SMG

LCR LCG STM STG

LSHL

SCPD3

Round shaped cylinder Double acting/Single rod

# **SCM-HP1** Series

Bore size: ø20/ø25/ø32/ø40





Long service life cylinder



### Specifications

\*

Specifications									
Item		SCM-HP1							
Bore size	mm	ø20	ø25	ø32	ø40				
Actuation		Double acting							
Working fluid			Compre	ssed air					
Max. working pressure	MPa		1.	.0					
Min. working pressure	MPa	0.1							
Proof pressure	MPa	a 1.6							
Ambient temperature	°C	-10 to 60 (no freezing)							
Port size	With rubber cushion	Rc1/8							
FUIT SIZE	With air cushion	N	15	Ro	1/8				
Stroke tolerance	mm	+1.4 0 (up to 150)							
Working piston speed	mm/s	30 to 1000 (Operate within the allowable absorbed energy.)							
Cushion		Either rubber cushion or air cushion can be selected.							
Effective air cushion len	gth mm	8.1	8.1	8.6	8.6				
Lubrication		Not required							
Allowable absorbed	With rubber cushion	0.1	0.2	0.5	0.9				
energy J	With air cushion	0.8	1.2	2.5	3.7				
			-						

 $<sup>^*</sup>$ 1: No cushion in the allowable absorption energy indicates the allowable absorption energy of the side that is not indicated ("R" ightarrow head side, "H" → rod side) when the one-side air cushion is selected.

#### Stroke

Bore size (mm)	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)	
ø20				
ø25	25, 50, 75,	150	10	
ø32	100, 125, 150	150	10	
ø40				

<sup>\*1:</sup>The custom stroke is available in 1 mm increments.

### Number of installed switches and min. stroke (mm)

Switch mounting: Rail

	Switch quantity	1		2	2 3				4		5				
	Poro cizo (mm)	Proximity		Dood	Proximity	Reed Pro	Prox	imity		Proximity		Reed	Proximity		Reed
	Bore size (mm)	T2,T3	T2W,T3W	Reed	T2,T3	Reeu	T2,T3	T2W,T3W	Reed	T2,T3	T2W,T3W	Reeu	T2,T3	T2W,T3W	Reeu
	ø20		10		2	25 25 25 25 25 25 25 25 25 25 25 25 25 2		70	55	55	70	55	75	110	90
1	ø25		10		2			70	55	55	70	55	75	110	90
	ø32		10		2			70	55	55	70	55	75	110	90
1	ø40		10		2			70	55	55	70	55	75	110	90

<sup>\*1:</sup> For types with one switch, when the stroke is between 10 and 24 mm, trunnion mounting is not available since the switch rail mounting position is different. Regarding the mounting position, "Pneumatic Cylinders I (No. CB-029SA)".

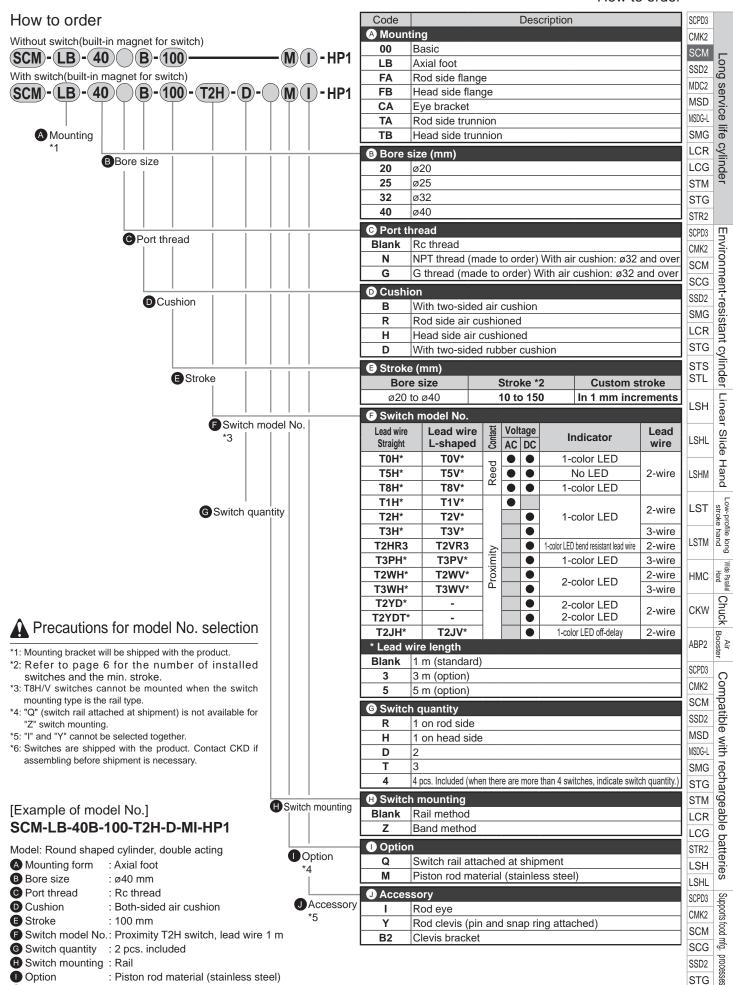
Switch mounting. Dank																
	Switch quantity	1			2		3		4			5				
	\	Proximity			Proximity			Proximity		Proximity			Prox	imity		
	Bore size (mm)	T2,T3	T2W,T3W	Reed	T0,T5 T2,T3	T2W,T3W	Reed	T0,T5 T2,T3	T2W,T3W	Reed	T0,T5 T2,T3	T2W,T3W	Reed	T0,T5 T2,T3	T2W,T3W	Reed
	ø20		10		25	30	25	50	55	50	70	75	70	95	100	95
	ø25		10		25	30	25	50	55	50	70	75	70	95	100	95
	ø32		10		25	30	25	50	55	50	70	75	70	95	100	95
	ø40		10		25	30	25	50	55	50	70	75	70	95	100	95

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

<sup>\*2:</sup> Without a cushion, large energy generated by the external load cannot be absorbed. Please provide an external shock absorber.

### **SCM-HP1** Series

How to order



Accessory

: Rod eye

## **SCM-HP1** Series

Long service life cylinder

Environment-resistant cylinder

Linear Slide Hand

LSH

LSHL

LSHM

LST Stroke hand Stroke hand MTST MTST

Wide Parallel Hand

Ckm Ckm

Air Booster

rechargeable batteries

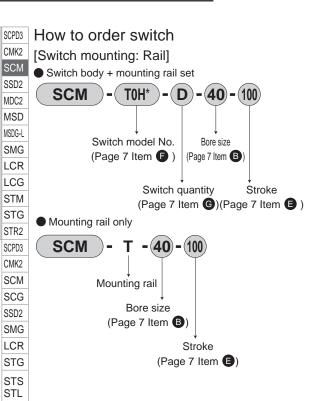
ABP2 SCPD3

SCM SSD2 MSD MSDG-L

STG

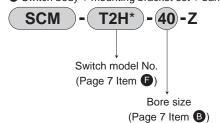
LSHL SCPD3 CMK2

SCM SCG SSD2 STG

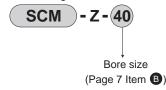


#### [Switch mounting: Band]

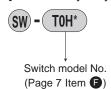
Switch body + mounting bracket set + band



Mounting bracket set + band



[Switch body only]



### How to order mounting brackets

1	Bore size (mm)	ø20	ø25	ø32	ø40	
	Mounting bracket \	<b>Ø20</b>	<b>Ø</b> 23	Ø3Z		
1	Foot (LB)	SCM-LB-20	SCM-LB-25	SCM-LB-32	SCM-LB-40	
	Flange (FA/FB)	SCM-FA-20	SCM-FA-25	SCM-FA-32	SCM-FA-40	
1	Eye bracket (CA)	SCM-CA-20	SCM-CA-25	SCM-CA-32	SCM-CA-40	
	Trunnion (TA/TB)	SCM-TA-20	SCM-TA-25	SCM-TA-32	SCM-TA-40	

<sup>\*1:</sup> All mounting brackets have mounting bolts attached.

### Material of mounting bracket

Mounting	Material
LB	Steel
FA/FB	Aluminum
TA/TB	Steel
CA	Steel

<sup>\*1:</sup> Mounting bracket will be shipped with the product.

### Consumable parts list

With rubber cushion

With air cushion

3	Bore size (mm)	Kit No.	Part name	Bore size (mm)	Kit No.	Part name
2	ø20	SCM-20DK-HP1	Dad paging	ø20		Rod packing Cylinder gasket
1	ø25	SCM-25DK-HP1	Rod packing Cylinder gasket Cushion rubber	ø25	SCM-258K-HP1	Cushion rubber Piston packing
)	ø32	SCM-32DK-HP1	Piston packing Wear ring	ø32	SCM-378K-HP1	Wear ring Needle gasket
L	ø40	SCM-40DK-HP1	wear mig	ø40		Holder gasket Cushion packing

<sup>\*1:</sup> Specify the kit No. when placing an order.

<sup>\*2:</sup> The foot mounting bracket is provided as 2 pcs./set.