

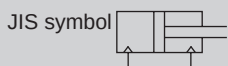


Guided cylinder Double acting/Rubber scraper

Environment-resistant cylinder

STS/STL-^M_B G-HP1 Series

● Bore size: $\varnothing 8/\varnothing 12/\varnothing 16/\varnothing 20/\varnothing 25/\varnothing 32/\varnothing 40/\varnothing 50/\varnothing 63/\varnothing 80/\varnothing 100$



Specifications

Item	STS- ^M _B G-HP1 STL- ^M _B G-HP1											
Bore size mm	ø8	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100	
Actuation	Double acting											
Working fluid	Compressed air											
Max. working pressureMPa	1.0											
Min. working pressureMPa	0.25						0.2					
Proof pressure MPa	1.6											
Ambient temperature °C	-10 to 60 (no freezing)											
Port size	M5						Rc1/8		Rc1/4		Rc3/8	
Stroke tolerance mm	+2.0 0											
UsagePistonSpeed mm/s	50 to 500								50 to 300			
Cushion	With rubber cushion											
Lubrication	Not required											
Allowable absorbed energy J	0.029	0.056	0.088	0.157	0.157	0.401	0.627	0.980	1.560	2.510	3.920	

Stroke

• Short stroke STS

Bore size	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)	With switch, min. stroke(mm)
ø8	10, 20, 30 40, 50	50	5	5 With one switch or two switches.
ø12				
ø16				
ø20	25, 50			
ø25				
ø32				
ø40				
ø50				
ø63				
ø80	25, 50, 75, 100			
ø100				

• Long stroke STL

Bore size	Standard stroke (mm)	Max. stroke (mm)	Min. stroke (mm)	With switch, min. stroke (mm)
$\varnothing 8$	50, 75, 100	200	50	50 With one switch or two switches.
$\varnothing 12$	125, 150			
$\varnothing 16$	175, 200			
$\varnothing 20$	50, 75, 100 125, 150, 175 200, 225, 250 275, 300, 325 350, 375, 400	400	30	30 With one switch or two switches.
$\varnothing 25$				
$\varnothing 32$				
$\varnothing 40$				
$\varnothing 50$				
$\varnothing 63$				
$\varnothing 80$	75, 100, 125, 150, 175 200, 225, 250, 275, 300 325, 350, 375, 400		55	55 With one switch or two switches.
$\varnothing 100$	75, 100, 125, 150, 175, 200			

Note: The custom stroke is available in 5 mm increments. However, the total length is the same as that of the next longer standard stroke.

How to order

● Short stroke

Without switch (built-in magnet for switch)

STS - M G - 20 - 25 - F - HP1

With switch (built-in magnet for switch)

STS - M G - 20 - 25 - T2H - R - F - HP1

● Long stroke

Without switch (built-in magnet for switch)

STL - M G - 20 - 50 - F - HP1

With switch (built-in magnet for switch)

STL - M G - 20 - 50 - T2H - R - F - HP1

A Bearing

B Model No.

C Bore size

D Port thread

E Stroke

■ Custom stroke

Available in 5 mm increments. However, the total length is the same as that of the next longer standard stroke.

F Switch model No.

*1 *2 *4

⚠ Precautions for model No. selection

***1: Switches other than F switch model No. are also available. (Made to order) For details, refer to "Pneumatic Cylinders II" (No. CB-030SA).**

***2:** T8H/V switch cannot be installed on ø8 to ø16.

***3:** ø8 to ø25 ball bearing B is copper and PTFE free as standard.

***4:** Switches are shipped with the product. Contact CKD if assembling before shipment is necessary.

[Example of model No.]

STS-MG-20-25-T0H-R-F-HP1

Model: Guided cylinder, short Stroke

A Bearing : Metal bush bearing

B Model No. : Rubber scraper

C Bore size : ø20 mm

D Port thread : M5

E Stroke : 25mm

F Switch model No. : Reed T0H switch, lead wire length 1 m

G Switch quantity : 1 on rod side

H Option : End plate material: steel

Code	Description
A Bearing	
M	Metal bush bearing
B	Ball bearing

B Model No.	
G	Rubber scraper

C Bore size (mm)	
8	ø8
12	ø12
16	ø16
20	ø20
25	ø25
32	ø32
40	ø40
50	ø50
63	ø63
80	ø80
100	ø100

D Port thread	
Blank	M5 (ø8 to ø25) Rc thread (ø32 to ø100)
NN	NPT thread (ø32 and over) (made to order)
GN	G thread (ø32 and over) (made to order)

E Stroke (mm)	
Refer to the stroke table on the following page.	

F Switch model No.					
Lead wire Straight	Lead wire L-shaped	Contact	Voltage AC DC	Indicator	Lead wire
T0H*	T0V*	Reed	● ●	1-color LED	2-wire
T5H*	T5V*		● ●	No LED	
T8H*	T8V*		● ●	1-color LED	2-wire
T1H*	T1V*		● ●		2-wire
T2H*	T2V*	Proximity	● ●		3-wire
T3H*	T3V*		● ●	1-color LED bend resistant lead wire	2-wire
T2HR3	T2VR3		● ●		2-wire
T3PH*	T3PV*		● ●	1-color LED (made to order)	3-wire
T2WH*	T2WV*		● ●	2-color LED	2-wire
T2YH*	T2YV*		● ●		2-wire
T3WH*	T3WV*		● ●		3-wire
T3YH*	T3YV*		● ●		3-wire
T2YD*	-		● ●	2-color LED for AC magnetic field	2-wire

* Lead wire length	
Blank	1 m (standard)
3	3 m (option)
5	5 m (option)

G Switch quantity	
R	1 on rod side
H	1 on head side
D	2
T	3

H Option	
F	End plate material (Steel)
M	Corrosion proof (piston rod, guide rod SUS) (made-to-order product)
M1	Corrosion proof (M+ end plate SUS) (made-to-order product)
P6 *3	Copper and PTFE free specification (made to order)

SCPD3	Long service life cylinder
CMK2	
SCM	
SSD2	
MDC2	
MSD	
MSDG-L	
SMG	
LCR	
LCG	
STM	
STG	
STR2	
SCPD3	Environment-resistant cylinder
CMK2	
SCM	
SCG	
SSD2	
SMG	
LCR	
STG	
STS	
STL	
LSH	Linear Slide Hand
LSHL	
LSHM	
LST	Low-profile long stroke hand
LSTM	
HMC	Wire Parallel Hand
CKW	Chuck
ABP2	Booster
SCPD3	Compatible with rechargeable batteries
CMK2	
SCM	
SSD2	
MSD	
MSDG-L	
SMG	
STG	
STM	
LCR	
LCG	
STR2	
LSH	
LSHL	
SCPD3	Supports food mfg. processes
CMK2	
SCM	
SCG	
SSD2	
STG	

STS/STL-M^BG-HP1 Series

Long service life cylinder

Environment-resistant cylinder

Linear Slide Hand

Low-profile long stroke hand

Wide Parallel Hand

Chuck

Air Booster

Compatible with rechargeable batteries

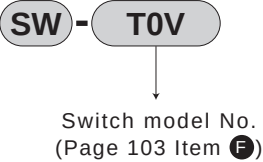
Supports food mfg. processes

Stroke

Series	Stroke (mm)		Applicable bore size										
			ø8	ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
STS	Standard Stroke	10	●	●	●								
		20	●	●	●								
		25				●	●	●	●	●	●	●	●
		30	●	●	●								
		40	●	●	●								
		50	●	●	●	●	●	●	●	●	●	●	●
		75									●	●	
		100									●	●	
	Min. stroke *1		5										
Custom stroke *1,*2		In 5 mm increments											
STL	Standard Stroke	50	●	●	●	●	●	●	●	●	●		
		75	●	●	●	●	●	●	●	●	●	●	●
		100	●	●	●	●	●	●	●	●	●	●	●
		125	●	●	●	●	●	●	●	●	●	●	●
		150	●	●	●	●	●	●	●	●	●	●	●
		175	●	●	●	●	●	●	●	●	●	●	●
		200	●	●	●	●	●	●	●	●	●	●	●
		225				●	●	●	●	●	●	●	
		250				●	●	●	●	●	●	●	
		275				●	●	●	●	●	●	●	
		300				●	●	●	●	●	●	●	
		325				●	●	●	●	●	●	●	
		350				●	●	●	●	●	●	●	
		375				●	●	●	●	●	●	●	
		400				●	●	●	●	●	●	●	
	Min. stroke *1		50			30						55	
	Custom stroke *1,*2		In 5 mm increments										

*1: The total dimensions are the same as the longer standard stroke.
*2: Special total length for custom stroke can be provided when a custom stroke is used. (Made to order)

How to order switch



Consumable parts list (Note: Specify the kit No. when placing an order.)

● STS-MG-HP1/STL-MG-HP1 (rubber scraper)

Bore size (mm)	Kit No.	Part name
ø8	STS-MG-8K-HP1	Metal gasket
ø12	STS-MG-12K-HP1	Rod packing
ø16	STS-MG-16K-HP1	Cushion rubber
ø20	STS-MG-20K-HP1	Piston packing
ø25	STS-MG-25K-HP1	O-ring
ø32	STS-MG-32K-HP1	Wear ring
ø40	STS-MG-40K-HP1	Scraper (for piston rod)
ø50	STS-MG-50K-HP1	Scraper (for guide)
ø63	STS-MG-63K-HP1	Lube keeping structure (for piston rod)
ø80	STS-MG-80K-HP1	Lube keeping structure (for guide)
ø100	STS-MG-100K-HP1	

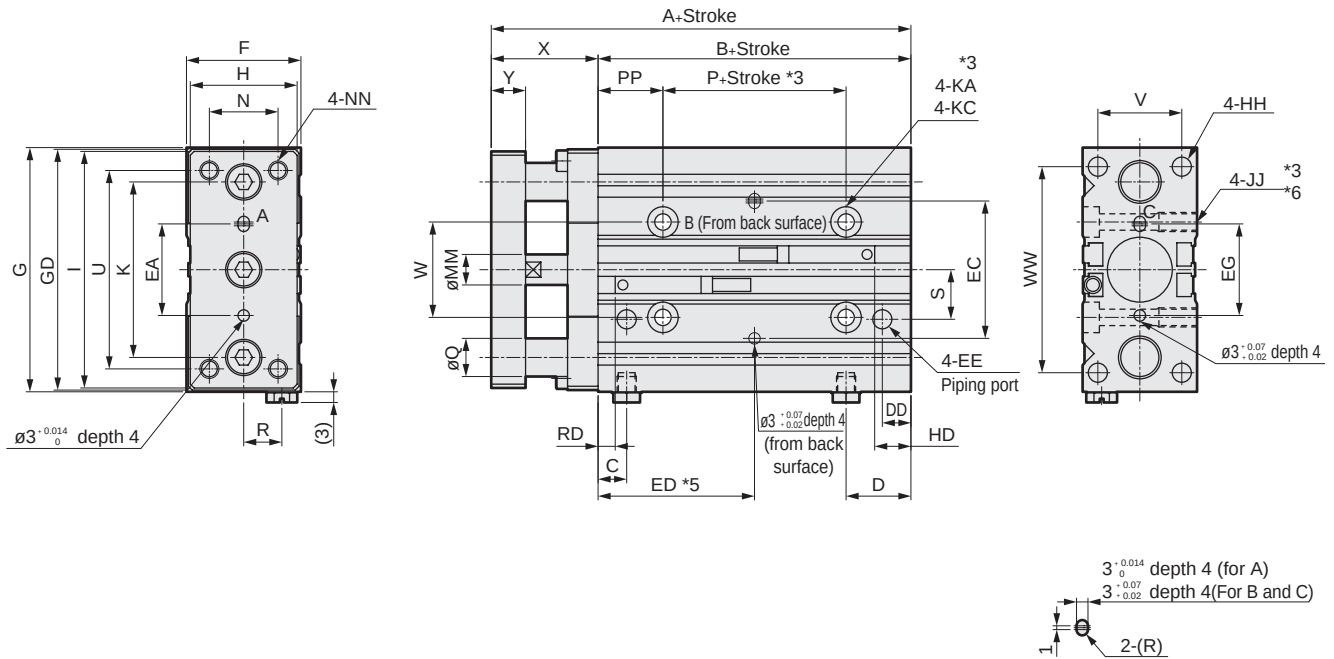
● STS-BG-HP1/STL-BG-HP1 (rubber scraper)

Bore size (mm)	Kit No.	Part name
ø8	STS-BG-8K-HP1	Metal gasket
ø12	STS-BG-12K-HP1	Rod packing
ø16	STS-BG-16K-HP1	Cushion rubber
ø20	STS-BG-20K-HP1	Piston packing
ø25	STS-BG-25K-HP1	O-ring
ø32	STS-BG-32K-HP1	Wear ring
ø40	STS-BG-40K-HP1	Scraper (for piston rod)
ø50	STS-BG-50K-HP1	Scraper (for guide)
ø63	STS-BG-63K-HP1	Lube keeping structure (for piston rod)
ø80	STS-BG-80K-HP1	Lube keeping structure (for guide)
ø100	STS-BG-100K-HP1	

Dimensions: ø8, ø12, ø16



- Standard single rod STS-^M_BG-HP1
- Corrosion proof STS-^M_BG-M/M1-HP1



Slot dimensions for A, B and C

Code	Standard stroke (mm)	A	B	C	D	DD	EE	EA	EC	ED	EG	F	G	GD	H	HH
Bore size (mm)																
ø8	10, 20, 30, 40, 50	55	28	11	14.5	6.5	M5	20	25	15+ Stroke 2	20	24	53	51	22	M4 depth 8
ø12		59	32	7.5	14.5	7.5	M5	23	34	16+ Stroke 2	20	26	58	56	24	M4 depth 8
ø16		60	32	7.5	17	7.5	M5	24	36	16+ Stroke 2	24	30	64	63	28	M5 depth 10

Code	I	JJ	K	KA	KC	MM	N	NN	P	PP	Q		R
Bore size (mm)											STS-M	STS-B	
ø8	51	M4 depth 10	40	3.3 through	6.5 spot face depth 3.3	4	15	M4 through	-10	20	6	5	7.5
ø12	56	M4 depth 10	41	3.3 through	6.5 spot face depth 3.3	6	16	M4 through	-2	17	8	6	8
ø16	62	M5 depth 10	46	4.3 through	8 spot face depth 4.4	8	18	M5 through	-2	17	10	8	10

Code	S	U	V	W	WW	X	Y	T0/T5/T2/T3		T2W/T3W	
Bore size (mm)								RD	HD	RD	HD
ø8	13.5	43	16	25	45	27 ⁰ _{-1.5}	8	6.5	2.5	8.5	4.5
ø12	12.5	48	17	23	50	27 ⁰ _{-1.5}	8	5	8.5	7	10.5
ø16	13	52	22	25	54	28 ⁰ _{-1.5}	9	4.5	9.5	6	11.5

*1: HD and RD dimensions for 10 mm stroke differ from these dimensions according to the setting.

*2: When using a custom stroke, the dimensions are the same as the longer standard stroke.

*3: STS-^M_B-8-10 (10mm stroke) is 2-KA, 2-KC, 2-JJ (two mounting holes).

*4: Refer to "Pneumatic Cylinders II (No. CB-030SA)" for RD, HD and protruding dimensions of the 2-color LED (except for T2WH/V and T3WH/V), off-delay, AC magnetic field proof, and 1H/V switches.

*5: ED is 5 for STS-^M_B-8-10 (10mm stroke).

*6: STS-^M_B-16-10 (10mm stroke) has four JJM5 screws, as shown in the figure, but the mounting will be two.

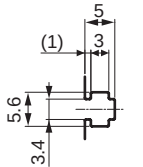
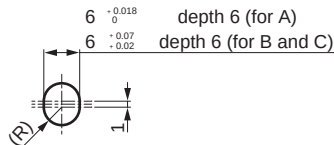
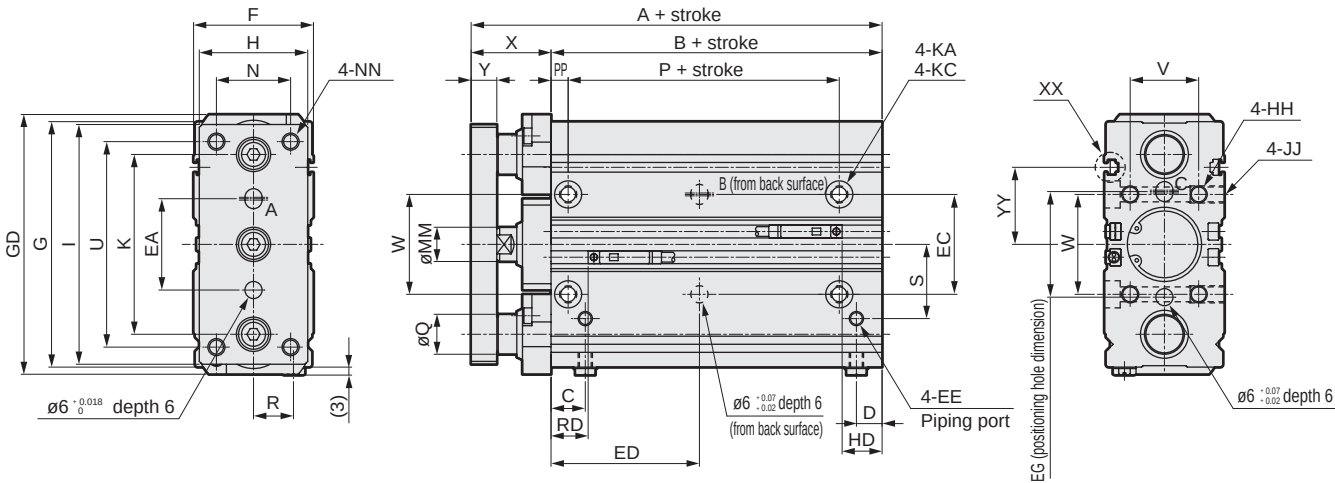
SCP3	Long service life cylinder
CMK2	
SCM	
SSD2	
MDC2	
MSD	
MSDG-L	
SMG	
LCR	
LCG	
STM	
STG	
STR2	
SCP3	Environment-resistant cylinder
CMK2	
SCM	
SCG	
SSD2	
SMG	
LCR	
STG	
STS STL	
LSH	Linear Slide Hand
LSHL	
LSHM	
LST	Low-profile long stroke hand
LSTM	
HMC	Wide Parallel Hand
CKW	Chuck
ABP2	Air Booster
SCP3	Compatible with rechargeable batteries
CMK2	
SCM	
SSD2	
MSD	
MSDG-L	
SMG	
STG	
STM	
LCR	
LCG	
STR2	
LSH	
LSHL	
SCP3	Supports food mfg. processes
CMK2	
SCM	
SCG	
SSD2	
STG	

STS-M_BG-HP1 Series



Dimensions (ø20, ø25)

- Standard single rod STS-M_BG-HP1
- Corrosion proof STS-M_BG-M/M1-HP1



Slot dimensions for A, B and C

XX part details

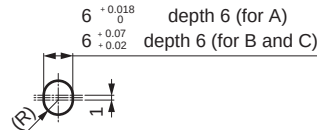
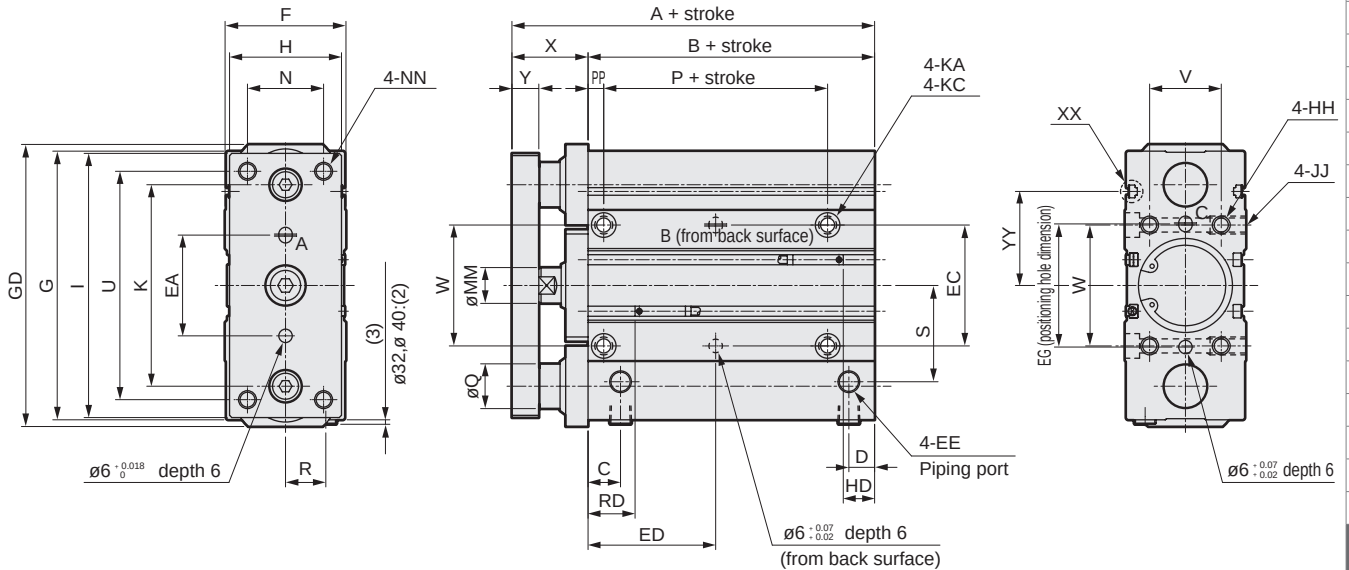
Code	Standard stroke(mm)		A	B	C	D	EE	EA	EC	EG	ED	F	G	GD	H	HH
Bore size(mm)																
ø20	25, 50		68	40	12	8	M5	30	31	33	14+ Stroke2	38	83	87	36	M6 depth 12
ø25			69	41	12	9	M5	32	35	37	14.5+ Stroke2	42	86	91	38	M6 depth 12
Code	I	JJ	K	KA	KC				MM	N	NN	P	PP	Q		R
Bore size(mm)	81	M6 depth 12	59	5.2 through	9.5 spot face depth 5.4				10	24	M6 through	20	6	STS-MSTS-B		13
ø20	81	M6 depth 12	59	5.2 through	9.5 spot face depth 5.4				10	24	M6 through	20	6	1412		13
ø25	84	M6 depth 12	63	5.2 through	9.5 spot face depth 5.4				12	26	M6 through	20	6	1412		14
Code	S	U	V	W	X	Y	YY	T0/T5/T2/T3		T2W/T3W						
Bore size(mm)								RD	HD	RD	HD					
ø20	24	69	20	31	28 ⁰ ₋₂	9	25	12	9.5	12.5	12.5					
ø25	26	72	24	35	28 ⁰ ₋₂	9	27	13	9	14.5	11					

- *1: When using a custom stroke, the dimensions are the same as the longer standard stroke.
- *2: Refer to "Pneumatic Cylinders II (No. CB-030SA)" for RD, HD and protruding dimensions of the 2-color LED (except for T2WH/V and T3WH/V), off-delay, AC magnetic field proof, T1H/V and T8H/V switches.

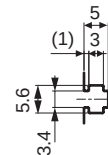
Dimensions (ø32, ø40, ø50, ø63)



- Standard single rod STS-M_BG-HP1
- Corrosion proof STS-M_BG-M/M1-HP1



Slot dimensions for A, B and C



XX part details

Code	Standard stroke(mm)		A	B	C	D	EE	EA	EC	EG	ED		F	G	GD	H	HH
Bore size (mm)			Stroke 2		Stroke 2		Stroke 2		Stroke 2								
ø32	25, 50		83	49	14	10.5	Rc1/8	42	45	46	17.5+	47	111	117	45	M8 depth 16	
ø40			87	53	14.5	12	Rc1/8	45	54	55	19.5+	54	120	126	50	M8 depth 16	
ø50			92	55	16	12.5	Rc1/4	55	66	69	19.5+	66	147	152	64	M10 depth 20	
ø63			98	61	17.5	17.5	Rc1/4	62	79	82	22.5+	79	162	166	75	M10 depth 20	
Code	I	JJ	K	KA	KC			MM	N	NN	P	PP	Q		R		
Bore size(mm)													STS-M	STS-B			
ø32	109	M8 depth 16	81	6.3 through	11 spot face depth 6.5			16	29	M8 through	22	7	20	16	16		
ø40	118	M8 depth 16	90	6.3 through	11 spot face depth 6.5			16	34	M8 through	25	7	20	16	18		
ø50	145	M10 depth 20	110	8.6 through	14 spot face depth 8.6			20	44	M10 through	26	8	25	20	22		
ø63	160	M10 depth 20	124	8.6 through	14 spot face depth 8.6			20	55	M10 through	26	8	25	20	26		
Code	S	U	V	W	X	Y	YY	T0/T5/T2/T3		T2W/T3W							
Bore size(mm)								RD	HD	RD	HD						
ø32	39	93	25	45	34 ⁰ ₋₂	12	39	17.5	13.5	19	15						
ø40	43	102	32	54	34 ⁰ ₋₂	12	42	21	14	22.5	16						
ø50	49	125	38	66	37 ⁰ ₋₂	16	45	22	16	23.5	16.5						
ø63	56	140	50	79	37 ⁰ ₋₂	16	52	20	23	21.5	24.5						

*1: When using a custom stroke, the dimensions are the same as the longer standard stroke.

*2: Refer to "Pneumatic Cylinders II (No. CB-030SA)" for RD, HD and protruding dimensions of the 2-color LED (except for T2WH/V and T3WH/V), off-delay, AC magnetic field proof, T1H/V and T8H/V switches.

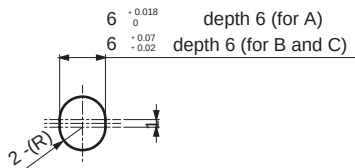
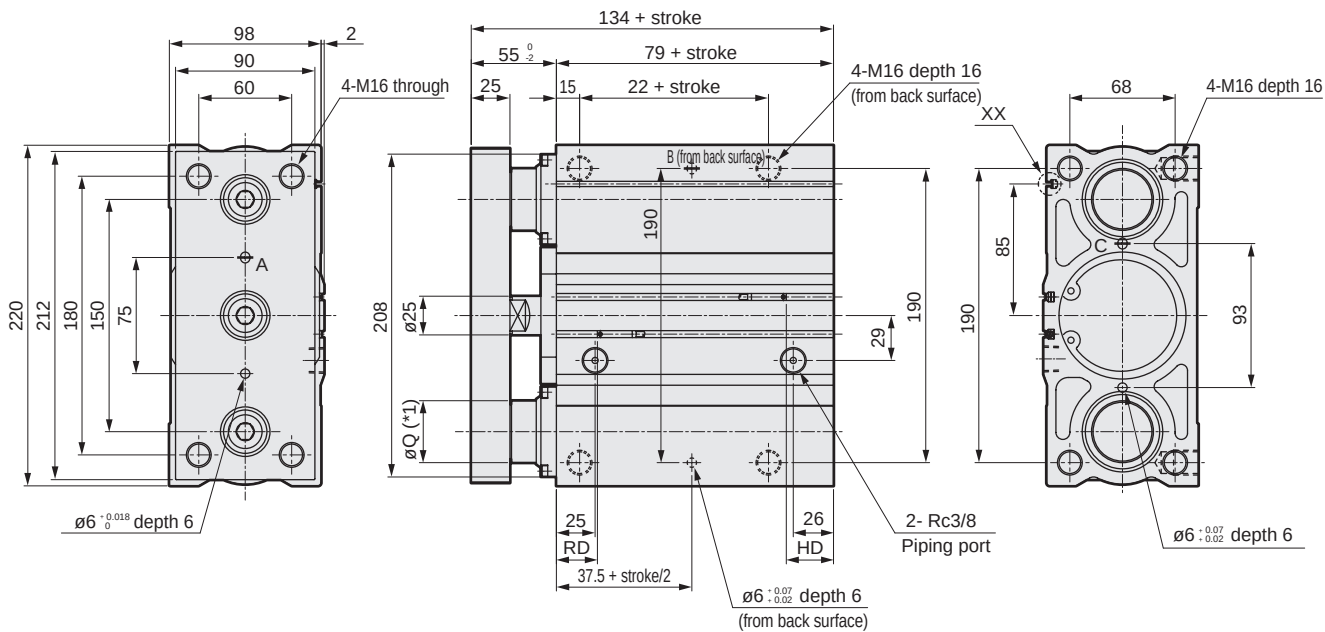
SCP D3	Long service life cylinder
CMK2	
SCM	
SSD2	
MDC2	
MSD	
MSDG-L	
SMG	
LCR	
LCG	
STM	
STG	
STR2	
SCP D3	Environment-resistant cylinder
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SMG	
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SCP D3	Supports food mfg. processes
CMK2	
SCM	
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STG	

STS-^M_BG-HP1 Series

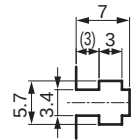


Dimensions (ø80)

- Standard single rod STS-^M_B G-HP1
- Corrosion proof STS-^M_B G-M/M1-HP1



Slot dimensions for A, B and C



XX part details

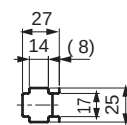
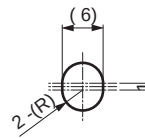
Code	T0/T5/T2/T3		T2W/T3W	
Bore size(mm)	RD	HD	RD	HD
ø80	26.5	30.5	28	35.5

*1: Dimension of Q is $\varnothing 40$ for M (metal bush bearing) and $\varnothing 35$ for B (ball bearing).

*2: When using a custom stroke, the dimensions are the same as the longer standard stroke. The Ø 80 standard stroke is available in four types of 25, 50, 75, 100mm.

*3: Refer to "Pneumatic Cylinders II (No. CB-030SA)" for RD, HD and protruding dimensions of the 2-color LED (except for T2WH/V and T3WH/V), off-delay, AC magnetic field proof, T1H/V and T8H/V switches.

- [illegible]



Slot dimensions for A, B and C

XX part details

Code	T0/T5/T2/T3		T2W/T3W	
Bore size(mm)	RD	HD	RD	HD
ø100	24	34.5	27	37

*1: Dimension of Q is $\varnothing 40$ for M (metal bush bearing) and $\varnothing 35$ for B (ball bearing).

*2: Refer to "Pneumatic Cylinders II (No. CB-030SA)" for RD, HD and protruding dimensions of the 2-color LED (except for T2WH/V and T3WH/V), off-delay, AC magnetic field proof, T1H/V and T8H/V switches.

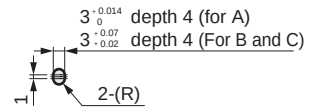
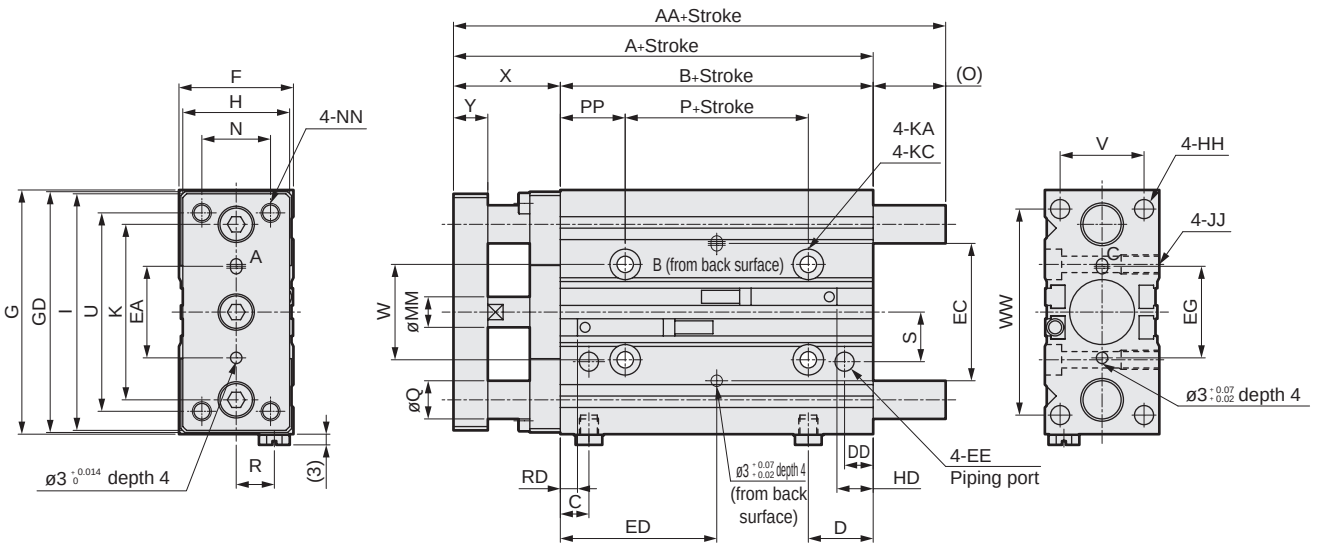
SCP3	Long service life cylinder	SCP3	Environment-resistant cylinder	Linear	Slide Hand	SCP3	Low-profile long stroke hand	SCP3	Wide Parallel Hand	SCP3	Chuck	SCP3	Air Booster	SCP3	Compatible with rechargeable batteries	SCP3	Supports food mfg. processes																			
CMK2		CMK2		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
SCM		SCM		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
SSD2		SSD2		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
MDC2		MDC2		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
MSD		MSD		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
MSDG-L		MSDG-L		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
SMG		SMG		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
LCR		LCR		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
LCG		LCG		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
STM		STM		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
STG		STG		LSH		LSHL		LST		LSTM		HMC		CKW		ABP2		CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG
STR2	STR2	LSH	LSHL	LST	LSTM	HMC	CKW	ABP2	CMK2	SCM	SSD2	MSD	MSDG-L	SMG	STG	STM	LCR	LCG	STR2	LSH	LSHL	SCP3	CMK2	SCM	SCG	SSD2	STG									

STL-^M_BG-HP1 Series



Dimensions: ø8, ø12, ø16

- Standard single rod STL- $\frac{M}{B}$ G-HP1
- Corrosion proof STL- $\frac{M}{B}$ G-M/M1-HP1



Slot dimensions for A, B and C

Code	Standard stroke	A	AA	B	C	D	DD	EE	EA	EC	ED	EG	F	G	GD	H	HH
Bore size (mm)	(mm)																
ø8	50,75,100	55	61	28	11	14.5	6.5	M5	20	25	15+ Stroke 2	20	24	53	51	22	M4 depth 8
ø12	125,150	59	68.5	32	7.5	14.5	7.5	M5	23	34	16+ Stroke 2	20	26	58	56	24	M4 depth 8
ø16	175, 200	60	79	32	7.5	17	7.5	M5	24	36	16+ Stroke 2	24	30	64	63	28	M5 depth 10

Code	I	JJ	K	KA	KC	MM	N	NN	O	P	PP	Q		R
Bore size (mm)												STL-M	STL-B	
ø8	51	M4 depth 10	40	3.3 through	6.5 spot face depth 3.3	4	15	M4 through	6	-10	20	6	5	7.5
ø12	56	M4 depth 10	41	3.3 through	6.5 spot face depth 3.3	6	16	M4 through	9.5	-2	17	8	6	8
ø16	62	M5 depth 10	46	4.3 through	8 spot face depth 4.4	8	18	M5 through	19	-2	17	10	8	10

Code	S	U	V	W	WW	X	Y	T0/T5/T2/T3		T2W/T3W	
Bore size (mm)								RD	HD	RD	HD
ø8	13.5	43	16	25	45	27 ⁰ _{-1.5}	8	6.5	2.5	8.5	4.5
ø12	12.5	48	17	23	50	27 ⁰ _{-1.5}	8	5	8.5	7	10.5
ø16	13	52	22	25	54	28 ⁰ _{-1.5}	9	4.5	9.5	6	11.5

*1: When using a custom stroke, the dimensions are the same as the longer standard stroke.

*2: Refer to "Pneumatic Cylinders II (No. CB-030SA)" for RD, HD and protruding dimensions of the 2-color LED (except for T2WH/V and T3WH/V), off-delay, AC magnetic field proof and T1H/V switches.

- Slot dimensions for A, B and C

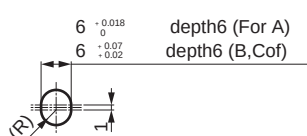
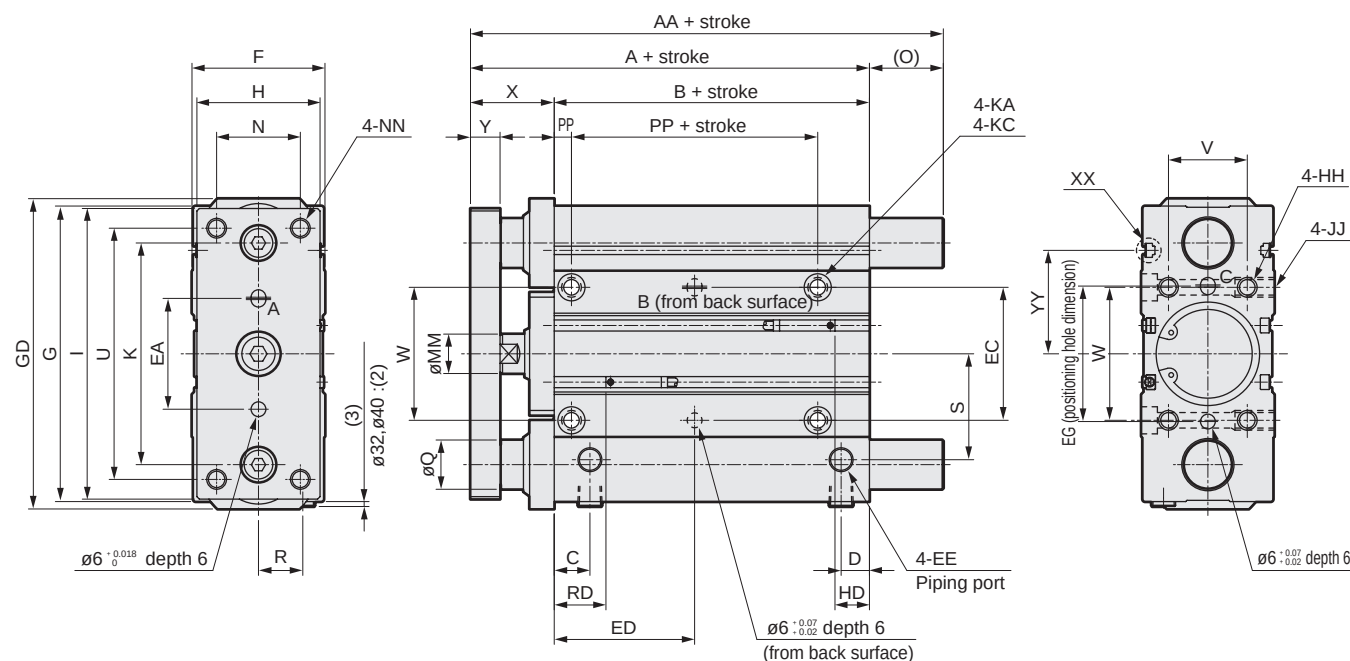
*1: When using a custom stroke, the dimensions are the same as the longer standard stroke.
*2 : Refer to "Pneumatic Cylinders II (No. CB-030SA)" for RD, HD and protruding dimensions of the 2-color LED (except for T2WH/V and T3WH/V), off-delay, AC magnetic field proof, T1H/V and T8H/V switches.

STL-B^MG-HP1 Series

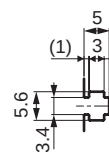


Dimensions (ø32, ø40, ø50, ø63)

- Standard single rod STL-B^MG-HP1
- Corrosion proof STL-B^MG-M/M1-HP1



Slot dimensions for A, B and C



XX part details

Code	Standard stroke(mm)	A	AA	B	C	D	EE	EA	EC	EG	ED	F	G	GD	H	HH
Bore size(mm)																
ø32	50, 75, 100, 125, 150,	83	117	49	14	10.5	Rc1/8	42	45	46	17.5+ Stroke 2	47	111	117	45	M8 depth 16
ø40	175, 200, 225, 250, 275,	87	117	53	14.5	12	Rc1/8	45	54	55	19.5+ Stroke 2	54	120	126	50	M8 depth 16
ø50	300, 325, 350, 375, 400	92	140	55	16	12.5	Rc1/4	55	66	69	19.5+ Stroke 2	66	147	152	64	M10 depth 20
ø63		98	140	61	17.5	17.5	Rc1/4	62	79	82	22.5+ Stroke 2	79	162	166	75	M10 depth 20

Code	I	JJ	K	KA	KC	MM	N	NN	O	P	PP	Q		R	S	U	V	W
Bore size(mm)												STL-M	STL-B					
ø32	109	M8 depth 16	81	6.3 through	11 spot face depth 6.5	16	29	M8 through	34	22	7	20	16	16	39	93	25	45
ø40	118	M8 depth 16	90	6.3 through	11 spot face depth 6.5	16	34	M8 through	30	25	7	20	16	18	43	102	32	54
ø50	145	M10 depth 20	110	8.6 through	14 spot face depth 8.6	20	44	M10 through	48	26	8	25	20	22	49	125	38	66
ø63	160	M10 depth 20	124	8.6 through	14 spot face depth 8.6	20	55	M10 through	42	26	8	25	20	26	56	140	50	79

Code	X	Y	YY	T0/T5/T2/T3		T2W/T3W	
Bore size(mm)				RD	HD	RD	HD
ø32	34 ^{+0/-2}	12	39	17.5	13.5	19	15
ø40	34 ^{+0/-2}	12	42	21	14	22.5	16
ø50	37 ^{+0/-2}	16	45	22	16	23.5	16.5
ø63	37 ^{+0/-2}	16	52	20	23	21.5	24.5

*1: All dimensions not shown are the same as those of the standard. When using a custom stroke, the dimensions are the same as the longer standard stroke.

*2: Refer to "Pneumatic Cylinders II (No. CB-030SA)" for RD, HD and protruding dimensions of the 2-color LED (except for T2WH/V and T3WH/V), off-delay, AC magnetic field proof, T1H/V and T8H/V switches.

SCP3D3	Long service life cylinder	CMK2	Environment-resistant cylinder	SCM	Linear Slide Hand	SSD2	Low-profile long stroke hand	MSD	Wide Parallel Hand	MSGD-L	Chuck	SMG	Air Booster	STG	Compatible with rechargeable batteries	STM	Supports food mfg. processes	LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2		SCP3D3		CMK2		SCM		SSD2		MSD		MSGD-L		SMG		STG		STM		LCR		LCH		STR2		LSH		LSHL		LSHM		LST		LSTM		HMC		CKW		ABP2
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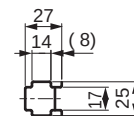
STL-^M_BG-HP1 Series



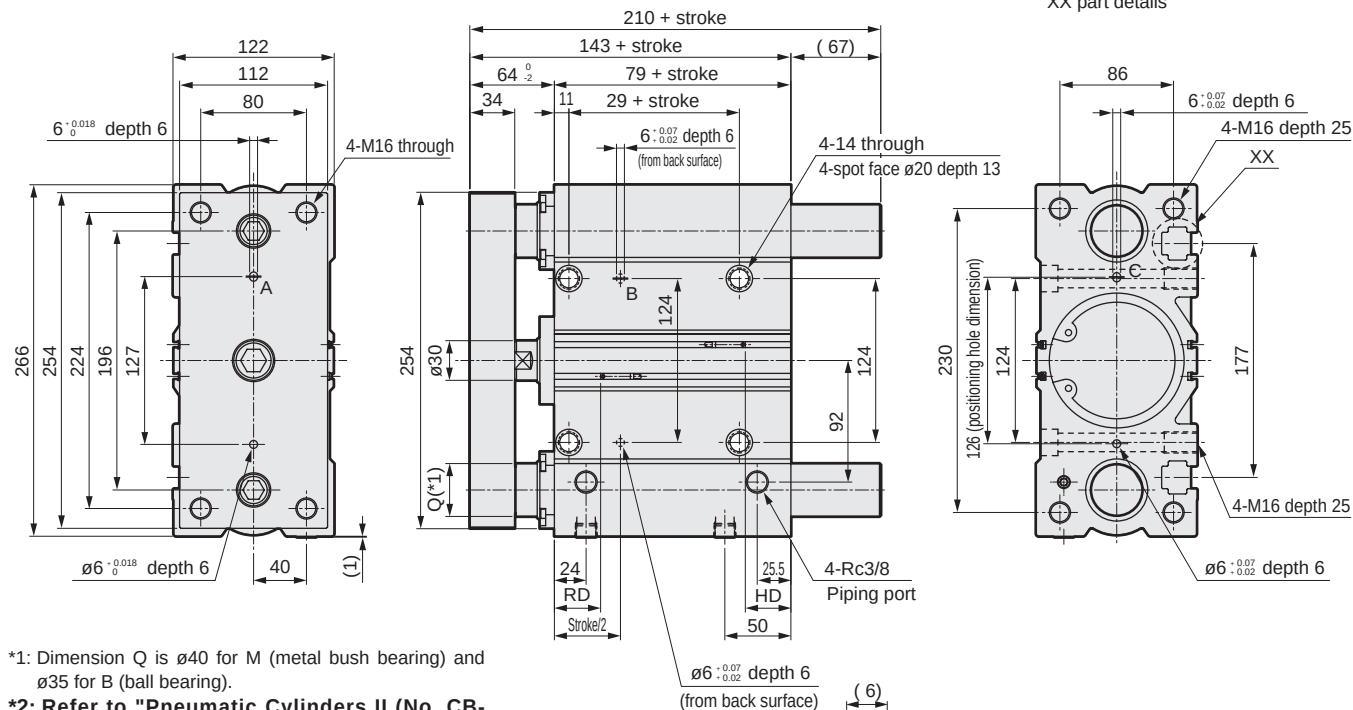
Dimensions (ø100)

- Standard single rod STL-^M_BG-HP1
- Corrosion proof STL-^M_BG-M/M1-HP1
- Copper and PTFE free STL-^M_BG-P6-HP1

[100 Stroke or less]



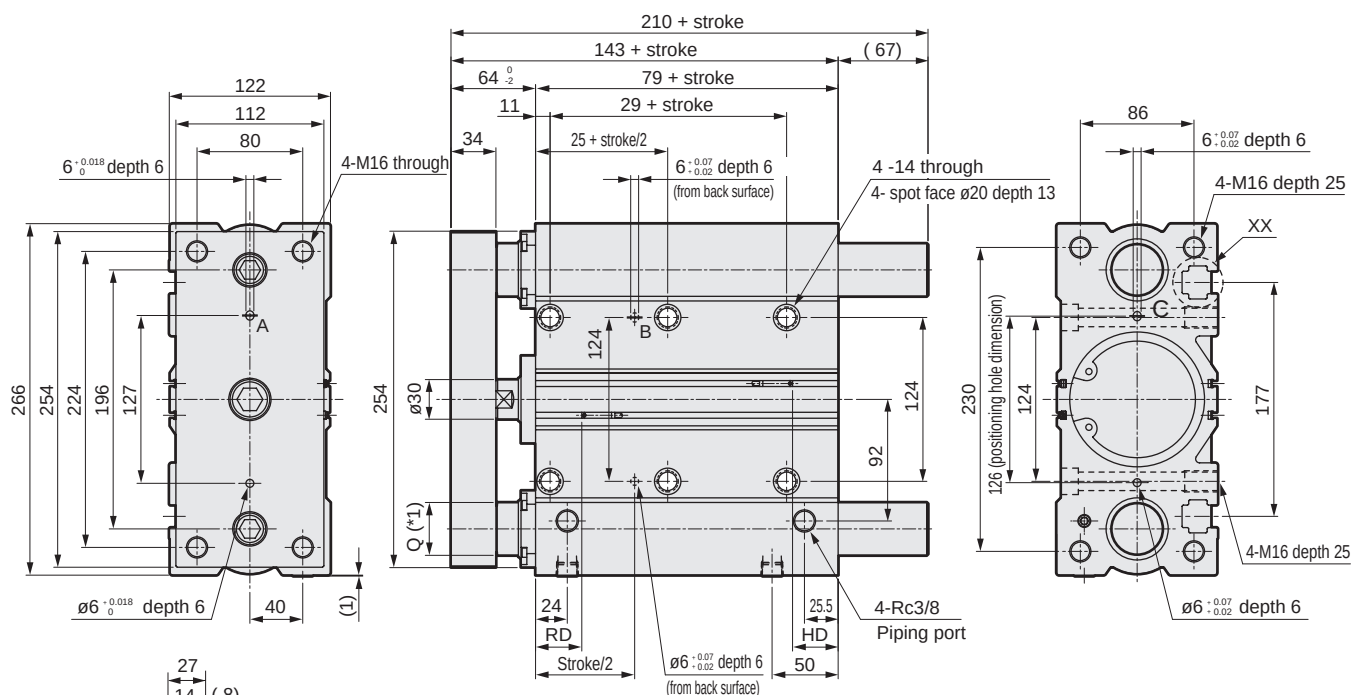
XX part details



Slot dimensions for A, B and C

Code	T0/T5/T2/T3		T2W/T3W	
Bore size(mm)	RD	HD	RD	HD
ø100	25	35	27	37

[stroke of 125 and over]



XX part details

CKD