

Compact cylinder Double acting/Single rod

Long service life cylinder

**SSD2-HP1** Series

Bore size:ø12/ø16/ø20/ø25/ø32/ø40





### Specifications

SCPD3

CMK2 SCM

SSD2

MDC2

MSD

Item	SSD2-HP1 SSD2-L-HP1 (with switch)							
Bore size mm	ø12	ø16	ø20	ø25	ø32	ø40		
Actuation								
2     Actuation     Double acting       Working fluid     Compressed air								
Max. working pressureMPa			1.	.0				
2 Max. working pressure/MPa 1.0   Min. working pressure/MPa 0.1								
Proof pressure MPa	sure MPa 1.6							
Ambient temperature °C			-10 to 60 (r	no freezing)				
Port size	M5 Rc1/8 *1							
Stroke tolerance mm			+1	1.0 )				
Working piston speedmm/s			50 to	500				
Cushion	No							
Lubrication	cation Not required							
Allowable absorbed energyJ	0.004	0.01	0.016	0.021	0.025	0.092		

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

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

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

### Min. stroke with switch (With 2 switches)

(								
Bore size (mm)	T0/T5	T2/T3						
ø12	10 (5)							
ø16	10 (3)							
ø20	5	5						
ø25		5						
ø32								
ø40								

\*1: Less than 10 mm with the 2-color LED, off-delay, AC magnetic field proof, T1\* or T8\* switch is not available.

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

### Custom stroke SSD2 Series

0002.00	1105				
Item	Standard stroke I	-	A + stroke		
Model No.	Refer to How to order.			B + stroke	
	A spacer is added to the standard stro	oke body to adjust the stroke in 1 mm			
Product Item	increments.				
	Bore size	Stroke range			*
	12/16	1 to 29		-1-	-1-
Stroke range	20/25	1 to 49	1 to 29		
	32/40	1 to 99			<u> </u>
Example of model No.	Model No.: SSD2-25-38-HP1 To create a 38mm stroke, +2 mm spacer is B + stroke is 62.5 mm.	s added to the SSD2-25-40-HP1.			
	Item Model No. Product Item Stroke range Example of	Item     Standard stroke I       Model No.     Refer to How to order.       Product Item     A spacer is added to the standard strokincrements.       Stroke range     12/16       20/25     32/40       Example of     Model No.: SSD2-25-38-HP1 To create a 38mm stroke, +2 mm spacer is	ItemStandard stroke body with spacerModel No.Refer to How to order.Product ItemA spacer is added to the standard stroke body to adjust the stroke in 1 mm increments.Stroke rangeBore size20/251 to 2920/251 to 4932/401 to 99Example of model No.Model No.: SSD2-25-38-HP1 To create a 38mm stroke, +2 mm spacer is added to the SSD2-25-40-HP1.	Item     Standard stroke body with spacer       Model No.     Refer to How to order.       Product Item     A spacer is added to the standard stroke body to adjust the stroke in 1 mm increments.       Stroke range     12/16       12/16     1 to 29       20/25     1 to 49       32/40     1 to 99       Example of model No.: SSD2-25-38-HP1 To create a 38mm stroke, +2 mm spacer is added to the SSD2-25-40-HP1.	Item   Standard stroke body with spacer     Model No.   Refer to How to order.     Product Item   A spacer is added to the standard stroke body to adjust the stroke in 1 mm increments.     Bore size   Stroke range     12/16   1 to 29     20/25   1 to 49     32/40   1 to 99     Example of model No.: SSD2-25-38-HP1 To create a 38mm stroke, +2 mm spacer is added to the SSD2-25-40-HP1.

For dimensions, refer to the SSD2 Series in "Pneumatic Cylinders I (CB-029SA)".

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## SSD2-HP1 Series

How to order

SCPD3



Accessory

: Rod eye

							30PD3							
Code						Description	า							CMK2
A Mode	el Nc	).												SCM
SSD2	: [	Doub	le a	ctin	g/S	ingle rod								SSD2
SSD2-	L [	Doub	le a	ctin	ig/S	ingle rod with swit	ch							MDC2
B Bore	size	e (mm)									MSD			
12	1	ø12	•••											MSDG-L
16		ø16												SMG
20												LCR		
25												LCG		
32		ø32												STM
40	¢	ø40												STG
© Port	thro	24												
Blank		au Rc th	road	4										STR2
NN				-	( <i>a</i> 3	2 and over) (made	to or	der	)					SCPD3
GN					· ·	and over) (made to			)					CMK2
			Juu	(00			orde	.,						SCM
D Strol	· · ·													SCG
	R	efer	to t	he	stro	oke table on the fo	ollow	ing	pa	ge.				SSD2
E Swite				ο.										SMG
Lead wire	Lead	wire	tact	Volt	age	Indicator	Lead		В	ore	siz	e		LCR
Straight		aped	Con	AC	DC	Indicator	wire	12	16	20	25	32	40	STG
F2	2S*						2-wire							
F3	S*					1-color LED	3-wire							STS STL
F2H*	F2		Proximity				2-wire							01L
F3H*	F3		oxir				3-wire			$\bullet$				LSH
F3PH*	F3F		Ę			1-color LED (PNP output) (made to order)	3-wire			$\bullet$				
F2YH*	F2				$\bullet$	2-color LED	2-wire			$\bullet$	$\bullet$			
F3YH*	F3)				•		3-wire		_	•		_	_	LSHL
T0H*	T0		g		•	1-color LED			0	•		•		
T5H*	T5		Reed		•	No LED	2-wire		•	•	•	•		LSHM
T8H*	T8		_		•	1-color LED								
T1H*	T1						2-wire					•		LST
T2H*	T2					1-color LED	0							
T3H*	T3					1-color LED bend resistant lead wire	3-wire	H						LSTM
T2HR3 T3PH*	T2\ T3F		lity			1-color LED (PNP output) (made to order)	2-wire 3-wire	H						LOTIVI
T2WH*	T2V		Proximity			1-color LED (FMF output) (made to order)	2-wire	H						
T3WH*		NV*	Pro			2-color LED	3-wire							HMC
T2YD*	150	-				2-color LED	J-WIIC		-					
T2YDT*						2-color LED	2-wire							CKW
T2JH*	T2.					1-color LED off-delay	2-wire		_	ŏ		ŏ		
* Lead			ath				2 1110	_						ABP2
Blank		1 m (s		ndai	rd)									
3		3 m (												SCPD3
5		5 m (0										*1	0	CMK2
			_	)									-	SCM
F Swite				ام ام	~									SSD2
			on rod side								_	MSD		
<u> П</u>						$\neg$	MSDG-L							
							SMG							
GOption							STG							
Blank														
N				-										STM
							LCR							
							LCG							
Blank	Blank Whitedt mounting bracket						STR2							
LB	LB Axial foot						LSH							
СВ							LSHL							
FA Rod side flange						SCPD3								
EP Hood side flange							CMK2							
							SCM							
						SCM								
Y			-	is (r	oin	and snap ring atta	ched)							
						SSD2								

Long service life cylinder SD2 DC2 ISD SDG-L MG CR CG ТМ ΤG TR2 CPD3 Environment-resistant cylinder Linear Slide Hand MK2 СМ CG SD2 MG CR ΤG TS TL .SH SHL SHM Low-profile long stroke hand .ST STM Wide Parallel Hand IMC Chuck KW Air Booste BP2 CPD3 Compatible with rechargeable batteries MK2 СМ SD2 ISD SDG-L MG ΤG ТМ CR CG TR2 SH SHL Supports food mfg. CPD3 MK2 СМ CG processes SD2 STG

# SSD2-HP1 Series

### SCPD3 [Stroke table]

	001 00	louoi								
	CMK2					Applicable	e bore size	)		
er	SCM	Stroke (mm)		12	16	20	25	32	40	
cylinder	SSD2		5							
	MDC2		10							
life	MSD		15							
Ge	MSDG-L		20							
service	SMG	Standard	25							
	LCR		30							
Long	LCG	rd s	35							
	STM	stroke	40			•		•	•	
	STG	ê	45			•		•	•	
	STR2		50			•		•	•	
cylinder	SCPD3		75				-	•	•	
ij	CMK2		100							
	SCM									
an	SCG	Min. stro	oke (mm) *1	1						
ent-resistant	SSD2	Max. st	Max. stroke (mm)		30 50 100					
ě	SMG	Custom	stroke *2	In 1 mm increments						
lent	LCR		s than 5 mm for 1							

\*1: Less than 5 mm for 1-color LED switch, less than 10mm for the 2-color LED, off-delay, AC magnetic field proof, T1\*, and T8\* switches are not available. Refer to page 10 for the min. stroke with switch.

\*2: The total length when using a custom stroke is the same as that when using the next longer standard stroke.

\*3: Refer to the dimensions in "Pneumatic Cylinders I (CB-029SA)" for the min. stroke with mounting bracket LB.

### How to order switch

(SW)-(T0H)

### How to order mounting brackets

file long hand	LST LSTM	↓ €Switch model No.						
-								
Wide Parallel Hand	НМС	How to order mour	iting bracket	S				
		Bore size (mm)	~10	~16	~20	~25	~22	~10
Chuck	CKW	Mounting bracket $\land$	ø12	ø16	ø20	ø25	ø32	ø40
ir ster	ممم	Foot (LB)	SSD2-LB-12	SSD2-LB-16	SSD2-LB-20	SSD2-LB-25	SSD2-LB-32	SSD2-LB-40
Ai Boos	ABP2	Flange (FA/FB)	SSD2-FA-12	SSD2-FA-16	SSD2-FA-20	SSD2-FA-25	SSD2-FA-32	SSD2-FA-40
es	SCPD3	Clevis bracket (CB)	SSD2-CB-12	SSD2-CB-16	SSD2-CB-20	SSD2-CB-25	SSD2-CB-32	SSD2-CB-40

\*1:The foot mounting bracket is provided as 2 pcs./set.

### SSD2 consumable parts list

MG	Bore size (mm)	Kit No.	Part name
TG TM	ø12	SSD2-12K-HP1	
.CR	ø16	SSD2-16K-HP1	
CG	ø20	SSD2-20K-HP1	Rod metal gasket
TR2	ø25	SSD2-25K-HP1	Rod packing Piston packing
.SH	ø32	SSD2-32K-HP1	FISION PACKING
SHL	ø40	SSD2-40K-HP1	

Compatible with rechargeable batteries 하지의 거 거 의 일 일 종 종 8 8 8 8 8 CMK2 SCM SSD2 MSD MSDG-L LS processes SCPD3 CMK2 SCM sca mtg. b SCG SSD2 STG STG

Environment-resistant cylinder

Linear Slide Hand

STG

STS

STL

LSH

LSHL

LSHM