Small compact cylinder Double acting/Single rod

MSD-P4/P40-HP1 Series

■Bore size:ø6/ø8

JIS symbol







Specifications

SCPD3 CMK2

SCM

SSD2

MDC2 MSD MSDG-L SMG

LCR LCG STM STG STR2

SCPD3
CMK2
SCM
SCG
SSD2
SMG
LCR
STG
STS
STL

Long service life cylinder

Environment-resistant cylinder

Linear Slide Hand

LSH

LSHL

LSHM

K Wide Parallel Low-profile long
Hand stroke hand
OM Hand
TS STORE
ALICE
ALICE
STORE
ALICE

Ckm Ckm

Booster ABP2

SCM SSD2 MSD MSDG-L SMG STG

rechargeable batteries

LSHL SCPD3 CMK2

SCM SCG SSD2 STG

Item	MSD-P4/P40-HP1 MSD-L-P4/P40-HP1 (with switch)					
Bore size mm	ø6, ø8					
Actuation	Double acting					
Working fluid	Compressed air					
Max. working pressure MPa	1.0					
Min. working pressure MPa	0.15					
Proof pressure MPa	1.6					
Ambient temperature °C	-10 to 60 (where,no freezing)					
Port size	M3					
Stroke tolerance mm	+0.5					
Stroke tolerance min	0					
Working piston speedmm/s	50 to 500					
Cushion	No					
Lubrication	Not available					
Allowable absorbed	This product cannot absorb the energy generated by an external load mounted on the cylinder.					
energy J	When using the product with no load, separately provide a shock absorber on the outside.					

Stroke

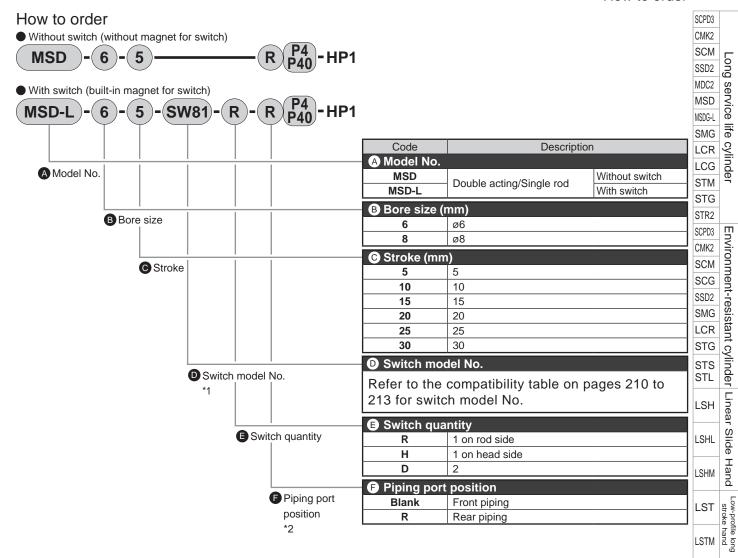
Bore size	Standard stroke	Max. stroke	Min. stroke with t	wo switches(mm)	Min. stroke with one switch (mm)		
(mm)	(mm)	(mm)	Reed switch	Proximity switch	Reed switch	Proximity switch	
ø6	5/10/15/20	30	10	F (10)	E	E	
ø8	25/30	30	10	5 (10)	5		

^{*1:} Products with stroke other than standard stroke are not available.

Refer to the MSD Series in "Pneumatic Cylinders I (No. CB-029SA)" for dimentions.

 $^{^{\}star}2$: For F2Y, F3Y or F3P, the min. stroke length is the dimensions in ().

MSD-P4/P40-HP1 Series



Precautions for model No. selection

- *1: When using the type with switch, use a non-magnetic (stainless steel, etc.) mounting bolt for ø6, ø8.
- *2: For rear piping, body side installation is possible. Note that 2 bolts are used for rod side mounting and head side mounting.

Related products

Speed controller							
Model No.	Appearance	Port size (Rc or R)			Compatible tube O.D.		
		МЗ	M5	1/8	4 (ø4)	6(ø6)	8(ø8)
SC3W-M3- *-P4		•			•		

Specify the compatible tube O.D. code for *. Refer to "rechargeable battery compatible Component P4* Series" (No.CC-1226A) for details.

Wide Parallel Hand HMC

Chuck

Air Boostei ABP2

Compatible with rechargeable

batteries STR2 LSH LSHL SCPD3

Supports food CMK2 SCM mfg. SCG SSD2 STG

CKW

SCPD3

CMK2 SCM SSD2

MSD

MSDG-L SMG STG STM LCR LCG

MSDG-L SMG

LCR LCG

LSH

LSHL

Small guided compact cylinder Double acting/guided with switch

MSDG-L-P4/P40-HP1 Series

■Bore size:ø6/ø8/ø12/ø16



Long service life cylinder



Specifications

Орсоніс										
Item		MSDG-L-P4/P40-HP1(With switch)								
Bore size n	mm	ø6	ø8	ø12	ø16					
Actuation			Double acting							
Working flu	ıid		Compressed air							
Max. working	g pressure MPa		1.0							
Min. working	g pressure MPa	0.2	0.15	0.1						
Proof press	sure MPa		1.6							
Ambient te	mperature °C		5 to 60							
D1	Front piping	M	3	M5						
Port size	Rear piping	M	3	1 3						
Otralia talan			+2.0							
Stroke tolera	oke tolerance mm		0							
Working pistor	n speed mm/s	50 to 500								
Cushion		With rubber cushion								
Lubrication	1		Not available							
Allowable ab	sorbed energyJ	0.004	0.014	0.044	0.110					

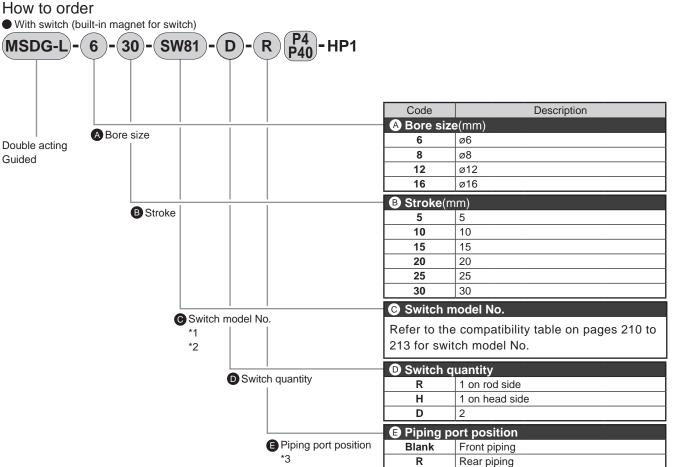
Stroke

1	Bore size	Standard	Max. stroke	Min. stroke with t	wo switches (mm)	Min. stroke with	one switch (mm)	
\exists	(mm)	stroke (mm)	(mm)	Reed switch	Proximity switch	Reed switch	Proximity switch	
	ø6							
\exists	ø8	5/10/15/20 25/30	5/10/15/20	30	10	_	5	E
Λ	ø12		30	10	5	5	5	
-	ø16							

Note: Products with stroke other than standard stroke are not available.

MSDG-L-P4/P40-HP1 Series

SCPD3



Precautions for model No. selection

- *1: When using the ø6/ø8 with switch, use a non-magnetic (stainless steel, etc.) mounting bolt.
- *2: When using a proximity switch with ø12/ø16, use a non-magnetic (stainless steel, etc.) through bolt.
- *3: For rear piping, body side installation is possible.

Related products

1										
		Spe	ed cc	ntro	ller					
	Model No.	Appearance		ort siz		Comp	oatible O.D.	tube		
			М3	M5	1/8	4 (ø4)	6(ø6)	8(ø8)		
	SC3W-M3- *-P4		•			•				
	SC3W-M5- *-P4	49		•		•	•			

Specify the compatible tube O.D. code for *. Refer to "rechargeable battery compatible Component P4* Series" (No.CC-1226A) for details.

CMK2 SCM Long service life cylinder SSD2 MDC2 MSD MSDG-L SMG LCR LCG STM STG STR2 Environment-resistant cylinder Linear Slide Hand SCPD3 CMK2 SCM SCG SSD2 SMG LCR STG STS STL LSH LSHL LSHM LST LSTM HMC Hand Chuck CKW Air Booster ABP2 SCPD3 Compatible with rechargeable batteries CMK2 SCM SSD2 MSD SMG STG STM LCR LCG STR2 LSH LSHL

SCPD3

Supports food CMK2 SCM mfg. SCG SSD2 STG