



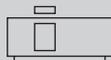
Pneumatic Cylinders I  
Catalog No. CB-029SA

Rodless cylinder

# SRL3-FP1 Series

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

JISCode



## 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										
Actuation	Double acting									
Working fluid	Compressed air									
Max. working pressure MPa	0.7									
Min. working pressure MPa	0.2 (0.25) *2			0.1 (0.15) *2				0.05 (0.1) *2		
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	$^{-2.0}_0$ ( to 1000), $^{+2.5}_0$ ( to 3000), $^{+3.0}_0$ ( to 5000)									
Working piston speed mm/s	50 to 2000 (Standard port piping)(*1)									
Cushion	Air cushion									
Lubrication	Not required									

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

\*2: Values in ( ) are for the resin guide.

\*3: The specifications above are for double acting basic.

Each item differs depending on variation. For details, refer to Pneumatic Cylinders I (CB-029SA).

## Allowable absorbed energy

Bore size (mm)	Cushioned		Without cushion	Shock absorber with (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 length is available in 1 mm increments.



# SRL3-FP1 Series

## Option selection table

●: Available    □: Not available

FP1		Option															
Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	F.R.L./Auxiliary Components Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	FP1						
Option																	
Code	A	A1	A2	A3	Y	Y1	L*	N*	H	U	Blank	R	B	T	D	S	X
Both-side full stroke adjustable, with shock absorber	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Full stroke length adjustable R With shock absorber on side	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Full stroke length adjustable L With shock absorber on side	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Full stroke adjustable with retrofitting adjusting bracket	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Floating fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Thin floating fitting	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Intermediate support bracket (00, LB)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Intermediate support bracket (LB1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Larger thread for table installation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height adjustment plate	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Port position F, Cushion needle position F (Standard)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Port position R, Cushion needle position F (Common port)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Port position F, Cushion needle position B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Port position R, Cushion needle position B (Common port)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Port position D, Cushion needle position F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Port position D, Cushion needle position D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Port position F, Cushion needle position F (Common port)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

\*1: Some combinations are not available depending on the bore size. Be sure to check the ● Option in "How to order" on the previous page.

\*2: LB1 with port position D is not possible. (ø25, ø32)

For dimensions, refer to the SRL3 Series in "Pneumatic Cylinders I (CB-029SA)".