



Compact cylinder double acting/single rod

SSD2 Series

● Bore size: ø12/ø16/ø20/ø25/ø32/ø40/ø50/ø63/ø80/ø100

JIS symbol



Specifications

Item		SSD2 SSD2-L (with switch)									
Bore size mm		ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
Actuation		Double acting									
Working fluid		Compressed air									
Max. working pressure MPa		1.0									
Min. working pressure MPa		0.1							0.05		
Proof pressure MPa		1.6									
Ambient temperature °C		-10 to 60 (no freezing)									
Port size		M5				Rc1/8 *1		Rc1/4		Rc3/8	
Stroke tolerance	With rubber cushion	+2.0 0									
mm	Without cushion	+1.0 0									
Working piston speed mm/s		50 to 500							50 to 300		
Cushion		With or without cushion can be selected									
Lubrication		Not required (use turbine oil class 1 ISO VG32 if lubrication is necessary)									
Allowable absorbed	With rubber cushion	0.03	0.05	0.10	0.16	0.16	0.44	0.75	0.78	2.51	3.92
Energy J	Without cushion	0.004	0.01	0.016	0.021	0.025	0.092	0.1	0.12	0.27	0.56

*1: The ø32 bore size with a 5 mm stroke and without a switch has a port size of M5.

Stroke

Bore size (mm)	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)
ø12	5/10/15/20	30	1
ø16	25/30		
ø20	5/10/15/20/25	50	
ø25	30/35/40/45/50		
ø32	5/10/15/20/25/30/	100	
ø40	35/40/45/50/75/100		
ø50	10/15/20/25 30/35/40/45/50 75/100		
ø63			
ø80			
ø100			

*1: When using the type with switch, refer to the table of the min. stroke with switch.

*2: If the stroke exceeds the max. stroke, refer to the long stroke on page 792.

*3: Refer to pages 763 and 765 for the min. stroke with mounting bracket LB.

Min. stroke with switch (With 2 switches)

Bore size (mm)	T0H/V / T5H/V	T2H/V / T3H/V
ø12	10 (5)	5
ø16		
ø20		
ø25		
ø32		
ø40		
ø50		
ø63		
ø80		
ø100		

1: Less than 10mm stroke of 2-color LED, off-delay, AC magnetic field proof with T1, T8* switches are not available.

*2: Values in () are for the type with 1 on rod side.

Custom stroke

● SSD2 Series

Item	Standard product		Optional products	
	Standard stroke body with spacer		Dedicated unit (-S)	
Model No.	Refer to How to order.		Add "-S" option code to the model No.	
Description	A spacer is added to the standard stroke body to adjust the stroke in 1 mm increments.		Dedicated units of the required stroke are available.	
Stroke range	Bore size	Stroke range	Bore size	Stroke range
	12/16	1 to 29	12, 16	6 to 29
	20 to 25	1 to 49	20, 25	6 to 49
	32 to 100	1 to 99	32 to 100	11 to 99
Example of model No.	Model No.: SSD2-32-38 A +2 mm spacer is added to the SSD2-32-40 standard cylinder to create 38 mm stroke. B + stroke is 63 mm.		Model No.: SSD2-32-41-S Dedicated units for 41 mm stroke are available. B + stroke is 64 mm.	

