



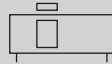
Pneumatic Cylinders I
Catalog No. CB-029SA

Rodless cylinder Double acting

SRL3 Series

- Bore size: $\varnothing 12, \varnothing 16, \varnothing 20, \varnothing 25, \varnothing 32, \varnothing 40, \varnothing 50, \varnothing 63, \varnothing 80, \varnothing 100$ equiv.

JIS symbol



Specifications

Item	SRL3									
	$\varnothing 12$	$\varnothing 16$	$\varnothing 20$	$\varnothing 25$	$\varnothing 32$	$\varnothing 40$	$\varnothing 50$	$\varnothing 63$	$\varnothing 80$	$\varnothing 100$
Bore size mm	$\varnothing 12$	$\varnothing 16$	$\varnothing 20$	$\varnothing 25$	$\varnothing 32$	$\varnothing 40$	$\varnothing 50$	$\varnothing 63$	$\varnothing 80$	$\varnothing 100$
Actuation	Double acting									
Working fluid	Compressed air									
Max. working pressure MPa	0.7									
Min. working pressure MPa	0.2		0.1				0.05			
Proof pressure MPa	1.05									
Ambient temperature °C	5 to 60									
Port size	M5	Rc 1/8		Rc 1/4		Rc 3/8		Rc 1/2		
Stroke tolerance mm	$^{+2.0}_0$ (Up to 1000), $^{+2.5}_0$ (Up to 3000), $^{+3.0}_0$ (Up to 5000)									
Working piston speed mm/s	50 to 2000 (Standard port piping)(*1)									
Cushion	Air cushion									
Lubrication	Not available									

*1: For common port piping, working piston speeds vary depending on stroke length. Contact CKD.

Allowable absorbed energy

Bore size (mm)	Cushioned		Without cushion	Shock absorberwith(Initial set point)	
	Allowable absorbed energy (J)	Cushion stroke (mm)	Allowable absorbed energy (J)	Absorbed energy (J)	Effective Stroke (mm)
$\varnothing 12$ or equiv.	0.03	14.5	0.003	2.4	5.5
$\varnothing 16$ or equiv.	0.22	19.2	0.007	2.4	5.5
$\varnothing 20$ or equiv.	0.59	22.2	0.010	5.7	7
$\varnothing 25$ or equiv.	1.40	20.9	0.015	10	9
$\varnothing 32$ or equiv.	2.57	23.5	0.030	18	13
$\varnothing 40$ or equiv.	4.27	23.9	0.050	50	16.5
$\varnothing 50$ or equiv.	9.13	24.9	0.072	86	21
$\varnothing 63$ or equiv.	17.4	29.6	0.138	86	21
$\varnothing 80$ or equiv.	40	45.8	0.393	143	25
$\varnothing 100$ or equiv.	67	45.8	0.622	143	25

Stroke

Bore size (mm)	Standard Stroke (mm)	Max. Stroke (mm)	Min. Stroke (mm)
$\varnothing 12$ or equiv.	200/300 400/500 600/700 800/900 1000	5000	1
$\varnothing 16$ or equiv.			
$\varnothing 20$ or equiv.			
$\varnothing 25$ or equiv.			
$\varnothing 32$ or equiv.			
$\varnothing 40$ or equiv.			
$\varnothing 50$ or equiv.			
$\varnothing 63$ or equiv.			
$\varnothing 80$ or equiv.			
$\varnothing 100$ or equiv.			

* The custom Stroke is available in 1 mm increments.

Related products

Speed controller												
Model No.	Appearance	Port size (Rc or R)					Compatible tube O.D.					Page
		M5	1/8	1/4	3/8	1/2	4($\varnothing 4$)	6($\varnothing 6$)	8($\varnothing 8$)	10($\varnothing 10$)	12($\varnothing 12$)	
SC3W-M5-*-P4		●					●	●				530
SC3W-6-*-P4			●				●	●	●			
SC3W-8-*-P4				●				●	●	●		
SC3W-10-*-P4					●				●	●	●	
SC3W-15-*-P4						●				●	●	

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

Compatibility table by variation

Applicable bore size		Double acting/standard	Double acting/position locking	Double acting/resin guide	Resin guide/position locking
		P4	Q	G	GQ
ø12 to 100	P4	●	●		
	P40	●	●		

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

Without switch

SRL3 - **00** - **12** **B** - **200** - **B** **P4**
P40

With switch

SRL3 - **00** - **12** **B** - **200** - **SW40** - **R** - **B** **P4**
P40

A Mounting
*1, *2

B Bore size

C Cushion

D Stroke

E Switch model No.

F Switch quantity

Option selection table

●: Available □: Not available

Option	Option																								
	A	A1	A2	A3	Y	Y1	L*	N*	H	U	Blank	R	B	T	D	S	X	Blank	R	B	T	D	S	X	
A	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
A1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
A2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
A3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Y	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Y1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
L*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
N*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
H	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
U	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Blank	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
R	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
T	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

*1: Some combinations are not available depending on the bore size. Be sure to check the **C** Option in "How to order".
*2: LB1 with port position D is not possible. (ø25, ø32)

Code	Description
A	Mounting
00	Basic
LB	Axial foot
LB1	Axial foot (ø12 to ø32 only)

B Bore size (mm)	
12	ø12
16	ø16
20	ø20
25	ø25
32	ø32
40	ø40
50	ø50
63	ø63
80	ø80
100	ø100

C Cushion	
B	Both sides cushioned
R	R side cushioned
L	L side cushioned
N	Without cushion

D Stroke (mm)		
Bore size	Stroke	Custom Stroke
ø12 to ø100	1 to 5000	In 1 mm increments

E Switch model No.	
Refer to the compatibility table on Intro Pages 23 to 26 for switch model No.	

F Switch quantity	
R	1 on R side
L	1 on L side
D	2
T	3
4	4 (when there are more than 4 switches, indicate switch quantity.)

G Option		Bore size (ø)											
		12	16	20	25	32	40	50	63	80	100		
A	Both-side full Stroke adjustable, With shock absorber	●	●	●	●	●	●	●	●	●	●	●	●
A1	Full Stroke adjustable (R/L side only), With shock absorber	●	●	●	●	●	●	●	●	●	●	●	●
A2	Full Stroke adjustable (T/L side only), With shock absorber	●	●	●	●	●	●	●	●	●	●	●	●
A3	Full stroke adjustable with retrofitting adjusting bracket	●	●	●	●	●	●	●	●	●	●	●	●
Y	Floating fitting	●	●	●	●	●	●	●	●	●	●	●	●
Y1	Thin floating fitting	●	●	●	●	●	●	●	●	●	●	●	●
L*	Intermediate support bracket (for 00, LB)	●	●	●	●	●	●	●	●	●	●	●	●
N*	Intermediate support bracket (for LB1)	●	●	●	●	●	●	●	●	●	●	●	●
H	Larger thread for table installation	●	●	●	●	●	●	●	●	●	●	●	●
U	Height adjustment plate	●	●	●	●	●	●	●	●	●	●	●	●
Blank		●	●	●	●	●	●	●	●	●	●	●	●
R	Port position : F (Standard)	●	●	●	●	●	●	●	●	●	●	●	●
B	Port position : R (Common port)	●	●	●	●	●	●	●	●	●	●	●	●
T	Port position : F (Common port)	●	●	●	●	●	●	●	●	●	●	●	●
D	Port position : D	●	●	●	●	●	●	●	●	●	●	●	●
S	Port position : S	●	●	●	●	●	●	●	●	●	●	●	●
X	Port position : X	●	●	●	●	●	●	●	●	●	●	●	●

⚠ Precautions for model No. selection

- *1: Mounting bracket will be shipped assembled with the product.
- *2: For 12, 16, 20, 25 and 32 bore sizes with option code "R" or "T", the mounting type will be "00" or "LB1". (Piping with "LB" is not possible for option codes "R" and "T".)
- *3: "*" of L* and N* indicates the number of sets. When more than one set are necessary, specify "L2" (for LB) or "N2" (for LB1). 2 pcs./set
- *4: In the case of the standard with ø12 to ø25, remove the cover, attach a flat nut and install the full stroke length adjusting bracket. A flat nut is attached to option "A3" to enable retrofitting the full stroke length adjusting bracket without removing the cover.
- *5: In "H", the thread size for ø12 and ø16 will be "M4" and that for ø20 will be "M5".
- *6: Check the option combinations in "Option selection table".

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