

Long service life cylinder

Environment-resistant cylinder

Linear Slide Hand

Low-profile long stroke hand

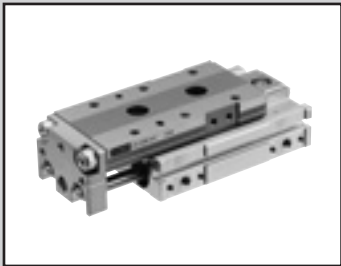
Wide Parallel Hand

Chuck

Air Booster

Compatible with rechargeable batteries

Supports food mfg. processes



Linear slide cylinder Double acting/Single rod

Long service life cylinder

LCG-P4/P40-HP1 Series

● Bore size: $\phi 6/\phi 8/\phi 12/\phi 16/\phi 20/\phi 25$



Specifications

Item		LCG-P4/P40-HP1					
Bore size mm		ø6	ø8	ø12	ø16	ø20	ø25
Actuation		Double acting					
Working fluid		Compressed air					
Max. working pressure MPa		0.7					
Min. working pressure MPa		0.15 (*1)					
Proof pressure MPa		1.05					
Ambient temperature °C		-10 to 60 (no freezing)					
Port size	Main body side	M3	M5			Rc1/8	
	Main body back	M3				M5	Rc1/8
Stroke tolerance mm		+2.0 0 (*2)					
Working piston speed mm/s		50 to 500 (*3)					
Cushion		With rubber cushion					
Lubrication		Not available					
Allowable absorbed energy J		Refer to the following table.					

*1: 0.2MPa when using the $\phi 6$ shock absorber stopper.

*2: Note that there will be a slight gap between the end plate and floating bush if no stopper is attached.

*3: Use the stroke adjusting stopper at 50 to 200mm/s.

*4: The stroke adjusting stopper for 0.3 MPa and over working pressure is the metal sealing type.

Stroke

Bore size (mm)	Standard stroke (mm)
$\phi 6$	10, 20, 30, 40, 50
$\phi 8$	10, 20, 30, 40, 50, 75
$\phi 12$	10, 20, 30, 40, 50, 75, 100
$\phi 16$	10, 20, 30, 40, 50, 75, 100, 125
$\phi 20$	10, 20, 30, 40, 50, 75, 100, 125, 150
$\phi 25$	10, 20, 30, 40, 50, 75, 100, 125, 150

Note: Products with strokes other than the above are not available.

LCG allowable absorbed energy (Eo)

Bore size	Standard (J)	With stroke adjusting stopper (J)	With shock absorber stopper (J)
$\phi 6$	0.025	0.0032	0.14
$\phi 8$	0.058	0.0032	0.25
$\phi 12$	0.112	0.014	0.25
$\phi 16$	0.176	0.043	0.65
$\phi 20$	0.314	0.055	1.3
$\phi 25$	0.314	0.14	1.3

Related products

Speed controller							
Model No.	Appearance	Port size (Rc or R)			Applicable tube bore		
		M3	M5	1/8	4 ($\phi 4$)	6 ($\phi 6$)	8 ($\phi 8$)
SC3W-M3-*P4		●			●		
SC3W-M5-*P4			●		●	●	
SC3W-6-*P4				●	●	●	●

Specify the compatible tube O.D. code for *. Refer to "rechargeable battery compatible Component P4" Series" (No.CC-1226A) for details.

For dimensions, refer to the LCG Series in "Pneumatic Cylinders II (No. CB-030SA)".

LCG-P4/P40-HP1 Series

How to order

How to order (ø6 to ø16)

Without switch (built-in magnet for switch)

LCG - 8 - 40 — S5 P4 P40 — HP1

With switch (built-in magnet for switch)

LCG - 12 - 40 - SW81 - R - A1DT P4 P40 - HP1

Model No.

A Tube
Bore size

B Stroke

C Switch model No.

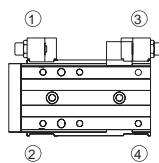
D Switch quantity

E Option

⚠ Precautions for model No. selection

- *1: The port positions of the standard without stopper are ① and ③ in the figure below.
- *2: Combination of the stroke adjusting stopper and shock absorber stopper is made to order.
- *3: Can be selected for the type with stopper only.
- *4: Refer to the selection table below for combinations of options.
- *5: A1**, A2**, A5** and A6** of ø6 to ø8 with 10 mm stroke or less and ø12 to ø16 with 20 mm stroke or less are made to order since adjustment is not possible with the standard stopper.
- *6: Select the F/H type switch when using the two switches for the S*** or A*** type with ø6 to ø8-30st or less.
- *7: The anti-rust type is made to order.
- *8: The stroke adjusting stopper for 0.3 MPa and over working pressure is the metal sealing type.
- *9: When changing the stopper position from the head side to the rod side, the stopper must be purchased separately according to the stroke and adjustable stroke. Refer to "Precautions when purchasing discrete stopper" in Pneumatic Cylinders II (Catalog No.CB-030SA) LCG Series. A1, A2 and adjustable stroke of 15mm and 25mm may not be available depending on the stroke.

● Stopper position



Code	Description
A Bore size	
6	ø6
8	ø8
12	ø12
16	ø16
B Stroke (mm)	
	Bore size (ø)
	6 8 12 16
10	10 ● ● ● ●
20	20 ● ● ● ●
30	30 ● ● ● ●
40	40 ● ● ● ●
50	50 ● ● ● ●
75	75 ● ● ● ●
100	100 ● ● ● ●
125	125 ● ● ● ●
C Switch model No.	
Refer to the compatibility table on pages 210 to 213 for switch model No.	
D Switch quantity	
R	1 on rod side
H	1 on head side
D	2
E Option	
Blank	No option
S Stroke adjusting stopper	
5 mm stroke adjustment on one side *2, *4	
S1**	Stopper position ① (Can be changed to ④)
S2**	Stopper position ② (Can be changed to ③)
S3**	Stopper position ③ (Can be changed to ②) *9
S4**	Stopper position ④ (Can be changed to ①) *9
S5**	Stopper position ①, ③
S6**	Stopper position ②, ④
A Shock absorber stopper	
*2, *4	
A1**	Stopper position ① (Can be changed to ④)
A2**	Stopper position ② (Can be changed to ③)
A3**	Stopper position ③ (Can be changed to ②) *9
A4**	Stopper position ④ (Can be changed to ①) *9
A5**	Stopper position ①, ③
A6**	Stopper position ②, ④
** part	
Blank	Port on stopper: without port
D	Port on stopper: side and bottom ports *3
Blank	Stopper block material: Steel
T	Stopper block material: steel (nitriding) *3
Plug included	
Blank	No
N	With side piping port plug (not available for ø6)

LCG Double acting/Single rod selection table

(Combination with stroke adjusting stopper, shock absorber stopper)

○: Available - : Not available

Model No. code	Option code		Stroke adjusting stopper						Shock absorber stopper					
	Bore size	Stroke	S1	S2	S3	S4	S5	S6	A1	A2	A3	A4	A5	A6
LCG	ø6, ø8	10	○	○	○	○	○	○	-	-	○	○	-	-
		20 or more	○	○	○	○	○	○	○	○	○	○	○	○
	ø12 to ø25	10 to 20	○	○	○	○	○	○	-	-	○	○	-	-
		30 or more	○	○	○	○	○	○	○	○	○	○	○	○

The table above also applies to a combination with option code D (with port on the stopper) or T (steel stopper block (nitriding)).

LCG-P4/P40-HP1 Series

How to order (ø20, ø25)

Without switch (built-in magnet for switch)

LCG - 20 - 40 — S5 U P4 P40 — HP1

With switch (built-in magnet for switch)

LCG - 20 - 40 - SW81 - R - A1DT U P4 P40 - HP1

Model No.

A Tube
Bore size

B Stroke

C Switch model No.

D Switch quantity

E Option

F Anti-rust treatment

⚠ Precautions for model No. selection

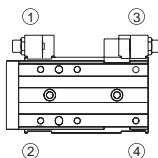
- *1: The port positions of the standard without stopper are ① and ③ in the figure below.
- *2: Combination of the stroke adjusting stopper and shock absorber stopper is made to order.
- *3: Can be selected for the type with stopper only.
- *4: Refer to the selection table below for combinations of options.
- *5: A1 **, A2 **, A5 **, and A6 ** of 20 st or less cannot be adjusted with the standard stopper, so they are made to order.
- *6: The table is alloy steel. To prevent rust, select "U" for an environment where the temperature and humidity are high or condensation may occur on the product surface.
- *7: The stroke adjusting stopper for 0.3MPa and over working pressure is the metal sealing type.
- *8: When changing the stopper position from the head side to the rod side, the stopper must be purchased separately according to the stroke and adjustable stroke. Refer to "Precautions when purchasing discrete stopper" in Pneumatic Cylinders II (Catalog No.CB-030SA) LCG Series. A1, A2 and adjustable stroke of 15 mm and 25 mm may not be available depending on the stroke.

Rust-proof (ø20,25)



Anti-corrosion treatment is applied to the table surface and rail surface to reduce the occurrence of rust in humid environments such as near ionizers.
The table and rail are black.

● Stopper position



Related products

Speed controller

Model No.	Appearance	Port size (Rc or R)			Applicable tube bore		
		M3	M5	1/8	4 (ø4)	6 (ø6)	8 (ø8)
SC3W-M3- *-P4		●			●		
SC3W-M5- *-P4			●		●	●	
SC3W-6- *-P4				●	●	●	●

Specify the compatible tube O.D. code for *. Refer to "Rechargeable battery compatible component P4 * Series" (No.CC-1226A) for details.

Code	Description
A Bore size	
20	ø20
25	ø25
B Stroke (mm)	
10	10
20	20
30	30
40	40
50	50
75	75
100	100
125	125
150	150
C Switch model No.	
Refer to the compatibility table on pages 210 to 213 for switch model No.	
D Switch quantity	
R	1 on rod side
H	1 on head side
D	2
E Option	
Blank	No option
S Stroke adjusting stopper	
5 mm stroke adjustment on one side *2, *4	
S1**	Stopper position ①(Can be changed to ④)
S2**	Stopper position ②(Can be changed to ③)
S3 **	Stopper position ③(Can be changed to ②) *8
S4**	Stopper position ④(Can be changed to ①) *8
S5**	Stopper position ①, ③
S6**	Stopper position ②, ④
A Shock absorber stopper	
*2, *4	
A1**	Stopper position ①(Can be changed to ④)
A2**	Stopper position ②(Can be changed to ③)
A3 **	Stopper position ③(Can be changed to ②) *8
A4**	Stopper position ④(Can be changed to ①) *8
A5**	Stopper position ①, ③
A6**	Stopper position ②, ④
** part	
Blank	Port on stopper: without port
D	Port on stopper: side and bottom ports *3
Blank	Stopper block material: Steel
T	Stopper block material: Steel(Nitriding) *3
Plug included	
Blank	No
N	With side piping port plug (not available for ø25)
F Anti-rust treatment	
Blank	No
U	Rust proof (guide only) *6