

Discontinue

Linear slide cylinder Double acting/single rod

LCW Series

● Bore size: $\phi 12/\phi 16/\phi 20$

JIS symbol 

RoHS

Specifications

Descriptions	LCW		
Bore size mm	$\phi 12$	$\phi 16$	$\phi 20$
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) (*2)		
Port size	M5		
Working piston speed mm/s	50 to 500 (*3)		
Cushion	Rubber cushion		
Lubrication	Not available		
Allowable absorbed energy J	Refer to the following table.		

*1: Use at a pressure of 0.4 MPa and over when using a metal stopper with rubber cushion in order to allow metal contact at the end of the stroke.

*2: Operate at -5 to 60°C when using a shock absorber stopper.

*3: Keep within 50 to 200 mm/s when using a metal stopper with rubber cushion.

Stroke length

Bore size (mm)	Standard stroke length (mm)
$\phi 12$	30/50/75
$\phi 16$	
$\phi 20$	

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

LCW allowable absorbed energy

Bore size (mm)	Rubber cushion (standard) (J)	Metal type with rubber cushion (J)	Shock absorber (J)
$\phi 12$	0.027	0.0053	0.054
$\phi 16$	0.055	0.0053	0.11
$\phi 20$	0.11	0.043	0.22

Adjustable stroke range

(Unit: mm)

Bore size (mm)	Standard rubber cushion				Metal type with rubber cushion				Shock absorber	
	Standard stroke length		Custom stroke compatible (S)		Standard stroke length (M)		Custom stroke compatible (MS)		Standard stroke length (A)	
	PUSH side	PULL side	PUSH side	PULL side	PUSH side	PULL side	PUSH side	PULL side	PUSH side	PULL side
$\phi 12$	10	10	28	10	9	11.5	28	11.5	4	6.5
$\phi 16$	7.5	7.5	25	7.5	6	8.5	25	8.5	1.5	3.5
$\phi 20$	8	8	25	8	7.5	12	25	12	12.5	17

Compatibility table by variation

Applicable bore size		Double acting/ single rod	Double acting/ position locking
			Q
ø12 to 20	P4	▲	▲
	P40	▲	▲
	P41		
	P42		

● : Standard ○ : Made to order ▲ : Contact CKD □ : Not applicable

*1: P4 is not available for shock absorber.

How to order

LCW - 16 - 30 - R - SW81 - R - S P4 P40

Ⓐ Bore size

Ⓑ Stroke length

Ⓒ Piping direction

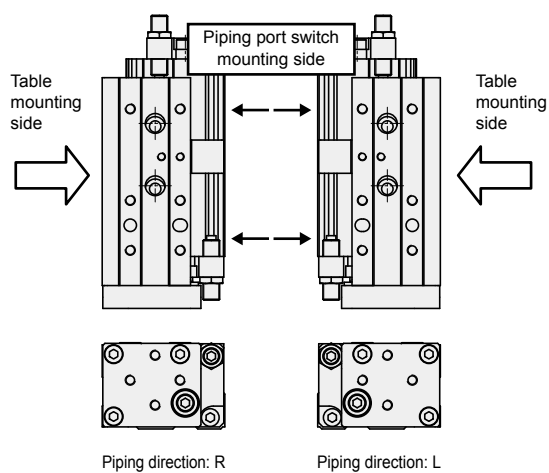
Ⓓ Switch model No.

Ⓔ Switch quantity

Ⓕ Stopper

Code	Content
Ⓐ Bore size (mm)	
12	ø12
16	ø16
20	ø20
Ⓑ Stroke length (mm)	
30	30
50	50
75	75
Ⓒ Piping direction	
R	Right from rod side
L	Left from rod side
Ⓓ Switch model No.	
Refer to the compatibility table on Intro Pages 21 to 24 for switch model No.	
Ⓔ Switch quantity	
R	1 on rod side
H	1 on head side
D	2
Ⓕ Stopper	
Blank	Cushion stopper
S	Rubber cushioned long stopper (custom stroke compatible)
M	Metal stopper with rubber cushion
MS	Long metal stopper with rubber cushion (custom stroke compatible)

*1: Made to order. Contact CKD for details.



Related products

Speed controller										
Model No.	Appearance	Port size (Rc or R)				Compatible tube O.D.				Page
		M5	1/8	1/4	3/8	4(ø4)	6(ø6)	8(ø8)	10(ø10)	
SC3W-M5- *-P4		●				●	●			232

Specify the compatible tube O.D. code for *.