •		
20	ø20 mm	
30	ø30 mm	
40	ø40 mm	
60	ø60 mm	
80	ø80 mm	

Body material
 Nil Aluminum

Stainless steel

S

Nil	None	
Т	Aluminum	
TS	Stainless steel	
	mounting plate is ed together with the	

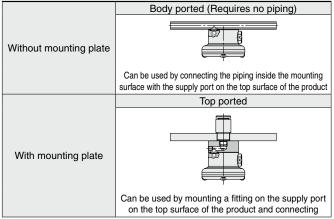
- shipped together with the product but does not come assembled. * The piping methods for
- types with and without a mounting plate are shown in Table 1 below.

4 Attachment

Nil	Without vibration suppression cover			
V With vibration suppression co				
It is not possible to additionally install or remove				

It is not possible to additionally install or remove the vibration suppression cover.

Table 1. Piping



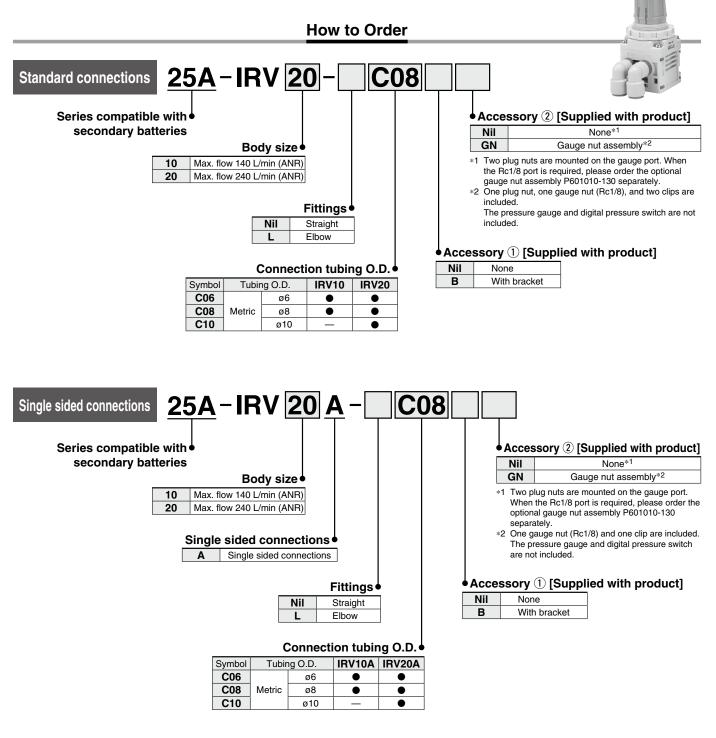
Coanda Grip Only / Part No.

ø40 mm

40

	Z		M − 4 dy size •	
20	ø20 mm	60	ø60 mm	
30	ø30 mm	80	ø80 mm	

Vacuum Regulator RoHS 25A-IRV10/20 Series



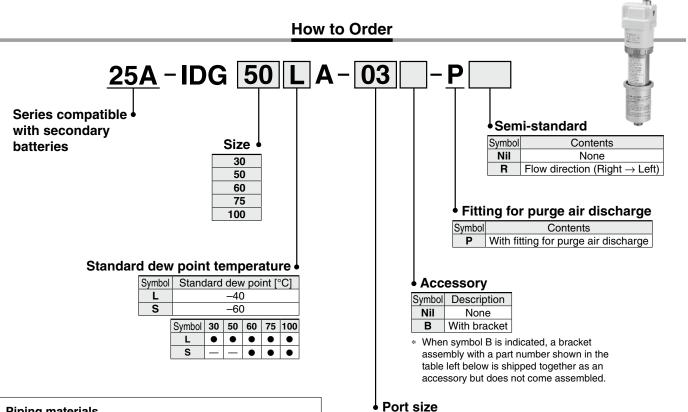
* This product cannot be used in environments containing chemical agents such as hydrofluoric acid, etc.

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

For details, refer to the Web Catalog.



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



Symbol

02

03

04

Bore

Rc3/8

Rc1/2

Rc1/4 • •

• •

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

* The assembly consists of a bracket and 2 mounting screws.

* Some parts have dimensions that are different from those of the standard model. Refer to page 228 for details. Other specifications are the same as those of the standard model.

Size

30 50 60 75 100

• • •

• •

٠

For details, refer to the Web Catalog.

RoHS

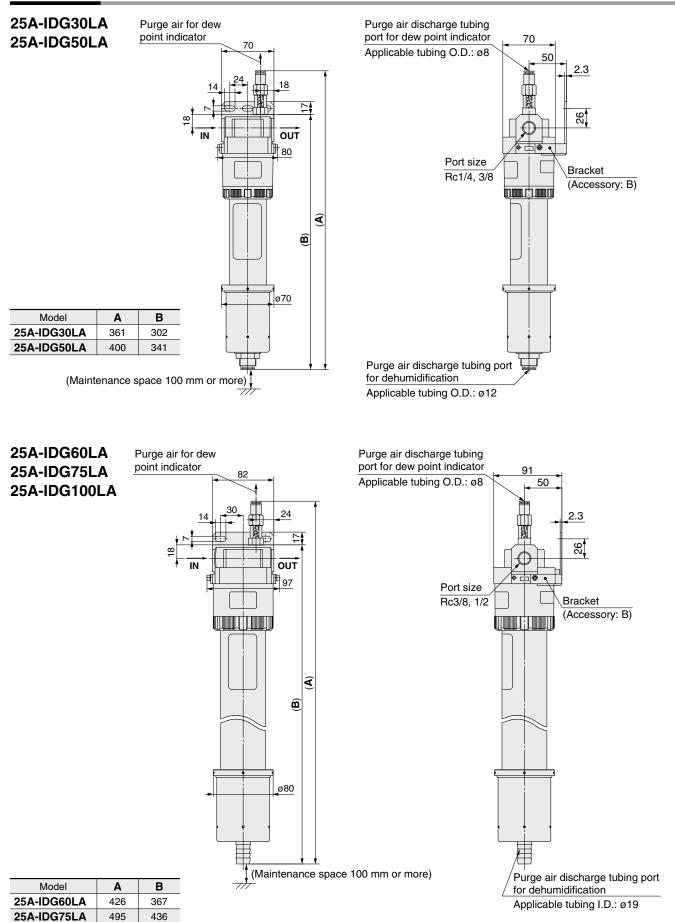
Membrane Air Dryer **25A-IDG** Series



25A-IDG100LA

560

501



				list Separator/Micro Mist Separa		erie	S	R	oHS		
									To a line of		
				How to Order			AFF	АМ	AM		
		AFF 3		3 4 5 6	Option/Semi- Option/Semi specification xample) 25A	-standard is required,	symbol: W indicate in	/hen more	than		
							2				
			Symbol	Description			Body size				
					20	30	40	50	60		
			AFF	Nominal filtration rating: 1 μm							
		Filter type		Water droplet removal ratio: 99%			•				
				Nominal filtration rating: 0.1 μ m							
		Filter type	AW	Oil mist concentration on the outlet side: 1 mg/m ³			•	-			
			AMD	Nominal filtration rating: 0.01 μm							
				Oil mist concentration on the outlet side: 0.1 mg/m ³		•					
			+		ı						
			Nil	Rc		•	•				
		Thread type	N	NPT		•	•				
			F	G			•				
			+	1/0					T		
			01	1/8		•	•				
			02	3/8		-		<u> </u>	+		
		Port size	03	1/2		•	•				
			04	3/4			•		+		
			10	1							
			+	I							
Option		a Mounting	Nil	Without mounting option	•	•	●	•			
a Optio	a		B *1	With bracket	•	•	•	•	•		
			+	1		<u> </u>	L	<u>I</u>	1		
q		Nil		Flow direction: Left to right				•			
darc darc		Flow direction	R	Flow direction: Right to left		•	•	•			
da			+	-		-	-				
standa			-						T		
Semi-standard	c	Unit	Nil	Name plate and caution plate for bowl in SI units: MPa, °C		•	•	•			

*2 For pipe thread type: NPT

This product is for overseas use only according to the new Measurement Act. (The SI unit type is provided for use in Japan.)

*3 \bigcirc : For pipe thread type: NPT only

25A-Bracket, Bowl Assembly/Part Nos.

Description	Size 20	Size 30	Size 40	Size 50	Size 60
Bracket assembly ^{*1}	25A-AF24P-070AS	25A-AF34P-070AS	25A-AF44P-070AS	25A-AF54P-070AS	
Bowl assembly	25A-C2SF-D	25A-C3SF-D	25A-C4SF-D	25A-AM54P-120AS	25A-AM64P-120AS

 $\ast 1~$ The assembly consists of a bracket A/B and 2 mounting screws.

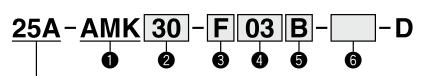
* The 25A- series specifications and dimensions are the same as those of the standard model.



Compressed Air Preparation Filter Activated Carbon Filter 25A-AMK-D Series



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-AMK30-N03B-RZ-D

Series compatible with secondary batteries

			Symbol	Description	Body size				
					20	30	40	50	60
0		Filter type	АМК	Activated carbon filter	•	•	•	•	•
			+						
			Nil	Rc		•	•		
8		Thread type	Ν	NPT		•	•	•	•
			F	G			•		
			+						
		Port size	01	1/8		—	—	—	—
			02	1/4		•	•	—	—
4			03	3/8		•	•	—	_
•		10113126		1/2			•	—	—
				3/4			—	•	—
			10	1			—		
			+						
•	ion	a Mounting	Nil	Without mounting option	•	•	•	•	•
6	Option a		B *1	With bracket	•	•	•	•	•
			+						
	Σ.	b Flow direction	Nil	Flow direction: Left to right		•	•		
- Da		b Flow direction		Flow direction: Right to left		•	•	•	•
6	Semi-standard		+						
	- u			Name plate and caution plate in SI units: MPa/°C		•	•		
	Sei	Pressure unit	Z *2	Name plate and caution plate in imperial units: psi/°F	O*3	○*3	○*3	○*3	○*3

*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 For pipe thread type: NPT

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 pipe thread type: NPT only

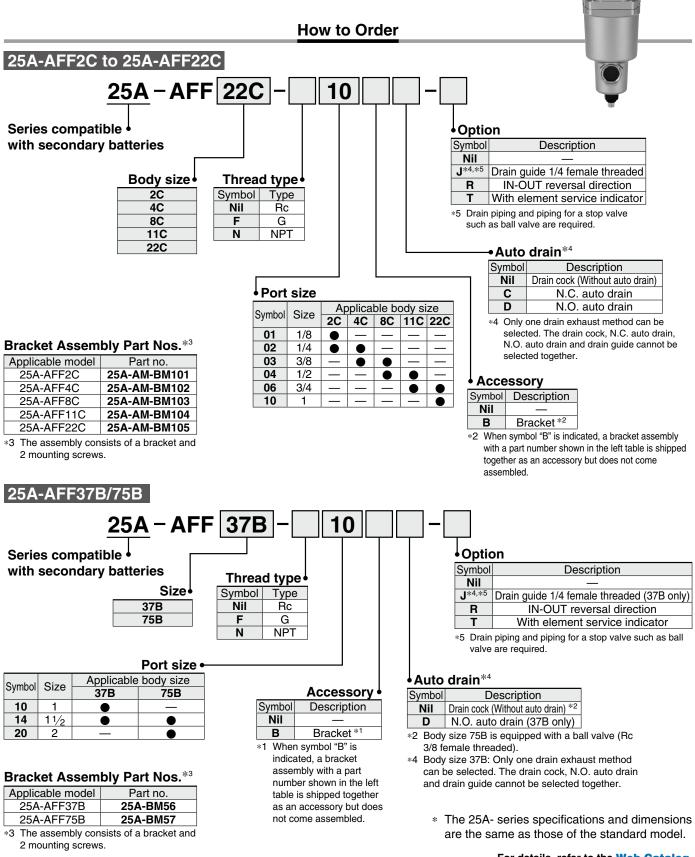
25A-Bracket, Bowl Assembly/Part Nos.

Description	Size 20	Size 30	Size 40	Size 50	Size 60
Bracket assembly*1	25A-AF24P-070AS	25A-AF34P-070AS	25A-AF44P-070AS	P-070AS 25A-AF54P-070A	
Bowl assembly	25A-C2SF-D-X401	25A-C3SK-D	25A-C4SK-D	Equivalent to the standard product	Equivalent to the standard product

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

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

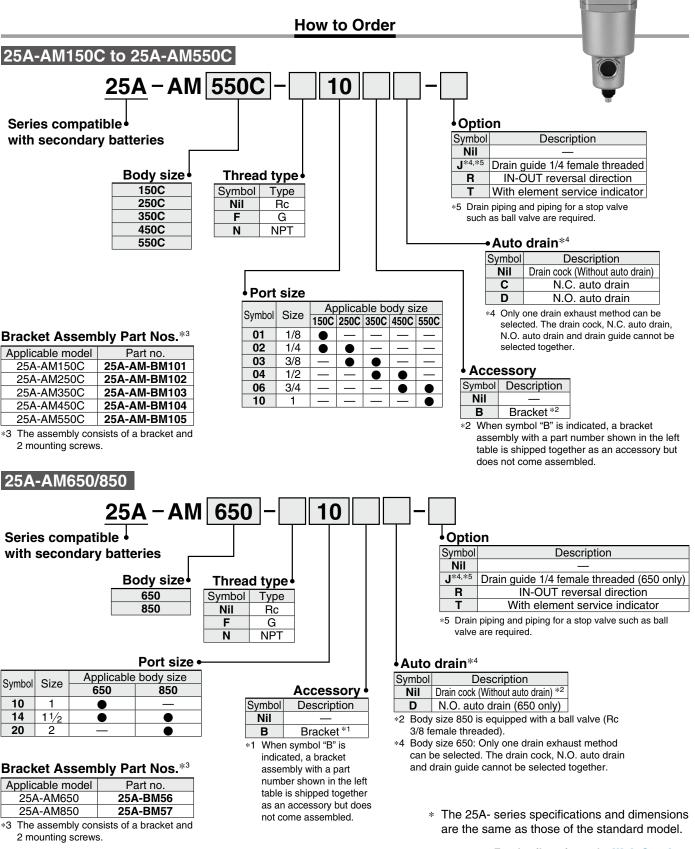
Main Line Filter (É CA 25A-AFF75B only 25A-AFF75B only **25A-AFF75B only RoHS**



多SMC

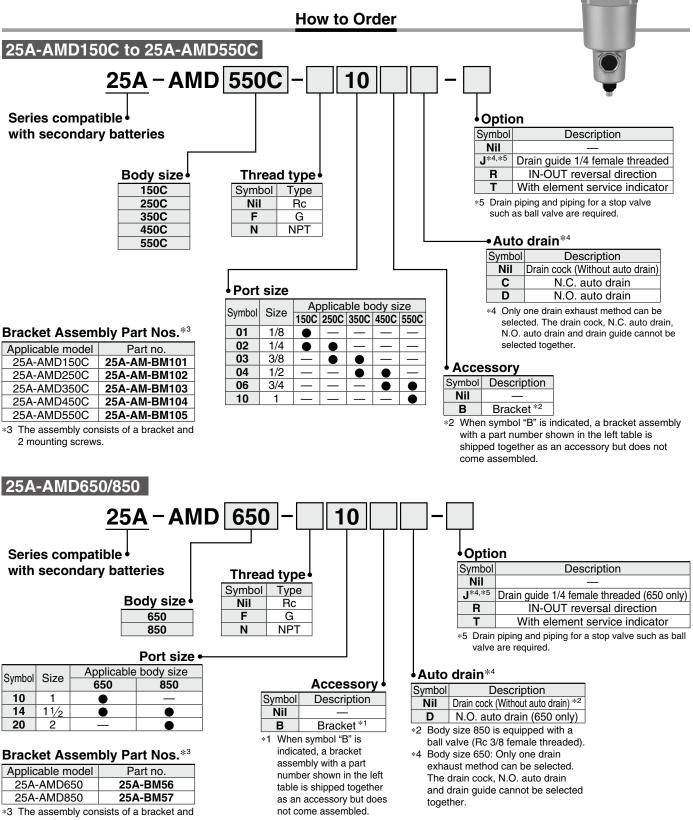
231

Mist Separator 25A-AM Series



RoHS

Micro Mist Separator CECA 25A-AMD850 only 25A-AMD850 only RoHS

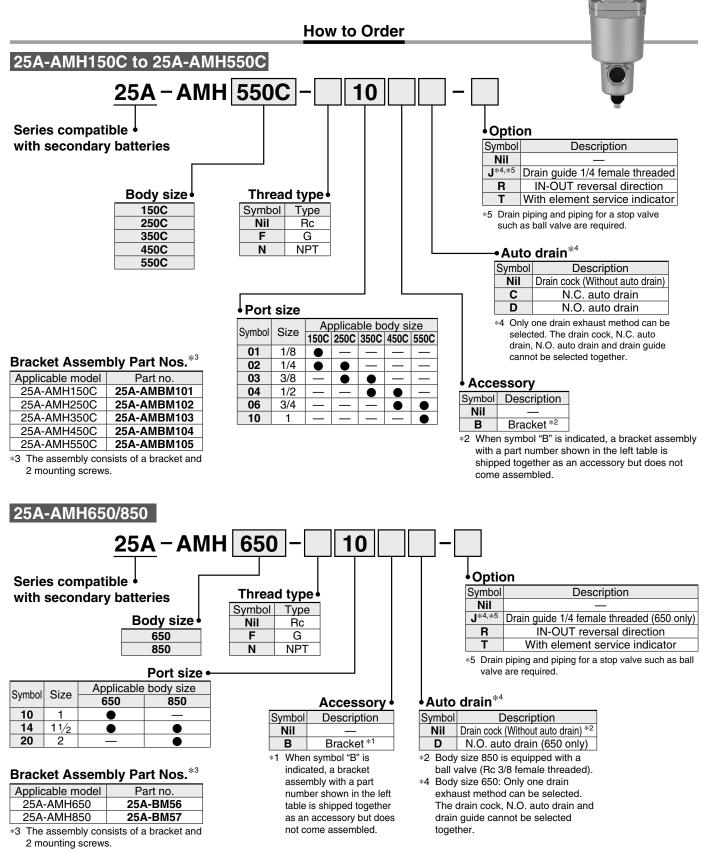


2 mounting screws.

233

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

Micro Mist Separator with Pre-filter (ELA 25A-AMH850 only 25A-AMH850 only RoHS



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

SMC

Clean Air Filter

SFD Series



Hollow Fiber Element

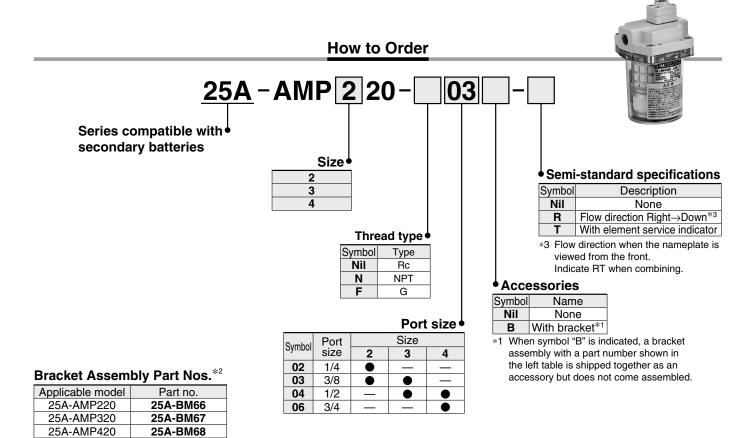
- Nominal filtration rating: **ΟΟ1** μm (filtration efficiency 99.99%)
- Initial pressure drop: 0_03 MPa (at inlet pressure 0.7 MPa, maximum flow)
- Maximum operating pressure: 1 _0 MPa (at 20°C)

 SFD100/110
 SFD200
 SFD101/102 (Made to Order)

 Up to 100 L/min(ANR)/Up to 120 L/min(ANR)
 Up to 500 L/min(ANR)
 Up to 100 L/min(ANR)



Exhaust Cleaner for Clean Room 25A-AMP Series



*2 The assembly consists of a bracket and

2 mounting screws.

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

Clean Exhaust Filter

SFE Series

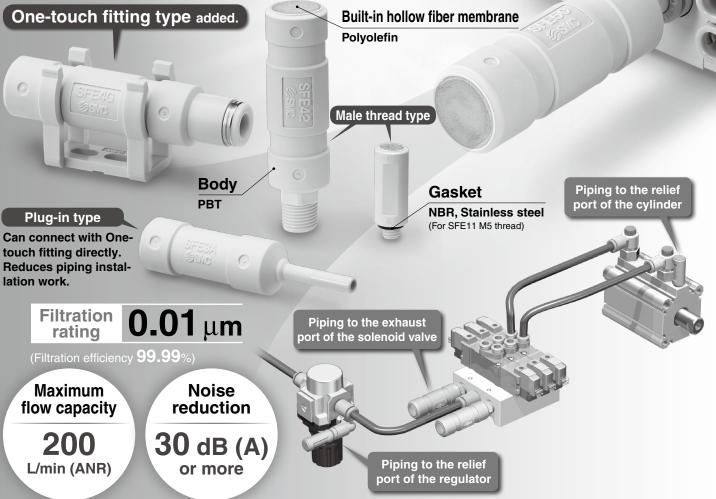
This product (standard product) is a secondary battery compatible product. For details, refer to the **Web Catalog**.

RoHS

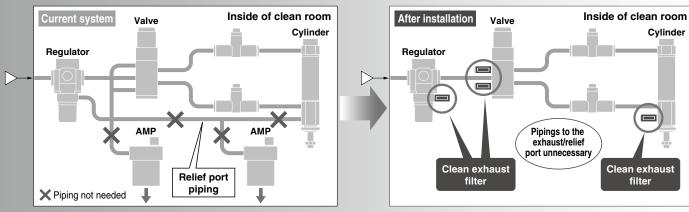
This filter enables direct exhaust of air in a clean

room! (Cleanliness class 4*: ISO14644-1) (* Based on SMC's measuring conditions.)

Air can be directly exhausted in a clean room only by mounting this product to the pneumatic equipment in the clean room.



No need for piping for exhaust air and relief air. Reduces piping installation work and space.



Modular Type Air Combination

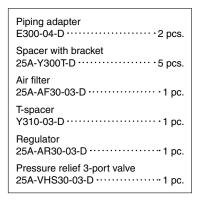
AC-D Series

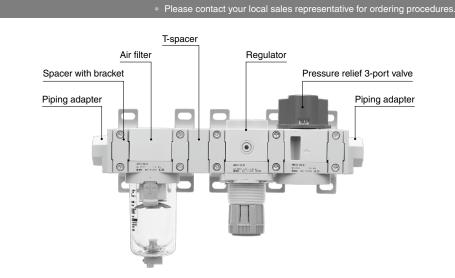
Modular connection units are available through the Simple Specials System.

Please contact your local sales representative for more details.

Examples of Simple Specials

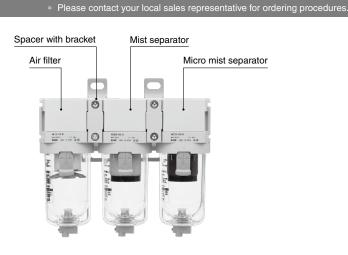
Combination example 1





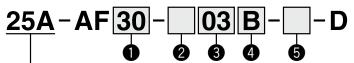
Combination example 2

Air filter 25A-AF30-03-D ······1 pc.
Spacer with bracket 25A-Y300T-D ····································
Mist separator 25A-AFM30-03-D ······ 1 pc.
Micro mist separator 25A-AFD30-03-D ······ 1 pc.



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

How to Order



Semi-standard: Select one each for a and b.
Semi-standard symbol: When more than one

Example) 25A-AF30-N03B-RZ-D

specification is required, indicate in alphanumeric order.

•Series compatible with secondary batteries

						0			
		Symbol	Description	Body size					
				20	30	40	50	60	
		Nil	Rc						
2	Pipe thread type	N	NPT						
		F	G						
		+							
		01	1/8		—	—	_		
		02	1/4				—	—	
8	Port size	03	3/8	—			—	—	
	FUITSIZE	04	1/2	—	—		—	—	
		06	3/4	—	—			—	
		10	1	—	—	—			
		+							
4	Mounting	Nil	Without mounting option						
4		B *1	With bracket				\bullet	\bullet	
		+							
	हु a Flow direction	Nil	Flow direction: Left to right					\bullet	
		R	Flow direction: Right to left					\bullet	
6	a Flow direction	+							
1	b Unit	Nil	Unit on product label: MPa, °C						
	S S S	Z *2	Unit on product label: psi, °F	O*2	○*2	○*2	○*2	○*2	

*1 Option B is included in the package with the product but does not come assembled. The assembly consists of 2 types of brackets and 2 mounting screws.
 *2 O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act.

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

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

Ontion			Mo	del			
Option	25A-AF20-D	25A-AF30-D	25A-AF40-D	25A-AF40-06-D	25A-AF50-D	25A-AF60-D	
Bracket assembly*1	25A-AF24P-070AS	25A-AF34P-070AS	25A-AF44P-070AS	25A-AF49P-070AS	S 25A-AF54P-070AS		
Bowl assembly	25A-C2SF-D	25A-C3SF-D	25A-C4SF-D				

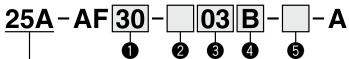
*1 The assembly consists of an A and B bracket and 2 mounting screws.

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

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



How to Order



Semi-standard: Select one each for a and b.
Semi-standard symbol: When more than one

Example) 25A-AF30-N03B-RZ-A

specification is required, indicate in alphanumeric order.

•Series compatible with secondary batteries

						0			
Syr		Symbol Description		Body size					
				20	30	40	50	60	
		Nil	Rc						
Pipe	thread type	Ν	NPT						
		F	G						
		+							
		01	1/8		—	—	—	—	
	Port size	02	1/4				—	—	
Б		03	3/8	—			—	—	
Г		04	1/2	—	—		—	—	
			3/4	—	—			—	
			1	—	—	—			
		+							
ion	Mounting	Nil	Without mounting option						
D D	wounting	B *1	With bracket						
		+							
a la	Flow direction		Flow direction: Left to right						
pu a I	Flow unection	R	Flow direction: Right to left						
sta		+							
iż h	Prossure unit	Nil	Name plate and caution plate for bowl in SI units: MPa						
ů N	Pressure unit	Z *2	Name plate and caution plate for bowl in imperial units: psi, °F	O*2	O*2	○*2	○*2	○*2	
	A A	Pipe thread type Port size	Nil Nil Pipe thread type N F + 01 02 03 04 06 10 + Nil Mounting H B*1 +	Nil Rc Pipe thread type N F G + G + 01 02 1/4 03 3/8 04 1/2 06 3/4 10 1 + + Mounting B*1 With bracket + + + A Flow direction: Left to right R Flow direction: Right to left + + Nil Name plate and caution plate for bowl in SI units: MPa	Nil Rc 0 Pipe thread type N NPT 0 F G 0 0 + 01 1/8 0 02 1/4 0 0 03 3/8 04 1/2 06 3/4 06 3/4 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 R Flow direction: Left to	Nil Rc 0 0 Pipe thread type Nil NPT 0 0 F G 0 0 0 + 01 1/8 0 - 02 1/4 0 0 0 03 3/8 - 0 0 04 1/2 - - 0 06 3/4 - - - 10 1 - - - * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	SymbolDescriptionBody size203040Pipe thread typeNilRc I <td< td=""><td>Symbol Description Body size 20 30 40 50 Pipe thread type Nil Rc 0 0 0 F G 0 0 0 0 0 Port size 01 1/8 0 0 0 0 02 1/4 0 0 0 0 0 0 03 3/8 0 1/2 0 0 0 0 04 1/2 0 0 0 0 0 0 10 1 1 0 0 0 0 0 Mounting Nil Without mounting option 0 0 0 0 0 + + - - - 0 0 0 0 a Flow direction: Left to right R Flow direction: Right to left 0 0 0 0 + +</td></td<>	Symbol Description Body size 20 30 40 50 Pipe thread type Nil Rc 0 0 0 F G 0 0 0 0 0 Port size 01 1/8 0 0 0 0 02 1/4 0 0 0 0 0 0 03 3/8 0 1/2 0 0 0 0 04 1/2 0 0 0 0 0 0 10 1 1 0 0 0 0 0 Mounting Nil Without mounting option 0 0 0 0 0 + + - - - 0 0 0 0 a Flow direction: Left to right R Flow direction: Right to left 0 0 0 0 + +	

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

*2 O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act.

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

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

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

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

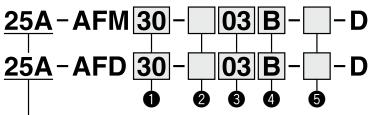
* The 25A- series specifications and dimensions are the same as those of the standard model.

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

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







• Semi-standard: Select one each for **a** and **b**.

• Semi-standard symbol: When more than one

specification is required, indicate in alphanumeric order. Example) 25A-AFM30-N03B-RZ-D

Series compatible with secondary batteries

		Symbol	Description		O	
	Symbo		Description	20	Body size 30	40
			_		-	•
		Nil	Rc	•	•	•
2	Pipe thread type	Ν	NPT			
		F	G		\bullet	\bullet
		+				
		01	1/8		—	—
		02	1/4		•	•
8	Port size	03	3/8		•	•
		04	1/2	—	—	
	06		3/4	—	—	
		+				
	Mounting	Nil	Without mounting option		•	
4		B *1	With bracket		•	
		+				
	a Flow direction	Nil	Flow direction: Left to right		•	•
	हु a Flow direction	R	Flow direction: Right to left		•	
6	Nil Flow direction: Left to right a Flow direction: R Flow direction: Right to left + b Unit Xii Unit on product label: Mil Unit on product label: Product label: Nii					
	b Unit	Nil	Unit on product label: MPa, °C		•	
		Z *2	Unit on product label: psi, °F	O*2	O*2	O*2

*1 Option B is included in the package with the product but does not come assembled. The assembly consists of 2 types of brackets and 2 mounting screws. *2 O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act.

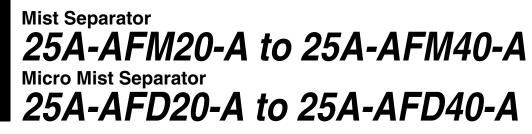
(The SI unit type is provided for use in Japan.)

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

		Mo	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-0		
Bowl assembly	25A-C2SF-D	25A-C3SF-D	25A-C4SF-D		

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

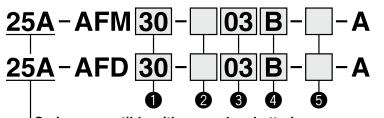
* The 25A- series specifications and dimensions are the same as those of the standard model.





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

How to Order



Semi-standard: Select one each for a and b.

 Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) 25A-AFM30-N03B-RZ-A

Series compatible with secondary batteries

		_				0	
	Symbol Des		Description	Body size			
					20	30	40
				Rc			•
2	Pip	e thread type	N	NPT	•	•	•
			F	G	•		•
			+				
			01	1/8	•		
		Port size	02	1/4	•		•
8			03	3/8	_		•
				1/2	—		•
			06	3/4	—		•
			+				
4	Option	Mounting	Nil	Without mounting option			\bullet
4	ð	wounting	B *1	With bracket			•
			+				
	ard a	Flow direction	Nil	Flow direction: Left to right	•		•
	ů u ď		R	Flow direction: Right to left			•
6	Semi-standard		+				
	emi-	Pressure unit	Nil	Name plate and caution plate for bowl in SI units: MPa	•		•
	Se L		Z *2	Name plate and caution plate for bowl in imperial units: psi, °F	○*2	O*2	○*2

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

*2 O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act.

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

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

Model Option	25A-AFM20-A 25A-AFD20-A	25A-AFM30-A 25A-AFD30-A	25A-AFM40-A 25A-AFD40-A	25A-AFM40-06-A 25A-AFD40-06-A
Bracket assembly*1	25A-AF22P-050AS	25A-AF32P-050AS	25A-AF42P-050AS 25A-AF42P-07	
Bowl assembly	25A-C2SF-A	25A-C3SF-A	25A-C	4SF-A

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

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



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

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

*3 The assembly consists of a bracket and set nuts.

*4 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

*5 O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act.

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

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

Ontion			Model	
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-AR43P-270AS	25A-AR54P-270AS
Set nut	AR23P-260S	AR33P-260S	AR43P-260S	*2

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

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

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

()*5





				+							
			Set proceure	Nil	0.05 to 0.85 MPa setting						
		а	Set pressure	1 *3	0.02 to 0.2 MPa setting						
				+							
		b	Exhaust	Nil	Relieving type						
	2	D	mechanism	Ν	Non-relieving type						
	standard										
6	tan		c Flow direction	Nil	Flow direction: Left to right						
•		C		R	Flow direction: Right to left						
	Semi			+							
	Š	d	Knob	Nil	Downward						
	u Ni		RIDD	Y	Upward						
			Brocouro unit	Nil	Name plate in SI units: MPa						
		е	Pressure unit	Z *4	Name plate in imperial units: psi	0*4	0*4	0*4	0*4	0*4	0*4

*1 Options B and H are not assembled and supplied loose at the time of shipment.

*2 The assembly consists of a bracket and set nuts (25A-AR20(K) to 25A-AR40(K)). Including 2 mounting screws for the 25A-AR50(K) and 25A-AR60(K).

*3 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

*4 O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act.

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

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

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	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
Set nut AR23P-260S AR28P-260S AR33P-260S AR43P-260S —*3	Bracket assembly*1	25A-AR23P-270AS	25A-AR28P-270AS	25A-AR33P-270AS	25A-AR43P-270AS	25A-AR52P-270AS*2
	Set nut	AR23P-260S	AR28P-260S	AR33P-260S	AR43P-260S	*3

*1 The assembly consists of a bracket and set nuts.

*2 The assembly consists of a bracket and 2 mounting screws.

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

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



	25 Filter	A- r Reg	Julator AW20-D to 25A-A Julator with Backflow Function AW20K-D to 25A- How to Order			(-D	
	A – AW 3 Geries compatibl	2	O O O O O O O O O O	 Semi-stan specificati alphanum 	dard: Select dard symbol on is require eric order. 5A-AW30K-I	: When mor d, indicate i	e than one
			5				
		Symbol	Description			/ size	<u> </u>
				20	30	40	60
2 Wi	ith backflow function	Nil	Without backflow function				
		K *1	With backflow function				
		+ Nil	Pa				
ß	Dina thread turna	NII	Rc NPT				
0	Pipe thread type	F	G				
		+	<u> </u>			•	
		01	1/8		_	_	
		02	1/4	•		•	
	Deutsian	03	3/8	_			
4	Port size	04	1/2		_		
		06	3/4		—		
		10	1	_	—	—	
*2		+ Nil	Without mounting option				
	Mounting	B *3	Without mounting option With bracket				
Option	wounting	H	With set nut (For panel fitting)				
		+	that eet nut (i or parlor nully)	-			1
		Nil	0.05 to 0.85 MPa setting				
	a Set pressure	1 *4	0.02 to 0.2 MPa setting	•	•	•	•
-		+					
arc	b Exhaust	Nil	Relieving type			●	
and	^D mechanism	N	Non-relieving type				
i-sta		+	Flow dispetions I of the sight				
9 Semi-standard	c Flow direction	Nil R	Flow direction: Left to right				
Ň		<u>н</u>	Flow direction: Right to left				
		+ Nil	Unit on product label: MPa, °C, Pressure gauge in SI units: MPa				
	d Unit	Z *5	Unit on product label: wir a, °C, Pressure gauge: MPa/psi dual scale	 	 	O*5	0*5
1 Set t	the inlet pressure to at	least 0.05	5 MPa higher than the set pressure.				

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

*3 The assembly consists of a bracket and set nuts

*4 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
 *5 O: For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act.

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

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-AR4	25A-AR43P-270AS	
Set nut	AR23P-260S	AR33P-260S	AR43F	AR43P-260S	
Bowl assembly	25A-C2SF-D	25A-C3SF-D		25A-C4SF-D	

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

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



		25 Filter	A-	gulator AW20-B to 25A-A gulator with Backflow Function AW20K-B to 25A- How to Order	_	-	(-B	
		- AW 3 s compatible	2	B B B B B B B B B B B B B B B B B B B	 Semi-star specificati alphanum 	ndard: Select ndard symbol ion is require eric order. 5A-AW30K-0	: When mor d, indicate i	re than one
			Symbol	Description	20	Body 30	v size 40	60
2 Wi	ith ba	ackflow function	Nil K	Without backflow function With backflow function		•	•	•
			+	_				. <u> </u>
3	Pipe	thread type	Nil N F	Rc NPT G	•	•	•	
			+			1	1	1
			01	1/8		_	_	
			02 03	<u>1/4</u> 3/8	-			— <u> </u>
	F	Port size	03	1/2				<u>+ </u>
			04	3/4				
			10	1		_	_	•
			+					
*1 C			Nil	Without mounting option				
Option ¹ *		Mounting	B *2	With bracket			•	
Ō			Н	With set nut (For panel fitting)				<u> </u>
			+ Nil	0.05 to 0.85 MPa setting				
	а	Set pressure	1 *3	0.02 to 0.2 MPa setting				
			+		-			
ard		Exhaust	Nil	Relieving type				
nd	b	mechanism	Ν	Non-relieving type				
Semi-standard			+					
j-	с	Flow direction	Nil	Flow direction: Left to right				
Se			R	Flow direction: Right to left				
			+	Name plate and equiling plate finds 11, 01, 11, 100				
	d	Pressure unit	Nil Z *4	Name plate and caution plate for bowl in SI units: MPa	 *4	 *4	 	● ○*4
		and U t	_	Name plate and caution plate for bowl in imperial units: psi, °F and supplied loose at the time of shipment.		0	0	

*2 The assembly consists of a bracket and set nuts (25A-AW20(K) to 25A-AW40(K)). Including 2 mounting screws for the 25A-AW60(K).

*2 The assentialy consists of a bracket and set huis (25A-AW20(K)) to 25A-AW40(K)). Including 2 mounting sciews for the 25A-AW40(K).
 *3 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
 *4 O : For pipe thread type: NPT. This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)

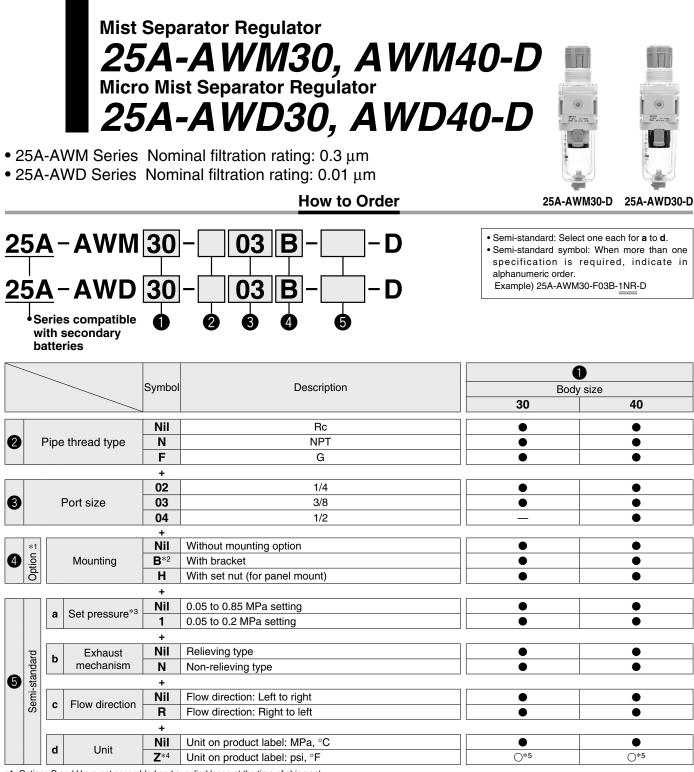
Bracket, Set Nut, Bowl Assembly Part Nos. for the 25A- Series

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	—*3
Bowl assembly	25A-C2SF-A	25A-C3SF-A	25A-C	4SF-A

*1 The assembly consists of a bracket and set nuts.
*2 The assembly consists of a bracket and 2 mounting screws.
*3 Please contact SMC regarding the set nuts for the 25A-AW60(K).

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





*1 Options B and H are not assembled and supplied loose at the time of shipment.

*2 The assembly consists of a bracket and set nuts.

*3 Pressure can be set higher than the specification pressure in some cases, but use pressure within the

specification range. *4 For the pipe thread type: NPT

This product is for overseas use only according to the New Measurement Act.

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

*5 : For the pipe thread type: NPT only

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

	Model			
Optional specifications	25A-AWM30-D	25A-AWM40-D		
	25A-AWD30-D	25A-AWD40-D		
Bracket assembly*1	25A-AR33P-270AS	25A-AR43P-270AS		
Set nut	AR33P-260S	AR43P-260S		
Bowl assembly	25A-C3SF-D	25A-C4SF-D		

*1 The assembly consists of a bracket and set nuts.

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

Soft Start-up Valve 25A-AV2000-A to 25A-AV5000-A

			How to Order				
5 <u>A</u> -AV	20 00	-		4			
	V	2			_		E
Series compati		t and add	* CE/UKCA n for options "a" and semi-standard options "b" and "c."	ompliant			_
with secondary			and a umbally M/han mare than and analification is	rommot	Electrica DIN term		2 conne
batteries*7			te in alphabetical order.	arommet	Divienn		2 conne
	Exam	ple) 25A-A	V2000-N02B-1DB-RZ-A	•	•		٠
					(
	_	Symbol	Description		Body	/ size	
				20	30	40	50
		Nil	Rc				
Thread ty	/pe	N	NPT	•	•	•	
		F	G	•	•	•	•
		+	·]				
		02	1/4		_		
Port siz	•	03	3/8			_	_
1(P), 2(04	1/2				
1(1), 2(9	06	3/4		—		•
		10	1	_	_		
		+			-		
a Mo	unting	Nil	Without mounting option	•	•	•	•
0		B	With bracket		•		
		+	100 VAC			•	
	AC	2	200 VAC	•		•	
	(50/60 Hz)	3	110 VAC [115 VAC]*1	•	•	•	Ŏ
Rated coil voltage	()	4	220 VAC [230 VAC]*1	•	•	•	
		5	24 VDC	•	•	•	•
	DC	6	12 VDC	•	•	•	•
I		+			1	1	1
		G	Grommet (Lead wire length: 300 mm)				
Electrical	antry	D	Type D (DIN terminal/With connector)		•		
	entry	Y	Type Y (DIN terminal/With connector)*2				•
		<u>ко</u> +	M12 connector (Without cable)	0*3	○*3	0*3	0*
		Nil	None				
Light/surge voltage	e suppressor	Z	With light/surge voltage suppressor	0*4	O*4	0*4	0*
		+			Ū	0	1 .
		Nil	Non-locking push type				
Manual ove	erride	В	Push-turn locking slotted type				
		С	Push-turn locking lever type	●	•		
		+	Flow direction: Loft to right				
b Flow	direction	Nil	Flow direction: Left to right Flow direction: Right to left	•	•	•	
		R +		-			
b Flow		Nil	Unit on product label: MPa, Pressure gauge: MPa				
S Press	sure unit	Z *5	Unit on product label: psi, Pressure gauge: MPa/psi dual scale	○*6	○*6	○*6	0*
		-	ble. The 220 VAC and the 230 VAC are interchangeable as well.				

The allowable voltage fluctuation is -15% of the rated voltage for the 115 VAC or the 230 VAC.
*2 Type "Y" is a DIN terminal in compliance with EN-175301-803C (former DIN43650C).
*3 When the electrical entry is "KO," only the DC specifications (5 or 6) can be selected for the rated coil voltage.

*4 When it is "KO," only the "With light/surge voltage suppressor" option can be selected.

*5 For the pipe thread type: NPT

This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)

*6 Pressure unit Z: For the pipe thread type: NPT only

*7 Coils for pilot valve assemblies, connector pins, and lead wires are made of copper.

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

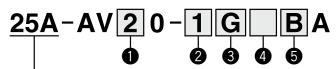


Bracket/Option Part Nos., Pilot Valve Assembly/Replacement Parts for the 25A- Series

Description	Series						
Description	25A-AV2000-A	25A-AV3000-A	25A-AV4000-A	25A-AV5000-A			
Bracket assembly ^{*1}	25A-AV22P-210AS	25A-AV32P-210AS	25A-AV42P-210AS	25A-AV52P-210AS			
Pilot valve assembly		Refer to the How	v to Order below.				

*1 Bracket: 1 pc., Mounting screw: 2 pcs. (3 pcs. for the 25A-AV5000-A)

How to Order Pilot Valve Assembly



Series compatible with secondary batteries

		Cumbal	Description		Applicable	body size	е
		Symbol	Description	20	30	40	50
Death	!	2	For the AV2000-A, AV3000-A			_	-
Body	/ size	4	For the AV4000-A, AV5000-A	_	_	•	
		+					
		1	100 VAC		•	•	
	AC	2	200 VAC		•	•	
Rated coil	(50/60 Hz)	3	110 VAC [115 VAC]*1	•	•	•	•
voltage		4	220 VAC [230 VAC]*1		•	•	
		5	24 VDC		•	•	•
	DC	6	12 VDC		•	•	
		+					
		G	Grommet (Lead wire length: 300 mm)		•	•	
Floatric	al antra	D	Type D (DIN terminal/With connector)		•	•	
Electric	cal entry	Y	Type Y (DIN terminal/With connector)*2		•	•	
		КО	M12 connector (Without cable)	*3	○*3	*3	0*
		+					
Light/ourgo volt		Nil	None		•	•	
Light/surge von	surge voltage suppressor		With light/surge voltage suppressor	O*4	0*4	0*4	0*
		+					
		Nil	Non-locking push type		•		
Manual	override	В	Push-turn locking slotted type				
		С	Push-turn locking lever type				

*1 The 110 VAC and the 115 VAC are interchangeable. The 220 VAC and the 230 VAC are interchangeable as well.

The allowable voltage fluctuation is -15% to +5% of the rated voltage for the 115 VAC or the 230 VAC.

*2 Type "Y" is a DIN terminal in compliance with EN-175301-803C (former DIN43650C).

*3 When the electrical entry is "KO," only the DC specifications (5 or 6) can be selected for the rated coil voltage.
*4 When it is "KO," only the "With light/surge voltage suppressor" option can be selected.

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

				How to Order			
5	۹-	-IR 1	00				
		ni-standard: Select		n for a , b , and c . nore than one specification is required, indicate in alphanumeric o	rder		
		II-Standard Symbo				0	
			Symbol	Description		Body size	
					1	2	3
				0.005 to 0.2 MPa		•	_
	2.4		0	0.01 to 0.2 MPa	_	_	
5	set p	ressure range	1	0.01 to 0.4 MPa	•	•	•
			2	0.01 to 0.8 MPa		•	
			+				
			0	Bottom exhaust		•	•
	Exha	ust direction	1	Front exhaust			
			2	Rear exhaust		—	
			+			-	
			Nil	Rc		•	•
	Pipe	thread type	N	NPT	•	•	•
			F	G			
			01	1/8			
			02	1/6	—	•	•
		Port size	02	3/8			
			03	1/2			
			+	1/2			·
			Nil	Without mounting option			
	а	Mounting	B *2	With bracket	•	•	•
*1	-	meaning	H	With hexagon panel nut (for panel mount)	•	•	•
			+				
Option			EA	NPN open collector 1 output			
Ő		With digital	EB	PNP open collector 1 output		•	•
	b	pressure switch	EC	NPN open collector 2 outputs + Analog voltage output	•	•	
			ED	NPN open collector 2 outputs + Analog current output			
			+				
	с	Flow direction	Nil	Flow direction: Left to right	•	•	
	•		R	Flow direction: Right to left			
ard			+			6	-
and	d	Knob	Nil	Upward		•	
Semi-standard			V	Downward			
em			+	Nome plate and pressure access is imposide write MD-	_	•	-
S		Drocourte	Nil	Name plate and pressure gauge in imperial units: MPa			
	е	Pressure unit*3	Z	Name plate and pressure gauge in imperial units: psi			
4			ZA	Digital pressure switch: With unit conversion function	∣		

I Options are shipped together with the product but do not come assembled. B and H cannot be selected at the same time. The current bracket cannot be used for this product.

SMC

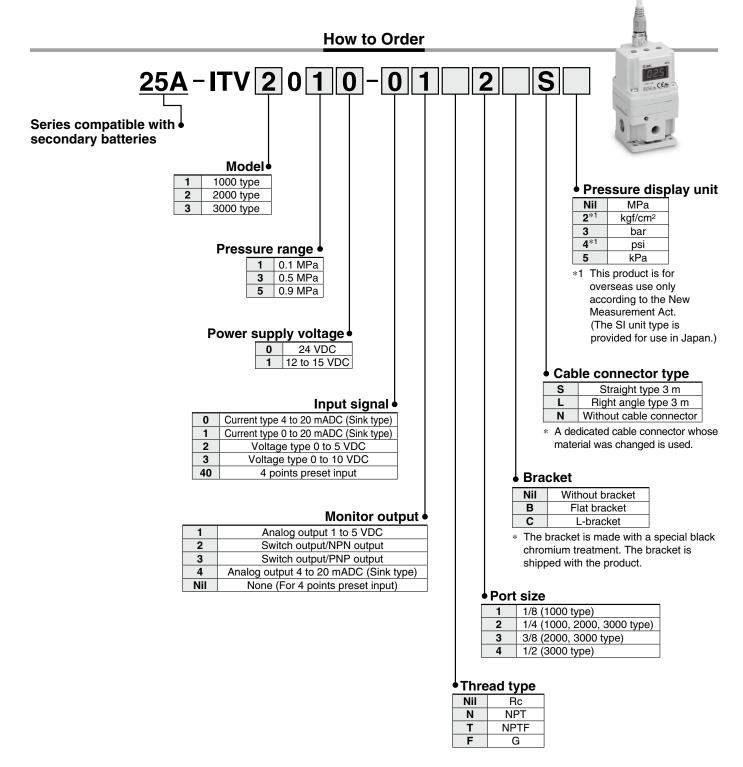
*2 The assembly consists of a bracket and set nuts

*3 See pressure unit table below.

	Pipe thread	Name plate in	Pressure switch in imperial units		
	type	imperial units	EA, EB, EC, ED	Sales*6	
	Rc			lanan	
Nil	NPT	MPa	Fixed SI unit	Japan, Overseas	
	G	à		Overseas	
	Rc	—	_		
Z *4	NPT	psi	With unit conversion function (Initial value psi)	Only overseas	
	G	—	_		
	Rc				
ZA *5	NPT	MPa	With unit conversion function	Only overseas	
	G				

- *4 For pipe thread type: NPT
- *5 For options: EA, EB, EC, ED
- *6 According to the new Measurement Law, only 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.

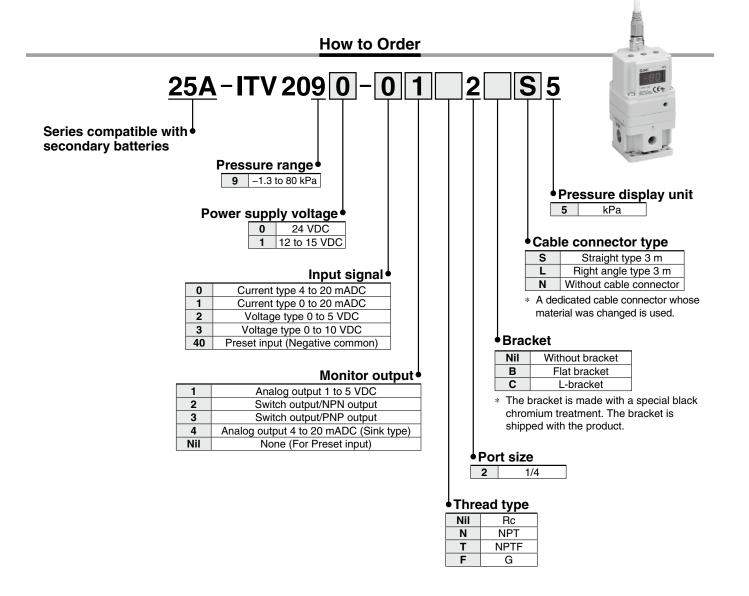
СЕСКСЯ Electro-Pneumatic Regulator *RoHS* 25A-ITV1000/2000/3000 Series



- * 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.



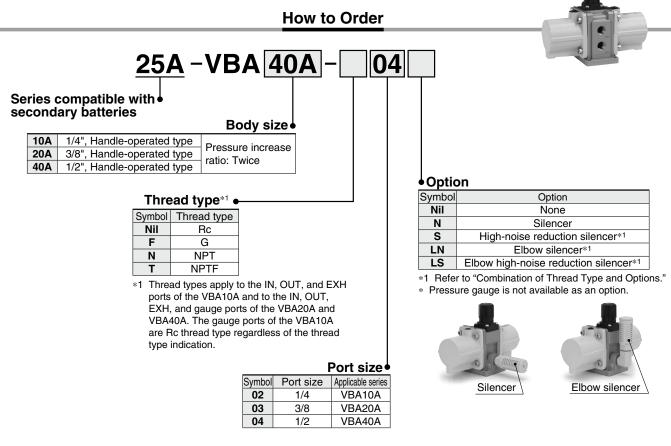
CECA CHIUS Electronic Vacuum Regulator RoHS 25A-ITV209 Series



- * 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.

SMC

Booster Regulator 25A-VBA Series RoHS



Combination of Thread Type and Options

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

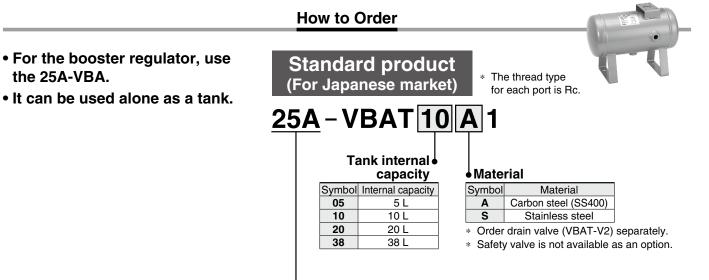
Air Tank Compatibility Chart

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			J

* Refer to page 251 for details on air tanks.

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

Air Tank 25A-VBAT Series RoHS



Series compatible with secondary batteries

≜Caution

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

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

Pressure Gauge for General Purpose G43-10-01-X300 RoHS

How to Order



G43-10-01-<u>X300</u>

Internal/external parts copper-free type

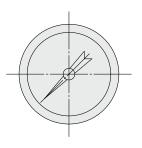
Specifications

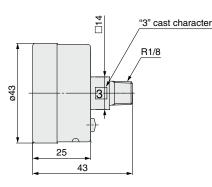
Туре	Back side thread
Thread type	R
Pressure range	0–1.0 MPa
Accuracy	±3% F.S
Weight	82 g

* The dimensions and shape may differ in some parts from those of the standard product.

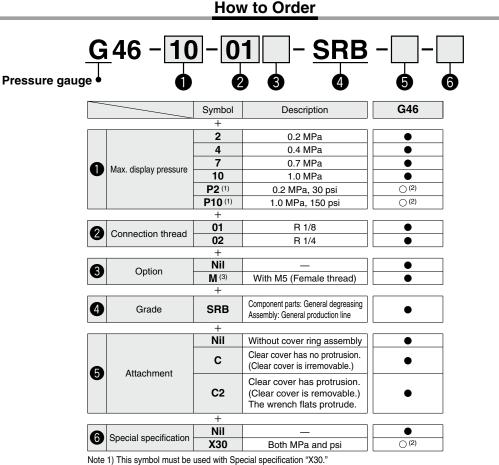
Dimensions

G43-10-01-X300





Pressure Gauge for Clean Regulator/ With Limit Indicator G46-SRB



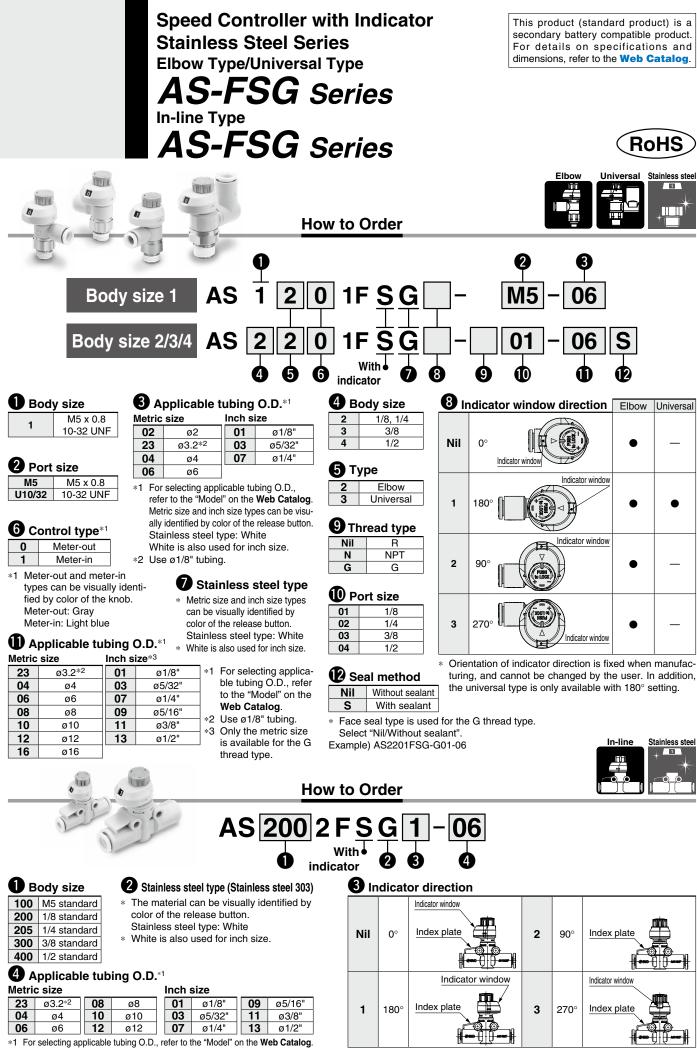
Note 2) Under the New Measurement Law, products for overseas use only (SI unit type for use in

Japan)

Note 3) To use the pressure gauge with M5 (female thread), attach the joint when piping the tube. For combinations with the special specification products, please consult SMC separately.



SMC



*1 For selecting applicable tubing O.D., refer to the "Model" on the Web Catalor
 *2 Use Ø1/8" tubing.

SMC

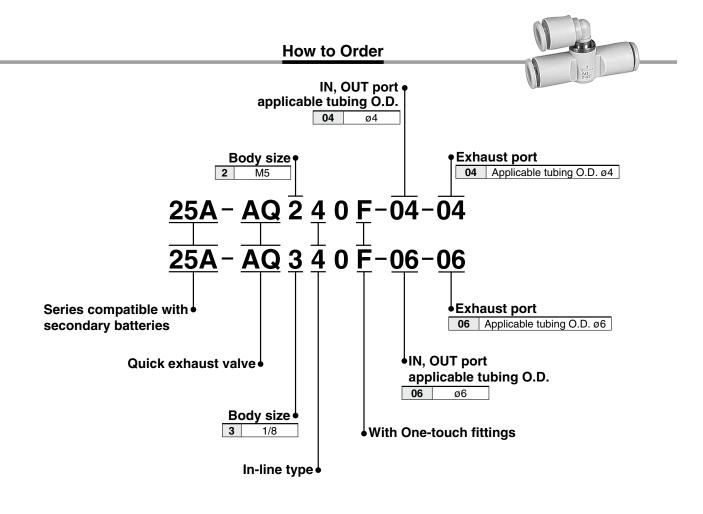
AS-FPQ/AS-FPG Series

RoHS



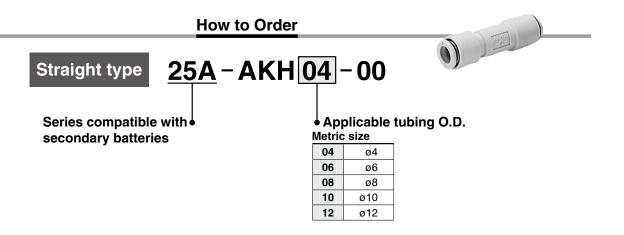
AS-FPQ: Brass (electroless nickel plated) and AS-FPG: Stainless steel 304 are now available as a series.

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



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

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



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

One-touch Fittings Stainless Steel

KQ2-G Series



Metal material: Stainless steel 303

Improved tube insertion/removal



*1: Tube removal strength is ensured to be equivalent to previous model.

Dimensions Dimensions *1



 $\ast 1:$ Previous KG series model: Male elbow, applicable tubing O.D. ø6, connection thread R1/8

Body type: total of **27**models



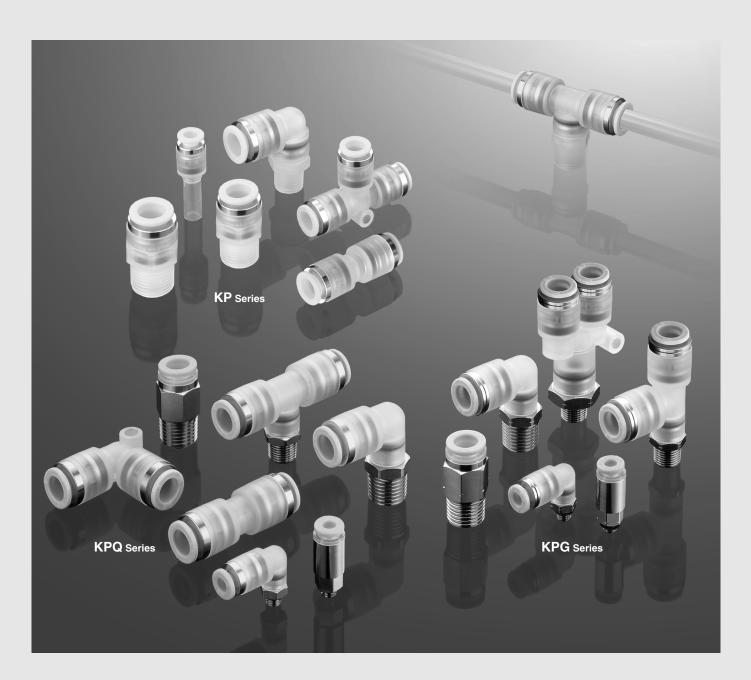
SMC

This product (only the stainless steel metal parts type) is a secondary battery compatible product. For details, refer to the **Web Catalog**.

Clean One-touch Fittings

KP/KPQ/KPG Series





Stainless Steel 316 Fittings

KQG2 Series



Compact and Light



Grease-free/Can be used with steam.

Certified to meet current Food Sanitation Law standards. (Component materials have met apparatuses and





5122

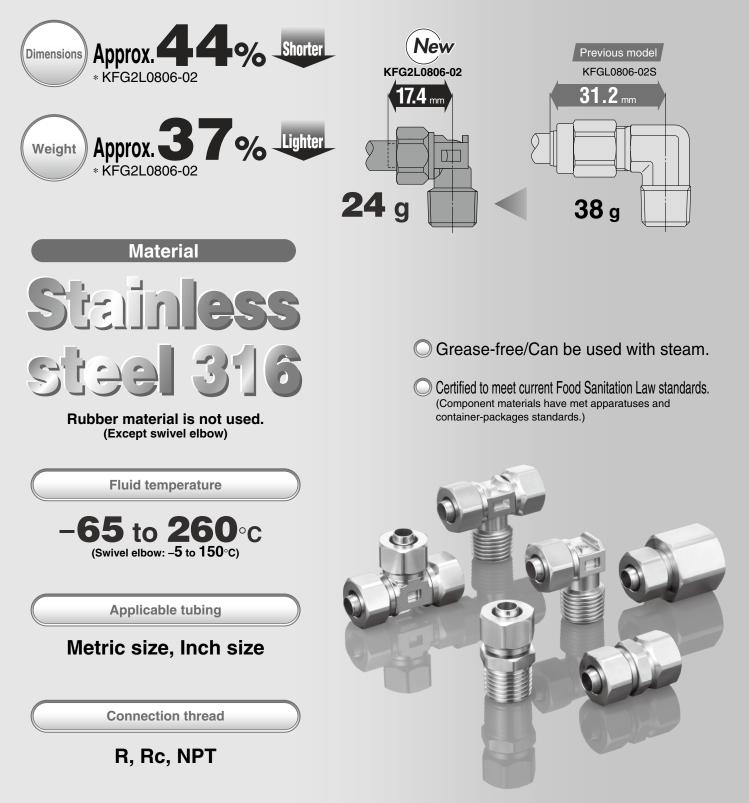
M, R, Rc, UNF, NPT

Stainless Steel 316 Fittings

KFG2 Series



Compact and Light



Miniature Fittings Stainless Steel 316 MS Series Applicable Tubes: Ø3.2, Ø4, Ø6 Connection Thread: M5, R 1/8



This product (standard product) is a secondary battery compatible product. For details, refer to the Web Catalog.

For use in corrosive environments Hose nipple Stainless steel 316 Tube Barb Possible for Compact piping space combination use of Tube has a large retaining force. Hose Configuration for easy nylon tubing and nipple assures easy installation and insertion into the tube polyurethane tubing. Holds the tube tightly. Line up various types Possible for special tubing in the same direction. Accepts many types of plastic Body Stainless steel 316 Cap nut Hose nipple and hose elbow Certainly hold the tube Accepts nylon, soft nylon, and polyureby manual clamping Easy removal of tube Gasket by loosening Stainless steel 316 Low tightening torque Tight seal **Barb fitting** Barb Tube Configuration for easy insertion into the tube Holds the tube tightly. Gasket Body Low tightening Stainless steel 316 torque Tight seal

Specifications

Applicable tubing material	Nylon	Soft nylon		Polyurethane	PFA (1)	FEP (2)	Modified PTFE ⁽³⁾	Wear resistant polyurethane (4)
Applicable tubing O.D./I.D.	ø4/ø2.5 ø6/ø4	ø3.18/ø2.18	ø4/ø2.5 ø6/ø4	ø3.18/ø2 ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4
Fluid	Air, N2, W			/ater (5, 6, 7)				
Maximum operating pressure (at 20°C)	1.5 MPa	1 MPa		0.8 MPa	1 MPa	1.5 MPa	1.4 MPa	0.8 MPa
Ambient and fluid temperature	-5 to 60°C, Water: 0 to 40°C (No fre			lo freezing	g)			
Connection size	M5, R1/8				M5			
Thread	JIS B0205 (Metric fine thread)			JIS B0205, Class 2				
Thread	JIS B0203 (Taper thread for piping)			(Metric fine thread)				

Note 1), Note 2), Note 3), Note 4) Applicable only for hose nipple type.

Note 5) Barb fitting, barb elbow and barb tee are not compatible with water.

Note 6) Deionized water is not recommended for use as it may affect the material used in the fittings. In addition, it is known to degrade the water quality.

Note 7) As the universal nipple comes with grease, it cannot be used when N2 is used as clean, dry air.

Principal Parts Material

SMC

	Material	Body	Stainless steel 316
		Gasket	PVC, Nylon 66, GF30%



removal.

tubing

thane tubing.

Made to Order (Refer to the Web Catalog for details.)

Rectangular Multi-connector **25A-KDM 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	Color of release button
23	ø3.2	
04	ø4	Blue
06	ø6	

Inch size

Symbol	Size	Color of release button
01	ø1/8"	
03	ø5/32"	Red
07	ø1/4"	

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

For details, refer to the Web Catalog.

RoHS

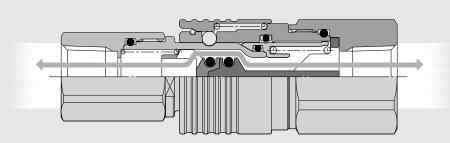
This product (standard product) is a secondary battery compatible product. For details, refer to the **Web Catalog**.

S Couplers Stainless steel type

KKA Series







Non-greased specification (standard)

Allows smooth installation and removal even without grease

- O-ring: Fluorine coated
- Sliding parts of plug and socket: Fluorine coated is used.

Fluid: Water, Air

Operating temperature range: –5 to 150°C

Note) This product should not be used with steam.





Tubing



General pneumatic tubing

• Max. operating pressure: 3.0 MPa (T0604, at 20°C)

Series	Tubin	g O.D.	Color Fluid	Fluid
Series	Metric size	Inch size	Color	Fluid
T/TIA	ø4, ø6, ø8, ø10 ø12, ø16	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2"	Black, White, Red, Blue, Yellow, Green	Air, Water Turbine oil class 1 (ISO VG32) ^{*1}

*1 Refer to the catalog for more information on using the product.

Soft Nylon Tubing TS



Series	Tubin	g O.D.	Color	Fluid
Series	Metric size	Inch size	COIDI	Fiulu
TS/TISA	ø4, ø6, ø8, ø10 ø12, ø16	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2"	Black, White, Red, Blue, Yellow, Green	Air, Water Turbine oil class 1 (ISO VG32) ^{*1}

*1 Refer to the catalog for more information on using the product.

Polyurethane Tubing TU



- Max. operating pressure: 0.8 MPa (at 20°C)
- Made to Order
- 100 m reel/Longer length reel/20 m roll (-X4)
- Compatible with the Food Sanitation Law/FDA (U.S. Food and Drug Administration)/
- Complies with the EU No 10/2011 dissolution test

Series	Tubin	g O.D.	Color	Fluid
Series	Metric size	Inch size	COIDI	Fluiu
TU/TIUB	ø2, ø4, ø6, ø8 ø10, ø12, ø16	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2"	Black, White, Red, Blue, Yellow, Green, Clear, Orange, and more (Total 29 colors)	Air, Water

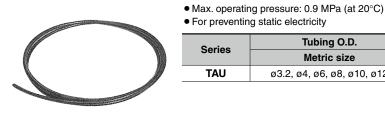
Antistatic Soft Nylon Tubing TAS



 Max. operating pressure: 1.2 MPa (at 20°C) 	
 For preventing static electricity 	

Series Tubing O.D.		Color	Fluid
Series	Metric size	60101	i luid
TAS	ø3.2, ø4, ø6, ø8, ø10, ø12	Black	Air

Antistatic Polyurethane Tubing TAU



For preventing static electricity					
Series	Tubing O.D.	Color	Fluid		
Series	Metric size	Color	Fiulu		
TAU	ø3.2, ø4, ø6, ø8, ø10, ø12	Black	Air		

Fluoropolymer Tubing TL/TIL

- Max. operating pressure: 1.0 MPa (at 20°C)
- Operating temperature (fixed usage): -65 to 260°C
- Food Sanitation Law compliant
- Complies with the FDA (Food and Drug Administration) § 177.1550 dissolution test

Series	Tubin	g O.D.	Color	
	Metric size	Inch size	COIOI	
TL/TIL	ø4, ø6, ø8, ø10 ø12, ø19	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2", ø3/4", ø1"	Translucent	

FEP Tubing (Fluoropolymer) TH/TIH

- Max. operating pressure: 2.3 MPa (at 20°C)*1



- Food Sanitation Law compliant
- Complies with the FDA (Food and Drug Administration) § 177.1550 dissolution test
 - Operating temperature (fixed usage): Air, Inert gas: -65 to 200°C
 - Water: 0 to 100°C (No freezing) *1 This may vary according to size.

Sorios	Tubing O.D.		Color
Series	Metric size	Inch size	Color
TH/TIH	ø4, ø6, ø8, ø10, ø12	ø1/8", ø3/16", ø1/4", ø3/8", ø1/2", ø3/4"	Translucent, Black, Red, Blue

Soft Fluoropolymer Tubing TD/TID

- Max. operating pressure: 1.6 MPa (at 20°C)*1
- Food Sanitation Law compliant
- Complies with the FDA (Food and Drug Administration) § 177.1550 dissolution test
- Operating temperature (fixed usage): Air, Inert gas: -65 to 260°C
 - Water: 0 to 100°C (No freezing)
- *1 This may vary according to size.

Series	Tubing O.D.		Color
Series	Metric size	Inch size	COIOI
TD/TID	ø4, ø6, ø8, ø10, ø12	ø1/8", ø3/16", ø1/4", ø3/8", ø1/2"	Translucent

Soft Polyolefin Tubing TPS

- Max. operating pressure (at 20°C): 0.7 MPa (ø4 to ø12)
- Complies with the FDA (Food and Drug Administration) § 175.300

dissolution test (White, Blue, Yellow only)

Series	Applicable tubing O.D.	Color	Fluid
TPS	ø4, ø6, ø8, ø10, ø12	Black, White, Red, Blue, Yellow, Green	Air, Water, etc.

Moisture Control Tube IDK

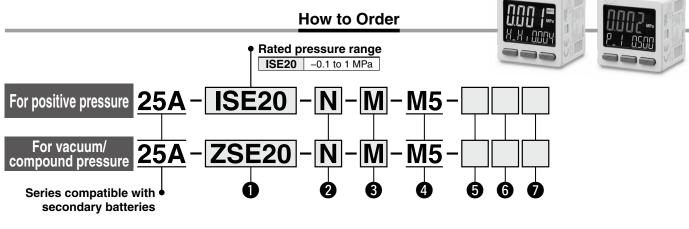
- Prevents condensation in piping for small cylinders/air grippers
- Diffuses water vapor in the piping to the outside
- All you have to do is install the moisture control tube.
 - Additional power supplies and works are not necessary.

Series	O.D./I.D. [mm]	Effective length [mm]	Applicable fittings
IDK02 (Linear shape)	2/1.2	100	KQ2
IDK04 (Linear shape)	4/2.5	100 200	KQ2
IDK06 (Linear shape)	6/4	200	KQ2
IDK04-100-C1 (Coil shape)	4/2.5	100	KQ2





1 Output 3-Screen Display High-Precision Digital Pressure Switch 1P40 25A-ZSE20(F)/ISE20 Series



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

2 Output specification

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

3 Unit specification

• • • • • • • • • • • • • • • • • • • •		
Symbol	Description	
Nil	Units selection function*1	
М	SI unit only ^{*2}	
Р	Units selection function (Initial value psi)*1	

6 Option 2

Nil None

Panel mount

Panel mount

adapter + Front

protection cover

adapter

Symbol

в

D

*1 Under the New Measurement Act, switches with the units selection function are not permitted for use in Japan.

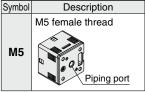
Description

ZS-46-B

ZS-46-D

*2 Fixed unit: kPa, MPa

4 Piping specification



6 Ор	tion 1		
Symbol		Description	
Nil	Without lead	l wire	
L	Lead wire with connector (3-core, 2 m lead wire)	Without waterproof cover	ZS-46-3L

7 Option 3

Symbol	Operation manual*1	Calibration certificate*1
Nil	0	—
Y	_	—
Κ	0	0
Т	_	0

*1 All texts are in both English and Japanese.

Options/Part Nos.

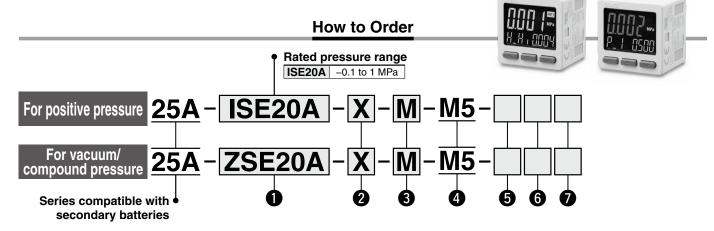
When only optional parts are required	d, order with	the part numbers listed below.

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

*1 Under the New Measurement Act, switches with the units selection function are not permitted for use in Japan.

Description

ZS-46-B

ZS-46-D

*2 Fixed unit: kPa, MPa

6 Option 2 Symbol

None

Panel mount

Panel mount

adapter + Front

protection cover

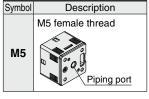
adapter

Nil

B

D

4 Piping specification



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

Option 3

5 Ontion 1

Operation manual*1	Calibration certificate*1
0	—
—	—
0	0
—	0
	Operation manual*1

*1 All texts are in both English and Japanese.

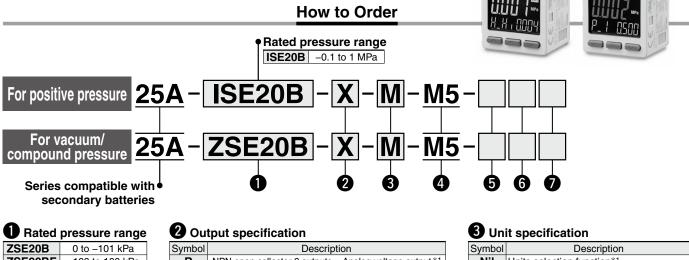
Options/Part Nos.

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 + Analog Output (Voltage/Current) **3-Screen Display High-Precision** (RoHS) **Digital Pressure Switch** IP65 25A-ZSE20B(F)/ISE20B Series



Haleu	pressure range
ZSE20B	0 to –101 kPa
ZSE20BF	-100 to 100 kPa

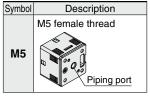
Symbol	Description
R	NPN open collector 2 outputs + Analog voltage output *1
S	NPN open collector 2 outputs + Analog current output *1
Т	PNP open collector 2 outputs + Analog voltage output *1
V	PNP open collector 2 outputs + Analog current output *1
Х	NPN open collector 2 outputs + Copy function
Y	PNP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

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

Symbol	Description
Nil	Units selection function*1
М	SI unit only ^{*2}
Р	Units selection function (Initial value psi)*1

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

Piping specification



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

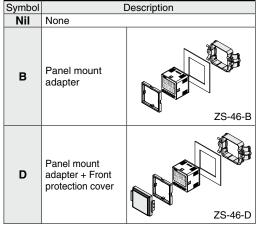
Option 3

5 Option 1

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

SMC

6 Option 2 Symbol



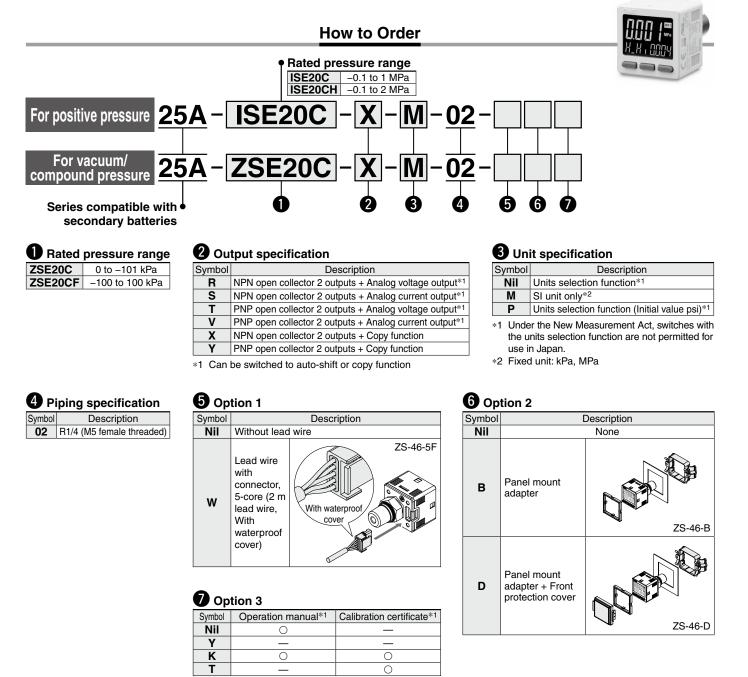
*1 All texts are in both English and Japanese.

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



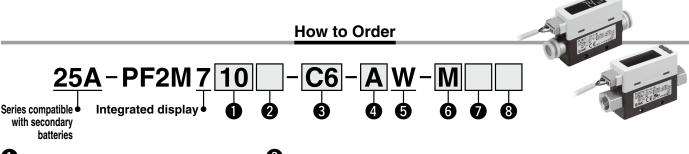
*1 All texts are in both English and Japanese.

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	Rear ported				
Panel mount adapter + Front protection cover	ZS-46-D	Rear ported				
Lead wire with connector	ZS-46-5F	5-core, 2 m, Waterproof (With waterproof cover)				
Front protection cover	ZS-27-01	Rear ported				



2-Color Display (E CA CAUS Digital Flow Switch 25A-PF2M7 Series



Rated flow range

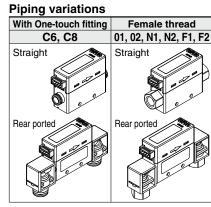
01	0.01 to 1 L/min	25	0.3 to 25 L/min
02	0.02 to 2 L/min	50	0.5 to 50 L/min
05	0.05 to 5 L/min	11	1 to 100 L/min
10	0.1 to 10 L/min	21	2 to 200 L/min

2 Piping entry direction

Symbol	Piping entry			Rate	ed flo	ow ra	ange		
Symbol	direction	1	2	5	10	25	50	100	200
Nil	Straight	\bullet					\bullet		
L	Rear ported	۲					۲		

Ort size

Sumbol	Port size	Rated flow range							
Symbol	Fon size	1	2	5	10	25	50	100	200
01	Rc1/8		۲	۲	\bullet	\bullet	\bullet	—	—
N1	NPT1/8	\bullet	\bullet	\bullet	\bullet	\bullet	\bullet	—	—
F1	G1/8		\bullet	۲		\bullet	\bullet	—	—
02	Rc1/4	_		_	—	_	—	٠	\bullet
N2	NPT1/4	—	—	—	-	—	—		
F2	G1/4	_			—	_	—	٠	\bullet
C6	ø6	lacksquare	lacksquare	\bullet	\bullet	lacksquare		—	—
C8	ø8	_		_	—				

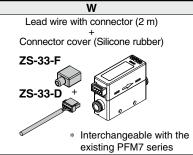


4 Output specification

OUT1	OUT2					
NPN	NPN					
PNP	PNP					
NPN	Analog 1 to 5 V \Leftrightarrow Analog 0 to 10 V ^{*1}					
NPN	Analog 4 to 20 mA					
PNP	Analog 1 to 5 V \Leftrightarrow Analog 0 to 10 V ^{*1}					
PNP	Analog 4 to 20 mA					
	OUT1 NPN PNP NPN NPN PNP					

*1 1 to 5 V or 0 to 10 V can be selected by pressing the button. The default setting is 1 to 5 V.

5 Option 1



6 Unit specification

	<u> </u>					
	М	SI unit only ^{*2}				
	Nil	Unit selection function*3				
*2 Fixed unit: Instantaneous flow: L/m						

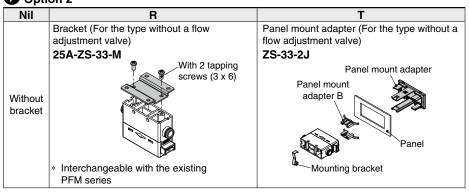
Accumulated flow: L *3 This product is for overseas use only. (The SI unit type is provided for use in Japan in accordance with the New Measurement Act.) The unit can be changed. Instantaneous flow: L/min \Leftrightarrow cfm Accumulated flow: L \Leftrightarrow ft³

8 Calibration certificate*4

Nil	None
Δ	Yes

- *4 Made to order
- The certificate is in both English and Japanese.

Option 2

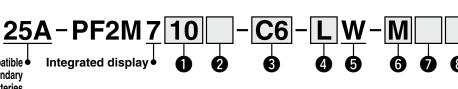


- * Options are shipped together with the product but do not come assembled.
 - * The 25A- series specifications and dimensions are the same as those of the standard model.



Ore IO-Link **CE CA CAN** 2-Color Display Digital Flow Switch RoHS 25A-PF2M7-L Series

How to Order





Series compatible with secondary batteries

Rated flow range

01	0.01 to 1 L/min	25	0.3 to 25 L/min
02	0.02 to 2 L/min	50	0.5 to 50 L/min
05	0.05 to 5 L/min	11	1 to 100 L/min
10	0.1 to 10 L/min	21	2 to 200 L/min

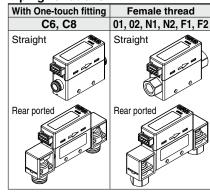
2 Piping entry direction

Syml	201	Piping entry			Rate	ed flo	ow ra	ange	•	
Synn	101	direction	1	2	5	10	25	50	100	200
Ni	I	Straight	۲						•	
L		Rear ported	\bullet							

B Port size

Sumbol	Dort oize		R	ate	d flo	ow r	ang	ge	
Symbol	Fon size	1	2	5	10	25	50	100	200
01	Rc1/8	\bullet						—	—
N1	NPT1/8	\bullet	\bullet	٠	۲	٠	\bullet	—	—
F1	G1/8	\bullet	\bullet					—	—
02	Rc1/4	—	—	—	—	—	—		\bullet
N2	NPT1/4	—	—	—	—	—	—	\bullet	\bullet
F2	G1/4	—	—	—	—	—	—	٠	\bullet
C6	ø6	\bullet					\bullet	—	—
C8	ø8	—	—	—	—	—	—	٠	\bullet

Piping variations



SI unit only*2

Unit selection function*3

Accumulated flow: L

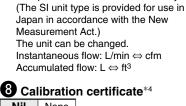
Output specification abol OUT1

Symbol	0011	0012			
L	IO-Link/ NPN/PNP	—			
L2	IO-Link/ NPN/PNP	NPN/PNP/External input			
L3	IO-Link/ NPN/PNP	Analog 1 to 5 V \Leftrightarrow Analog 0 to 10 V ^{*1}			
L4	IO-Link/ NPN/PNP	Analog 4 to 20 mA			

*1 1 to 5 V or 0 to 10 V can be selected by pressing the button. The default setting is 1 to 5 V.

5 Option 1 6 Unit specification w Μ Lead wire with connector (2 m) Nil *2 Fixed unit: Instantaneous flow: L/min Connector cover (Silicone rubber) *3 This product is for overseas use only. 7S-33-F ANT ZS-33-D * Interchangeable with the

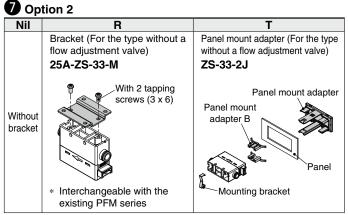
existing PFM7 series



Nil None

Yes Α *4 Made to order

The certificate is in both English and Japanese.



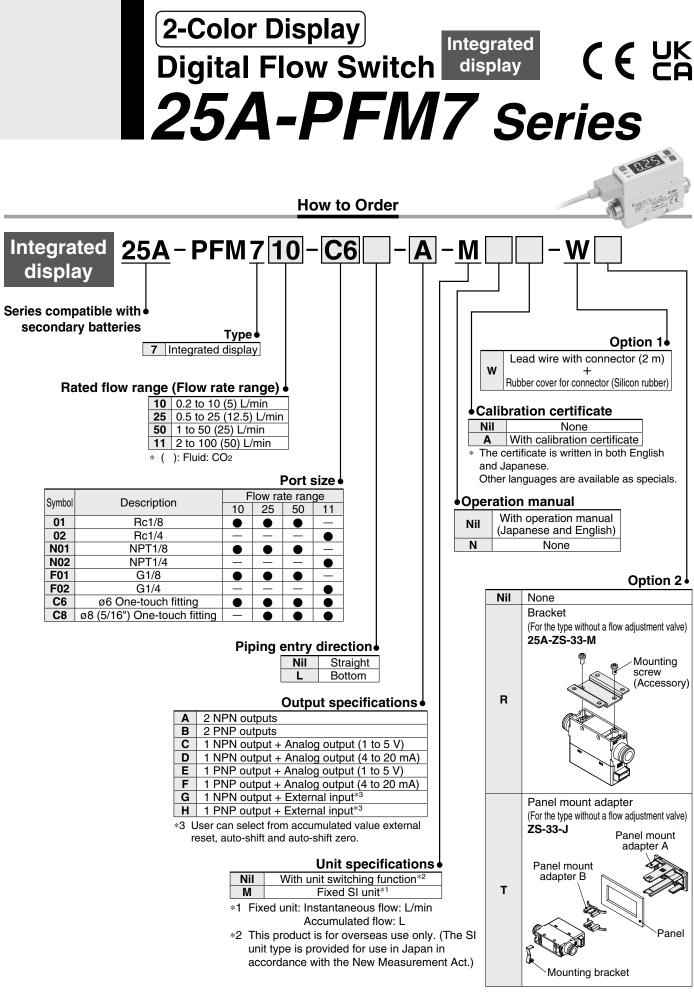
Options are shipped together with the product but do not come assembled.

M12 (Male) Connector 25A-ZS-33-DM-X558 Brown \bigcirc M12 conversion lead wire White 2 Brown Black 3 White Blue (4) Black Wiring diagram Blue (13) 100 (42.5)

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

> > For details, refer to the Web Catalog.

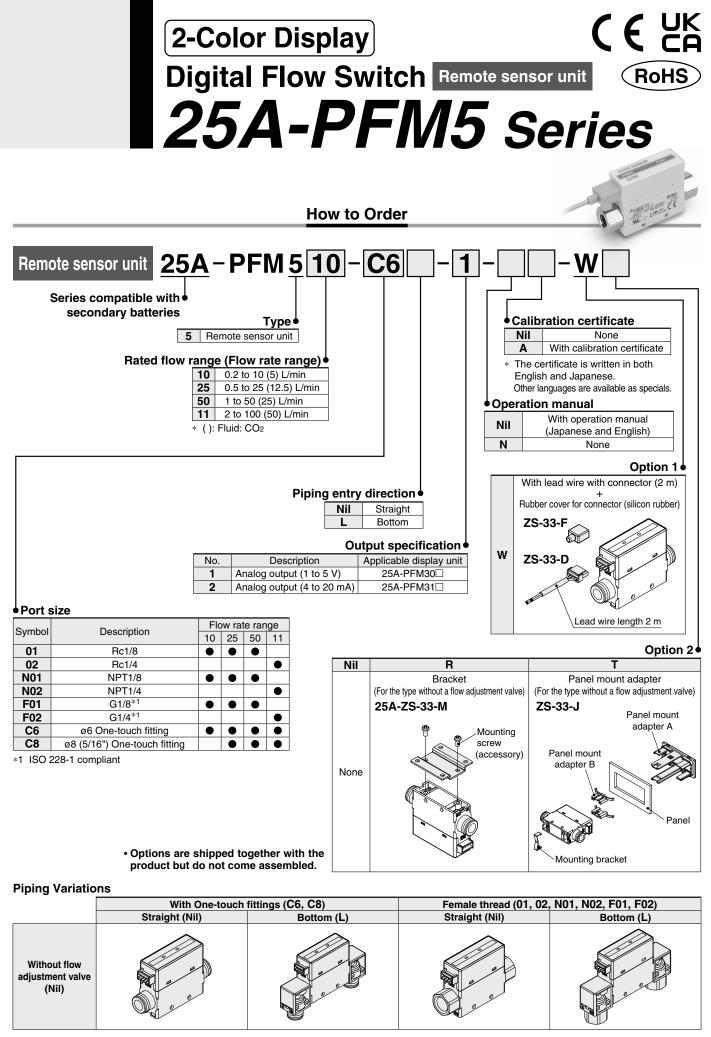




* The 25A- series specifications and dimensions are the same as those of the standard model.

* Digital flow switch with flow adjustment valve is not standard product. It can be supplied as Made-to-Order separately. For details, refer to the Web Catalog.



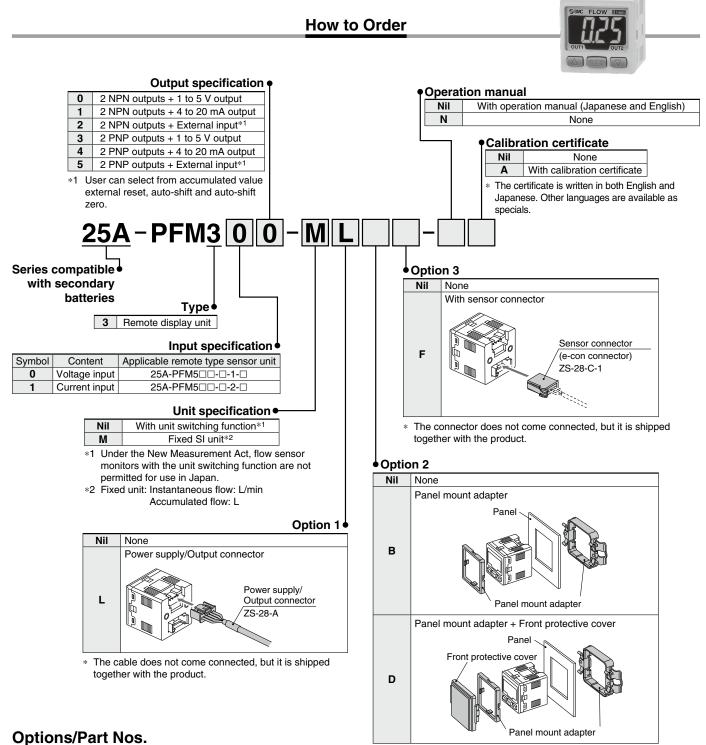


* The 25A- series specifications and dimensions are the same as those of the standard model. For details, refer to the Web Catalog.

SMC

For 25A-PFM5

Flow Sensor Monitor RoHS **25A-PFN3 Series**



- * Options are shipped together with the product but do not come assembled.
 - * The 25A- series specifications and dimensions are the same as those of the standard model.

277

Sensor connector

Panel mount adapter

Panel mount adapter +

Front protective cover

Description

Power supply/Output connector (2 m)

Part no.

ZS-28-A ZS-28-C-1

ZS-46-B

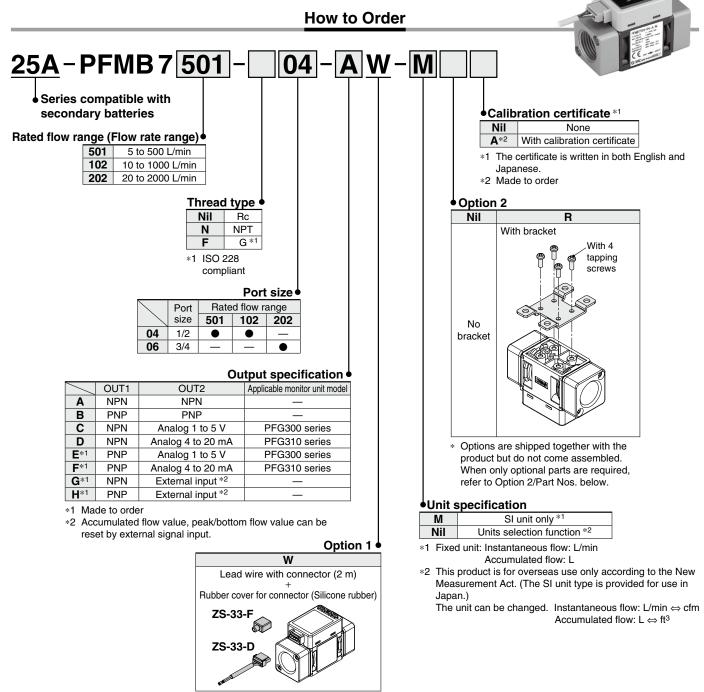
ZS-46-D

Note

1 pc.

SMC

2-Color Display(€ UK
CADigital Flow SwitchRoHS25A-PFNB7 Series



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

Option 1/Part Nos.

Part no.	Qty.	Note					
ZS-33-D	1	Lead wire: 2 m					
ZS-33-F	1	For connector					
	ZS-33-D						

Option 2/Part Nos.

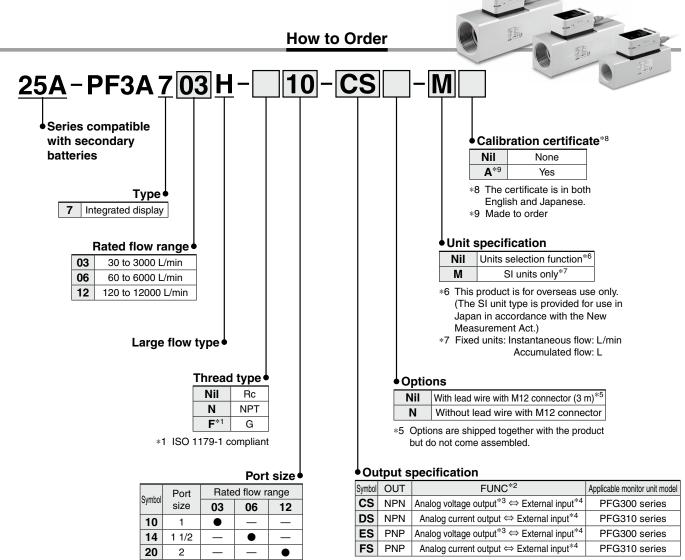
Note	Option	Part no.	Qty.	Note
wire: 2 m	Bracket (for PFMB7201)	25A-ZS-33-M	1	With 2 tapping screws (3 x 6)
connector	Panel mount adapter (for PFMB7201)	ZS-33-J	1	
	Bracket (for PFMB7501/7102)	25A-ZS-42-C	1	With 4 tapping screws (3 x 6)
	Bracket (for PFMB7202)	25A-ZS-42-D	1	With 4 tapping screws (3 x 6)

278

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

Body Ported Type

3-Color Display Digital Flow Switch C E LA 25A-PF3A7 H Series Rohs



*2 Analog output or external input can be selected by pressing the buttons. Analog output is set as default setting.

*3 1 to 5 V or 0 to 10 V can be selected by pressing the button. The default setting is 1 to 5 V.

*4 The accumulated value, peak value, and bottom value can be reset.

Option/Part No.

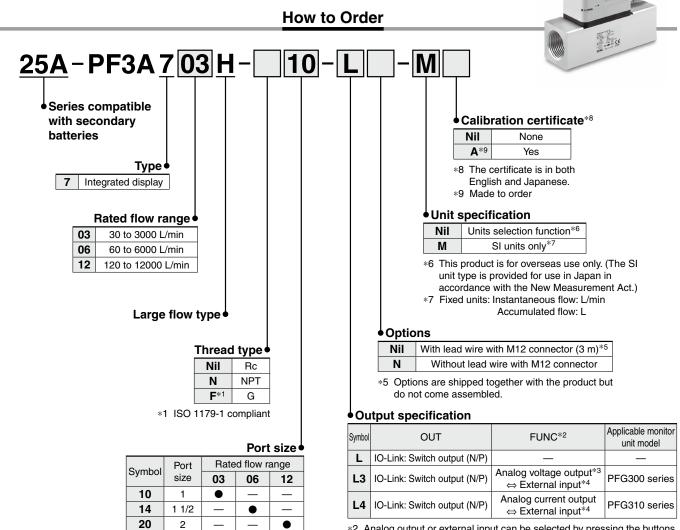
When only optional parts are required, order with the part number listed below.

Part no.	Option	Note
90-ZS-37-A-X258	Lead wire with M12 connector	Length: 3 m

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

For details, refer to the Web Catalog.

Body Ported Type ♥ IO-Link 3-Color Display Digital Flow Switch C € LK 25A-PF3A7 H-L Series RoHS



*2 Analog output or external input can be selected by pressing the buttons. Analog output is set as default setting. Output symbol "L" cannot be used as the FUNC terminal is not connected.

*3 1 to 5 V or 0 to 10 V can be selected by pressing the button. The default setting is 1 to 5 V.

*4 The accumulated value, peak value, and bottom value can be reset.

Options/Part Nos.

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

Part no.	Option	Note	
90-ZS-37-A-X258	Lead wire with M12 connector	Length: 3 m	

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

For details, refer to the Web Catalog.

Integrated Display (É ČĂ с Фи́из 3-Color Display) Digital Flow Switch for Water RoHS 25A-PF3W7-Z Series

How to Order

03

25A - PF3W 7 04 Series compatible with secondary batteries 0 2

Type 7 Integrated display

Rated flow range (Flow range)
 Symbol Rated flow range

ymbol	Rated flow range
04	0.5 to 4 L/min
20	2 to 16 L/min
40	5 to 40 L/min
11	10 to 100 L/min

B Flow adjustment valve

<u> </u>					
Sumbol	With/without flow	F	Rated flo	w range	ə
Symbol	adjustment valve	04	20	40	11
Nil	None	•			
S	Yes	•		•	_

4 Thread type

Ζ

ി

9

Nil	Rc
N	NPT
F	G*1

*1 ISO 228 compliant

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

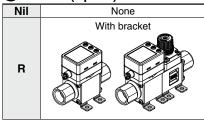
* The flow adjustment valve of this product is not suitable for applications which require constant adjustment of flow rate.

6 Output specification/Temperature sensor

Sumbol	OUT1	C	UT2		Temperature
Symbol	Flow rate	Flow rate		Temperature	sensor
Α	NPN	NPN —			
В	PNP	PNP		—	
С	NPN	Analog 1 to 5 V		—	
D	NPN	Analog 4 to 20 mA		—	None
E	PNP	Analog 1 to 5 V		—	none
F	PNP	Analog 4 to 20 mA		—	
G	NPN	External input*1		—	
Н	PNP	External input*1 —			
AT	NPN	(NPN)	→ NPN		
BT	PNP	(PNP)	⇔2	PNP	With
СТ	NPN	(Analog 1 to 5 V)	≪2	Analog 1 to 5 V	temperature
DT	NPN	(Analog 4 to 20 mA)	⇔2	Analog 4 to 20 mA	sensor
ET	PNP	(Analog 1 to 5 V)	≪2	Analog 1 to 5 V	3011301
FT	PNP	(Analog 4 to 20 mA)	⇔2	Analog 4 to 20 mA	

*1 External input: The accumulated value, peak value, and bottom value can be reset.
*2 For units with temperature sensor, only OUT2 can be set as either temperature output or flow rate output. Setting when shipped is for temperature output.

9 Bracket (Option)



Calibration certificate (Only for flow rate)

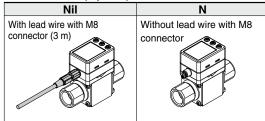
- NilNoneAWith calibration certificate
- * The certificate is written in both Japanese and English.
- Units with temperature sensor can only display the flow rate.

Symbol Port size

Sumbol					
Symbol	size	04	20	40	11
03	3/8	•		—	—
04	1/2	_			—
06	3/4	—	—		
10	1/1	_	—	—	

Rated flow range

Lead wire (Option)



Integrated display/Unit specification

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

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

* G, F, J: Made to order

Reference: 1 [L/min] ↔ 0.2642 [gal/min] 1 [gal/min] ↔ 3.785 [L/min] °F = 9/5°C + 32

Options/Part Nos.

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

Description	Part no.	Qty.	Note	
	25A-ZS-40-K	1	For PF3W704/720/504/520	With 4 tapping screws (3 x 8)
Bracket*1	25A-ZS-40-L	1	For PF3W740/540	With 4 tapping screws (3 x 8)
	25A-ZS-40-M	1	For PF3W711/511	With 4 tapping screws (4 x 10)
Lead wire with M8 connector	25A-ZS-40-A	1	Lead wire length: 3 m	

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

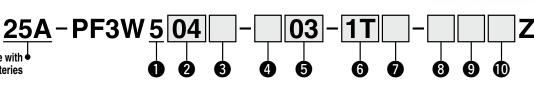




Remote Sensor Unit

3-Color Display Digital Flow Switch for Water RoHS 25А-PF3W5-Z Series

How to Order



Series compatible with secondary batteries

Type 5 Remote sensor unit

2	Rated	flow	range	(Flov	w range)	

5 to 40 L/min

10 to 100 L/min

 Symbol
 Rated flow range

 04
 0.5 to 4 L/min

 20
 2 to 16 L/min

40

11

3 Flow adjustment valve

Symbo	With/without flow	F	Rated flo	ow range	e	
	Symbol	adjustment valve	04	20	40	11
	Nil	None	•	•	•	•
	S	Yes	•			_

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

The flow adjustment valve of this product is not suitable for applications which require constant adjustment of flow rate.

5 Port size

Symbol	Port	F	Rated flo	ow range	ə
Symbol	size	04	20	40	11
03	3/8			—	—
04	1/2	_	•	•	—
06	3/4	—	—	•	
10	1/1	_	—	—	

Lead wire (Option)

Nil	With lead wire with M8 connector (3 m)
Ν	Without lead wire with M8 connector

6 Output specification/Temperature sensor

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

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

8 Remote sensor unit/Unit printed on label

<u> </u>		
Symbol	Instantaneous flow	Temperature
Nil	L/min	°C
G *1	L/min (gal/min)	°C/°F

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

C. Made to Oter Reference: 1 [L/min] ↔ 0.2642 [gal/min] 1 [gal/min] ↔ 3.785 [L/min] °F = 9/5°C + 32

Calibration certificate

(Only for now rate)			
Nil None			
Α	With calibration certificate		

* The certificate is written in both Japanese and English.

Units with temperature sensor can only display the flow rate.

9 Bracket (Option)NilNone

	None
R	With bracket

4 Thread type

*1 ISO 228 compliant

Nil

Ν

F

Rc

NPT

G*1

Options/Part Nos.

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

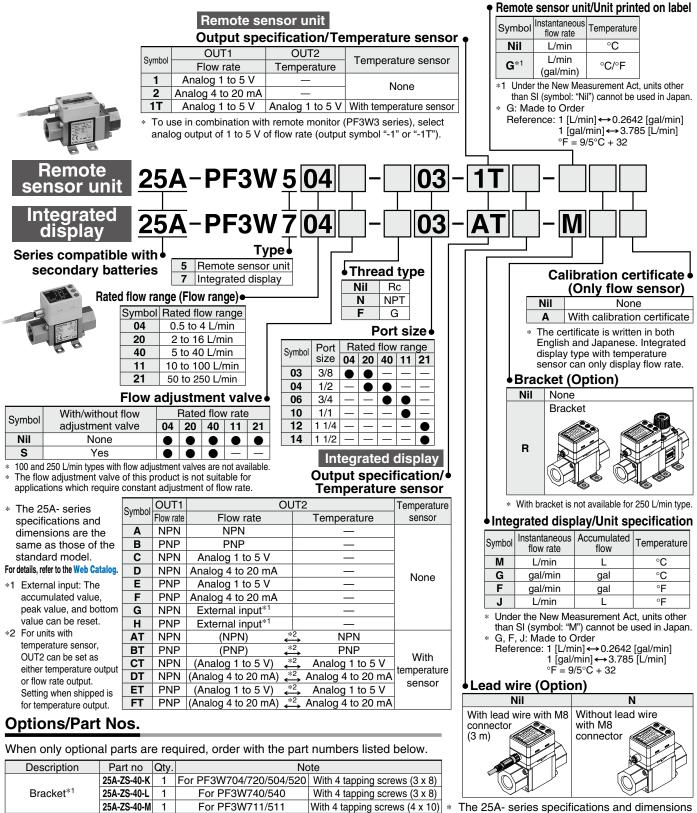
Description	Part no.	Qty.	y. Note			
	25A-ZS-40-K	1	For PF3W704/720/504/520	With 4 tapping screws (3 x 8)		
Bracket*1	25A-ZS-40-L	1	For PF3W740/540	With 4 tapping screws (3 x 8)		
	25A-ZS-40-M	1	For PF3W711/511	With 4 tapping screws (4 x 10)		
Lead wire with M8 connector	25A-ZS-40-A	1	Lead wire le	ength: 3 m		

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



3-color display Digital Flow Switch for Water 25A-PF3W Series (€ ੫K RoHS)

How to Order



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

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

1

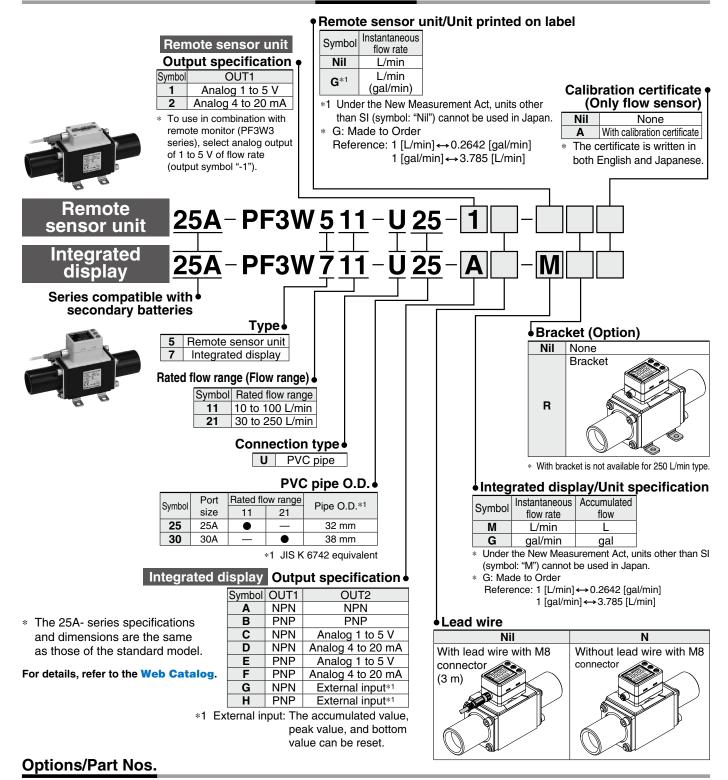
Lead wire with M8 connector 25A-ZS-40-A

SMC \$

Lead wire length (3 m)

3-color display Digital Flow Switch for PVC Piping 25A-PF3W Series (도 모두 RoHS)

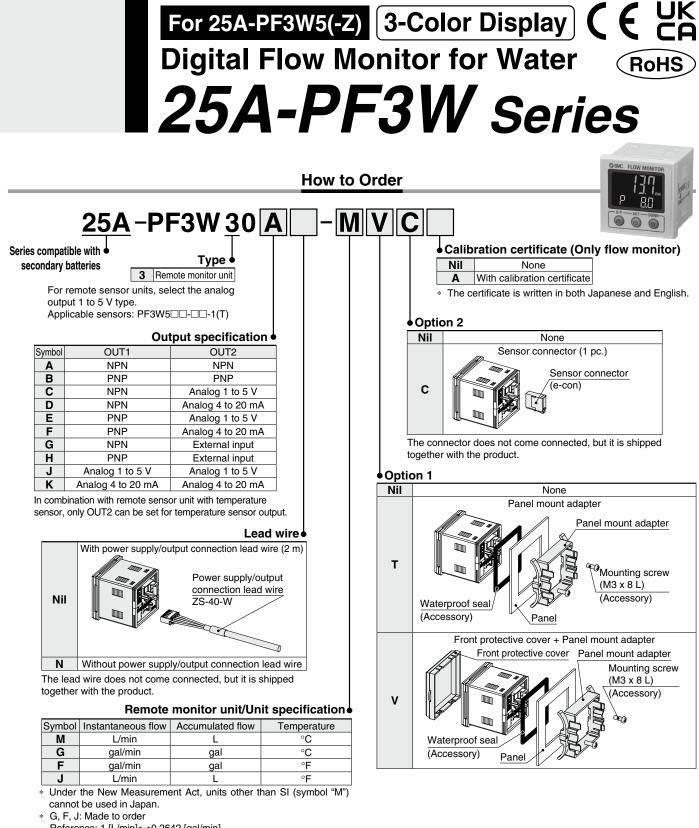
How to Order



When only optional parts are required, order with the part numbers listed below. Description Part no. Qty. Note Bracket 25A-ZS-40-M 1 For PF3W711/511 With 4 tapping screws (4 x 10) Lead wire with M8 connector 25A-ZS-40-A 1 Lead wire length (3 m)

- * The 25A- series specifications and dimensions are the same as those of the standard model.
- For details, refer to the Web Catalog. 284





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

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

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 copy destination units

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



For Water Air Oil	2-Port S	operated Solenoid \ JS				ind electrical en efer to table 3	UK ca g on the voltage ntry. For details, below. RoHS
		How to Orde	٥r		9	2	-
25A – JSX Series compatible with secondary batteries	0080		-]-[D-B 9 0		102	
Size	2 Valve type	3 Body material	8 E	lectrical entry			
Symbol Size	Symbol Valve type	Symbol Body material Stainless steel	Symbol	Electrical entry			CE/UKCA- compliant
2 20 3 30	1 N.C. 1 N.C. 2(OUT) 1 (IN)		G	Grommet*1		• • •	24 VDC 12 VDC
Seal material Symbol Seal material N NBR	Orifice diameter and Symbol Orifice diameter [mmø] Port siz	Size	GS	Grommet with PCB (With surge voltage suppressor)*2		•••	100 VAC 24 VDC 12 VDC 48 VAC 24 VAC
F FKM E EPDM	101 1.6 1/8 201 2.4 1/8 301 1/8	$\begin{array}{c ccc} \bullet & - & - \\ \hline \bullet & - & - \\ \hline - & \bullet & - \end{array}$	cs	Conduit (With surge voltage suppressor)		- • •	All voltages
6 Thread type Symbol Thread type R Rc	302 3.2 1/4 303 3/8 402 4.0 1/4 403 3/8 3/8		DS	DIN terminal (With surge voltage suppressor)		• • •	All voltages
N NPT F G	502 5.6 1/4 503 5.6 3/8 702 7.1 1/4		DZ	DIN terminal with light With surge voltage suppressor)		• • •	All voltages
Rated voltage	703 3/8	on \mathbf{I} Option	DN	DIN terminal without connector (With surge voltage suppressor)		•••	All voltages
1 100 VAC 7 2 200 VAC 8 3 120 (110) VAC B 4 220 VAC J	240 VAC Symbol Option 48 VAC Nil None 24 VAC D Oil-free 230 VAC VAC D	Symbol Option Nil None	*1 DC	M12 connector/ Without connector cable (With surge voltage suppressor)*3 C voltage only		•••	All voltages
DC Symbol Rated voltage 5 24 VDC 6 12 VDC Flow Pate Char		*1 Refer to the Web Catalog for bracket assembly part nos.	on *3 The sep sec	hough it is possible to man ly the voltages listed in the e cable for the M12 connector is parately. In addition, note that the tion of the Web Catalog is not condary battery specifications.	table are C not included, e JSX cable p	E/UKCA co so be sure to part number in th products v	ompliant. o order it n the "Option" vith

Flow Rate Characteristics

		r	r				,	,		
	Port	Orifice	Flow	rate ch	aracter	istics*	1	Max. operating		Weight*2
Size	size	diameter	A	ir		Wat	er, Oil	pressure	Model	[g]
	SIZE	[mmø]	C [dm3/(s·bar)]	b	Cv	Kv	Conversion Cv	differential [MPa]		Stainless steel body*3
10	1/8	1.6	0.36	0.58	0.08	0.07	0.08	0.9	25A-JSX11-S□101	160
10	1/0	2.4	0.62	0.45	0.15	0.13	0.15	0.4	25A-JSX11-S□201	160
	1/8	3.2	1.35	0.48	0.35	0.30	0.35	0.7	25A-JSX21-S□301	320
		3.2	1.35	0.48	0.35	0.30	0.35	0.7	25A-JSX21-S□302	320
	1/4	4.0	2.02	0.48	0.52	0.45	0.52	0.3	25A-JSX21-S□402 25A-JSX21-S□502 25A-JSX21-S□702	320
	1/4	5.6	2.62	0.43	0.73	0.63	0.73	0.2		320
20		7.1	3.15	0.44	0.88	0.76	0.88	0.1		320
		3.2	1.35	0.48	0.35	0.30	0.35	0.7	25A-JSX21-S⊟303	320
	3/8	4.0	2.02	0.48	0.52	0.45	0.52	0.3	25A-JSX21-S□403	320
	3/0	5.6	2.62	0.43	0.73	0.63	0.73	0.2	25A-JSX21-S⊟503	320
		7.1	3.15	0.44	0.88	0.76	0.88	0.1	25A-JSX21-S□703	320
		4.0	2.02	0.48	0.52	0.45	0.52	1.0	25A-JSX31-S⊟402	450
	1/4	5.6	2.62	0.43	0.73	0.63	0.73	0.5	25A-JSX31-S⊟502	450
30		7.1	3.15	0.44	0.88	0.76	0.88	0.2	25A-JSX31-S□702	450
30		4.0	2.02	0.48	0.52	0.45	0.52	1.0	25A-JSX31-S□403	450
	3/8	5.6	2.62	0.43	0.73	0.63	0.73	0.5	25A-JSX31-S□503	450
		7.1	3.15	0.44	0.88	0.76	0.88	0.2	25A-JSX31-S□703	450

*1 The flow rate characteristics of this product vary.

*2 The values were calculated based on the combination of an Rc or NPT thread and a grommet. Add 20 g for the grommet type with PCB, 70 g for the conduit type, 50 g for the DIN terminal type, and 15 g for the M12 connector type. *3 Add 30 g for the G thread (port size 3/8) type.



Applicable Fluid Checklist

Applicable	Seal material					
fluid	NBR	FKM	EPDM			
Air			•			
Water	•	•	•			
Oil	—		—			

* The list shows the compatibility between general fluids and the seal materials. Consider the operating environment and application sufficiently before selecting the seal material. Fluid and component compatibility should be checked before use. If something is not clear, please contact SMC.

For Air	2-Po	rt So	erated lenoid \ JS	X	^{ve} Serie		and electri	ending on the voltage cal entry. For details, le 9 below.
25A – JS> • Series compatible with secondary batteries • Size	(21-A 023 Valve type	N 302 9 6	R - 5 C 6 0 C		D – B 9 0 Electrical entry			
Symbol Size	Symbol Valve typ		Symbol Body material	Symbol	Electrical entry	/	Size	
2 20 3 30	1 N.C.	2(OUT) 1(IN)	A Aluminum	G	Grommet*1		20 ; •	30 compliant 24 VDC 12 VDC
Seal material Symbol Seal material N NBR F FKM	Symbol Orifice diameter [mmø]	er and port Port size	size Size 20 30 Aluminum body Aluminum body	GS	Grommet with PCB (With surge voltage suppressor) ^{*2}		•	100 VAC 24 VDC 12 VDC 48 VAC 24 VAC
6 Thread type Symbol Thread type	301 3 302 3 402 4 403 4	1/8 1/4 1/4 3/8		cs	Conduit (With surge voltage suppressor)		•	All voltages
R Rc N NPT F G	501 502 702 703 7	1/8 1/4 1/4 3/8	• • • • • • • • •	DS	DIN terminal (With surge voltage suppressor)		•	 All voltages
Rated voltage		DC		DZ	DIN terminal with light (With surge voltage suppressor)		•	All voltages
Symbol Rated voltage 1 100 VAC 2 200 VAC 3 120 (110) VAC	Symbol Rated voltage 7 240 VAC 8 48 VAC B 24 VAC	5 24	d voltage VDC VDC	DN	DIN terminal without connector (With surge voltage suppressor)		•	 All voltages
4 220 VAC 9 Oil-free option	J 230 VAC		_	WN	M12 connector/Without connector cable (With surge voltage suppressor) ^{*3}		•	 All voltages
SymbolOptionNilNoneDOil-free	*1 Bracket ass For size 20:	Option None /ith bracket*1 embly part nos. 90-VX021N-12 90-VX022N-12		*2 Ali on *3 Th ore nu	C voltage only though it is possible to ma ly the voltages listed in the le cable for the M12 conne der it separately. In addit Imber in the "Option" se mpatible with products with	table are CE ector is not tion, note th ction of the	UKCA include at the Web	compliant. d, so be sure to JSX cable part Catalog is not

Flow Rate Characteristics

Aluminum Body Type

Size	Port size	Orifice diameter	Flow rate ch	Flow rate characteristics ^{*1} Max. operating pressure		Model	Weight*2	
Size	FOITSIZE	[mmø]	C [dm ³ /(s·bar)]	b	Cv	differential [MPa]	Widder	[g]
20	1/8. 1/4	3	1.41	0.54	0.35	0.7	25A-JSX21-A□30□	240
20	1/0, 1/4	5	1.66	0.54	0.52	0.2	25A-JSX21-A□50□	240
30	1/4. 3/8	4	1.57	0.59	0.52	1.0	25A-JSX31-A□40□	400
30	1/4, 3/0	7	3.02	0.53	0.88	0.2	25A-JSX31-A□70□	400

*1 The flow rate characteristics of this product vary.
 *2 Indicates case of grommet type Add 20 g for the grommet type with PCB, 70 g for the conduit type, 50 g for the DIN terminal type, and 15 g for the M12 connector type.

For Water Air Oil	High Flow/ Power Saving Type Direct Operated 2-Po 25A-JSX			entry.	CE LA sepending on the voltage and electrical For details, refer to table 0 below. Prices
The dimensions are the same series model. Refer to the Well 25A – JSX Series compatible with secondary batteries		er GS Ø			RoHS
Size Symbol Size 1 10 2 20 3 30	Symbol Valve type 1 N.C. 1 IIIN	8 Symbol GS	Electrical entry Electrical entry Grommet with PCB (With surge voltage suppressor)		Size CE/UKCA- 0 20 30 compliant • • • • •
Seal material Symbol Seal material N NBR F FKM E EPDM	Symbol Orifice diameter and port size Symbol Orifice diameter [mmø] Port size Size 201 2.4 1/8 - - 402 4.0 3/8 - - 702 7.1 1/4 - • -	CS DS	Conduit (With surge voltage suppressor) DIN terminal (With surge voltage suppressor)		- • • • • • • • • • • • • • • • • • • •
Figure 1 Symbol Thread type R Rc N NPT F G	Symbol Rated voltage 5 24 VDC 6 12 VDC	DZ DN	DIN terminal with light (With surge voltage suppressor) DIN terminal without connector (With surge voltage suppressor)		
Oil-free optionSymbolOptionNilNoneDOil-free	Symbol Option Nil None B With bracket*1 (Stainless steel) *1 Refer to the Web Catalog for bracket assembly part nos	oi ni co	M12 connector/Without connector cable* ¹ (With surge voltage suppressor) he cable for the M12 conne rder it separately. In additio umber in the "Option" sectio ompatible with products wit prommet type is not availab	n, note that the on of the Web (h secondary ba	JSX cable part Catalog is not

Refer to the Web Catalog for bracket assembly part nos.

Flow Rate Characteristics

	D .	Orifice	F	low rate	e chara	cteristi	cs*1	Max. operating		Weight*2
Size	Port size	diameter		Air		Wa	Water, Oil pressure Model		[g]	
	5120	[mmø]	С	b	Cv	Kv	Conversion Cv	differential [MPa]		Stainless steel body*3
10	1/8	2.4	0.62	0.45	0.15	0.13	0.15	0.9	25A-JSX11U-S□201	180
	1/4	4.0	2.02	0.48	0.52	0.45	0.52	1.0	25A-JSX21U-S□402	340
20	1/4	7.1	3.15	0.44	0.88	0.76	0.88	0.4	25A-JSX21U-S⊟702	340
20	3/8	4.0	2.02	0.48	0.52	0.45	0.52	1.0	25A-JSX21U-S⊟403	340
	3/0	7.1	3.15	0.44	0.88	0.76	0.88	0.4	25A-JSX21U-S⊟703	340
30	1/4	7.1	3.15	0.44	0.88	0.76	0.88	0.8	25A-JSX31U-S□702	470
30	3/8	7.1	3.15	0.44	0.88	0.76	0.88	0.8	25A-JSX31U-S□703	470

*1 The flow rate characteristics of this product vary.

*2 The values were calculated based on the combination of an Rc or NPT thread and a grommet with PCB. Add 50 g for the conduit type, 30 g for the DIN terminal type, and -5 g for the M12 connector type. *3 Add 30 g for the G thread (port size 3/8) type.

Applicable Fluid Checklist

* A grommet type is not available.

Applicable	Seal material						
fluid	NBR	FKM	EPDM				
Air	•	•	•				
Water			•				
Oil	_	•	_				

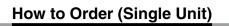
^{*} The list shows the compatibility between general fluids and the seal materials. Consider the operating environment and application suffi-ciently before selecting the seal material. Fluid and component compatibility should be checked before use. If something is not clear, please contact SMC.

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



62

CEUK RoHS



				th∙		es compa ondary ba		
			0 For					
		Orifice	rial/Port size/Orifice Port size	y mate Body material	◆ Bod Symbol	Valve	Valve 1	Size
	-	diameter 2		material	A	type		
Vol		3	1/8		B			
Symbol		5	., •	41	C			
Jymbol		2		Aluminum	D			
A		3	1/4		E	Cingle		
	-	5			F	Single unit	Size 1	1
	-	2	ø6 One-touch fitting		H	N.C.		
	-	5	00 One-touch hung		K			
В	-	2		Resin	L			
С		3	ø8 One-touch fitting		М			
D		5			Ν			
Е]	4	1/4		Α			
F	-	7	., .	Aluminum	B			
G	-	4 7	3/8		DE	Single		
н	-	4			H	unit N.C.	Size 2	2
J		7	ø8 One-touch fitting	Desin	J	N.C.		
κ		4	ø10 One-touch fitting	Resin	L			
L		7			M			
М		5			Α			
Ν	-	8	1/4		B C			
Р	-	5		Aluminum	D			
Q		8	3/8	/ uurriniurri	E			
R]	10			F	Single		
s	_	10	1/2		G	unit	Size 3	3
<u>з</u> т	-	5	and One to the full		н	N.C.		
	-	8 10	ø10 One-touch fitting		J K			
U	1	5		Resin				
V	1	8	ø12 One-touch fitting		M			
W	1	10			Ν			

	24 VAC	Low concentration ozone resistant (Seal material: FKM)
	48 VAC	Seal material: EPDM
Special voltage	220 VAC	Oil-free
	240 VAC	G thread
	12 VDC	NPT thread
DIN terminal with lig	ht	With bracket (Aluminum body only)
Conduit terminal with	n light	Mounting holes on the bottom side of the body (Aluminum body only)
Without DIN connec	tor	Special electrical entry direction
* Lloing the oil free encoifice	tion in a low dow point anvironr	nont may regult in the reduced convice life of the product

Using the oil-free specification in a low dew point environment may result in the reduced service life of the product.
 Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

SMC



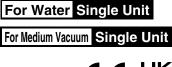
Common SpecificationsValve typeN.C.Seal materialNBR

NBR
Class B
Rc

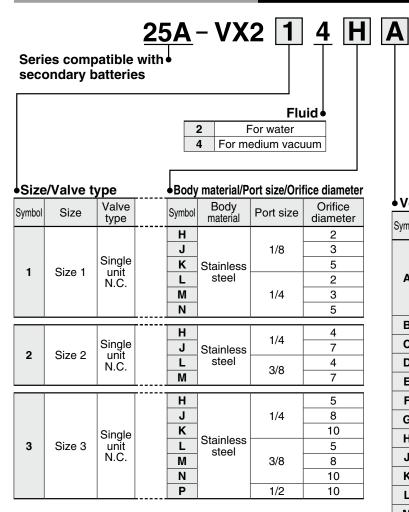
Voltage/Electrical entry

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	< <u></u>
Y	24 VDC	Flat terminal
Z	Other v	oltages and electrical options

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



How to Order (Single Unit)



Common Specifications

Valve type	N.C.
Seal material	NBR (For water)
Searmatenar	FKM (For medium vacuum)
Coil insulation type	Class B
Thread type	Rc

Voltage/Electrical entry

Symbol	Voltage	Electrical entry					
Α	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					
J	110 VAC	\suppressor/					
К	200 VAC						
L	230 VAC						
М	24 VDC	Conduit terminal					
Ν	100 VAC	With surge					
Ρ	110 VAC	\suppressor //					
Q	200 VAC						
R	230 VAC						
S	24 VDC	Conduit					
Т	100 VAC	With surge					
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.

the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

Using the oil-free specification in a low dew point environment may result in

For other special options, refer to the standard products.

Applicable to deionized water (Seal material: FKM)

Mounting holes on the bottom side of the body

Special electrical entry direction

Seal material: EPDM

Oil-free

G thread

NPT thread

With bracket

24 VAC

48 VAC 220 VAC

240 VAC

12 VDC

Special voltage

DIN terminal with light

Without DIN connector

Conduit terminal with light



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

How to Order 25A - VXD2 3 0 A A Series compatible with • secondary batteries Fluid • 0 For Air

• Size—Valve type			Body material/Port size/Orifice diameter				
Symbol	Size	Valve type		Symbol	Body material	Port size	Orifice diameter
3	8A	N.C.		Α		1/4	
	10A			В	Aluminum	3/8	10
A	15A	N.O.		С		1/2]
4	10A	N.C.		J	Stainless	3/8	15
В	15A	N.O.		Κ	steel	1/2	15
						1	
5	20A	N.C.		м	Stainless	3/4	20
С	204	N.O.		111	steel	5/4	20
6	25A	N.C.		Р	Stainless	1	25
D	23A	N.O.		1	steel		25

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

same as mose or n	le 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						
Low concentration ozone resistant						
(Seal material: FKM)						
Seal material: EPDM						
Oil-free						
G thread						
NPT thread						
With bracket						
Special electrical entry direction						

 Using the oil-free specification in a low dew point environment may result in the reduced service life of the product.
 Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.



 Common Specifications

 Seal material
 NBR

 Coil insulation type
 Class B

 Thread type
 Rc

Voltage/Electrical entry

Symbol	Voltage	Electrical entry
Α	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
κ	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	a
S	24 VDC	Conduit
Т	100 VAC	With surge voltage
U	110 VAC	\suppressor
v	200 VAC	
W	230 VAC	N.
Y	24 VDC	Flat terminal
Z		Other special options

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

For details, refer to the Web Catalog.



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

How to Order 25A VXD2 2 D A Series compatible with secondary batteries Image: Colspan="2">Fluid Series compatible with secondary batteries Fluid 2 For Water Ize—Valve type Body material/Port size/Orifice diameter Valve Ize—Valve type Symbol Body Port size Orifice diameter Ize Valve Symbol Body Port size Orifice diameter Symbol Ize N.C. D 1/4 Image: Secondary secondary Symbol

Size—Valve type			• Body material/Port size/Orifice diameter				
Symbol	Size	Valve type		Symbol	Body material	Port size	Orifice diameter
3	8A	N.C.		D	Otalistaaa	1/4	
	10A			E	Stainless steel	3/8	10
A	15A	N.O.		F		1/2	
4	10A	N.C.		J	Stainless	3/8	15
В	15A	N.O.		K	steel	1/2	15
		·		,			
5	20A	N.C.		м	Stainless	3/4	20
С	20A	N.O.		IVI	steel	3/4	20
		· · · · · · · · · · · · · · · · · · ·					1
6	25A	N.C.		Р	Stainless	1	25
D	23A	N.O.		"	steel	I	20

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

same as mose or n	le stanuaru mouer					
	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 deionized water						
(Seal material: FKN	1)					
Seal material: EPDM						
Oil-free						
G thread						
NPT thread						
With bracket						
Special electrical entry direction						

 Using the oil-free specification in a low dew point environment may result in the reduced service life of the product.
 Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

 Common Specifications

 Seal material
 NBR

 Coil insulation type
 Class B

 Thread type
 Rc

Voltage/Electrical entry

A24 VDCGrommetB100 VACGrommetC110 VACWith surge voltage suppressorImage: Constant of the suppressorD200 VACDin terminalF24 VDCDin terminalH100 VACUith surge voltage suppressorImage: Constant of the suppressorJ110 VACDin terminalH100 VACUith surge voltage suppressorImage: Constant of the suppressorJ110 VACConduit terminalH24 VDCConduit terminalM24 VDCConduit terminalN100 VACWith surge voltage suppressorP110 VACConduit terminalR230 VACConduit terminalS24 VDCConduitT100 VAC(With surge (with surge)T100 VACConduit
C 110 VAC D 200 VAC E 230 VAC F 24 VDC G 24 VDC H 100 VAC J 110 VAC L 230 VAC K 200 VAC L 230 VAC M 24 VDC M 24 VDC M 24 VDC M 24 VDC N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit terminal With surge voltage suppressor voltage suppressor Voltage suppressor Voltage suppressor Voltage suppressor Vith surge voltage suppressor Voltage suppressor Vitage suppressor Vitage suppressor Vitage suppressor Vitage suppressor
C 110 VAC voltage D 200 VAC suppressor E 230 VAC Suppressor F 24 VDC DIN terminal H 100 VAC With surge voltage suppressor J 110 VAC With surge voltage suppressor J 110 VAC Conduit terminal K 200 VAC Conduit terminal N 100 VAC With surge voltage suppressor P 110 VAC Conduit terminal N 100 VAC Conduit terminal Q 200 VAC Conduit terminal R 230 VAC VAC S 24 VDC Conduit With surge VAC
E 230 VAC F 24 VDC G 24 VDC H 100 VAC J 110 VAC K 200 VAC L 230 VAC M 24 VDC K 200 VAC L 230 VAC M 24 VDC N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit Conduit With surge voltage suppressor Voltage S 24 VDC Conduit With surge voltage S 24 VDC Conduit With surge voltage S 24 VDC Conduit With surge voltage
F 24 VDC G 24 VDC H 100 VAC J 110 VAC K 200 VAC L 230 VAC M 24 VDC N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit terminal With surge voltage suppressor voltage suppressor Voltage suppressor
G 24 VDC H 100 VAC J 110 VAC K 200 VAC L 230 VAC M 24 VDC N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit terminal With surge voltage suppressor S 24 VDC Conduit With surge voltage
H 100 VAC J 110 VAC K 200 VAC L 230 VAC M 24 VDC N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit terminal With surge voltage suppressor S 24 VDC Conduit With surge voltage
H 100 VAC voltage J 110 VAC suppressor K 200 VAC voltage L 230 VAC voltage M 24 VDC Conduit terminal N 100 VAC With surge voltage suppressor P 110 VAC Conduit terminal Q 200 VAC Voltage R 230 VAC VAC S 24 VDC Conduit With surge Voltage
J 110 VAC suppressor K 200 VAC Image: Conduit terminal with surge voltage suppressor M 24 VDC Conduit terminal with surge voltage suppressor P 110 VAC Image: Conduit terminal with surge voltage suppressor Q 200 VAC Conduit terminal with surge voltage suppressor S 24 VDC Conduit with surge voltage suppressor S 24 VDC Conduit with surge voltage suppressor
L 230 VAC M 24 VDC N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit terminal With surge voltage suppressor Conduit terminal With surge voltage suppressor Conduit terminal With surge voltage suppressor Conduit terminal With surge voltage suppressor Conduit terminal With surge voltage suppressor Conduit terminal With surge voltage S 24 VDC Conduit terminal With surge voltage S 24 VDC Conduit terminal With surge voltage S 24 VDC Conduit terminal With surge voltage S 24 VDC Conduit terminal Vith surge voltage S 24 VDC Conduit With surge Vith surge S 24 VDC Conduit With surge Vith surge
M 24 VDC N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit terminal With surge voltage suppressor Voltage S 24 VDC Conduit With surge voltage Voltage S 24 VDC Conduit With surge voltage
N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit With surge voltage suppressor
N 100 VAC P 110 VAC Q 200 VAC R 230 VAC S 24 VDC Conduit With surge
Q 200 VAC R 230 VAC S 24 VDC Conduit With surge
R 230 VAC S 24 VDC Conduit (With surge)
S 24 VDC Conduit /With surge
T 100 VAC
I 100 VAC (voltage
U 110 VAC \suppressor
V 200 VAC
W 230 VAC
Y 24 VDC
Z Other voltages and electrical option



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 Series compatible with secondary batteries Fluid 0 For Air Size/Valve type Body material/Port size/Orifice diameter Valve Body Orifice Symbol Body size Port size Symbo material diameter type 3 N.C. Α 1/4 10A 10 Aluminum Α N.O. В 3/8 4 N.C. Stainless 15A G 1/2 15 steel R N.O. 5 N.C. Stainless 20A J 3/4 20 С N.O steel 6 N.C. Stainless 25A L 1 25

steel

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

	ne standard model				
	24 VAC				
Special voltage	48 VAC				
	220 VAC				
	240 VAC				
	12 VDC				
DIN terminal with li	ght				
Conduit terminal with light					
Without DIN connector					
Low concentration ozone resistant					
(Seal material: FKM)					
Seal material: EPDM					
Oil-free					
G thread					
NPT thread					
With bracket (Stand	dard for resin body)				
Special electrical entry direction					
	anadification in a law				

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Voltage/Electrical entry Symbo Voltage Electrical entry Grommet 24 VDC Α 100 VAC Grommet в With surge С 110 VAC voltage suppressor D 200 VAC Е 230 VAC 24 VDC F G 24 VDC **DIN** terminal With surge н 100 VAC voltage suppressor J 110 VAC κ 200 VAC L 230 VAC 24 VDC Conduit terminal М With surge Ν 100 VAC voltage suppressor Ρ 110 VAC 200 VAC Q R 230 VAC S 24 VDC Conduit With surge Т 100 VAC voltage suppressor U 110 VAC ۷ 200 VAC w 230 VAC Flat terminal Υ 24 VDC Ζ Other voltages

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

For details, refer to the Web Catalog.



D

N.O.

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

Symbo

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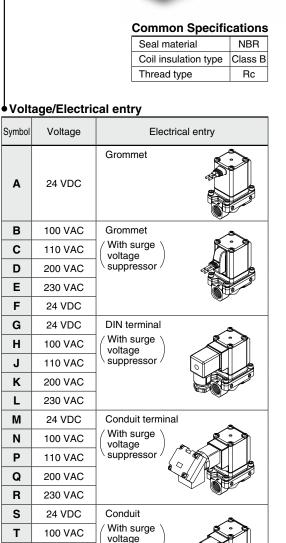
Ζ

How to Order (Single Unit) 25A - VXZ2 3 2 C A Series compatible with secondary batteries Fluid For Water 2 Size/Valve type Body material/Port size/Orifice diameter Valve type Symbol Body material Port size Orifice diameter Body size Symbol 3 N.C. С 1/4 Stainless 10A 10 Α N.O. D steel 3/8 N.C. 4 Stainless G 1/2 15A 15 steel N.O. R 5 N.C. Stainless 20A J 3/4 20 С N.O. steel N.C. 6 Stainless 25A L 1 25 steel N.O. D

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

	le otaliaala moaol	
	24 VAC	
	48 VAC	
Special voltage	220 VAC	
	240 VAC	
	12 VDC	
DIN terminal with lig	ght	
Conduit terminal with light		
Without DIN conne	Without DIN connector	
Applicable to deionized water		
(Seal material: FKM)		
Seal material: EPDM		
Oil-free		
G thread		
NPT thread		
With bracket		
Special electrical entry direction		

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.



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

110 VAC

200 VAC

230 VAC

24 VDC

For details, refer to the Web Catalog.

suppressor

Flat terminal

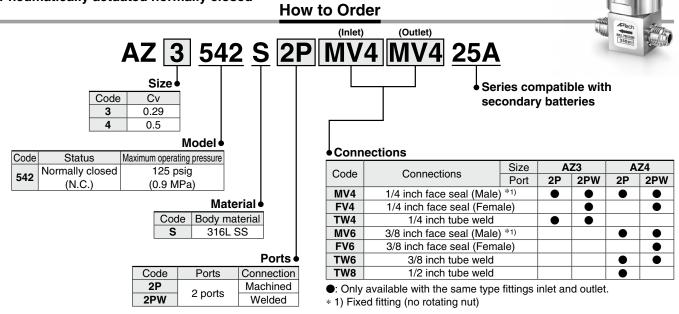
Other voltages



294

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

Suitable for UHP gas supply line
Body material: 316L SS
Pneumatically actuated normally closed



Specifications

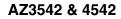
Operating Parameters	AZ3542□25A	AZ4542□25A	
Weight	0.26 kg *1)		

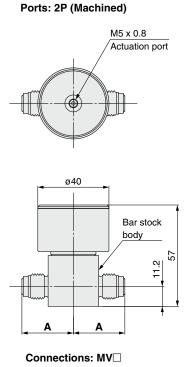
*1) Weight for AZ3542S2PMV4MV4 including individual boxed weight. It may vary depending on connections or options. * Some parts have sizes and shapes that are different from the standard products.

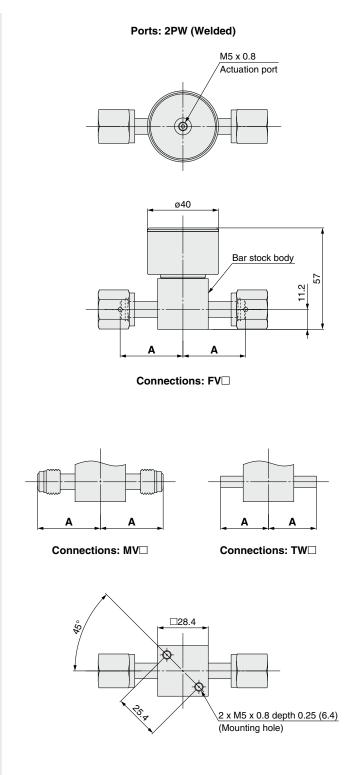
For details, refer to the Web Catalog.

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

Dimensions

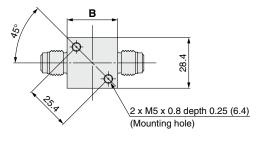






Ports	Connections	Α	
	MV4	1 20 (25 2)	
	FV4	1.39 (35.3)	
2PW	TW4	1.06 (26.9)	
(Welded)	MV6	1.02 (40.0)	
	FV6	1.93 (49.0)	
	TW6	1.325 (33.7)	

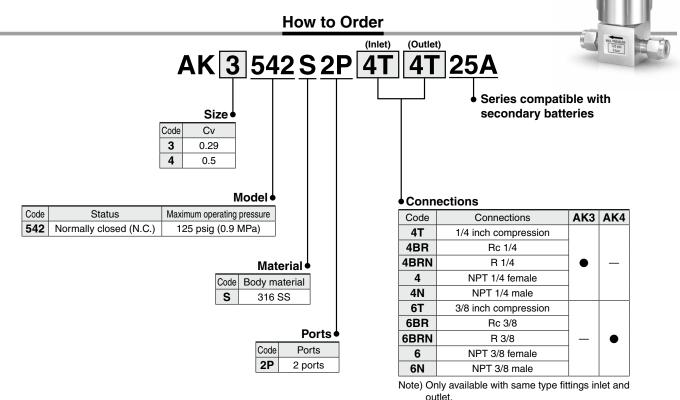
Connections: TW



Ports	Connections	Α	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)

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

- Body material: 316 SS
- Normally closed



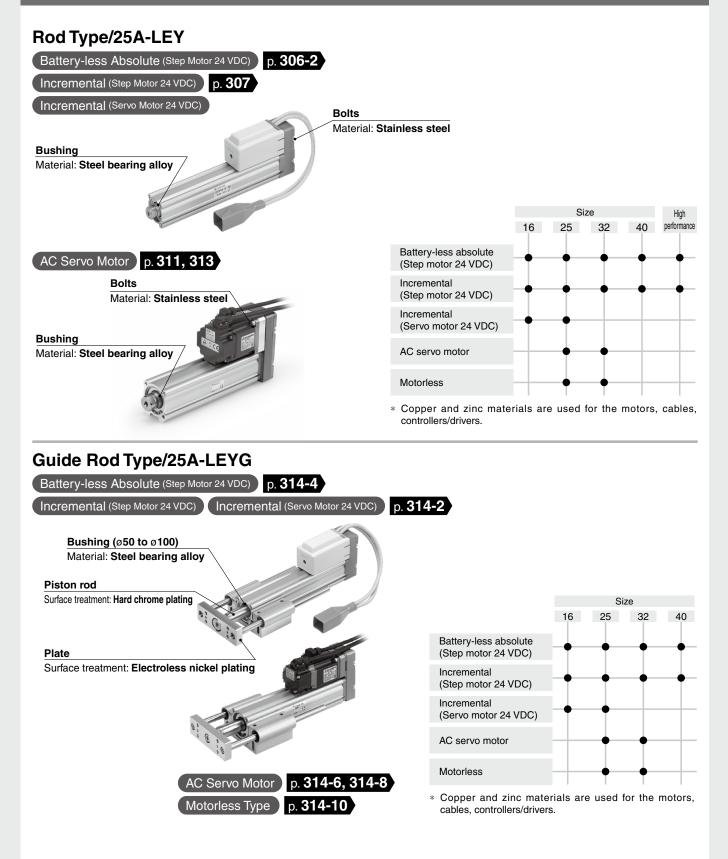
* Specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Environment Secondary Battery Compatible

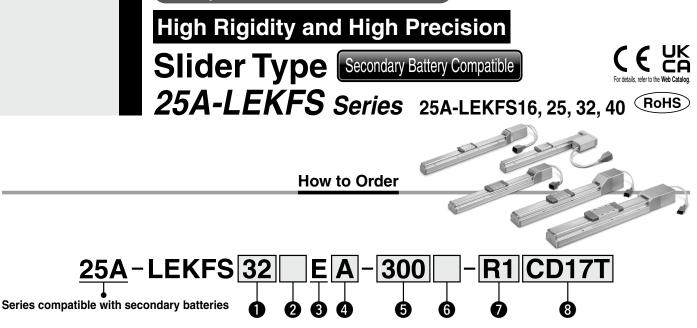
Copper (Cu) and zinc (Zn) free*1 *1 Excludes motors, cables, controllers/drivers Compatible with dew points as low as -70°C Uses grease compatible with low dew points High Rigidity and High Precision Slider Type 25A-LEKFS Battery-less Absolute (Step Motor 24 VDC) p. 298-3 Bolts Material: Stainless steel Size Hiah 16 25 32 40 performance Battery-less absolute (Step motor 24 VDC) AC servo motor Motorless AC Servo Motor p. 298-7, 298-8 Copper and zinc materials are used for the motors, cables, Motorless Type p. 298-9 controllers/drivers, and auto switch magnets. **Slider Type Ball Screw Drive/25A-LEFS** Battery-less Absolute (Step Motor 24 VDC) p. 298-10 Incremental (Step Motor 24 VDC) p. **299** Size High 16 25 32 40 performance Bolts Material: Stainless steel Battery-less absolute (Step motor 24 VDC) Incremental (Step motor 24 VDC) Incremental (Servo motor 24 VDC) AC servo motor Motorless AC Servo Motor p. 303, 304 Copper and zinc materials are used for the motors, cables, * Motorless Type p. 304-1 controllers/drivers, and auto switch magnets. **High Rigidity Slider Type Ball Screw Drive/25A-LEJS** AC Servo Motor p. 305, 306 Motorless Type p. 306-1 Size 40 63 AC servo motor . Bolts Motorless Material: Stainless steel * Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.

Environment Secondary Battery Compatible



SMC

Battery-less Absolute (Step Motor 24 VDC)



1 Size	2 Motor mounting	В Мо	tor type	4 Lea	4 Lead [mm]							
16	position	_	Battery-less absolute	Symbol	25A-LEKFS16	25A-LEKFS25	25A-LEKFS32	25A-LEKFS40				
25	Nil In-line	E	(Step motor 24 VDC)	Н	—	20	24	30				
32	R Right side parallel		(Α	10	12	16	20				
40	L Left side parallel			В	5	6	8	10				

5 Stroke^{*1}

Size	Stroke																
Size	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
16											—	—	—	-	-	—	—
25														—		—	—
32																—	—
40	—	—															

6 Motor option

Nil	Without option
В	With lock

Actuator cable type/length

Robotic	cable	[m]				
Nil	None	R8	8*2 10*2			
R1	1.5	RA	10* ²			
R3	3	RB	15* ²			
R5	5	RC	20* ²			

Solid state auto switches should be ordered separately. Click here for auto switch details.

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

Replacement Parts/Grease Pack

•••••••••••••••••••••••••••••••••••••••	
Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

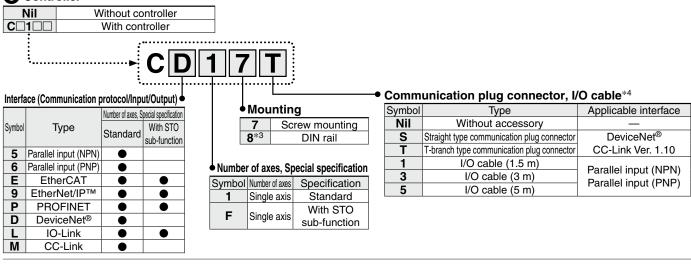


- Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.
- * The 25A- series specifications and dimensions are the same as those of the standard model.

High Rigidity and High Precision Slider Type 25A-LEKFS Series

Battery-less Absolute (Step Motor 24 VDC) Secondary Battery Compatible

8 Controller



*1 Please contact SMC for non-standard strokes as they are produced as special orders.

*2 Produced upon receipt of order

*3 The DIN rail is not included. It must be ordered separately.

≜Caution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEKFS series and the controller JXC series.

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

[Precautions relating to differences in controller versions]

When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the **Web Catalog**.

[UL-certified products]

The JXC series controllers used in combination with electric actuators are UL certified.

Trademark

EtherNet/IP[®] is a registered trademark of ODVA, Inc. DeviceNet[®] is a registered trademark of ODVA, Inc.

EtherCAT[®] is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

	0	giotece inaccinant and patentee teembology, neerood by beention reacon and r, domainy.										
	Step data input type	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet [®] direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type	
Туре												
Series	JXC51 JXC61	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1	
Features	Parallel I/O	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet [®] direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input	
Compatible motor				Bat	tery-less ab:	solute (Step	motor 24 VI	DC)				
Max. number of step data						64 points						
Power supply voltage						24 VDC						



*4 Select "Nil" for anything other than DeviceNet[®], CC-Link, or parallel input. Select "Nil," "S," or "T" for DeviceNet[®] or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

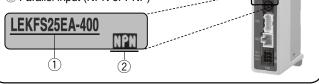
The actuator and controller are sold as a package.

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

<Check the following before use.>

① Check the actuator label for the model number (after "25A-This number should match that of the controller/driver.

2 Parallel input (NPN or PNP)



Refer to the Operation Manual for using the products.
 Please download it via our website: https://www.smcworld.com

High Performance



High Rigidity and High Precision Slider Type Secondary Battery Compatible **25A-LEKFS 32**, 40

200

5

6

How to Order

GIB

25A-LEKFS 25

Series compatible with secondary batteries

1 C5H73 3 For details

For details on controllers, refer to the next page.

2 Motor mounting position								
Nil	In-line							
R	Right side parallel							
L	Left side parallel							

3 Motor type

Cumphiel	Turne		Compatible		
Symbol	Туре	25A-LEKFS25	25A-LEKFS25 25A-LEKFS32 25A-LEKFS40		controllers
G	High performance (Battery-less absolute)	•	•	•	JXC5H JXC6H JXCEH JXC9H JXCPH

4 Lead [mm]

Symbol	25A-LEKFS25	25A-LEKFS32	25A-LEKFS40
Н	20	24	30
Α	12	16	20
В	6	8	10

Actuator cable type/length

Robotic	cable	[m]	
Nil	None	R8	8 ^{*2}
R1	1.5	RA	10 ^{*2}
R3	3	RB	15 ^{*2}
R5	5	RC	20 ^{*2}

Applicable Stroke Table

Size									Stroke								
Size	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
25		•	•								•	•		_	—	_	—
32																	—
40	—	—															

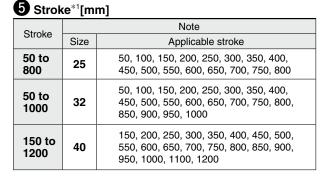
Solid state auto switches should be ordered separately. Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

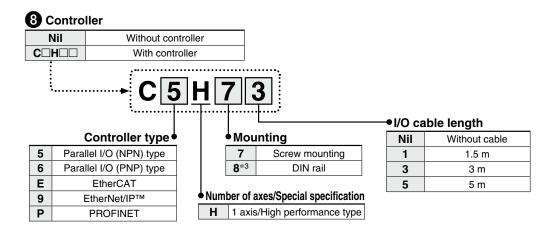


6 Motor option

Nil	Without option
В	With lock

- Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.
- The 25A- series specifications and dimensions are the same as those of the standard model.





*1 Please contact SMC for non-standard strokes as they are produced as special orders.

*2 Produced upon receipt of order

*3 The DIN rail is not included. It must be ordered separately.

≜Caution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEF series and the controller JXC series.

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

Trademark

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT[®] is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

The actuator and controller are sold as a package. Confirm that the combination of the controller and actuator is correct. Check the following before use.> *1 Check the actuator label for the model number (after "25A-"). This number should match that of the controller/driver. LEKFS25GA-400 *1

Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type
Туре				
Series	JXC5H JXC6H	JXCEH	JXC9H	ЈХСРН
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input
Compatible motor		Step moto	or 24 VDC	
Max. number of step data		64 p	oints	
Power supply voltage		24 \	/DC	



Replacement Parts/Grease Pack

Applied portion	Order no.					
	Order no.					
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)					



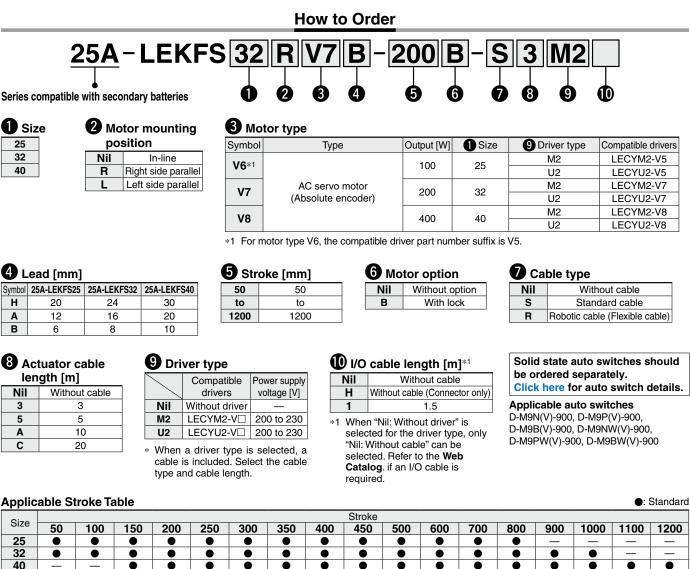
* Copper and zinc materials are used for the motors,

cables, controllers/drivers, and auto switch magnets. * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.



LECS□ Series ▶p. 298-5



SMC

Please contact SMC for non-standard strokes as they are produced as special orders.

Compatible Drivers

Driver type	MECHATROLINK-II type	MECHATROLINK-II 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)

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

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

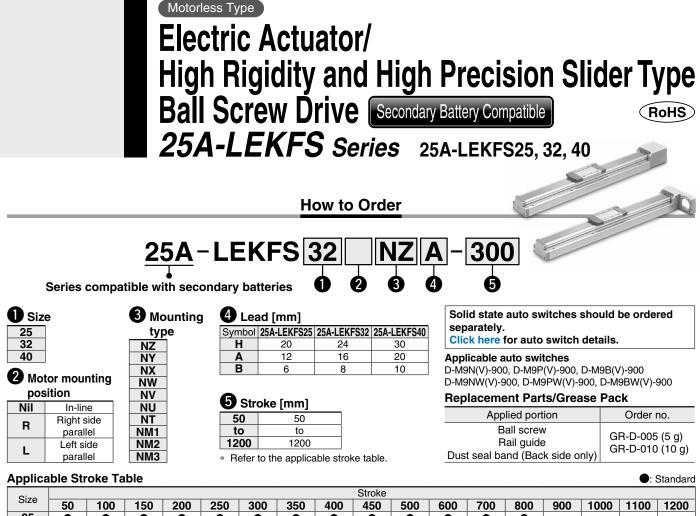
* The 25A- series specifications and dimensions are the same as those of the standard model.

> For details, refer to the Web Catalog. 298-8 ®

Symbol	25A-LEKFS25	25A-LEKFS32	25A-LEKFS40
Н	20	24	30
Α	12	16	20
В	6	8	10

8 Actuator cable	è
length [m]	

lengtn [m]									
Nil	Without cable								
3	3								
5	5								
Α	10								
С	20								



Size	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
25														—	—	—	_
32		\bullet														—	_
40	—	—															

Compatible Motors and Mounting Types^{*5}

Applicable motor model			Size/Mounting type													
Manufacturer	Series			2	5							32/40				
Manufacturer	Series	NZ	NY	NX	NM1	NM2	NM3	NZ	NY	NX	NW	NV	NU	NT	NM1	NM2
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	•		—	_	_		•		_	_	_	_	_	_	_
YASKAWA Electric Corporation	Σ-V/7/X	●*4	—	—	—	_	—	•	—	_	—	_	—	—	—	—
SANYO DENKI CO., LTD.	SANMOTION R	\bullet	—	—	—	—	—		—	—	—	—	—	—	—	<u> </u>
OMRON Corporation	OMNUC G5/1S		—	—			—	—			_	—	—			—
Panasonic Corporation	MINAS A5/A6	(MHMF only)	•	_	_		—	_	•	-	_	_	_	_	_	_
FANUC CORPORATION	βis (-B)	•	—	_	_	_	—	(β1 only)	—	_	•	_	_	_	_	_
NIDEC SANKYO CORPORATION	S-FLAG		_	_	—	—	_		_	—	_	—	—		—	—
KEYENCE CORPORATION	SV/SV2	●*4				—	—		—	—		—		—		—
FUJI ELECTRIC CO., LTD.	ALPHA7	\bullet	—	—	—	_	—		—	<u> </u>	—	—	—	—	—	—
MinebeaMitsumi Inc.	Hybrid stepping motors	—		—	●*1	—	●* ³	—	—	—	—	—	—	—	●*2	—
Shinano Kenshi Co., Ltd.	CSB-BZ	—	—	—	●*1	—	●*3	—	—	—	—	—	—	—	—	—
ORIENTAL MOTOR Co., Ltd.	α STEP AR/AZ	_	—	_	_	(46 only)	—	-	—	-	—	-	_	_	_	●*2
FASTECH Co., Ltd.	Ezi-SERVO	—		_		—		—	_	—	_	—		—	●*2	—
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/TL	(TL only)	—	—	_	_	—	_	—	●*1 (MP/VP only)	—	_	—	(TL only)	_	-
Beckhoff Automation GmbH	AM 30/31/80/81	•		_	_	_		_	—	●*1 (80/81 only)	_	●*1 (30 only)	●*2 (31 only)		_	_
Siemens AG	SIMOTICS S-1FK7	_	—		—	—	_	—	_	●*1	—	—	_	—	_	—
Delta Electronics, Inc.	ASDA-A2		_	_	_	_	_		_	—	_	—	—	_	_	—
ANCA Motion	AMD2000		_	_	_	_	_		_	_	_	_	_	_	_	—

*1 Motor mounting position: In-line only *2 Only size 32 is available when the motor mounting position is right (or left) side parallel. *3 Motor mounting position: Right (or left) side parallel only
 *4 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.
 *5 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

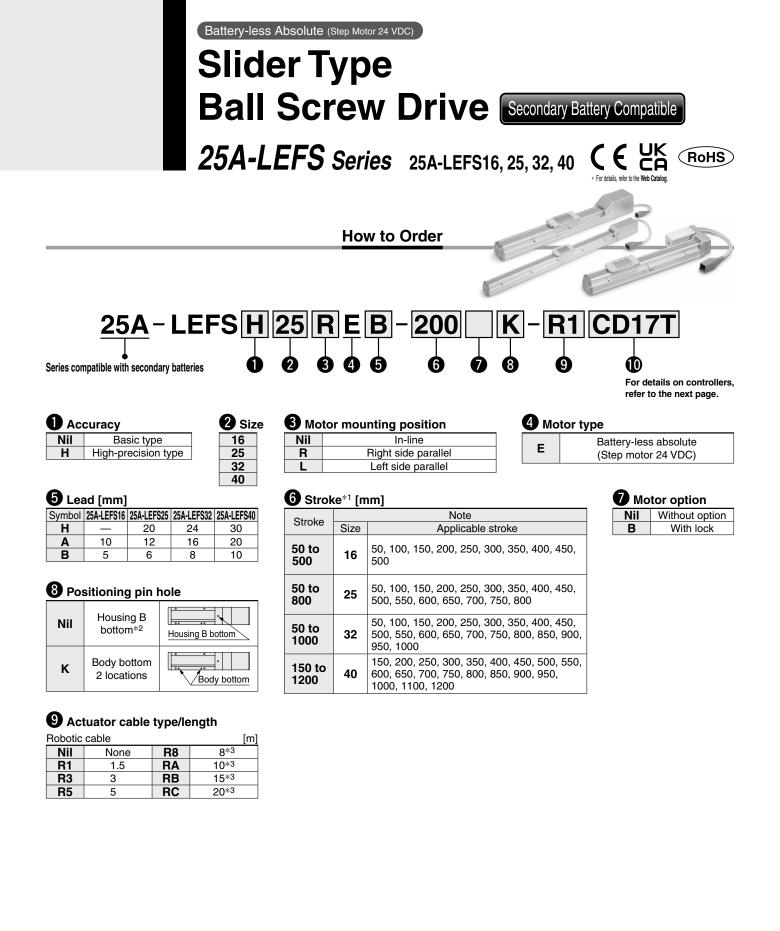
* The auto switch magnet contains copper and/or zinc.

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





SMC



Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

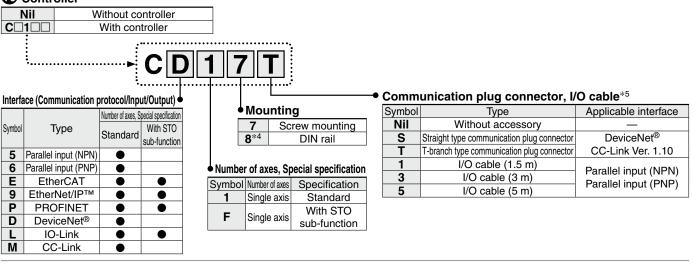
SMC

* Copper and zinc materials are used for the

- motors, cables, controllers/drivers.
- The 25A- series specifications and dimensions are the same as those of the standard model.

Slider Type/Ball Screw Drive 25A-LEFS Series

Battery-less Absolute (Step Motor 24 VDC) Secondary Battery Compatible



- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 Refer to the body mounting example on the Web Catalog for the mounting method.
- *3 Produced upon receipt of order
- *4 The DIN rail is not included. It must be ordered separately.

▲ Caution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEF series and the controller JXC series.

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

[Precautions relating to differences in controller versions]

When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the Web Catalog.

[UL certification]

The JXC series controllers used in combination with electric actuators are UL certified.

*5 Select "Nil" for anything other than DeviceNet®, CC-Link, or parallel input.

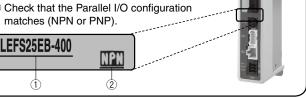
Select "Nil," "S," or "T" for DeviceNet[®] or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

The actuator and controller are sold as a package.

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

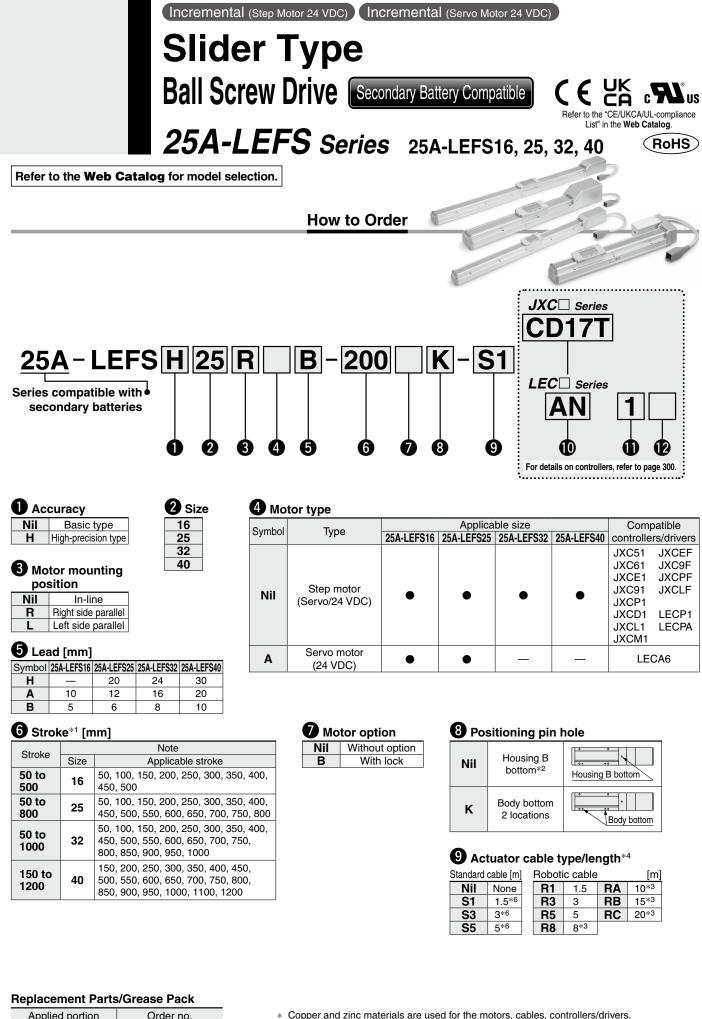
<Check the following before use.>

- (1) Check the actuator label for the model number (after "25A-This number should match that of the controller/driver.
- 2 Check that the Parallel I/O configuration



Refer to the Operation Manual for using the products. * Please download it via our website: https://www.smcworld.com

	Step data input type	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet [®] direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
Туре											
Series	JXC51 JXC61	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	Parallel I/O	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet [®] direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor				Bat	tery-less abs	solute (Step	motor 24 VI	DC)			
Max. number of step data						64 points					
Power supply voltage						24 VDC					



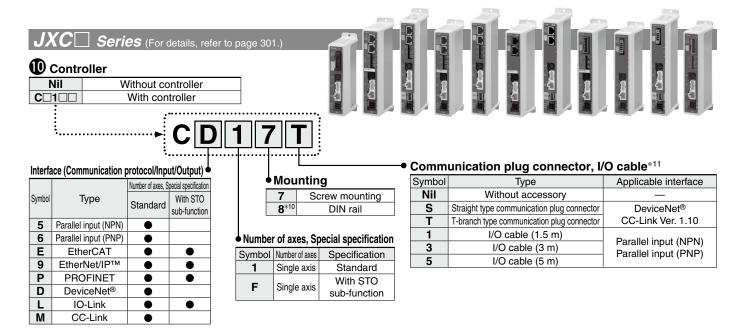
Applied portionOrder no.Ball screwGR-D-005 (5 g)Rail guideGR-D-010 (10 g)

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



Slider Type Ball Screw Drive 25A-LEFS Series

Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) Secondary Battery Compatible



Series (For details, refer to page 301.



Controller/Driver type*5

—		
Nil	Without controller/driver	
6N	LECA6 NPI	
6P	(Step data input type)	PNP
1N	LECP1*6	NPN
1P	(Programless type)	PNP
AN	LECPA*6 *7	NPN
AP	(Pulse input type)	PNP

*1 Please contact SMC for non-standard strokes as they are produced as special orders.

- *2 Refer to the body mounting example in the Web Catalog for the mounting method.
- *3 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. *4
- Refer to the Web Catalog if only the actuator cable is required. *5 For details on controllers/drivers and compatible motors, refer to the
- compatible controllers/drivers on the next page.
- *6 Only available for the motor type "Step motor" *7
- When pulse signals are open collector, order the current limiting resistor (LEC-PA-R- \Box) separately. (Refer to the **Web Catalog**.)

▲Caution

[CE/UKCA-compliant products]

1) EMC compliance was tested by combining the electric actuator LEF series and the controller LEC/JXC series.

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

2 For the incremental (servo motor 24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the Web Catalog for the noise filter set. Refer to the LECA series Operation Manual for installation.

[UL-compliant products (For the LEC series)]

When compliance with UL is required, the electric actuator and controller/ driver should be used with a UL1310 Class 2 power supply.

I/O cable length*8

	Nil	Without cable (Without communication plug connector)
	1	1.5 m
	3	3 m* ⁹
	5	5 m* ⁹
_		



Controller/Driver mounting

DIN rail*10

Screw mounting

- *8 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. If an I/O cable is required, order the cable separately for each series. (For details, refer to the Web
- Catalog.) *9 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector
 *10 The DIN rail is not included. It must be ordered separately.
- *11 Select "Nil" for anything other than DeviceNet®, CC-Link, or parallel input.

Select "Nil," "S," or "T" for DeviceNet[®] or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

Nil

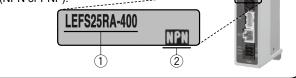
D

The actuator and controller/driver are sold as a package.

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

<Check the following before use.>

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



Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

25A-LEFS Series Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) Secondary Battery Compatible

Compatible Controllers/Drivers

Туре	Step data input type	Step data input type	Programless type	Pulse input type
Series	JXC51 JXC61 LECA6		LECP1	LECPA
Features	ures Parallel I/O Parallel I/O Capable of setting up operation (step data) without using a PC or teaching box		Operation by pulse signals	
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)		motor 24 VDC)
Max. number of step data	64 points		14 points	_
Power supply voltage	24 VDC			

	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet [®] direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
Туре										
Series	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet [®] direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor	Step motor (Servo/24 VDC)									
Max. number of step data	64 points									
Power supply voltage	24 VDC									



Battery-less Absolute (Step Motor 24 VDC)



Accuracy			
Nil Basic type			
Н	High-precision type		

3 Motor	mounting	position
---------	----------	----------

Nil	In-line
R	Right side parallel
L	Left side parallel

• Lead [mm]					
Symbol	25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40	
Н	—	20	24	30	
Α	10	12	16	20	
В	5	6	8	10	

16

25 32

40

Symbol

G

Туре

High performance

(Battery-less absolute)

8 Positioning pin hole

Nil	Housing B bottom ^{*2}	Housing B bottom
к	Body bottom 2 locations	Body bottom

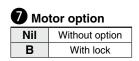
9 Actuator cable type/length

Robotic cable [r				
Nil	None	R8	8 ^{*3}	
R1	1.5	RA	10 ^{*3}	
R3	3	RB	15 ^{*3}	
R5	5	RC	20 ^{*3}	

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

6 Stroke ^{*1} [mm]				
Ohina haa		Note		
Stroke	Size	Applicable stroke		
50 to 500	16	50, 100, 150, 200, 250, 300, 350, 400, 450, 500		
50 to 800	25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800		
50 to 1000	32	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000		
150 to 1200	40	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200		



Compatible

controllers

JXC5H

JXC6H

JXCEH

JXC9H JXCPH

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

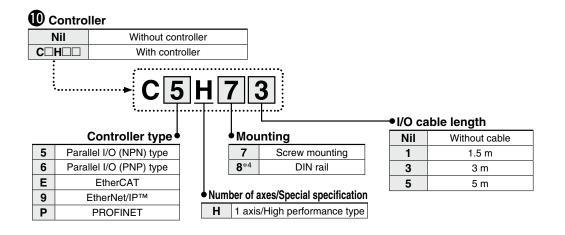
Applicable size

25A-LEFS16 25A-LEFS25 25A-LEFS32 25A-LEFS40

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



High Performance Slider Type/Ball Screw Drive 25A-LEFS G Series Battery-less Absolute (Step Motor 24 VDC) Secondary Battery Compatible



*1 Please contact SMC for non-standard strokes as they are produced as special orders.

- *2 For details on the mounting method, refer to page 280.
- *3 Produced upon receipt of order
- *4 The DIN rail is not included. It must be ordered separately.

ACaution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEF series and the controller JXC series.

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

Trademark

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT $^{\otimes}$ is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

The actuator and controller are sold as a package. Confirm that the combination of the controller and actuator is correct. <Check the following before use.> *1 Check the actuator label for the model number (after "25A-"). This number should match that of the controller/driver.

Refer to the Operation Manual for using the products.
 Please download it via our website: https://www.smcworld.com

_EFS25GA-400

*1

Туре		EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type			
Series		JXCEH	ЈХС9Н	ЈХСРН			
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input			
Compatible motor		Step moto	or 24 VDC				
Max. number of step data		64 p	oints				
Power supply voltage		24 \	/DC				



Incremental (Step Motor 24 VDC)

High Performance Slider Type

Ball Screw Drive Secondary Battery Compatible

25A-LEFS F Series 25A-LEFS16, 25, 32, 40

200

6

How to Order

В

Δ

25A – LEFS H 25 Series compatible with secondary batteries

secondary batteries	
Accuracy	2 Size

16

25

32 40

4 Motor type

Symbol	Turne		Compatible			
	Туре	25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40	controllers
F	High performance (Step motor 24 VDC)	•	•	•	•	JXC5H JXC6H JXCEH JXC9H JXC9H

Κ

S1

9

C5H73

D

5 Lead [mm]

Basic type

High-precision type

3 Motor mounting position

In-line

Nil H

Nil

 Symbol
 25A-LEFS16
 25A-LEFS25
 25A-LEFS32
 25A-LEFS40

 H
 - 20
 24
 30

 A
 10
 12
 16
 20

 B
 5
 6
 8
 10

8 Positioning pin hole

Nil	Housing B bottom ^{*2}	Housing B bottom
к	Body bottom 2 locations	Body bottom

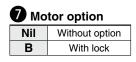
Actuator cable type/length^{*4}

Standard of	able [m]	Roboti		[m]			
Nil	None	R1	1.5	RA	10* ³		
S1	1.5	R3	3	RB	15* ³		
S 3	3	R5	5	RC	20* ³		
S5	5	R 8	8 ^{*3}				

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

6 Strok	e*1[m	m]
Stroke		Note
Slicke	Size	Applicable stroke
50 to 500	16	50, 100, 150, 200, 250, 300, 350, 400, 450, 500
50 to 800	25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800
50 to 1000	32	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000
150 to 1200	40	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200



For details on controllers, refer to the next page.

US

Web Catalog

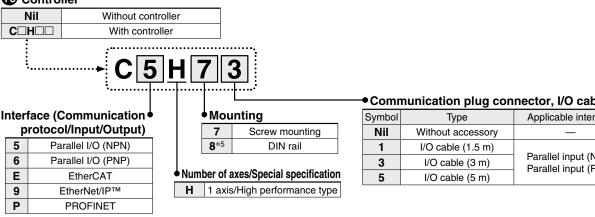
(RoHS)

- * Copper and zinc materials are used for the
- motors, cables, controllers/drivers.
- * The 25A- series specifications and dimensions are the same as those of the standard model.



High Performance EFS Slider Type/Ball Screw Drive 25A Secondary Battery Compatible Incremental (Step Motor 24 VDC)

Controller



- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 For details on the mounting method, refer to page 280.
- *3 Produced upon receipt of order (Robotic cable only) *4 The standard cable should only be used on fixed parts.
- For use on moving parts, select the robotic cable.

Caution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEF series and the controller JXC series.

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

Trademark

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Communication plug connector, I/O cable^{*6}

Symbol	Туре	Applicable interface				
Nil	Without accessory	—				
1	I/O cable (1.5 m)					
3	I/O cable (3 m)	Parallel input (NPN) Parallel input (PNP)				
5	I/O cable (5 m)	Parallel Input (PNP)				

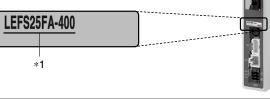
- *5 The DIN rail is not included. It must be ordered separately. *6 Select "Nil" for anything other than parallel input. Select "Nil," "1," "3," or "5" for parallel input.

The actuator and controller are sold as a package.

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

<Check the following before use.>

*1 Check the actuator label for the model number (after "25A-" This number should match that of the controller/driver.



* Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

Compatible Controllers

Туре	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type
Series	ЈХС5Н ЈХС6Н	ЈХСЕН	ЈХС9Н	ЈХСРН
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input
Compatible motor	Step motor 24 VDC		Step motor (Servo/24 VDC)	
Max. number of step data	64 points		64 points	
Power supply voltage	24 VDC		24 VDC	



Driver type					
Series	LECSA	LECSB-T	LECSC-T	LECSS-T	
Number of point tables	Up to 7	Up to 255	Up to 255 (2 stations occupied)	—	
Pulse input	0	0	—	—	
Applicable network	—	—	CC-Link	SSCNET Ⅲ/H	
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	F
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	

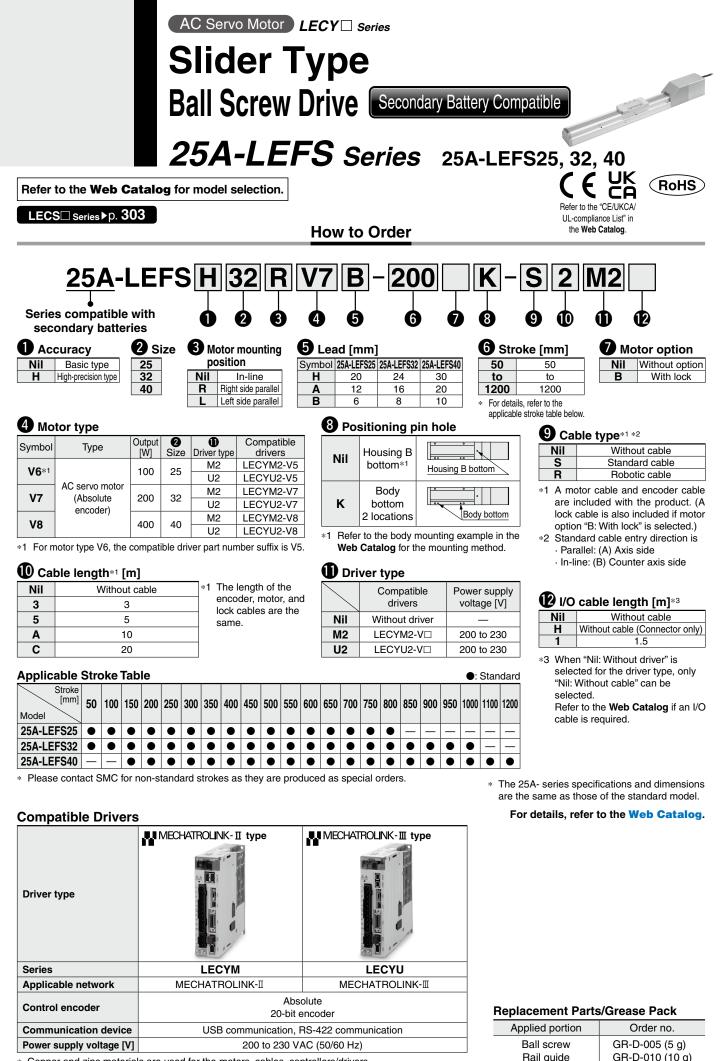
Replacement Parts/Grease Pack

Applied portionOrder no.Ball screwGR-D-005 (5 g)Rail guideGR-D-010 (10 g)

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

A 303



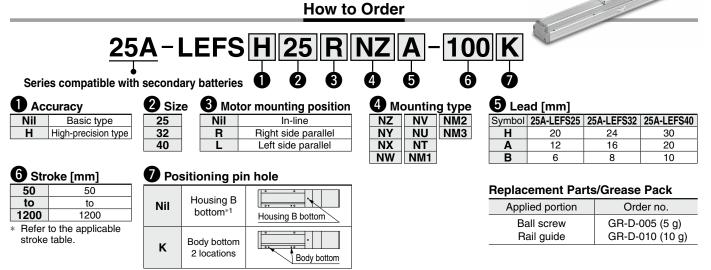


Copper and zinc materials are used for the motors, cables, controllers/drivers.



Motorless Type

Electric Actuator/Slider Type Ball Screw Drive Secondary Battery Compatible RoHS 25A-LEFS Series 25A-LEFS25, 32, 40



*1 Refer to the body mounting example on the Web Catalog for the mounting method.

Applicable Stroke Table

Applicable Strok	Applicable Stroke Table													Indard							
Stroke Model 50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200
25A-LEFS25																—	—	_	—		
25A-LEFS32									•				•		•					_	
25A-LEFS40 -	- 1								•	•	•	•	•							•	

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

Compatible Motors and Mounting Types^{*5}

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

For details, refer to the Web Catalog.

compatible Motors a																
Applicable n	notor model								Size/Mounting type							
Manufacturer	Series				25							32/40				
Manuacturer	Genes	NZ	NY	NX	NM1	NM2	NM3	NZ	NY	NX	NW	NV	NU	NT	NM1	NM2
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	•	_	_	_	_	_	•		_	_	_	_	_	_	_
YASKAWA Electric Corporation	Σ-V/7/X	●*4	_	—	_	_	—	•	_	_	_	_	—	—	—	—
SANYO DENKI CO., LTD.	SANMOTION R		_	_	—	—	—		_	—		—	—	—	—	—
OMRON Corporation	OMNUC G5/1S		_				_	—	•	_	_			_	_	_
Panasonic Corporation	MINAS A5/A6	(MHMF only)	•	_	_	_	_	_	•	_		_	_	_		_
FANUC CORPORATION	βis (-B)	•	—	—	-	-	—	(β1 only)	—		•	-	—	Ι	—	—
NIDEC SANKYO CORPORATION	S-FLAG		_	_	_	—	_		_	-	_	_	—		_	—
KEYENCE CORPORATION	SV/SV2	●*4	_	—	—	—	—		—	_	—	—	—	_	—	—
FUJI ELECTRIC CO., LTD.	ALPHA7		_			—	_		_	<u> </u>	_	<u> </u>	—		_	—
MinebeaMitsumi Inc.	Hybrid stepping motors		_		●*1	_	●*3	_	_	_	_		_		●*2	_
Shinano Kenshi Co., Ltd.	CSB-BZ	—	_		●*1	—	●*3	—	_	<u> </u>	_	—	—	-	_	—
ORIENTAL MOTOR Co., Ltd.	α STEP AR/AZ	—	_	_	_	(46 only)	_	—	_	_	_	_	_	_	_	●*2
FASTECH Co., Ltd.	Ezi-SERVO		—	—					_		_				● *2	
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/TL	(TL only)	_	_	_	_	_	_	_	●*1 (MP/VP only)	_	_	_	(TL only)	_	_
Beckhoff Automation GmbH	AM 30/31/80/81	•	_	_	_	_	_	_	_	●*1 (80/81 only)		●*1 (30 only)	•*2 (31 only)	_	_	_
Siemens AG	SIMOTICS S-1FK7	—	_		—	—		—	_	●*1	_	—	—		—	—
Delta Electronics, Inc.	ASDA-A2		_	_	—	—	_		_	—	_	—	—	—	_	—
ANCA Motion	AMD2000								_	_					_	—

*1 Motor mounting position: In-line only *2 Only size 32 is available when the motor mounting position is right (or left) side parallel. *3 Motor mounting position: Right (or left) side parallel only *4 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor

*5 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.



SMC



Nil	Without cable
S	Standard cable
R	Robotic cable
-	

- *6 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
- *7 Standard cable entry direction is "(A) Axis side."

(I/O cable length [m]*9

Nil	NII Without cable			
Н	Without cable (Connector only)	1		
1	1.5]		

*9 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.

Refer to the **Web Catalog** if an I/O cable is required.

2

5

Α

2

5

10

*8 The length of the motor,

are the same.

encoder, and lock cables

Applicable Str	Applicable Stroke Table ^{*4} •: Standard										
Stroke Model	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40											—
25A-LEJS63	—										

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

Compatible Drivers

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	type	
Series	LECSA	LECSB-T	LECSC-T	LECSS-T	
Number of point tables	Up to 7	Up to 255	Up to 255 (2 stations occupied)	—	
Pulse input	0	0	_	—	
Applicable network	—	—	CC-Link	SSCNET Ⅲ/H	
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	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, and auto switch magnets.



For details, refer to the Web Catalog.

Nil

A1

A2

B2

C2

S2

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

Example)

Without driver

LECSA1-S

LECSA2-S

LECSB2-T

LECSC2-T

LECSS2-T

S2: Standard cable (2 m)

Nil: Without cable and driver

Select the cable type and cable length.

*5 When a driver type is selected, a cable is included.

S2S2: Standard cable (2 m) + Driver (LECSS2)

100 to 120

200 to 230

200 to 240

200 to 230

200 to 240

Solid state auto switches should be				
ordered separately.				
Click here for auto switch details.				

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Linear guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

AC Servo Motor LECY Series

High Rigidity Slider Type Ball Screw Drive Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

Refer to the Web Catalog for model selection.

LECS□ Series ▶ p. 305

How to Order

8 Cable length [m] *5, *8

*8 The length of the motor, encoder.

and lock cables are the same.

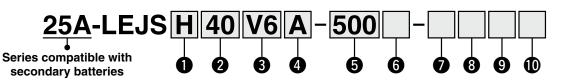
Without cable

3

5

10

20



Accuracy						
Nil	Basic type					
Н	High-precision type					
🛿 Siz	2 Size					
40						
63						

3 Motor type *1							
Symbol	Туре	Output [W]	2 Size	Oriver type	Compatible drivers*2		
V6		100	40	M2	LECYM2-V5		
	100	40	U2	LECYU2-V5			
V7	<pre>(Absolute</pre>	200	63	M2	LECYM2-V7		
V7 choodely	200	03	U2	LECYU2-V7			

*1 For motor type V6, the compatible driver part number suffix is V5. *2 For details on the driver, refer to the Web Catalog.

> Nil 3

> > 5

Α

С

Cable type*5, *6, *7

Nil	Without cable		
S	Standard cable		
R	Robotic cable		
*6 A motor cable and encoder cable are included w			

th the product. (A lock cable is also included if motor option "B: With lock" is selected.)

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

I/O cable length [m]*9

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

*9 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if an I/O cable is required.

4 Lea	ad	[mm]	
Symbol		25A-I	E.I

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

Refer to the UL-compliance List

the Web Catalog

5 Stroke [mm]*3

200

to

1500

stroke [mm]*3	6 Mo	tor option
*3 Refer to the applicable stroke	Nil B	Without option With lock
table for details.		,

RoHS

9 Driver type *5

Applicable auto switches

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

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

When a driver type is selected, a cable is included. *5 Select the cable type and cable length. Example)

S2S2: Standard cable (2 m) + Driver (LECSS2) S2: Standard cable (2 m)

Solid state auto switches should be ordered separately. Click here for details on applicable auto switch models.

Nil: Without cable and driver

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900

D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Applicable Stroke Table^{*4}

Applicable Stroke Table*4 •: Standard											
Stroke Model	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40	•						\bullet				—
25A-LEJS63	_										

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

Compatible Drivers

Compatible Driver	<u> </u>					
Driver type	MECHATROLINK- II type	MECHATROLINK-II type				
Series	LECYM	LECYU				
Applicable network	MECHATROLINK-II	MECHATROLINK-II				
Control encoder	trol encoder Absolute 20-bit encoder					
Communication device	USB communication, RS-422 communication					
Power supply voltage [V]	200 to 230 V/	AC (50/60 Hz)				

Replacement Parts/Grease Pack

For details, refer to the Web Catalog.

Applied portion	Order no.
Ball screw Linear guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

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



Motorless Type



•

(MP/VP only)

(80/81 only)

•

(β1 only)

•

•

•

*1 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.
 *2 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

•

.

(MHMF only)

.

******1

0

(TL only)

•

0

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Linear guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

MINAS A5/A6

βis (-B)

S-FLAG

SV/SV2

ALPHA7

Kinetix MP/VP/TL

AM 30/31/80/81

SIMOTICS S-1FK7

ASDA-A2

AMD2000

* The auto switch magnet contains copper and/or zinc.

(30 only)

_

(31 only)

(TL only)

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

For details, refer to the Web Catalog.

Panasonic

FANUC

Corporation

CORPORATION

NIDEC SANKYO

CORPORATION KEYENCE CORPORATION

(Allen-Bradley)

Siemens AG

ANCA Motion

GmbH

FUJI ELECTRIC CO., LTD.

Rockwell Automation, Inc.

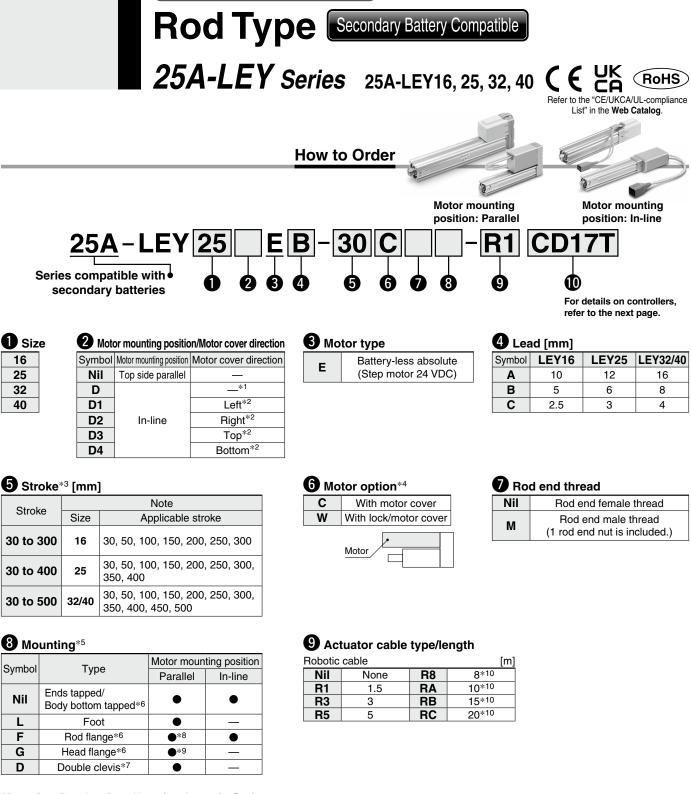
Beckhoff Automation

Delta Electronics, Inc.



SMC

Battery-less Absolute (Step Motor 24 VDC)



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

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

*2 Parts included with each type of bracket are as follows.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)



Solid state auto switches should be ordered separately. Click here for auto switch details.

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

* Copper and zinc materials are used for the

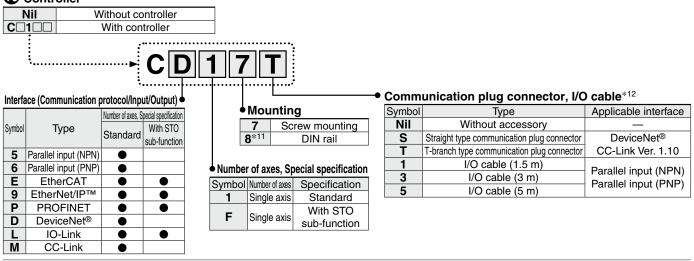
- motors, cables, controllers/drivers.
- The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Rod Type 25A-LEY Series

Battery-less Absolute (Step Motor 24 VDC) Secondary Battery Compatible

Controller



- *1 Sizes 25, 32, and 40 only
- Size 16 only
- *3 Please contact SMC for non-standard strokes as they are produced as special orders
- When "With lock/motor cover" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 16 with strokes of 50 mm or less and size 40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
- *5 The mounting bracket is shipped together with the product but does not come assembled.
- *6 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range. 25A-LEY25: 200 or less 25A-LEY32/40: 100 or less

▲Caution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.

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

[Precautions relating to differences in controller versions]

When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the Web Catalog.

[UL certification]

The JXC series controllers used in combination with electric actuators are UL certified.

- For the mounting of the double clevis type, use the actuator within the *7 following stroke range.
- · 25A-LEY16: 100 or less · 25A-LEY25: 200 or less · 25A-LEY32/40: 200 or less The rod flange type is not available for the 25A-LEY16 with strokes of *8 50 mm or less and 25A-LEY40 with strokes of 30 mm or less, and motor option "With lock/motor cover.
- *9 The head flange type is not available for the 25A-LEY32/40.
- *10 Produced upon receipt of order
 *11 The DIN rail is not included. It must be ordered separately.
 *12 Select "Nil" for anything other than DeviceNet[®], CC-Link, or parallel input.
 - Select "Nil," "S," or "T" for DeviceNet[®] or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

The actuator and controller are sold as a package. Confirm that the combination of the controller and actuator is correct.

<Check the following before use.>

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

LEY25EB-100 INPN (2)

Refer to the Operation Manual for using the products. * Please download it via our website: https://www.smcworld.com

	Step data input type	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet® direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
Туре											1
Series	JXC51 JXC61	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	Parallel I/O	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet [®] direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor	Battery-less absolute (Step motor 24 VDC)										
Max. number of step data		64 points									
Power supply voltage						24 VDC					

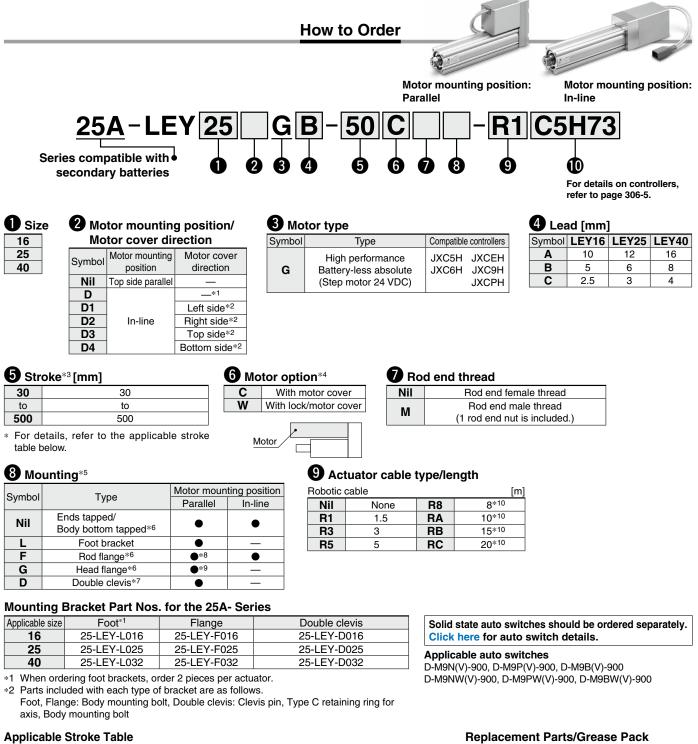
Battery-less Absolute (Step Motor 24 VDC)

High Performance

Rod Type Secondary Battery Compatible



25A-LEY G Series 25A-LEY16, 25, 40 (RoHS)



Size		Stroke [mm]										
Size	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
16	•							—	—	—	—	10 to 300
25		•			•					—	_	15 to 400
40												20 to 500

Applied portion	Order no.
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)

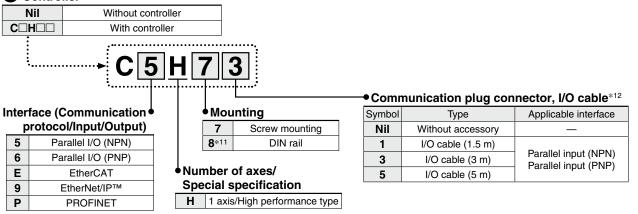
* Copper and zinc materials are used for the motors, cables, controllers/drivers. * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.









- *1 Sizes 25 and 40 only
- *2 Size 16 only
- *3 Please contact SMC for non-standard strokes as they are produced as special orders
- *4 When "With lock/motor cover" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 16 with strokes of 50 mm or less and size 40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
- *5 The mounting bracket is shipped together with the product but does not come assembled.
- *6 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range. 25A-LEY25: 200 or less · 25A-LEY40: 100 or less

▲Caution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.

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

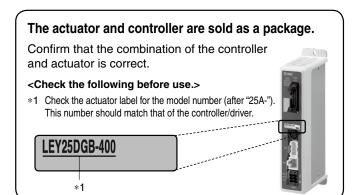
Trademark

EtherNet/IP® is a registered trademark of ODVA, Inc. EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Compatible Controllers

		Parallel input (NPN)
3	I/O cable (3 m)	
•		Parallel input (PNP)

- *7 For the mounting of the double clevis type, use the actuator within the following stroke range.
 - 25A-LEY16: 100 or less · 25A-LEY25: 200 or less 25A-LEY40: 200 or less
- *8 The rod flange type is not available for the 25A-LEY16 with strokes of 50 mm or less and 25A-LEY40 with strokes of 30 mm or less, and motor option "With lock/motor cover."
- *9 The head flange type is not available for the 25A-LEY40.
- *10 Produced upon receipt of order
- *11 The DIN rail is not included. It must be ordered separately.
- *12 Select "Nil" for anything other than parallel input. Select "Nil," "1," "3," or "5" for parallel input.



Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

compatible controlle								
Туре	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type				
Series	JXC5H JXC6H	JXCEH	ЈХС9Н	ЈХСРН				
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input				
Compatible motor		Battery-less absolute (Step motor 24 VDC)						
Max. number of step data		64 p	points					
Power supply voltage		24 \	VDC					

*



Incremental (Step Motor 24 VDC)

High Performance

Rod Type Secondary Battery Compatible



25A-LEY F Series 25A-LEY16, 25, 40 RoHS

How to Order

50



4 Lead [mm]

Α

В

С

С

w

Motor mounting position: Parallel

Motor mounting position:

25A-LEY 25 Series compatible with secondary batteries

In-line C5H73 9 10

For details on controllers, refer to page 306-7.

Symbol LEY16 LEY25 LEY40

12

6

3

With motor cover

With lock/motor cover

16

8

4

10

5

2.5

6 Motor option*4



2 Motor mounting position/Motor cover direction

Symbol	Motor mounting position	Motor cover direction		
Nil	Top side parallel	—		
R	Right side parallel	_		
L	Left side parallel	—		
D		*1 Left side*2 Right side*2		
D1				
D2	In-line			
D3		Top side*2		
D4		Bottom side*2		

3 Motor type

B

Symbol	Туре	Compatible	controllers
F	High performance (Step motor 24 VDC)	JXC5H JXC6H	

30

5 Stroke*

*3[mm]	

30

to to 500 500

For details, refer to the applicable stroke table below.

7 Ro	d end thread
Nil	Rod end female thread
м	Rod end male thread (1 rod end nut is included.)

8 Mountina*5

Sumbol	Turne	Motor mounting position		
Symbol	Туре	Parallel	In-line	
Nil	Ends tapped/ Body bottom tapped*6	•	•	
L	Foot bracket	•	—	
F	Rod flange*6	●*8	•	
G	Head flange*6	● *9	_	
D	Double clevis*7	•		

9 Actuator cable type/length

Motor

Standard	cable [m]	Roboti	c cable		[m]
Nil	None	R1	1.5	RA	10* ¹⁰
S1	1.5	R3	3	RB	15* ¹⁰
S3	3	R5	5	RC	20* ¹⁰
S5	5	R 8	8* ¹⁰		
				•	

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
40	25-LEY-L032	25-LEY-F032	25-LEY-D032

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

* Parts included with each type of bracket are as follows. Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt

Applicable Stroke Table

Size						S	troke [mm]				
Size	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
16	•							—	—	—	—	10 to 300
25	•	•			•					—	_	15 to 400
40	•	•			•					•	•	20 to 500

Replacement Parts/Grease Pack

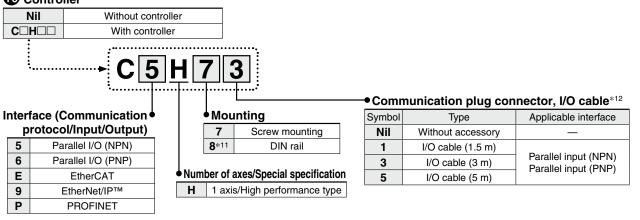
Applied portion	Order no.
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)



Solid state auto switches should be ordered separately. Click here for auto switch details.

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

- * Copper and zinc materials are used for the motors, cables, controllers/drivers.
- The 25A- series specifications and dimensions are the same as those of the standard model.



- *1 Sizes 25 and 40 only
- *2 Size 16 only
- *3 Please contact SMC for non-standard strokes as they are produced as special orders.
 *4 When "With lock/motor cover" is selected for the top/right/left side parallel
- The mounting bracket is shipped together with the product but does
- *5 The mounting bracker is simpled together with the product but does not come assembled.
 *6 For the horizontal cantilever mounting of the rod flange, head flange, or
- •6 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range. • 25A-LEY25: 200 or less • 25A-LEY40: 100 or less

≜Caution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.

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

Trademark

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT $^{\otimes}$ is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

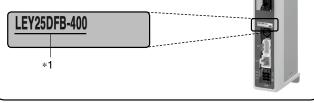
- *7 For the mounting of the double clevis type, use the actuator within the following stroke range.
 · 25A-LEY16: 100 or less
 · 25A-LEY25: 200 or less
 - · 25A-LEY16: 100 or less · 25A-LEY25: 200 or less · 25A-LEY40: 200 or less
- *8 The rod flange type is not available for the 25A-LEY16 with strokes of 50 mm or less and 25A-LEY40 with strokes of 30 mm or less, and motor option "With lock/motor cover."
- *9 The head flange type is not available for the 25A-LEY40.
- *10 Produced upon receipt of order
- *11 The DIN rail is not included. It must be ordered separately.
- *12 Select "Nil" for anything other than parallel input. Select "Nil," "1," "3," or "5" for parallel input.

The actuator and controller are sold as a package.

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

<Check the following before use.>

*1 Check the actuator label for the model number (after "25A-" This number should match that of the controller/driver.

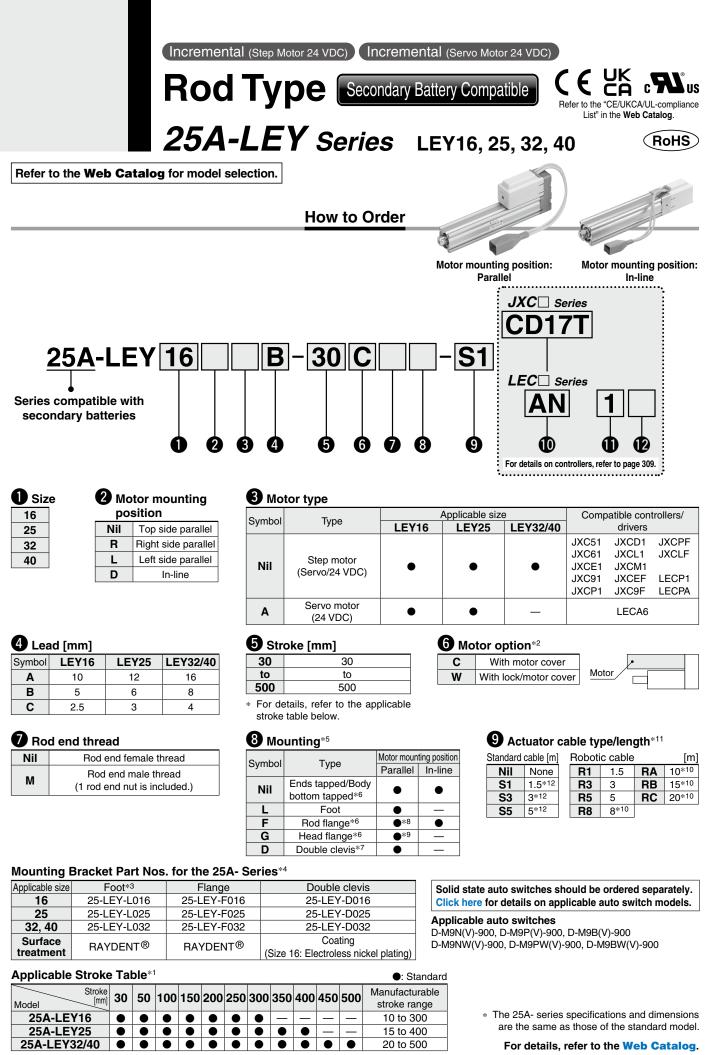


Refer to the Operation Manual for using the products.
 Please download it via our website: https://www.smcworld.com

Compatible Controllers

Туре	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type			
Series	JXC5H JXC6H	JXCEH	ЈХС9Н	ЈХСРН			
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input			
Compatible motor	Step motor 24 VDC	Step motor (Servo/24 VDC)					
Max. number of step data	64 points	64 points					
Power supply voltage	24 VDC		24 VDC				



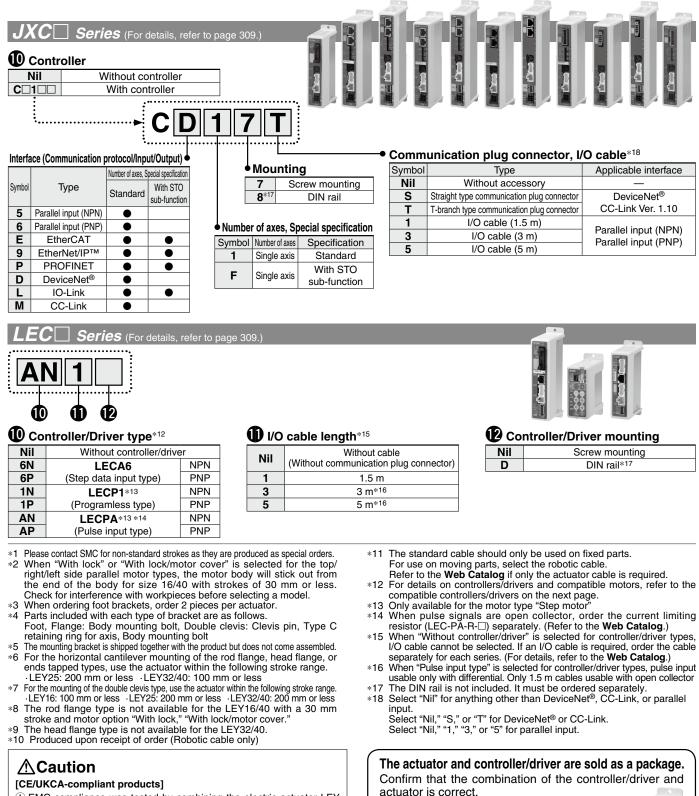


307

SMC

Rod Type 25A-LEY Series

Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) Secondary Battery Compatible



- ① EMC compliance was tested by combining the electric actuator LEY series and the controller LEC/JXC series.
- The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify compliance with the EMC directive for the machinery and equipment as a whole.
- ② For the incremental (servo motor 24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the Web Catalog for the noise filter set. Refer to the LECA series Operation Manual for installation.

[UL-compliant products (For the LEC series)] When compliance with UL is required, the electric actuator and controller/ driver should be used with a UL1310 Class 2 power supply.

Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

NPN (2)

<Check the following before use.>

(NPN or PNP).

① Check the actuator label for the model number (after "25A-" This number should match that of the controller/driver.

② Check that the Parallel I/O configuration matches

EY16B-100

(1)

25A-LEY Series Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) Secondary Battery Compatible

Compatible Controllers/Drivers

	Step data input type	Step data input type	Programless type	Pulse input type			
Туре							
Series	JXC51 JXC61	LECA6	LECP1	LECPA			
Features	Parallel I/O	Parallel I/O	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals			
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)		motor 24 VDC)			
Max. number of step data	64 p	oints	14 points	_			
Power supply voltage	24 VDC						

	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet® direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
Туре										
Series	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet [®] direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor	Step motor (Servo/24 VDC)									
Max. number of step data	64 points									
Power supply voltage	24 VDC									

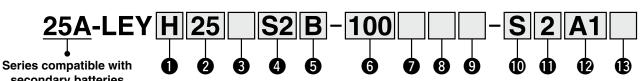


AC Servo Motor LECS Series



LECY□ Series ▶ p. 313

How to Order



secondary batteries

🛈 Ac	curacy
Nil	Basic type
Н	High-precision type

Motor mounting position

Nil

R

D

Top side parallel

Right side parallel

Left side parallel In-line

4 Motor type

2 Size

25

32

	71				
Symbol	Туре	Output [W]	2 Size	Driver type	Compatible drivers
S2*1	AC servo motor	100	25	A1/A2	LECSA□-S1
S3	(Incremental encoder)	200	32	A1/A2	LECSA□-S3
		100	25	B2	LECSB2-T5
T6*2				C2	LECSC2-T5
	AC servo motor			S2	LECSS2-T5
	(Absolute encoder)			B2	LECSB2-T7
T7		200	32	C2	LECSC2-T7
				S2	LECSS2-T7

*1 For motor type S2, the compatible driver part number suffix is S1.

*2 For motor type T6, the compatible driver part number is LECS^{2-T5}.

* For details on the driver, refer to the Web Catalog.

5 Lead [mm]

Symbol	LEY25	LEY32*1
Α	12	16 (20)
В	6	8 (10)
С	3	4 (5)

*1 The values shown in () are the leads for the size 32 top/right/left side parallel motor types. (Equivalent leads which include the pulley ratio [1.25:1])

8 Rod end thread

Nil	Rod end female thread
м	Rod end male thread
IVI	(1 rod end nut is included.)

G Stroke [mm]

0.00	
30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

9 Mounting*1

Symbol	Type	Motor moun	ting position	,
Symbol	туре	Parallel	In-line	
Nil	Ends tapped/ Body bottom tapped	•	•	
L	Foot			
F	Rod flange*2	●*4	•	
G	Head flange*2	●* ⁵	—	
D	Double clevis*3		_	

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	Flange	Double clevis
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

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

* Parts included with each type of bracket are as follows.

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

Applicable Stroke Table

Stroke [mm] 30 50 100 150 200 250 300 350 400 450 500 Manufacturable stroke range [mm] 25A-LEY25 • <	Applicable Stroke Table												•: Standard
Model Image: Stroke range [mm] 25A-LEY25 ●	[mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable
	Model			100	100	200	200		000	100	-100	000	stroke range [mm]
	25A-LEY25	•									_	_	15 to 400
	25A-LEY32	•									•	•	20 to 500

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



Motor option Without option Nil

selecting a model.

	В	With lock*1
*1	When	"With lock" is selected for the top/right/left side
	parall	el motor types, the motor body will stick out from
	the er	nd of the body for size 25 with strokes of 30 mm
	or les	s. Check for interference with workpieces before



• • • • • • • • • •

- *1 The mounting bracket is shipped together with the product but does not come assembled.
- *2 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range. · 25A-LEY25: 200 mm or less
 - · 25A-LEY32: 100 mm or less
- *3 For the mounting of the double clevis type, use the actuator within the following stroke range. · 25A-LEY25: 200 mm or less
 - 25A-LEY32: 200 mm or less
- *4 The rod flange type is not available for the 25A-LEY25 with a 30 mm stroke and motor option "With lock."
- The head flange type is not available for the 25A-LEY32.

Solid state auto switches should be ordered separately. Click here for details on applicable auto switch models.

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

Rod Type 25A-LEY Series

AC Servo Motor Size 25, 32 Secondary Battery Compatible





Motor mounting position: Parallel Motor mounting position: In-line

Cable type*1 *2

	/ 1
Nil	Without cable
S	Standard cable
R	Robotic cable

*1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)

*2 Standard cable entry direction is

· Parallel: (A) Axis side

· In-line: (B) Counter axis side

B I/O cable length [m]*1

	.
Nil	Without cable
Н	Without cable (Connector only)
1	1.5

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.

Refer to the **Web Catalog** if an I/O cable is required.

Cable length*1 [m]

NII	Without cable
2	2
5	5
Α	10

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

Driver type*1

-		
\backslash	Compatible drivers	Power supply voltage [V]
Nil	Without driver	_
A1	LECSA1-S	100 to 120
A2	LECSA2-S	200 to 230
B2	LECSB2-T□	200 to 240
C2	LECSC2-T	200 to 230
S2	LECSS2-T	200 to 240

*1 When a driver type is selected, a cable is included. Select the cable type and cable length. Example)

S2S2: Standard cable (2 m) + Driver (LECSS2) S2: Standard cable (2 m)

Nil: Without cable and driver

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

For details, refer to the Web Catalog.

Compatible Drivers

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNET WH type	
Series	LECSA	LECSB-T	LECSC-T	LECSS-T	
Number of point tables Up to 7		Up to 255	Up to 255 (2 stations occupied)	—	
Pulse input	0	0	_	<u> </u>	
Applicable network	—	—	CC-Link	SSCNET Ⅲ/H	
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	

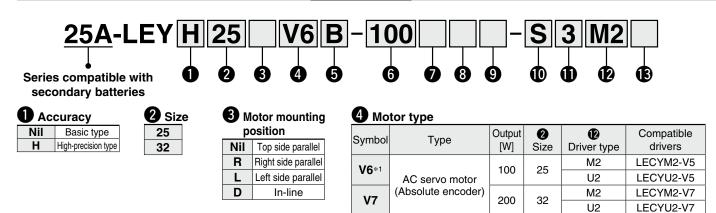
* Copper and zinc materials are used for the motors, cables, controllers/drivers.

AC Servo Motor LECY Series

Rod Type Secondary Battery Compatible 25A-LEY Series LEY25, 32 Size (RoHS) 25.32

LECS□ Series ▶ p. 311

How to Order



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

Motor mounting position

Parallel In-line

•

•*4

•*5

5 Lead [mm]

8 Rod end thread

Nil

М

Symbol	25A-LEY25	25A-LEY32*1							
Α	12	25A-LEY32 *1 16 (20) 8 (10)							
В	6	8 (10)							
С	3	4 (5)							

*1 The values shown in () are the leads for the size 32 top/right/left side parallel motor types. (Equivalent leads which include the pulley ratio [1.25:1])

Rod end female thread

Rod end male thread

(1 rod end nut is included.)

6 Stroke [mm]

9 Mounting*1

Symbol

Nil

L

F

G

D

30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

Туре

Ends tapped/

Body bottom tapped/*2

Foot

Rod flange*2

Head flange*2

Double clevis*3

Motor	option

Nil	Without option	
В	With lock*1	

*1 When "With lock" is selected for the top/right/left side parallel motor types, the motor body will stick out from the end of the body for size 25 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.



- The mounting bracket is shipped together with the product but does not come assembled. *2 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.
- · LEY25: 200 mm or less · LEY32: 100 mm or less *3 For the mounting of the double clevis type, use the actuator within the following stroke range.
- · LEY25: 200 mm or less · LEY32: 200 mm or less The rod flange type is not available for the LEY25
- with a 30 mm stroke and motor option "With lock." *5 The head flange type is not available for the LEY32.

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	Flange	Double clevis
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

Solid state auto switches should be ordered separately. Click here for details on applicable auto switch models.

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

* Parts included with each type of bracket are as follows.

Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900 Body mounting bolt

Applicable Stroke Table

Applicable Sticke Table												U: Standard
Stroke		50	100	150	200	250	300	350	400	450	500	Manufacturable
Model [mm]	30	50	100	150	200	250	300	350	400	450	500	stroke range [mm]
25A-LEY25	\bullet	•								—	—	15 to 400
25A-LEY32	•	•	•	•	•	•	•	•	•	•		20 to 500

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

SMC

Applicable auto switches D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900

Refer to the Web Catalog for model selection.







Motor mounting position: Parallel

Motor mounting position: In-line

Cable type*1 *2

Nil	Without cable		
S	Standard cable		
R	Robotic cable		

*1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)

*2 Standard cable entry direction is · Parallel: (A) Axis side

· In-line: (B) Counter axis side

B I/O cable length [m]*1

-				
Nil Without cable				
H Without cable (Connector onl				
1	1.5			

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.

Refer to the Web Catalog if an I/O cable is required.

Cable length [m]*1

 •		
Nil	Without cable	
3	3	
5	5	
Α	10	
С	20	

*1 The length of the motor and encoder cables are the same. (For with lock)

Driver type*1

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

*1 When a driver type is selected, a cable is included. Select the cable type and cable length.

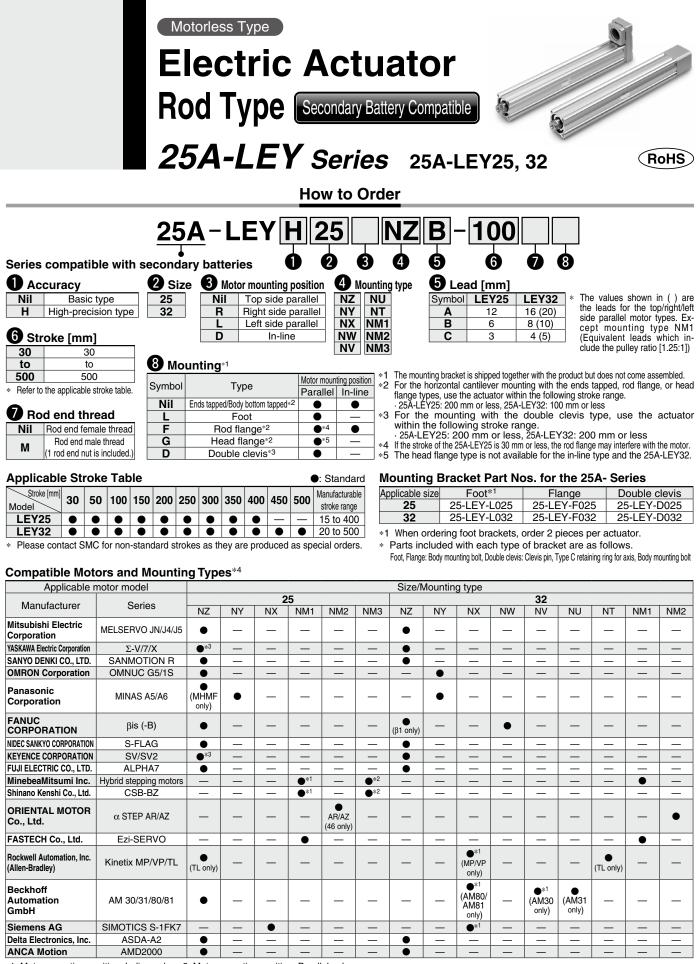
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Compatible Drivers	5	For details, refer to the Web Catalog.				
Driver type	MECHATROLINK-II type	MECHATROLINK-III type				
Series	LECYM	LECYU				
Applicable network	MECHATROLINK-II	MECHATROLINK-II				
Control encoder		solute encoder				
Communication device	USB communication, RS-422 communication					
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)					

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





*1 Motor mounting position: In-line only *2 Motor mounting position: Parallel only

*3 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.

*4 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

Replacement Parts/Grease Pack

riepideenient i uns/oredse i dek				
Applied portion	Order no.			
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)			

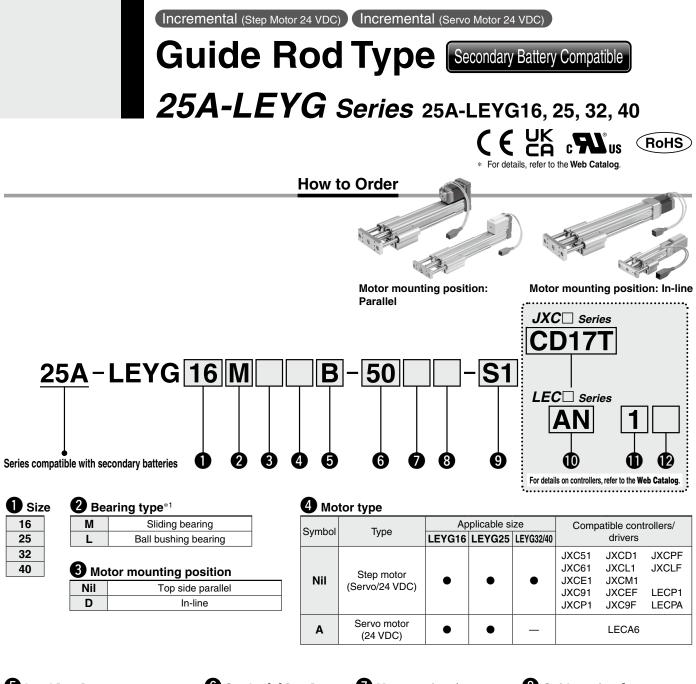
Solid state auto switches should be ordered separately. Click here for auto switch details.

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.

For details, refer to the Web Catalog.



SMC



• Lead [mm]								
Symbol	LEYG16	LEYG25	LEYG32/40					
Α	10	12	16					
В	5	6	8					
С	2.5	3	4					

6 Stroke ^{*2 *3} [mm]					
30	30				
to	to				
300	300				

For details, refer to the applicable stroke table below.

7 Motor option*4					
Nil	Without option				
С	With motor cover				
В	With lock				
W	With lock/motor cover				

8	Guide	option*5

Nil	Without option						
F	With grease retaining function*15						
*15 Only applicable for sizes 25, 32							

and 40 with the sliding bearing

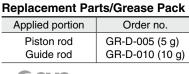
9	Actuator	cable	type/length*7
---	----------	-------	---------------

-					
Standard	cable [m]	Robotic	cable		[m]
Nil	None	R1	1.5	RA	10* ⁶
S1	1.5* ⁹	R3	3	RB	15* ⁶
S3	3* ⁹	R5	5	RC	20*6
S5	5* ⁹	R8	8*6		
				,	

Applicable St	roke	Tab	e *2					Standard
Stroke								Manufacturable
[mm]	30	50	100	150	200	250	300	stroke range
Model								[mm]
LEYG16						—	—	10 to 200
LEYG25								15 to 300
LEYG32/40	\bullet							20 to 300

Solid state auto switches should be ordered separately	y.
Click here for auto switch details.	

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



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

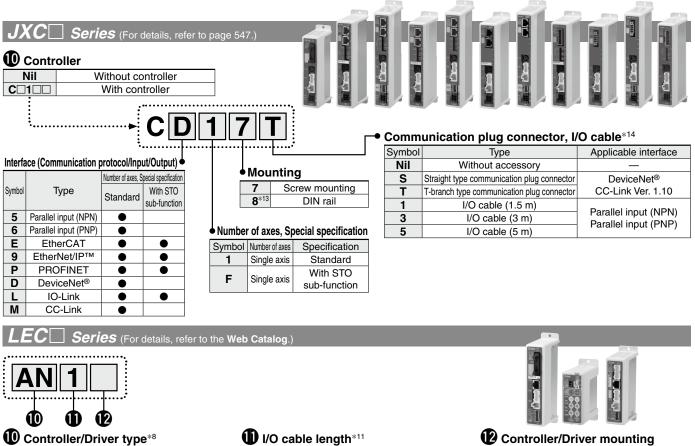
The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.



Guide Rod Type 25A-LEYG Series

Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) Secondary Battery Compatible



Nil	Without controller/driv	er
6N	LECA6	NPN
6P	(Step data input type)	PNP
1N	LECP1*9	NPN
1P	(Programless type)	PNP
AN	LECPA*9 *10	NPN
AP	(Pulse input type)	PNP

Ð	I/O	cable	length*	11

Without cable (Without communication plug connector)	
1.5 m	
3 m* ¹²	
5 m* ¹²	

- compatible controllers/drivers on the next page. *9 Only available for the motor type "Step motor"

Nil

D

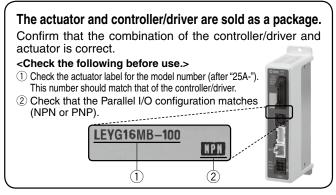
When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) on separately. *10

Screw mounting

DIN rail*13

- *11 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to the Web Catalog if an I/O cable is required.
- When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables u-able with open collector
- The DIN rail is not included. It must be ordered separately. Select "Nil" for anything other than DeviceNet®, CC-Link, or parallel *13 *14

input. Select "Nil," "S," or "T" for DeviceNet[®] or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.



Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

- When [M: Sliding bearing] is selected, the max. speed of lead [A] is 400 mm/s (at no-load, horizontal mounting). The speed is also restricted with a horizontal/moment load. Refer to the "Model Selection" on the Web Catalog.
- *2 Please contact SMC for non-standard strokes as they are produced as special orders. *3 There is a limit for mounting the size 32/40 top side parallel motor
- types and strokes of 50 mm or less. Refer to the dimensions. *4 When "With lock" or "With lock/motor cover" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 16/40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
 *5 Only available for size 25, 32, and 40 sliding bearings (Refer to the
- Construction" on the Web Catalog.)
- Produced upon receipt of order (Robotic cable only) The standard cable should only be used on fixed parts. *7
- For use on moving parts, select the robotic cable. Refer to the **Web Catalog** if only the actuator cable is required. *8 For details on controllers/drivers and compatible motors, refer to the

▲Caution

[CE/UKCA-compliant products]

- ① EMC compliance was tested by combining the electric actuator LEY series and the controller LEC/JXC series.
- The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify compliance with the EMC directive for the machinery and equipment as a whole.
- 2 For the incremental (servo motor 24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the Web Catalog for the noise filter set. Refer to the LECA series Operation Manual for installation.

[UL-compliant products (For the LEC series)]

When compliance with UL is required, the electric actuator and controller/ driver should be used with a UL1310 Class 2 power supply.

Battery-less Absolute (Step Motor 24 VDC)

Guide Rod Type Secondary Battery Compatible **25A-LEYG Series** 25A-LEYG16, 25, 32, 40 'A

* For details, refer to the Web Catalog.

RoHS

For details on controllers, refer to the next page.

How to Order

EB

25A-LEYG 25 M

Series compatible with secondary batteries



\frown

M Sliding bearing	
L Ball bushing bearing	

Motor mounting position/Motor cove	r direction
------------------------------------	-------------

50

C

Symbol	Motor mounting position	Motor cover direction	
Nil	Top side parallel	—	
D		*2	
D1		Left*3	
D2	In-line	Right* ³	
D3		Top*3	
D4		Bottom*3	

4 Motor type

CD1

R1

9

Е

Battery-less absolute (Step motor 24 VDC)

D

• Lead [mm]			
Symbol	LEYG16	LEYG25	LEYG32/40
Α	10	12	16
В	5	6	8
С	2.5	3	4

6 Stroke^{*4 *5} [mm]

Olloke		[]	
Stroke	Note		
	Size	Applicable stroke	
	30 to 200 16 30, 50, 100, 150, 2		30, 50, 100, 150, 200
	30 to 300	25/32/40	30, 50, 100, 150, 200, 250, 300

0	Motor	option*6
---	-------	----------

C With motor cover	
W With lock/motor cover	

B Guide option*7

Nil	il Without option	
F With grease retaining function ^{*1}		
*11 Only applicable for sizes 25, 32, and 40		

with the sliding bearing

3

9 Actuator cable type/length

Robotic	cable		[m]
Nil	None	R8	8* ⁸
R1	1.5	RA	10 ^{*8}
R3	3	RB	15* ⁸
R5	5	RC	20*8

Solid state auto switches should be ordered separately. Click here for auto switch details.

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

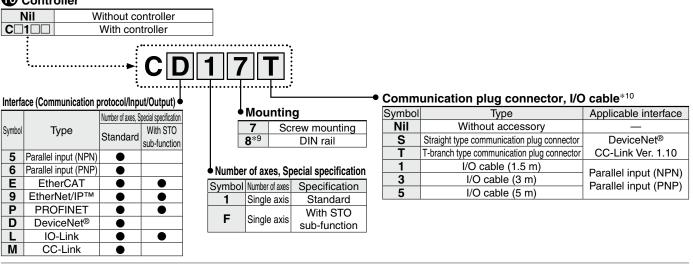
Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g)
Guide rod	GR-D-010 (10 g)



- * Copper and zinc materials are used for the motors, cables, controllers/drivers.
- * The 25A- series specifications and dimensions are the same as those of the standard model.

Guide Rod Type 25A-LEYG Series Battery-less Absolute (Step Motor 24 VDC) Secondary Battery Compatible



- *1 When [M: Sliding bearing] is selected, the maximum speed of lead [A] is 400 mm/s (at no-load, horizontal mounting). The speed is also restricted with a horizontal/moment load. Refer to the "Model Selection" on the Web Catalog.
- *2 Sizes 25, 32, and 40 only
- *3 Size 16 only
- *4 Please contact SMC for non-standard strokes as they are produced as special orders.
- *5 There is a limit for mounting size 16/32/40 top side parallel motor types and strokes of 50 mm or less. Refer to the dimensions. *6 When "With lock/motor cover" is selected for the top side parallel motor

▲Caution

[CE/UKCA-compliant products]

EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.

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

[Precautions relating to differences in controller versions]

When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the Web Catalog.

[UL certification]

The JXC series controllers used in combination with electric actuators are UL certified.

- type, the motor body will stick out from the end of the body for size 16 with strokes of 50 mm or less and size 40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
- Only available for size 25, 32, and 40 sliding bearings (Refer to the "Construction" on the Web Catalog.)
- Produced upon receipt of order The DIN rail is not included. It must be ordered separately. *8
- *9 Select "Nil" for anything other than DeviceNet®, CC-Link, or parallel *10 input.

Select "Nil," "S," or "T" for DeviceNet[®] or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

The actuator and controller are sold as a package. Confirm that the combination of the controller and actuator is correct. <Check the following before use.>

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

LEYG25MEB-100 INPN 0 \bigcirc

Refer to the Operation Manual for using the products. Please download it via our website: https://www.smcworld.com

					·						
	Step data input type	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet [®] direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
Туре											
Series	JXC51 JXC61	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	Parallel I/O	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet [®] direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor		Battery-less absolute (Step motor 24 VDC)									
Max. number of											
step data		64 points									
Power supply voltage						24 VDC					

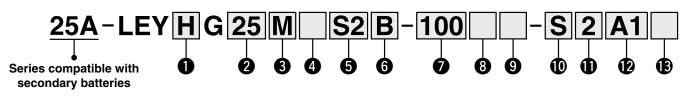
AC Servo Motor LECS Series

Guide Rod Type Secondary Battery Compatible

25A-LEYG Series 25A-LEYG25, 32

LECY□ Series ▶ p. 314-8

How to Order



🚺 Ac	curacy	2 Size	Bea	3 Bearing type			
Nil	Basic type	25	M	Sliding bearing			
Н	High-precision type	32	L	Ball bushing bearing			

5 Motor type^{*1}

Symbol	Туре	Output [W]	2 Size	Driver type	Compatible drivers ^{*3}
S2*1	AC servo motor	100	25	A1/A2	LECSAD-S1
S3	(Incremental encoder)	200	32	A1/A2	LECSAD-S3
		100	25	B2	LECSB2-T5
T6 *2	AC servo motor (Absolute encoder)			C2	LECSC2-T5
				S2	LECSS2-T5
				B2	LECSB2-T7
T7		200	32	C2	LECSC2-T7
				S2	LECSS2-T7

8 Motor option

Cable length^{*1} [m]

Nil

В

Nil

2

5

Α

A	Lead [mm]	
	Lead Immi	

Nil

D

Symbol	LEYG25	LEYG32*1					
Α	12	16 (20)					
В	6	8 (10)					
C 3 4 (5)							
1. The volues shown in () are the leads for the							

4 Motor mounting position

Top side parallel

In-line

*1 The values shown in () are the leads for the size 32 top side parallel motor type. (Equivalent leads which include the pulley ratio [1.25:1])

*1 For motor type S2, the compatible driver part number suffix is S1.

*2 For motor type T6, the compatible driver part number is LECS^{2-T5}.

*3 For details on the driver, refer to the Web Catalog.

Stroke [mm]

30	30					
to	to					
300	300					

* For details, refer to the applicable stroke table below. * There is a limit for mounting the size 32 top side parallel motor type and strokes of 50 mm

or less. Refer to the dimensions.

Cable type*1 *2

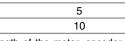
Nil	Without cable			
S	Standard cable			
R	Robotic cable			

- *1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
- *2 Standard cable entry direction is Top side parallel: (A) Axis side
 - · In-line: (B) Counter axis side
 - (Refer to the Web Catalog for details.)

Applicable Stroke Table

								. Otaridara
Stroke Model	30	50	100	150	200	250	300	Manufacturable stroke range
LEYG25	•	•		\bullet	•			15 to 300
LEYG32	•	ullet			ullet			20 to 300

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



Without option

With lock

Without cable

2

Standard

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

9	Guide	option

Nil	Without option		
F With grease retaining function			
*1 Only available for sliding bearings			

Replacement Parts/Grease Pack

Applied portion	Order no.				
Piston rod Guide rod	GR-D-005 (5 g) GR-D-010 (10 g)				

Solid state auto switches should be ordered separately. Click here for auto switch details.

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

- * Copper and zinc materials are used for the motors, cables, controllers/drivers.
- * The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.



Guide Rod Type 25A-LEYG Series AC Servo Motor Secondary Battery Compatible





Motor mounting position: Parallel

Motor mounting position: In-line

Driver type*1

\sim	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
A1	LECSA1-S	100 to 120
A2	LECSA2-S	200 to 230
B2	LECSB2-T	200 to 240
C2	LECSC2-T	200 to 230
S2	LECSS2-T	200 to 240

*1 When a driver type is selected, a cable is included. Select the cable type and cable length. Example)

S2S2: Standard cable (2 m) + Driver (LECSS2)

S2: Standard cable (2 m) Nil: Without cable and driver

B I/O cable length [m]*1

Nil	Without cable
н	Without cable (Connector only)
1	1.5

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if an I/O cable is required.

Compatible Driv	vers			
Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	type
Series	LECSA	LECSB-T	LECSC-T	LECSS-T
Number of point tables	Up to 7	Up to 255	Up to 255 (2 stations occupied)	
Pulse input	0	0	_	—
Applicable network	—	—	CC-Link	SSCNET Ⅲ/H
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)

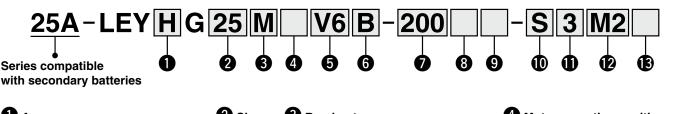
AC Servo Motor LECY Series

Guide Rod Type Secondary Battery Compatible 25A-LEYG Series 25A-LEYG25, 32 (E

LECS⊡ series ▶p. 314-6

details, refer to the Web Catalog.

How to Order



U Ac	curacy	2	Size	6	Bea	aring type
Nil	Basic type	2	25		М	Sliding bearing
Н	High-precision type	3	32		L	Ball bushing bearing

4 Motor mounting position					
Nil Top side parallel					
D	In-line				

5 Motor type

Symbol	Туре	Output [W]	2 Size	Driver type	Compatible drivers
V6*1	V0*1	100	25	M2	LECYM2-V5
	AC servo motor			U2	LECYU2-V5
V7	(Absolute encoder)	000	32	M2	LECYM2-V7
V7		200	32	U2	LECYU2-V7

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

6 Lead [mm]

Symbol	LEYG25	LEYG32*1
Α	12	16 (20)
В	6	8 (10)
С	3	4 (5)

*1 The values shown in () are the leads for the top side parallel motor type. (Equivalent leads which include the pulley ratio [1.25:1])

9 Guide option					
Nil Without option					
F With grease retaining function					

* Only available for the sliding bearing

Stroke [mm]

30	30			
to	to			
300	300			

* For details, refer to the applicable stroke table below.

* There is a limit for mounting the size 32 top side parallel motor type and strokes of 50 mm or less. Refer to the dimensions.

Cable type*1

-	
Nil	Without cable
S	Standard cable
R	Robotic cable

*1 A motor cable and encoder cable are included with the product.

The motor cable for lock option is included when the motor with lock option is selected.

Applicable Stroke Table •: Standard								
Stroke [mm]		50	100	150	200	250	300	Manufacturable stroke range
LEYG25	•			•			•	15 to 300
LEYG32	•		•			•		20 to 300

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

Replacement Parts/Grease Pack

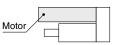
Applied portion	Order no.
Piston rod	GR-D-005 (5 g)
Guide rod	GR-D-010 (10 g)



Motor option

Nil	Without option			
В	With lock			

* When "With lock" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 25 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.



Cable length [m]*1

Nil	Without cable
3	3
5	5
Α	10
С	20

*1 The length of the motor and encoder cables are the same. (For with lock)

Solid state auto switches should be ordered separately. Click here for auto switch details.

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

- * Copper and zinc materials are used for the motors, cables, controllers/drivers.
- The 25A- series specifications and dimensions are the same as those of the standard model.







Motor mounting position: Parallel

Motor mounting position: In-line

Driver type

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V	200 to 230

* When a driver type is selected, a cable is included. Select the cable type and cable length.

B I/O cable length [m]*1

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

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the Web Catalog if an I/O cable is required.

Compatible Drivers

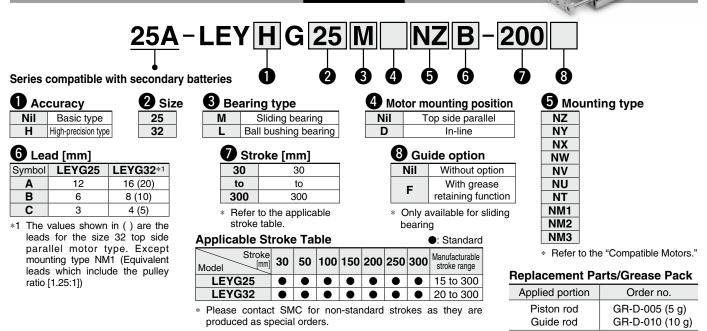
Driver type	MECHATROLINK- II type	MECHATROLINK-III type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-II	MECHATROLINK-III
Control encoder		olute encoder
Communication device	USB communication, I	RS-422 communication
Power supply voltage [V]	200 to 230 V	AC (50/60 Hz)





Electric Actuator Guide Rod Type Secondary Battery Compatible 25A-LEYG Series 25A-LEYG25, 32

How to Order



Compatible Motors and Mounting Types*4

Applicable moto	or model							Size/N	<i>l</i> lountin	g type						
Manufacturer	Series			2	5							32				
wanulacturer	Series	NZ	NY	NX	NM1	NM2	NM3	NZ	NY	NX	NW	NV	NU	NT	NM1	NM2
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	•	—	_	_	_	—	•	—	-	—	—	—	—	—	—
YASKAWA Electric Corporation	Σ-V/7/X	● *3	_	_	_		—	•	—	-	—	_	_	-	_	-
SANYO DENKI CO., LTD.	SANMOTION R	•	_	_	_	_	_	•	_	_	_	_	_	—	_	—
OMRON Corporation	OMNUC G5/1S		_	_		—	_	—	•	—	_	—		—	_	
Panasonic Corporation	MINAS A5/A6	(MHMF only)	•	_	_	_	_	—	•	—		_	_	_	_	_
FANUC CORPORATION	βis (-B)	•	_	_	_	_	_	(β1 only)	_	_	•	_	_	_	_	-
NIDEC SANKYO CORPORATION	S-FLAG	•	_	_	_	_	_	•	_	—	_	—	_	_	_	_
KEYENCE CORPORATION	SV/SV2	●*3	_	_	_	_	_				_	—	_	_	_	
FUJI ELECTRIC CO., LTD.	ALPHA7		_	_	_	—	_		_	—		—	_	—	_	_
MinebeaMitsumi Inc.	Hybrid stepping motors	—	—	—	•*1	—	●*2	—	_	—		—	—	—		
Shinano Kenshi Co., Ltd.	CSB-BZ	_	_	—	●*1	-	●*2	_	_	—		_	_	—	—	—
ORIENTAL MOTOR Co., Ltd.	α STEP AR/AZ	_	_	_	_	AR/AZ (46 only)	_	_	_	_	_	_	_	_	_	•
FASTECH Co., Ltd.	Ezi-SERVO	—	_	_		—	_	—		—		—	_	—	•	
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/ TL	(TL only)	_	_	_	_	—	—	_	●*1 (MP/VP only)		—	_	(TL only)	_	_
Beckhoff Automation GmbH	AM 30/31/80/81	•	_	_	_	_	_	_	_	•*1 (AM80/AM81 only)	_	●*1 (AM30 only)	(AM31 only)	_	_	_
Siemens AG	SIMOTICS S-1FK7	—	_	•	_	—	_	—	_	●*1	_	—	_	—	_	_
Delta Electronics, Inc.	ASDA-A2			—	—	—	_		_	—	_	—		—	—	
ANCA Motion	AMD2000			—	—	—	_		_	—	_	—	_	—	_	

*1 Motor mounting position: In-line only *2 Motor mounting position: Parallel only

*3 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.

*4 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

Solid state auto switches should be ordered separately. Click here for auto switch details. 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.



SMC

25A- Series Applicable Auto Switches

Applicable Cylinder Series

				Auto	switches	6										Air	cylind	ers					
					Electrical		Lead	wire le	onath (m]	Pre-wired		CD(B)J2	CD	85	CDM2			MDB	C/PI96SD	CDA2	CDS2	
Type	Special	1	Indicator	Wiring	entry	Auto switch					connector	CD012	CDJ2K	00	00	CDWE	00(1	5)01		U(F)3005	CDAL	0002	
. , ,	function	entry	light	(Output)	direction		0.5 Nil			ົ່		ø4 to ø16	ø10, ø16	ø 8 to ø12	ø16 to ø25	ø20 to ø40	ø20 to ø63	ø 80 , ø100	ø32 to ø100	ø32 to ø125	ø40 to ø100	ø125 to ø160	
				3-wire (NPN)		D-M9N-900				2	_	•	•	•	•	•	•		•	•	•	•	
				3-wire (PNP)		D-M9P-900	•	•		5 D	_	•	•	•	•	•	•	_	•	•	•	•	
				2-wire		D-M9B-900	•	-		D C	_	•	•	•	•	•	•		•	•	•	•	
	—			3-wire (NPN)		D-M9NV-900	•	•		5 0	_	•	•	•	•	•	•	_	•	•	•	•	
					Perpendicular	D-M9PV-900	•	•		5 C	_	•	•	•	•	•	•	_	•	•	•	•	
				2-wire		D-M9BV-900	•	•		5 D	_	•	•	•	•	•	•	_	•	•	•	•	
				3-wire (NPN)		D-M9NW-900	•	-		5 D	_	•	•	•	•	•	•	_	•	•	•	•	
				3-wire (PNP)	In-line	D-M9PW-900	•	•		5 C	_	•	•	•	•	•	•	_	•	•	•	•	
	Diagnostic			2-wire		D-M9BW-900		•		Ъ	0		•	•	•		•	_	•	•		•	
	indication			3-wire (NPN)		D-M9NWV-900	•	•		5	_	•	•	•	•	•	•	_	•	•	•	•	
	(2-color indicator)				Perpendicular	D-M9PWV-900	•	•		D C	_	•	•	•	•	•	•	_	•	•	•	•	
				2-wire		D-M9BWV-900		•		5 D	0	•	•	•	•	•	•	_	•	•	•	•	
				3-wire (NPN)		D-Y59A-900	•	_		5 D	_	_	_	_	_	_	_	_	_	_	_	_	
				3-wire (PNP)		D-Y7P-900	•			D C	_	_	_	_	_	_	_	_		_		_	
				2-wire		D-Y59B-900	•			5 5	_	_	_	_	_	_	_	_	_	—	_	_	
	—			3-wire (NPN)		D-Y69A-900	•	_		5	_	_	_	_	_	_	_	_	_	_		_	·
					Perpendicular	D-Y7PV-900	•	_		- 	_	_	_	_	_	_	_	_	_	_	_	_	
				2-wire		D-Y69B-900	•			5	_	_	_	_	_	_	_	_		_		_	
				3-wire (NPN)		D-Y7NW-900	•	_		5 C	_	_	_	_	_	_	_	_	_	_	_	_	
				3-wire (PNP)		D-Y7PW-900	•	_		5 D	_	_	_	_	_	_	_	_	_	_		_	
Solid	Diagnostic			2-wire		D-Y7BW-900	•	_		5	_	_	_	_	_	_	_					_	
state	indication			3-wire (NPN)		D-Y7NWV-900	•	_		5 C	_	_	_	_	_	_	_	_	_	_	_	_	
auto	(2-color indicator)	Grommet	Yes			D-Y7PWV-900		_		ЪŤ	_	—	_	_	_	_	_	_		_	_	_	
switch				2-wire		D-Y7BWV-900	•	_		2	_	_	_	_	_	_	-	—	—	-	_	_	
				3-wire (NPN)		D-G59-900	•	_		D C	_	_	_	_	_	_	_		—	-	_	_	
	_			3-wire (PNP)		D-G5P-900	\bullet	_		Ъ	_	—	_	_	_	_	_	•	—	—	—	—	
				2-wire	ا مر ا	D-K59-900	\bullet	_	•	D	_	_	_	_	_	_	_	•	_	-	_	_	
	Diagnostic			3-wire (NPN)	In-line	D-G59W-900	\bullet	_	•	D	_	—	—	—	_	—	_	•	—	—	—	_	
	indication			3-wire (PNP)		D-G5PW-900	\bullet	_	•	5	_	—	_	_	_	_	_	•	—	-	—	_	
	(2-color indicator)			2-wire		D-K59W-900		_	•	С	0	—	_	—	_	_	_	•	—	-	—	_	
				3-wire (NPN)		D-F79-900		_	•	С	_	—	_	—	_	_	_	_	_	—	_	_	
				3-wire (PNP)	In-line	D-F7P-900		_	•	С	—	—	—	—	_	—	_		_	—	—	—	
				2-wire		D-J79-900		_	•	С	_	—	_	—	_	—	_	—	—	-	—	_	
	_			3-wire (NPN)		D-F7NV-900		_	•	С	—	—	_	—	_	_	_	_	_	_	—	—	
				3-wire (PNP)	Perpendicular	D-F7PV-900	ullet	_	•	С	_	—	_	_	_	_	_	—	—	—	—	_	·
				2-wire		D-F7BV-900		_	•	С	_	—	_	_	_	_	_	—	_	—	—	_	· <u> </u>
				3-wire (NPN)		D-F79W-900	ullet	_	•	С	—	—	—	—	_	—	—	_	_	—	—	—	·
	Diagnostic			3-wire (PNP)		D-F7PW-900	ullet	_	•	С	_	_	_	—	_	—	_	_	—	—	—	_	
	indication			2-wire		D-J79W-900	\bullet		•	С	—	—	—	—	_	—	—	—	—	—	—	—	
	(2-color indicator)			3-wire (NPN)		D-F7NWV-900	\bullet	_	•	С	—	—	—	—	_	—	—	_	_	_	—	—	·
				2-wire		D-F7BWV-900	\bullet	_	•	С	_	—	—	—	_	_	_	—	—	—	—	—	·
				3-wire (NPN)	Perpendicular		ullet	_	•	С	—	—	_	—	—	—	_	—	—	—	—	_	
	—			3-wire (PNP)		D-F8P-900	ullet	_	•	С	—	—	—	—	_	—	—	—	_	—	—	—	·
				2-wire		D-F8B-900	ullet	_	•	С	_	—	_	—	_	—	_	—	—	—	—	—	
			Yes			D-A93L-900	—	_	• -	_	—	● *1		—	۲			—					
	—		No	2-wire		D-A90L-900	—	_	• -	_	—	●*1		—				—					
Reed		Grommet				D-Z80-900	—	_	• -	_	—	—	—	—	_	—	—	—	—	—	—	—	
auto switch		Gronmet	Yes	3-wire (NPN equiv.)		D-E76A	\bullet	_	• -	_	—	—	—	—	—	—	_	—	—	—	—	—	
SWITCH	_		res	Queiro		D-E73A	ullet	_	• -	_	_	—	_	_	_	_	_	—	—	—	—	—	·
			No	2-wire		D-E80A		_	• -	-	_	—	_	—	_	—	_	—	—	—	—	_	
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*1 The D-A90L-900 and D-A93L-900 cannot be mounted on ø4. * Solid state auto switches marked with a "O" are produced upon receipt of order.

Ordering the Auto Switches

Please be aware that the order part numbers for the cylinder mounted and individua (Example) Part number for ordering D-M9BWL-900:	al auto switches are different.	
Cylinder mounted type: 25A-CDJ2L16-60Z-M9BWL-B	* Lead wire length symbols: 0.5 mNil	(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 table	e above.) 5 m Z	(Example) M9NWZ



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				r	mpact	-										1		inders					
C95SI	CDU	UCDU	CDUK	CDQS(W)	CDQ	2(W)	CDE	BQ2	MDU	CD55		MY1B	5	MY	'1M	MY	10	МҮ1Н	MY2C	MY2H/HT	MY3	CY	3R
ø160, ø20	00 ø6 to ø2	0 ø10 to ø32	ø16 to ø32	ø12 to ø25	ø12 to ø100	ø125 to ø200	ø 20 , ø 25	ø32 to ø100	ø25 to ø63	ø20 to ø100	ø16 to ø40	ø 50	ø 63	ø16, ø20	ø25 to ø63	ø16, ø20	ø25 to ø63	g16 to ø40	ø16, ø25, ø40	o16, o25, o40	ø16 to ø63	ø6 to ø20	ø25 to
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25A- Series

Applicable Cylinder Series

				A	uto switches					
	I I				Electrical		Lood wir	re length [m]	Pre-wired	
Туре	Special	Electrical	Indicator	U U	entry	Auto switch model			- connector	
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	1			3-wire (NPN)		D-M9N-900		● C		
		1	+	3-wire (PNP)	In-line	D-M9P-900	• •	• •		
		1	+	2-wire	+	D-M9B-900	• •	• 0	_	
	-	1	+	3-wire (NPN)	+	D-M9NV-900	• •	• 0		
		1	1 1	. ,	Perpendicular		• •	• 0	_	
		1	1 1	2-wire	1 1	D-M9BV-900	• •	• 0		
		1	1 1	3-wire (NPN)		D-M9NW-900	• •	• 0	_	
		1	1	3-wire (PNP)	In-line	D-M9PW-900	• •	• 0	_	
	Diagnostic	1	1	2-wire	1	D-M9BW-900	• •	• 0	0	
	indication	1	r	3-wire (NPN)		D-M9NWV-900	• •	• 0	_	
	(2-color indicator)	1	1	3-wire (PNP)	Perpendicular	D-M9PWV-900	• •	• 0	-	
		1	1	2-wire	1	D-M9BWV-900	• •	• 0	0	
		1	1	3-wire (NPN)	1	D-Y59A-900	• –	• 0	_	
		1	1	3-wire (PNP)	In-line	D-Y7P-900	• –	• 0	-	
		1	1	2-wire	í [[]	D-Y59B-900	• -	• 0	<u> </u>	
	-	(1 1	3-wire (NPN)	· · ·	D-Y69A-900	• –	• 0	—	
		1	1	3-wire (PNP)	Perpendicular	D-Y7PV-900	• –	• 0	_	
		1	1 1	2-wire	í [[]	D-Y69B-900	• –	• 0	—	
		1	1	3-wire (NPN)		D-Y7NW-900	• –	• 0	_	
	Discretio	(1 1	3-wire (PNP)	In-line	D-Y7PW-900	• –	• 0	—	
	Diagnostic indication	1		2-wire	[]	D-Y7BW-900	• -	• 0	—	
Solid state	(2-color indicator)	Grommet	Yes	3-wire (NPN)		D-Y7NWV-900	• –	• 0	<u>† </u>	<u> </u>
auto switch		Giommer	165	3-wire (PNP)	Perpendicular		• –	• 0	—	
		1	1 1	2-wire	<u> </u>	D-Y7BWV-900	• –	• 0	_	
		1	1 1	3-wire (NPN)	I I	D-G59-900	• –	• 0	—	
	_	1	1 1	3-wire (PNP)	j i	D-G5P-900	• -	• 0	Τ	
		1	1 1	2-wire	In-line	D-K59-900	• –	• 0	—	
	Diagnostic	1	1 1	3-wire (NPN)		D-G59W-900	• –	• 0		
	indication	i	1 1	3-wire (PNP)	j i	D-G5PW-900	• -	• 0		
	(2-color indicator)	1	1 1	2-wire	<u> </u>	D-K59W-900	• –	• 0	0	
		1	1 1	3-wire (NPN)	I	D-F79-900	• –	• 0		
		1	1 1	3-wire (PNP)	In-line	D-F7P-900	• -	• 0	_	
		1	1 1	2-wire		D-J79-900	• –	• 0		
		1	1 1	3-wire (NPN)		D-F7NV-900	• -	• 0		
		1	1 1	3-wire (PNP)	Perpendicular		• -	• 0	_	
		1	1 1	2-wire	<u> </u>	D-F7BV-900	• –	• 0	Γ	<u> </u>
		1	1 1	3-wire (NPN)	!	D-F79W-900	• -	• 0		
l	Diagnostic	i	1 1	3-wire (PNP)	In-line	D-F7PW-900	• –	• 0	_	
l	indication	1	1 1	2-wire	<u> </u>	D-J79W-900	• -	• 0		
l	(2-color indicator)	1	1 1	3-wire (NPN)	j į	D-F7NWV-900	• -	• 0		
l		1	1 1	2-wire	I	D-F7BWV-900	• –	• 0		
		1	1 1		Perpendicular		• -	• 0		
	_	1	1 1	3-wire (PNP)	1 1	D-F8P-900	• -	• 0		
		·'	<u> </u> '	2-wire	ļ!	D-F8B-900	• –	• 0		<u> </u>
		1	Yes	4		D-A93L-900		• -		<u> </u>
	_	1	No	2-wire	In-line	D-A90L-900		• -		
Reed auto		Grommet		 '	ļ!	D-Z80-900		• –		<u> </u>
switch			Yes	3-wire (NPN equiv.)		D-E76A	• -	• -		<u> </u>
	-	1		2-wire	In-line	D-E73A	• -	• -		<u> </u>
		· /	No		<u>ا</u> ا	D-E80A	• –	• –		

Applicable Auto Switches **25A-** Series

			Tab	le cyline	ders						Gui	de cylin	ders				With	Lock	Clar	np/Stop	oper
	МХН	MXS	MXQ 🗆		MXF	MXW	МХР	MGJ	MGP	MGPK	1	CXSJ	CXS	CDI	BXW	CDRPYW		CDNS	МК	RSQ	RSH
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	ø6 to ø20	ø6 to ø25	ø6 to ø25	ø6 to ø25	ø8 to ø20	ø 8 to ø25	ø6 to ø16	ø6, ø10	ø12 to ø100	ø12 to ø50	ø20 to ø50	ø6 to ø32	ø6 to ø32	ø 10	ø16 to ø32	ø10 to ø32	ø32 to ø100	ø125 to ø160	ø12 to ø63	ø12 to ø50	ø 20 , ø32
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25A- Series

Applicable Rotary Actuator Series

				Au	to switches								Rotary a	ctuators	\$
_	Special	Electrical	Indicator	Wiring	Electrical	Auto switch	Lea	ad wire	length	[m]	Pre-wired	MSQA MSQB	MSQ MSZ	MD	SUB
Туре	function	entry	light	(Output)	entry direction	model	0.5 Nil	1 M	3 L	5 Z	connector	10 to 200		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	۲	•	•	0	_	•	•		_
	_			3-wire (NPN)		D-M9NV-900	۲	•	•	0	_	•	•	_	_
				3-wire (PNP)	Perpendicular	D-M9PV-900	۲	•	•	0	_	•	•	_	_
				2-wire		D-M9BV-900	•			0	_	•		—	_
				3-wire (NPN)		D-M9NW-900	•		•	0	—	•		—	-
	Diamantia			3-wire (PNP)	In-line	D-M9PW-900	•		•	0	_	•	\bullet	_	—
	Diagnostic indication			2-wire		D-M9BW-900	•		•	0	0	•		—	—
	(2-color indicator)			3-wire (NPN)		D-M9NWV-900	\bullet		•	0	—	•		—	-
				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	\bullet	-	●	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-color indicator)	Gronner		3-wire (NPN)		D-Y7NWV-900	•		•	0		—		—	
				3-wire (PNP)	Perpendicular		•	-	•	0			_	—	-
				2-wire		D-Y7BWV-900	•		•	0	—		_	—	
				3-wire (NPN)		D-S991-901*1	•		•	0	—			•	
				()		D-S992-901*1			•	0	—	—	_	•	
				3-wire (PNP)	In-line	D-S9P1-901*1	•	-	•	0	—		_	•	-
				()	-	D-S9P2-901*1	•		•	0	—	—		•	
				2-wire		D-T991-901*1	•		•	0				•	
						D-T992-901*1	•		•	0				•	<u> </u>
				3-wire (NPN)		D-S99V1-901*1	•		•	0	—			•	
						D-999V2-901*1	•		•	0				•	<u> </u>
	_			3-wire (PNP)	Perpendicular	D-S9PV1-901*1	•		•	0				•	
				· , ,		D-S9PV2-901*1	•		•	0	—	_		•	
				2-wire		D-T99V1-901*1	•	-	•	0	<u> </u>			•	<u> </u>
						D-T99V2-901*1	•		•	0	—	—	_	•	-
				3-wire (NPN)		D-S791-901*1	•		•	0	<u> </u>		-	_	•
				. ,		D-S792-901*1	•	-	•	0			-	_	•
				3-wire (PNP)	In-line	D-S7P1-901*1	•	-	•	0			-	_	•
						D-S7P2-901*1	•		•	0	<u> </u>			_	•
				2-wire		D-T791-901*1	•		•	0			_	_	•
			V			D-T792-901*1	•		•	0		_	-	_	•
Reed auto	1	Grommet	Yes	2-wire	In-line	D-A93L-900		—		-	—		•	—	-

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Solid state auto switches marked with a "O" are produced upon receipt of order. Note that the individual auto switch with part number of "SDD" and "TDD" have the right-hand-type (DDD1) and the left-hand-type (DDD2). 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 325.

Ordering the Auto Switches

Please be aware that the order part numbers for the rotary actuator mounted and i	ndividual 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 mNil	(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	e 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

														_					
				Αι	uto switche						1	Air grippers							
Туре	Special	Electrical	Indicator	Wiring	Electrical entry	Auto switch		d wire	-		Pre-wired connector	JMHZ2	JMHZ2 -X6900	JMHZ2 -X7460	MHZ2	MHZL2	MHZJ2	MHZJ2 -X6100	MHZL2 -X5955
Type	function	entry	light	(Output)	direction	model	0.5 Nil	1 M	3 L	5 Z		8 to 20	8 to 20	8 to 20	10 to 40	10 to 25	10 to 25		
				3-wire (NPN)		D-M9N-900			•	0	_	•		•	101040	•	•	•	•
				3-wire (PNP)	ł	D-M9P-900	•	•	•	0	_	•		•	•		•		
				2-wire		D-M9B-900	•	•	•	0	_	•	•	•	•	•	•	•	•
	—			3-wire (NPN)		D-M9NV-900	•	•	•	0		•	•	•	•	•	•	•	•
				<i>`</i> /	1	D-M9PV-900	•	•	•	0	_	•	•	•	•	•	•	•	•
				2-wire		D-M9BV-900	•	•	•	0		•	•	•	•	•	•	•	•
		-		3-wire (NPN)		D-M9NW-900	•	•	•	0	_	•	•	•	•	•	•	•	•
				3-wire (PNP)	4	D-M9PW-900	•	•	•	0	_	•	•	•	•	•	•	•	•
	Diagnostic			2-wire	4	D-M9BW-900	•	•	•	0	0	•	•	•	•	•	•	•	•
	indication			3-wire (NPN)		D-M9NWV-900	-	•	•	0		•	•	•	•	•	•	•	•
	(2-color indicator)			. ,		D-M9PWV-900		•	•	0	_	•	•		•		•		•
				2-wire		D-M9BWV-900		•	•	0	0	•	•	•	•	•	•	•	•
		-		3-wire (NPN)		D-Y59A-900	•	_	•	0		-	_		•	•	_	_	_
				3-wire (PNP)	l	D-Y7P-900	•	_	•	0	_		_	_	•	•	_		_
				2-wire	-	D-Y59B-900	•	_	•	0	_	_		_	•	•			_
	—			3-wire (NPN)		D-Y69A-900	•	_	•	0	_	_	_	_	•	•	_		_
				<u> </u>	1	D-Y7PV-900	•	_	•	0	_		_		•	•	_		_
				2-wire		D-Y69B-900	•	_	•	0	_	_			•	•	_		
		-		3-wire (NPN)		D-Y7NW-900	•	_	•	0	_	_	_	_	•	•	_		_
				3-wire (PNP)	4	D-Y7PW-900	•	_	•	0	_	_		_	•	•			_
Solid	Diagnostic			2-wire	4	D-Y7BW-900	•	_	•	0	-		_		•	•	_		
state auto	indication	Grommet	Yes	3-wire (NPN)		D-Y7NWV-900	-	_	•	0		_	_		•	•			
switch	(2-color indicator)				1	D-Y7PWV-900	-	_	•	0	-		_	_	•	•	_		_
				2-wire		D-Y7BWV-900		_	•	0	_	_	_	_	•	•	_		_
		-				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	_	_	_	_	_		_		_
					4	D-T991-901*1	•	_	•	0	_	_	_		_	_	_		_
				2-wire		D-T992-901*1	•	_	•	0	_	_	_	_	_	_	_	_	_
						D-S99V1-901*1	•	_	•	0	_	_	_	_			_		_
				3-wire (NPN)		D-999V2-901*1		_	•	0	_	_	_	_	_	_	_	_	_
						D-S9PV1-901*1	•	_	•	0	_	_	_	_	_	_	_	_	_
	_			3-wire (PNP)	Perpendicular	D-S9PV2-901*1		_	•	0	_	_	_	_	_	_	_		_
						D-T99V1-901*1	•	_	•	0	_	_	_	_	_	_	_	_	_
				2-wire		D-T99V2-901*1	•	_	•	0	_	_	_	_	_	_	_	_	_
						D-S791-901*1	•	_	•	0	_	_	_	_			_	_	
				3-wire (NPN)		D-S792-901*1	•	_	•	0	_	_	_	_	_		_	_	_
						D-S7P1-901*1	•	_	•	0	_		_	_	_		_		_
				3-wire (PNP)	In_lino	D-S7P2-901*1	•	_	•	0	_	_	_	_	_	_	_	_	_
						D-T791-901*1	•	_	•	0			_			_	_	_	_
				2-wire		D-T792-901*1	•	_	•	0		_	_	_	_		_	_	_
Reed auto			Yes			D-A93L-900	-	_	•	_	_	_	_	_	_	_	_	_	_
switch	-	Grommet	No	2-wire	In-line	D-A90L-900		_	•	_	_	_	_	_	_	_	_	_	_
	I	1		I	1				-		1							I	I

Solid state auto switches marked with a "O" are produced upon receipt of order. *

Note that the individual auto switch with part number of "S \square " and "T \square " have the right-hand-type ($\square\square$ 1) and the left-hand-type ($\square\square$ 2). When you order the actuator with two auto switches at the part number of the actuator, one each of the right-hand-type and the left-hand-type are shipped together with the actuator. When the MHZ2-10, MHZL2-10, MHL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper. When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 325.

Ordering the Auto Switches

Please be aware that the order part numbers for the air gripper mounted and inc	dividual 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 mNil	(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 t	able 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.

25A- Series

Applicable Air Gripper Series

Special Electrical Index Wring Electrical Adds Lad switche Entry Entr										_										
function entry lpt Coupul direction mm offel U.S. 1 3 SDPC Cloud 0 (to 40) (to 40) (to 40) (to 40) (to 20) (to 32) (to 32) (to 22) (to					Αι	ito switche	S													
function entry light Coupul direction model NII NI L Z SDPC Clob 40 0 to 40 6 to 20 16 to 22 16 to 25 16 <th< th=""><th>Type</th><th>•</th><th></th><th></th><th>U U</th><th></th><th></th><th></th><th></th><th>0</th><th>• •</th><th></th><th>MHL2-Z</th><th>MHL2</th><th>MHF2</th><th>MHS3 MHS4</th><th>мнѕјз</th><th>MHY2</th><th>MHW2</th></th<>	Type	•			U U					0	• •		MHL2-Z	MHL2	MHF2	MHS3 MHS4	мнѕјз	MHY2	MHW2	
Solid state auto indication switch Bairs (NPM) Diagnostic indication gairs (NPM) switc (NPM) Bairs (NPM) D-M99-900 D-M99-900 D <thd< th=""> D D D</thd<>	, ype	function	entry	light	(Output)	-	model						10 to 40	10 to 40						
Solid state auto indicaton switch Diagnostic indicaton closter (RP) 3-wire (RP) Perpendication 2-wire (RP) In-line D-M9P-900 D-M9P-900 D <t< td=""><td></td><td></td><td></td><td></td><td>3-wire (NPN)</td><td></td><td>D-M9N-900</td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>-</td><td></td><td>•</td><td></td><td></td><td>•</td></t<>					3-wire (NPN)		D-M9N-900					_		-		•			•	
Solid Diagnostic 2-wire D-M9B-900 0 0 - 0 - 0 0 0 0 </td <td></td> <td></td> <td></td> <td></td> <td>. ,</td> <td>In-line</td> <td>D-M9P-900</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>•</td> <td>-</td> <td>•</td> <td></td> <td></td> <td>•</td>					. ,	In-line	D-M9P-900					_		•	-	•			•	
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Solid bidgnostic plagnostic plagnostic poker indication gover indingover indication gover indication gover indication g		—							•	-		_	•	•	-	•	-	•	•	
Solid ator Diagnostic indication Partice (NPN) Strain (NPN) Strai					<u> </u>			•	•	•		_	•	•	•	•	•	•	•	
Diagnostic indication getior indicator 3-wire (NPN) getior (NeX) 0-M9NW-900 0									•	•		_	•	•	•	•	•	•	•	
Diagnostic indication (2-wire 3-wire (PNP) 3-wire (PNP) In-line D-M9BW-900 • • •					3-wire (NPN)			•	•	•		_	•	•	•	•	•	•	•	
Diegnostic ladication (2c/cr indication (2c/cr indint) (2c/cr indication (2c/cr indication (2c/cr indication (2c/cr					. ,				•			_	•	•		•	•	•	•	
Solid biagnostic switch Grommet Yes 		u			2-wire			•	•	•	0	0		•	•	•	•	•	•	
Solid 3-wire (PNP) Pependicular D-M99WV-900 •					3-wire (NPN)				•				•	•	•	•	•	•	•	
Solid state auto swite (NPN) Comment (PNP) 2-wire (PNP) D-M9BWV-900 0		(2-color indicator)			· · ·				-				-	•	-	•	-	•	•	
Solid swire (NPN) 3-wire (NPN) 0-Y59A-900 -									•	-		0	•	•	-	•	•	•	•	
Solid state auto switch Diagnostic (2 obrindator) Grownet Yes Awire (PNP) a-wire In-line D-Y59B-900 In-line D-Y59B-900 In-line In-line D-Y69A-900 In-line In-line <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>•</td><td></td><td></td><td></td><td>•</td><td>_</td><td>_</td><td>_</td><td>_</td><td>•</td></th<>									_	•				•	_	_	_	_	•	
Solid state auto switch Grommet Yes 2-wire 3-wire (NPN) 2-wire D-Y59B-900 0 0					3-wire (PNP)				_	•	0	_	•	•	_	_	_	_	•	
Solid Diagnostic Grommet Yes Bergenductar D-Y7PV-900 Image: Construct of the state autoring the s					2-wire		D-Y59B-900		_	•		_	•	•	_	_	_	_	•	
Solid Diagnostic switch Grommet Yes Bergendicate 3-wire (PNP) Perpendicate D-YF9B-900 Image:		_			3-wire (NPN)		D-Y69A-900		_	٠	0	_		•	_	_	_	_		
Solid state auto switch Diagnostic (2:doi indicator) Grommet Yes 2-wire 2-wire D-Y70W-900 0 0 0 0 0 0 0					3-wire (PNP)	Perpendicular	D-Y7PV-900		_	•		_	•	•	_	_	_	_	•	
Solid state auto switch Diagnostic Indication (2color indication (2color indication) (2color indication (2color indication) (2color indindino) (2color indication) (2color indication) (2color in									_	•	0	_		•	_	_	_	_		
Solid state autor switch Diagnostic indication Grommet Yes 2-wire D-Y7BW-900 -					3-wire (NPN)		D-Y7NW-900	•	_	•	0	_	•	•	_	_	_	_	•	
state auto switch indication (2color indicator) Grommet Yes 2-wire D-Y78/W-900 - 0 0 <th< td=""><td></td><td></td><td></td><td></td><td>3-wire (PNP)</td><td>In-line</td><td>D-Y7PW-900</td><td>•</td><td>_</td><td>٠</td><td>0</td><td>_</td><td>•</td><td>•</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td></th<>					3-wire (PNP)	In-line	D-Y7PW-900	•	_	٠	0	_	•	•	_	_	_	_		
switch 2-colurindicator) 3-wire (NPN) 0-y77WW-900 - 0 0 - 0 <td></td> <td>u</td> <td><u> </u></td> <td></td> <td>2-wire</td> <td></td> <td>D-Y7BW-900</td> <td>•</td> <td>_</td> <td>•</td> <td>0</td> <td>—</td> <td>•</td> <td>•</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>•</td>		u	<u> </u>		2-wire		D-Y7BW-900	•	_	•	0	—	•	•	_	_	_	_	•	
3-wire (PNP) Perpendicular D-Y7PWV-900 - 2-wire			Grommet	Yes	3-wire (NPN)		D-Y7NWV-900		_	•	0	—		•	_	_	_	_		
3-wire (NPN) 3-wire (NPN) 3-wire (NPN) 3-wire (NPN) 2-wire 2-wire 3-wire (NPN) 3-wire (NPN) 2-wire 3-wire (NPN) 3-wire (NPN) <	SWIICH				3-wire (PNP)	Perpendicular	D-Y7PWV-900		_	٠	0	_	•	٠	_	_	_	_		
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							D-S991-901*1		_	٠	0	—	—	_	_	_	_	_	—	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					3-wire (INPIN)		D-S992-901*1		_	٠	0	—	—	_	_	_	_	_	—	
2-wire D-S9P2-901*1 0 -						In line	D-S9P1-901*1		_	٠	0	—	—	_	_	_	_	_	—	
2-wire D-T992-901*1 					3-wire (PNP)	In-line	D-S9P2-901*1		_	٠	0	—	—	_	_	_	_	_	—	
B-1992-901*1 Image: Constraint of the second se					Quuiro		D-T991-901*1			٠	0	—	—	_	_	_	—	—		
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- -					2 wire (NDN)		D-S99V1-901*1			٠	0	—	—	—	—	—	—	—	—	
3-wire (PNP) Perpendicular D-S9PV2-901*1 -					S-WIE (INFIN)		D-999V2-901*1		—	۲	0	—	—	—	—	_		—	—	
2-wire D-599V2-901*1 0 -		_			3-wire (PNID)	Dornondicular			_	•	0	-	—	_	—			—	—	
2-wire D-T99V2-901*1 -									_	•		-		_					—	
B-199V2-901*1 Image: Constraint of the second sec					2-wire				_	•	0	-	—	_	_			_	-	
3-wire (NPN) D-S792-901*1 ● ● ○ — … <th…< th=""> …</th…<>					2-00110				_	٠	0	_	—	_	—	—	—	—	—	
D-S7/92-901*1 ● _ ● ○					3-wire (NIPNI)				_	•	0	_	—	_	—	_	—	—	—	
							D-S792-901*1		_	•	0	-		_					—	
D-S7P2-901*1 ● _ ● ○					3-wire (PND)	In_lino			—	٠		—	—	—	-			—	-	
									—	•	0	—	—	_	—	—	—	—	-	
2-wire D-T791-901*1 ● - ● ○					2-wire				_	•			—	_					-	
□D-1792-901*1 ● _ ● ○					2-00110				_	•	0	-		_	_]				-	
Reed auto	Reed auto	_	Grommet	Yes	2-wiro				—	٠	-	—	—	—	-			—	—	
switch No 2-wire 11-inte D-A90L-900 •	switch			No	2-0016		D-A90L-900	—	_	\bullet	_	—	—	_	_	_	_	_	—	

Solid state auto switches marked with a "O" are produced upon receipt of order.
Note that the individual auto switch with part number of "SDD" and "TDD" have the right-hand-type (DDD) and the left-hand-type (DDD). 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 325.

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 mNil	(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	able 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

				Au	uto switches	6							Electric a	actuators	
-	Special	Electrical	Indicator	Wiring	Electrical	Auto switch	Lea	ad wire	length	[m]	Pre-wired	LEJS	LEKFS	LEY	LEYG
Туре	function	entry	light	(Output)	entry direction	model	0.5 Nil	1 M	3 L	5 Z	connector SDPC	40 to 63	16 to 40	16 to 40	16 to 40
				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	—	•	•	•	•
Solid state		Grommet	Yes	2-wire		D-M9BV-900	•		•	0	—		•	•	
auto switch		Gronninet	res	3-wire (NPN)		D-M9NW-900	•		•	0	—	•	•	•	•
				3-wire (PNP)	In-line	D-M9PW-900	•		•	0	—	•	•	•	
	Diagnostic indication			2-wire		D-M9BW-900	•		•	0	0	•	•	•	•
	(2-color indicator)			3-wire (NPN)		D-M9NWV-900	•		•	0	—		•	•	
(2				3-wire (PNP)) Perpendicular	D-M9PWV-900	•		•	0	_	•	•	•	•
				2-wire		D-M9BWV-900	•		•	0	0	•	•	•	•

 \ast Solid state auto switches marked with a "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.

Ordering the Auto Switches

Individual auto switch: D-M9BWL-900

(Place the order with the part number for auto switch shown in the table above.)

* Lead wire length symbols: 0.5 m......Nii (Example) M9NW 1 m......M (Example) M9NWM

3 m..... L (Example) M9NWL

5 m.....Z (Example) M9NWZ

25A- Series **Auto Switch Mounting**

Band Mounting Type

Applicable cylinder series: 25A-CDJ2, 25A-CDJ2K, 25A-CDBJ2, 25A-CD85, 25A-CDM2, 25A-CDG1, 25A-CDBG1, 25A-MGG Applicable auto switches : D-M9-900, D-M9-W-900, D-M9BWSDPC-900, D-M9BWVSDPC-900, D-A90L-900, D-A93L-900

Auto Switch Mounting Bracket Part Nos.

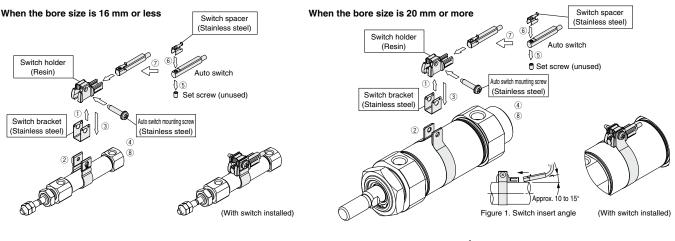
Cylinder					A	pplicable bo	ore size [mm	ר]				
series	8	10	12	16	20	25	32	40	50	63	80	100
25A-CDJ2 25A-CDJ2K 25A-CDBJ2	_	*1 25A-BJ7-010S	_	*1 25A-BJ7-016S	_	_	_	_	_	_	_	—
25A-CD85*4	25A-BJ7-008S	25A-BJ7-010S	25A-BJ7-012S	25A-BJ7-016S	25A-BM6-020S	25A-BM6-025S	—	_	_	_	—	_
25A-CDM2	—	—	—	—	*2 25A-BM6-020S	*2 25A-BM6-025S	*2 25A-BM6-032S	*2 25A-BM6-040S	_	_	—	—
25A-CDG1 25A-CDBG1	—	_	—	—	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	*3 25A-BMA4-063S	_	—
25A-MGG	—	_	—	_	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	_	_	—

*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-DD) and stainless steel screw (BBA4), and the holder set (BJ3-1).

*3 The combination of the auto switch mounting band (for BMA2-DD) and stainless steel screw (BBA4), and the holder set (BJ3-1).

*4 D-A90L-900 and D-A93L-900 auto switches cannot be mounted on bore size ø8, ø10, or ø12 cylinders.

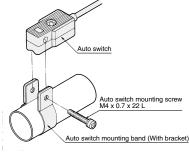


Applicable cylinder series: 25A-CDG1, 25A-CDBG1 Applicable auto switches : D-G5□-900, D-K59-900, D-G5□W-900, D-K59W-900, D-K59WSDPC-900

Auto Switch Mounting Bracket Part Nos.

Cylinder	Applicable bo	ore size [mm]
series	80	100
25A-CDG1 25A-CDBG1	BA-08S	BA-10S

Tie-rod Mounting Type

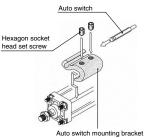


Applicable cylinder series: 25A-MDB, 25A-CDA2, 25A-CDS2, 25A-MDWB, 25A-CDNS, 25A-C96SD, 25A-C95SD Applicable auto switches : D-M9[-900, D-M9[V-900, D-M9[W-900, D-M9]WV-900, D-M9BWSDPC-900, D-M9BWVSDPC-900 : D-A90L-900, D-A93L-900

多SMC

Auto Switch Mounting Bracket Part Nos.

Cylinder				Ap	oplicable be	ore size [m	m]			
series	32	40	50	63	80	100	125	140	160	200
25A-MDB	90-BMB5-032	90-BMB5-032	90-BA7-040	90-BA7-040	90-BA7-063	90-BA7-063	—	—	—	—
25A-C96SD	90-BMB5-032	90-BMB5-032	90-BA7-040	90-BA7-040	90-BA7-063	90-BA7-063	90-BA7-080	—	—	—
25A-CDA2	—	90-BA7-040	90-BA7-040	90-BA7-063	90-BA7-080	90-BA7-080	_	_	_	_
25A-CDS2 25A-CDNS		_	_	_	_	_	25A-BS6-125	25A-BS6-125	25A-BS6-160	_
25A-MDWB	90-BMB5-032	90-BMB5-032	90-BA7-040	90-BA7-040	90-BA7-063	90-BA7-063	—	—	—	—
25A-C95SD	—	_	_	_	_	_	_	—	25A-BS6-160	25A-BS6-160

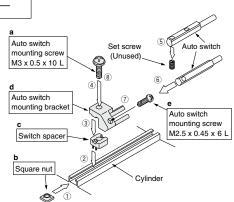


Rail Mounting Type

Applicable cylinder series: 25A-CDBQ2 Applicable auto switches : D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900, D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900, D-A90L-900, D-A93L-900

Auto Switch Mounting Bracket Part No.

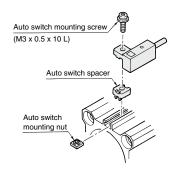
Cylinder			A	pplicable bo	ore size [mm	ו]		
series	20	25	32	40	50	63	80	100
25A-CDBQ2	—	—	2	25A-BQ2-03	2	—	—	—



Applicable auto switches: D-F79-900, D-F7P-900, D-J79-900, D-F7NV-900, D-F7PV-900, D-F7BV-900, D-F79W-900, D-F7PW-900, D-J79W-900, D-F7NWV-900, D-F7BWV-900

Auto Switch Mounting Bracket Part No.

Cylinder			A	Applicable bo	ore size [mm	ו]							
series	20	0 25 32 40 50 63 80 100											
25A-CDBQ2	_	_			25A-	BQ-2							



25A- Series

Direct Mounting Type

Applicable cylinder series : 25A-CDJP2, 25A-MDU, 25A-MY1B, 25A-MY1M,	Auto switch mounting bracket	Auto switch mounting bracket
25A-MY1C, 25A-MY1H, 25A-MY3⊟, 25A-CY3R,	ů	ŭ Y
25A-MGP-Z, 25A-MGP-AZ, 25A-MGPK, 25A-RSH	90-BMG2-012	90-BMG2-012
Applicable air gripper series: 25A-MHZ(L)2, 25A-MHL2, 25A-MHS3, 25A-MHS4		
Applicable auto switches : D-M9 -900, D-M9 V-900, D-M9 W-900,		A AL
D-M9⊟WV-900, D-M9BWSDPC-900,	IR TH	- All
D-M9BWVSDPC-900		
: D-A90L-900, D-A93L-900	Auto switch	Auto switch

Auto Switch Mounting Bracket Part Nos.

Cylinder series						Ap	plicable b	ore size [m	nm]					
Air gripper series	4	6	10	12	15	16	20	25	32	40	50	63	80	100
25A-CDJP2	Not required	Not required	Not required	_	_	Not required	_	_	—	_	_	_	-	—
25A-MDU	_	_	—	_	_	_	_	MUZ-025	MUZ-025	MUZ-025	MUZ-025	MUZ-025	-	_
25A-MY1B	_			_	_	Not required	Not required	BMY3-016	BMY3-016	BMY3-016	_	90- BMG2-012	_	_
25A-MY1M	—	_	_	_	_	Not required	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	_	_
25A-MY1C	_		_	_	_	Not required	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	—	_
25A-MY1H	—	_	_	_	_	Not required	Not required	BMY3-016	BMY3-016	BMY3-016	_	_	_	_
25A-MY3□	—	—	—	—	—	BMY3-016	-	—						
25A-CY3R	_	—	—	_	Not required	_	Not required	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	_	—
25A-MGP-Z 25A-MGP-AZ	—	—	—	Not required	—	Not required	Not required	Not required						
25A-MGPK	—	—	—	Not required	—	Not required	_	-	_					
25A-RSH	—	—	—	—	—	—	90- BMG2-012	—	90- BMG2-012	—	—	_	_	—
25A-MHZ2	—	—	90- BMG2-012	_	—	*1	*1	*1	*1	*1	_	_	_	_
25A-MHZL2	_	_	90- BMG2-012		_	*1	*1	*1	_	_			_	
25A-MHL2	—	—	90- BMG2-012	_	—	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	90- BMG2-012	_	_	_	_
25A-MHS3 25A-MHS4	_	_	_	_	_	Not required	Not required	Not required	90- BMG2-012	_	_	_	_	_

*1 When mounting D-M9 type of auto switch onto the square groove of the side of the air gripper, the auto switch mounting bracket (90-BMG2-012) is required.

Applicable cylinder series : 25A-CDUJ, 25A-MGJ Applicable auto switches : D-F8N-900, D-F8P-900, D-F8B-900

Auto switch mounting brackets are not required.

25A- Series Precautions

Be sure to read this before handling products.

Precautions

ACaution

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 aluminum alloy, aluminum die cast, and some of the stainless steel materials contain traces of copper (Cu) and/or zinc (Zn) as an additive element.

However, copper is used in some parts—the coils of solenoid valves, the circuit boards, connector pins, and lead wires of electrical equipment and auto switches, and the motors, cables, and drivers of electric actuators—whose materials cannot be easily changed to alternative materials.

In addition, some magnets (including the surface treatment) contain copper (Cu) and/or zinc (Zn). However, due to their magnetic characteristics, it is impossible to use alternative materials.

Particle generation (metallic contaminants)

Usage of metal stoppers and/or shock absorbers on an air slide table produces metal-to-metal collision and contact, and may generate wear particles. Do not use metal stoppers and/or shock absorbers in an environment where wear particles are problem.

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

The following models of air gripper may generate dust particles, as metal-to-metal collisions occur when fingers are fully closed.

- · MHZ2
- · MHZL2 (Except -X5955)
- \cdot MHF2
- \cdot MHY2
- \cdot MHW2

Static electricity

Refrain from using the electrical equipments including detection switches (e.g., pressure switches and flow switches) in electrostatically-charged environments. Otherwise, they may cause the system to fail or to malfunction.

Piping

Usage of nylon tubing and polyurethane tubing in environments with a low dew point may affect dew points of ambient air and inside of piping. Use fluoropolymer tubing (TL series) or stainless steel tubing (Supply it on your own) in environments with a low dew point.

Chemical environment

Refrain from using the products in such environments as exposed to chemicals. Otherwise, resin parts may deteriorate. If you want SMC to test the products for the effects of chemicals attached to them, send the products back to SMC after thoroughly cleaning them.

Consult your SMC sales representative for further details.

Trademark

DeviceNet® is a registered trademark of ODVA, Inc.

EtherNet/IP® is a registered trademark of ODVA, Inc.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and the "Operation Manual" before use.

UL Approved Product

≜Caution

When conformity to UL is required, the product should be used with a UL1310 Class 2 power supply.

The product is a UL approved product only if it has a **c Wus** mark on the body.

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Akihabara UDX 15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 Fax: 03-5298-5362 https://www.smcworld.com © 2024 SMC Corporation All Rights Reserved