

Cylinders Equipped with Powerful Scraper SCW*2-G Series



Key Features

- Conforming to ISO15552 standard
- Dust-proofed for harsh environments
- Switches can be optionally mounted

Specifications

Description	SCW *2-G						
	Bore size	mm	φ 32	φ 40	φ 50	φ 63	φ 80
Working fluid	Clean compressed air						
Max. working pressure	MPa	1					
Min. working pressure	MPa	0.1					
Withstanding pressure	MPa	1.5					
Ambient temperature	°C	-10 to 60 (No freezing)					
Stroke tolerance	mm	0 to 1.4					
Working piston speed	mm/s	50 to 1000					
Cushion	Air cushion						
Effective cushion length	mm	15	15	16.4	16.4	23.4	23.4
Lubrication	No (use turbine oil 1 type ISO VG32)						
Allowable absorption energy with cushion	J	2.5	6.0	9.0	14.4	25.4	45.6

Stroke length

Bore size (mm)	Standard stroke length (mm)	Max. stroke length (mm)	Available stroke length (mm)	Min. stroke length (mm)
φ 32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	500	2000 ^{Note}	1
φ 40		500		
φ 50		600		
φ 63		600		
φ 80		800		
φ 100		800		

Note: 1. Stroke length of SCWT2-G is 1900mm for TA and TB.
2. If the max. stroke length is exceeded, product specifications may not be met, depending on operating conditions. Contact CKD in this case.

Cylinder mass

(Unit: kg)

Bore size (mm)	Product mass when stroke length(s)=0(mm)						Additional mass per S=50(mm)	Mass per TOH switch	Mass of switch mounting parts (T-shaped)	Accessory mass	
	Basic (00)	Foot (LB)	Flange (FA, FB)	Eye bracket (CA)	Clevis bracket (CB)	Trunnion (TA, TB, TC)				I	Y
SCWP2-G-φ32	0.49	0.60	0.71	0.64	0.67	—	0.018	—	0.07	0.10	
φ40	0.70	0.84	0.98	0.89	0.89	—		—	0.07	0.13	
φ50	1.15	1.31	1.63	1.56	1.56	—		—	0.20	0.30	
φ63	1.53	1.87	2.29	2.09	2.10	—		—	0.20	0.30	
φ80	2.36	2.79	3.93	3.63	3.64	—		—	0.52	0.94	
φ100	3.47	4.33	5.79	5.19	5.22	—		—	0.48	0.92	
SCWT2-G-φ32	0.46	0.57	0.68	0.61	0.64	0.63		0.09	0.024	0.07	0.10
φ40	0.65	0.79	0.93	0.84	0.84	0.99		0.13	0.024	0.07	0.13
φ50	1.06	1.22	1.54	1.47	1.47	1.54		0.18	0.022	0.20	0.30
φ63	1.40	1.74	2.16	1.96	1.97	2.28		0.20	0.020	0.20	0.30
φ80	2.05	2.48	3.62	3.32	3.33	3.54		0.39	0.026	0.52	0.94
φ100	3.15	4.01	5.47	4.87	4.90	5.72		0.36	0.024	0.48	0.92

SCWP2-G Series

How to order

SCWP2-G - LB - 40 - B - 50 - T0H - R - M I - SX

A Mounting style

B Bore size

C Port thread type

D Cushion

E Stroke length

F Switch model

G Switch quantity

H Option 1

I Accessory

J Option 2

A Mounting type		
00	ISO type	Basic
LB	MS1	Axial foot
FA	MF1	Rod side flange
FB	MF2	Head side flange
CA	MP4	Eye bracket
CB	MP2	Clevis bracket

B Bore size (mm)	
32	φ32
40	φ40
50	φ50
63	φ63
80	φ80
100	φ100

C Port thread type	
Blank	Straight port thread

D Cushion	
B	Both sides cushion (basic)

E Stroke length (mm) (details in stroke length specification on page 1)

F Switch model				
Lead write Straight type	Lead write L-type	Contact	Display	Lead wire
T0H※	T0V※	Reed	1 color indicator	2-wire
T5H※	T5V※		Without indicator	
T8H※	T8V※		1 color indicator	3-wire
T1H※	T1V※		1 color indicator	
T2H※	T2V※	Proximity	2 color indicator	2-wire
T3H※	T3V※			3-wire
T2WH※	T2WV※		2 color indicator	2-wire
T2YH※	T2YV※			
T3WH※	T3WV※		1 color indicator	3-wire
T3YH※	T3YV※			
T2YD※	-	Switch for strong magnetic field	2-wire	
T2YDT※	-			
T2JH※	T2JV※	Off-delay	2-wire	

※Lead wire length	
Blank	1m (Standard)
3	3m (Option)
5	5m (Option)

G Switch quantity	
R	One on rod side
H	One on head side
D	Two
T	Three

H Option 1	
M	Piston rod material (stainless steel)

I Accessory		
I	ISO8139	Rod eye
Y	ISO8140	Rod clevis (with shaft pin and cotter pin)
B1	-	Eye bracket
B2	-	Clevis bracket (with shaft pin and cotter pin)
B3	AB7	Eye bracket

J Option 2	
Blank	Standard Cylinder
SX	Explosion - proof correspondence (cannot be equipped with switch)

⚠ Cautions for model (No. selective)

Note 1: in respect of middle stroke length, fabrication is made with 1mm.
Note 2: "I" "Y" cannot be used at the same time.

〈How to order〉

SCWP2-G-LB-40B-50-T0H-R-MI-SX

- A** Mounting Style: Axial foot
- B** Bore Size: φ40
- D** Cushion: Both sides cushion
- E** Stroke Length: 50mm
- F** Switch Model: Reed T0H, length of wire is 1m
- G** Switch Quantity: One on rod side
- H** Option 1: Piston rod material (stainless steel)
- I** Accessory: Rod eye
- J** Option 2: Explosion - proof correspondence
(cannot be equipped with switch)

How to order

SCWT2 - G - LB - 40 - B - 50 - T0H - R - M I - SX

A Mounting style

B Bore size

C Port thread type

D Cushion

E Stroke length

F Switch model

G Switch quantity

H Option 1

I Accessory

J Option 2

A Mounting type		
00	ISO type	Basic
LB	MS1	Axial foot
FA	MF1	Rod side flange
FB	MF2	Head side flange
CA	MP4	Eye bracket
CB	MP2	Clevis bracket
TC	MT4	Center trunnion
TA	-	Rod side trunnion
TB	-	Head side trunnion

B Bore size (mm)	
32	φ32
40	φ40
50	φ50
63	φ63
80	φ80
100	φ100

C Port thread type	
Blank	Straight port thread

D Cushion	
B	Both sides cushion (basic)

E Stroke length (mm) (details in stroke length specification on page 1)

F Switch model					
Lead write Straight type	Lead write L-type	Contact	Display	Lead wire	
T0H※	T0V※	Reed	1 color indicator	2-wire	
T5H※	T5V※		Without indicator		
T8H※	T8V※		1 color indicator		
T1H※	T1V※	Proximity	1 color indicator	2-wire	
T2H※	T2V※			3-wire	
T3H※	T3V※		2 color indicator	2-wire	
T2WH※	T2WV※			3-wire	
T2YH※	T2YV※		1 color indicator	Switch for strong magnetic field	2-wire
T3WH※	T3WV※				3-wire
T3YH※	T3YV※		Off-delay	Off-delay	2-wire
T3PH※	T3PV※				2-wire
T2YD※	-				
T2YDT※	-				
T2JH※	T2JV※				

※Lead wire length	
Blank	1m (Standard)
3	3m (Option)
5	5m (Option)

G Switch quantity	
R	One on rod side
H	One on head side
D	Two
T	Three

H Option 1	
M	Piston rod material (stainless steel)

I Accessory		
I	ISO8139	Rod eye
Y	ISO8140	Rod clevis (with shaft pin and cotter pin)
B1	-	Eye bracket
B2	-	Clevis bracket (with shaft pin and cotter pin)
B3	AB7	Eye bracket

J Option 2	
Blank	Standard Cylinder
SX	Explosion - proof correspondence (cannot be equipped with switch)

⚠ Cautions for model (No. selective)

Note 1: in respect of middle stroke length, fabrication is made with 1mm.
Note 2: "I" "Y" cannot be used at the same time.

(How to order)

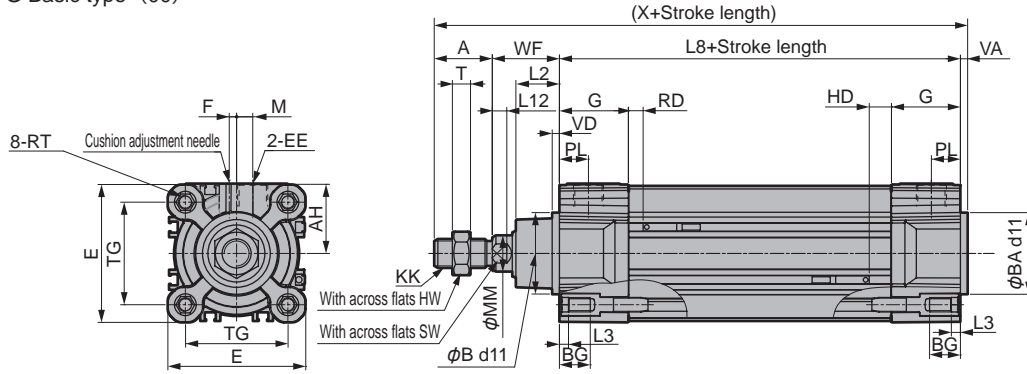
SCWT2-G-LB-40B-50-T0H-R-MI-SX

- A** Mounting Style: Axial foot
- B** Bore Size: φ40
- D** Cushion: Both sides cushion
- E** Stroke Length: 50mm
- F** Switch Model: Reed T0H, length of wire is 1m
- G** Switch Quantity: One on rod side
- H** Option 1: Piston rod material (stainless steel)
- I** Accessory: Rod eye
- J** Option 2: Explosion - proof correspondence
(cannot be equipped with switch)

SCW※2-G Series

Dimensions

● SCWP2-G Basic type (00)

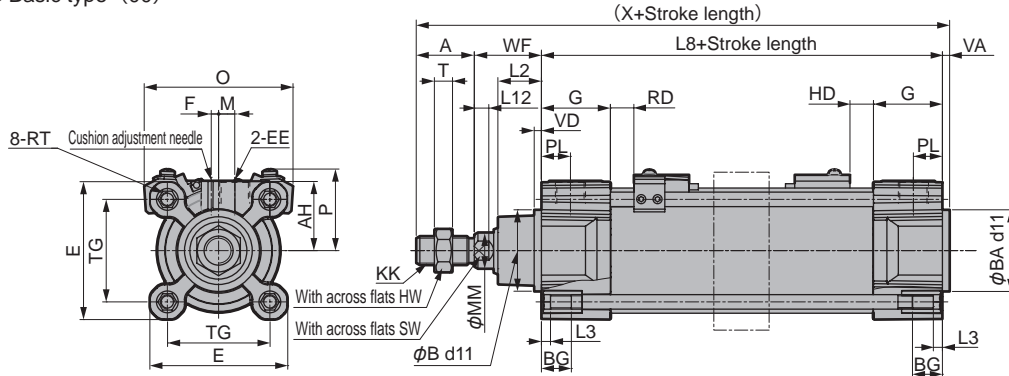


(Unit: mm)

Code	Basic (00) basic dimensions																			
Bore size	A	B/BA	BG	E	AH	EE	F	G	HW	KK	L2	L3	L8	L12	M	MM	SW	PL	RT	T
φ 32	22	30	16	47.5	24.3	G1/8	-6.7	33	17	M10x1.25	15	5	94	5	4.9	12	10	13	M6	6
φ 40	24	35	16	53	27	G1/4	-10	35.8	18	M12x1.25	17	5	105	6	5.5	16	13	14	M6	6
φ 50	32	40	16	65	33	G1/4	0.6	37	24	M16x1.5	24	5	106	6	7	20	17	14	M8	10
φ 63	32	45	16	76	38.5	G3/8	3	38.3	24	M16x1.5	24	5	121	6	9	20	17	16	M8	10
φ 80	40	45	21	95	48	G3/8	0	40	30	M20x1.5	30	6	128	8	12	25	22	16	M10	12
φ 100	40	55	21	114	57.5	G1/2	4.5	43.2	30	M20x1.5	33	6	138	11	12	25	22	18	M10	12

Code	With switch							
	T0, T5, T2, T3	T2W, T3W						
Bore size	TG	VA/VD	WF	X	RD	HD	RD	HD
φ 32	32.5	4	26	146	4.5	4.5	7	7
φ 40	38	4	30	163	4.5	9.5	7	12
φ 50	46.5	4	37	179	5.5	7.5	8	9.5
φ 63	56.5	4	37	194	10	15.5	12.5	17.5
φ 80	72	4	46	218	14.5	14.5	17	17
φ 100	89	4	51	233	16.5	16.5	18.5	18.5

● SCWT2-G Basic type (00)



(Unit: mm)

Code	Basic (00) basic dimensions																			
Bore size	A	B/BA	BG	E	AH	EE	F	G	HW	KK	L2	L3	L8	L12	M	MM	SW	PL	RT	T
φ 32	22	30	16	47.5	24.3	G1/8	-6.7	33	17	M10x1.25	15	5	94	5	4.9	12	10	13	M6	6
φ 40	24	35	16	53	27	G1/4	-10	35.8	18	M12x1.25	17	5	105	6	5.5	16	13	14	M6	6
φ 50	32	40	16	65	33	G1/4	0.6	37	24	M16x1.5	24	5	106	6	7	20	17	14	M8	10
φ 63	32	45	16	76	38.5	G3/8	3	38.3	24	M16x1.5	24	5	121	6	9	20	17	16	M8	10
φ 80	40	45	17	95	48	G3/8	0	40	30	M20x1.5	30	6	128	8	12	25	22	16	M10	12
φ 100	40	55	17	114	57.5	G1/2	4.5	43.2	30	M20x1.5	33	6	138	11	12	25	22	18	M10	12

Code	With switch									
	T0, T5, T2, T3	T2W, T3W								
Bore size	TG	VA/VD	WF	X	O	P	RD	HD	RD	HD
φ 32	32.5	4	26	146	58	38	4.5	4.5	7	7
φ 40	38	4	30	163	64	40	4.5	9.5	7	12
φ 50	46.5	4	37	179	72	42	5.5	7.5	8	9.5
φ 63	56.5	4	37	194	83	46	10	15.5	12.5	17.5
φ 80	72	4	46	218	103	56	14.5	14.5	17	17
φ 100	89	4	51	233	120	63	16.5	16.5	18.5	18.5

Note: Middle swing bracket (shown by dotted line) is added according to stroke. Refer to Page 10 of C-CC-1362A [1] for the size.

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