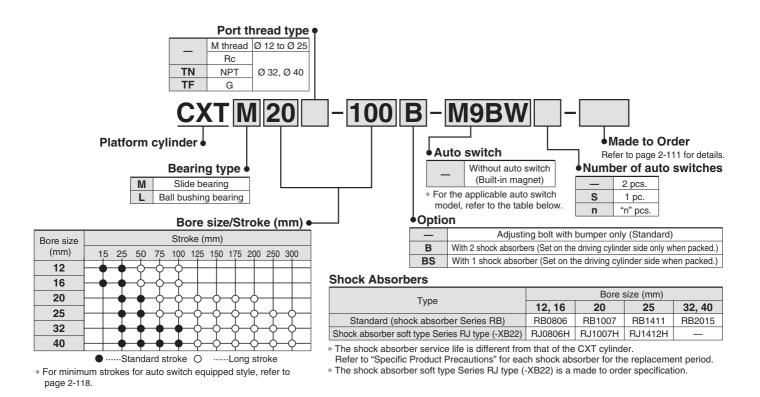


Platform Cylinder Series CXT Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40

A highly rigid	hand highly	accurate slide t	ahle ir	ntear	ated w	ith an	actua	tor	CL
••••	• •	ngs to accommod		•			actua		MLG
Slide bearing—fo	or heavy loads	curate and smooth ope	2						CNA
Dan bushing bea			adon	1	2				CNG
			-//					nes can	MNB
			0-2-	X		be i	nstalled	l.	CNS
								ber can	CLS
					k	be insta	illed (op	otion).	СВ
		0				an be r vo side	nounte	d on	
۲	64 3	()				unting from		Inting from	CV/MVG
					upp	er side	bott	om side	CXW
					<i></i>				CXS
			Guide	e of hi	gh rigio	lity		H	CXT
Adjustment bo	olt with bumper			Max.	CXTM (Slie	de bearing)		shing bearing)	МХ
Performs the function of side, or 10mm for both		the stroke 5 mm on each	Series	movable weigh (kg)	Table displacement (mm)	Allowable static weight (kg)	Table displacement (mm)	Allowable static weight (kg)	MXU
or moving and transporting	For moving the receptac	e For using as a P&P unit in	CXT□12 CXT□16	3 7	0.002 0.004	350 500	0.015 0.019	60 70	МХН
vorkpieces.	for workpieces used in stamping or press-fitting	combination with other actuators.	CXT□20 CXT□25	12 20	0.007 0.030	900 900	0.044 0.180	125 125	MXS
	processes.	~	CXT□32 CXT□40	30 50	0.032	1100 1900	0.123	140 170	MXQ
a second			Note 1) Tat	ble displace	ement Note		placement" is on of the guid		
	J.J.					occurs wh is placed	ien a maximu on the maxim	im load weight ium stroke	
	a de la		Note 2) Allo	owable stat	ic load		`	at the center it of looseness	MXW
		and the second sec			. Note	2) An "allowa the allowa	able stationar Ible amount c	of stationary	MXP
Variations						to the wor	at can be app kpiece moun le while the ta	ting surface	MG
	ore size	Stroke (mm)				stroke en			MGP
Slide Ball bushing CXTM12 CXTL12	15 25 50 75 12	100 125 150 175 200 250 300	_						MGQ
CXTM16 CXTL16	16		_						MGG
		Ĭ							MGC
CXTM20 CXTL20			_						MGF
CXTM25 CXTL25	25		_						MGZ
CXTM32 CXTL32	32	$\begin{array}{c} \bullet & \circ & \circ & \circ & \circ \\ \bullet & \circ & \circ & \circ & \circ & \circ & \circ \\ \bullet & \circ & \circ & \circ & \circ & \circ & \circ \\ \bullet & \circ \\ \bullet & \circ \\ \bullet & \circ &$	-						
CXTM40 CXTL40	40	<u> </u>	_						CY
	•S	tandard stroke OLong stro	ke						MY
		SMC						2-109)

Platform Cylinder Series CXT Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40

How to Order



Applicable Auto	Switches/Refer to Auto Switch Guide for further information on auto switches.
------------------------	---

· · ·		_	ight	Wiring Load voltage Auto switch part no. Lead		ad v	vire l	engt	h																																		
Туре	Special function	Electrical entry	Indicator light	(Output)	DC		AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)		Applicable load																											
				3-wire (NPN)		5 V,		M9NV	M9N				0	-	0	10																											
с				3-wire (PNP)		12 V		M9PV	M9P				0	—	0	IC circuit																											
wit				2-wire		12 V		M9BV	M9B				0	-	0	_																											
s	Dia sus actia in dia atian									1								3-wire (NPN)		5 V,		M9NWV	M9NW				0	-	0	IC circuit													
aut	Diagnostic indication	Grommet	s	3-wire (PNP)	(PNP) 24 V	12 V		M9PWV	M9PW				0	-	0		Relay,																										
te	(2-color indication)	Grommer	Yes	2-wire	12 V	_	M9BWV	VV M9BW 🔴				0	—	0	_	PLC																											
state	Mater and interest					3-wire (PNP)	(PNP)	Ę	5 V,	V,	M9NAV*1	M9NA*1	0	0		0	-	0	10																								
Solid	Water resistant			3-wire (PNP)		12 V		M9PAV*1	M9PA*1	0	0		0	-	0	IC circuit																											
S	(2-color indication)													2-wire		1														ŀ		12 V		M9BAV*1	M9BA*1	0	0		0	—	0		
	Magnetic field resistant(2-color indication)			2-wire (Non-polar)		—		—	P3DWA		—			-	0	_																											
	Gron		Yes	3-wire (NPN equivalent)		5 V		A96V	A96		—		—	-	—	IC circuit																											
eec vito		Grommet	×	0 surino	24 V	12 V	100 V	A93V*2	A93					-	—	—	Relay,																										
S a B			Р	2-wire	24 V	5 V,12 V	100 V or less	A90V	A90		—		—	-	—	IC circuit	PLC																										

* Solid state auto switches marked with "O" are produced upon receipt of order.

* D-P3DWA□ is compatible with Ø 25 to Ø 40.

*1) Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Consult with SMC regarding water resistant types with the above model numbers.

*2) 1 m type lead wire is only

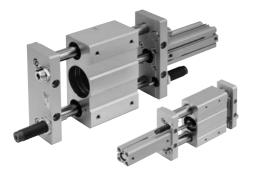
*2) I III type lead whe is only	applicable to D-	A30.	
* Lead wire length symbols:	0.5 m	Nil	(Example) M9NW
	1 m	Μ	(Example) M9NWM

xample) M9NWM (Example) M9NWL L

3 m (Example) M9NWZ Ζ 5 m

* Since there are other applicable auto switches than listed, refer to page 2-120 for details.

* For details about auto switches with pre-wired connector, refer to Auto Switch Guide. For the D-P3DWA, refer to the WEB catalog.



El.:4			•						
Fluid			lir Nooting						
Proof pressure			e acting MPa						
Max. operating pressure			1Pa ⁽¹⁾						
Min. operating pressure		0.15 MPa							
Ambient and fluid temperature		-10 to 60 °C (No freezing)							
Piston speed		50 to 500 mm/s							
Cushion	Bumper (Both	50 to 500 mm/s umper (Both sides/Standard), Shock absorber (Option)							
Lubrication		Not required	d (Non-lube)		CNG				
Stroke adjustable range	–10 mm (Fe	orward end, Ba	ackward end: –	5mm each)					
Note) Maximum operatin Note) The maximum ope				re.	MNB				
Shock Absorber S		-			CNS				
	poomouti				CLS				
Model	СХТ□ <mark>12</mark> 16	CXT□20	CXT□25	СХТ□ ³² 40	СВ				
Shock absorber	RB0806	RB1007	RB1411	RB2015					
	2 94	5.88	14 7	58.8	CV/MVG				

Made to Order

Symbol	Specifications								
X138	Adjustable stroke type								
X777	Fluororubber seals (Actuating cylinder unit only)								
XB13	Low speed cylinder (5 to 50 mm/s)								
XB22	Shock absorber soft type Series RJ type								

Shock absor	ber	RB0806	RB1007	RB1411	RB2015					
Max. absorbed energy (J)		2.94	5.88	14.7	58.8	CV/MVG				
Absorbed str	oke (mm)	6	6 7 11		15	CXW				
Collision spe	ed		0.05 to	o 5m/s	•					
Max. operating fre	quency * (cyc/min)	80	70	45	25	CXS				
Ambient tem	perature		–10 to 80 °C							
Spring	Expanded	1.96	4.22	6.86	8.34	CXT				
force (N) Compresse		4.22	6.86	15.30	20.50					
Weight (g)		15	25	65	150	MX				
			energy per cycle is a increased in accord			MXU				
The shock ab	sorber service lif	e is different fror	n that of the CXT	cylinder		MXH				
1.2 million cyc	the operating co			-		MXS				

Series Applicable to Operating Environments thatDo Not Accept Copper

Copper/Fluorine-free specifications-----Series 20-

Theoretical Force

2 million cycles

					(N)	
Cylinder bore size	Operating	Piston	Operatir	ng pressu	re (MPa)	OUT 🚽
(mm)	direction	area (mm²)	0.3	0.5	0.7	F
12	IN	84.8	25	42	59	
12	OUT	113	34	57	79	L
16	IN	151	45	75	106	
10	direction IN OUT	201	60	60 101		
20	IN	236	71	118	165	
20	OUT	314	94	157	220	
25	IN	378	113	189	264	
25	OUT	491	147	245	344	
32	IN	603	181	302	422	
52	OUT	804	241	402	563	
40	IN	1056	317	528	739	
40	OUT	1257	377	628	880	

RB10□□ to RB2725

Note) Specified service life (suitable replacement period) is the value at room temperature (20 to 25 °C). The period may vary depending on

the temperature and other conditions. In some cases the absorber

may need to be replaced before the allowable operating cycle above.

Theoretical force (N) = Pressure (MPa) X Piston area (mm²)

МХ
MXU
МХН
MXS
MXQ
MXF
MXW
MXP
MG
MGP
MGQ
MGG
MGC
MGF
MGZ
СҮ
MY

IN

Series CXT

Weight

CXTM	(Slide	bearing)
------	--------	----------

CXTW (Sinde	bearing)									(kg)
Stroke (mm) Bore size (mm)		25	50	75	100	125	150	175	200	250	300
12	0.85 (0.35)	0.90 (0.35)	1.02 (0.35)	1.13 (0.36)	1.25 (0.37)	_	_	_	_	_	_
16	1.18 (0.50)	1.24 (0.50)	1.39 (0.51)	1.54 (0.52)	1.68 (0.53)	_	_	_	_	_	_
20	_	2.35 (0.85)	2.61 (0.87)	2.89 (0.88)	3.15 (0.90)	3.41 (0.91)	3.66 (0.93)	3.92 (0.94)	4.18 (0.96)	_	_
25	_	2.76 (1.09)	3.03 (1.11)	3.34 (1.14)	3.62 (1.16)	3.89 (1.18)	4.16 (1.21)	4.43 (1.23)	4.70 (1.25)	5.25 (1.30)	5.79 (1.34)
32	_	4.62 (2.06)	4.98 (2.10)	5.34 (2.14)	5.70 (2.17)	6.00 (2.21)	6.35 (2.25)	6.69 (2.29)	7.04 (2.33)	7.73 (2.41)	8.43 (2.49)
40	_	8.30 (3.71)	8.82 (3.75)	9.32 (3.79)	9.83 (3.83)	10.40 (3.87)	10.91 (3.91)	11.43 (3.95)	11.95 (3.99)	12.98 (4.07)	14.02 (4.15)
CXTL (Ball b	CXTL (Ball bushing bearing) (kg)										
Stroke (mm) Bore size (mm)		25	50	75	100	125	150	175	200	250	300

	(mm) 15	25	50	75	100	125	150	175	200	250	300
12	0.75 (0.41)	0.78 (0.42)	0.85 (0.42)	0.92 (0.42)	0.98 (0.43)	-	_	_	_	_	—
16	1.05 (0.57)	1.08 (0.57)	1.18 (0.58)	1.27 (0.59)	1.35 (0.60)	_	_	_	_	_	_
20	_	2.00 (1.02)	2.15 (1.04)	2.32 (1.05)	2.46 (1.07)	2.60 (1.08)	2.75 (1.10)	2.89 (1.11)	3.03 (1.13)	_	_
25	_	2.41 (1.25)	2.57 (1.28)	2.77 (1.30)	2.92 (1.33)	3.08 (1.35)	3.24 (1.37)	3.40 (1.39)	3.56 (1.42)	3.78 (1.46)	4.19 (1.50)
32	_	4.23 (2.26)	4.47 (2.30)	4.71 (2.34)	4.95 (2.38)	5.13 (2.42)	5.36 (2.46)	5.59 (2.50)	5.82 (2.54)	6.27 (2.62)	6.73 (2.70)
40	_	7.55 (4.31)	7.86 (4.35)	8.16 (4.39)	8.46 (4.43)	8.82 (4.47)	9.13 (4.51)	9.44 (4.55)	9.75 (4.59)	10.37 (4.67)	10.99 (4.74)

Note 1) Factors in parentheses are weight of movable parts (weight of movable parts of the cylinder is included.)

Note 2) The weight indicated above does not include a shock absorber



Operation

- Make sure not to apply to the slide block a load that exceeds the value that has been calculated in the selection procedure.
- ② Operate the cylinder securing it by its plates, not by securing it by its slide block.
- ③ The clearance between the slide block and the plate at the stroke end is approximately 1 mm to 6 mm. It could be extremely dangerous, as there is the risk of getting your fingers caught. Install a cover as necessary.
- ④ At both stroke ends, adjust the damper portion at the end of the adjustment bolt so that it comes in contact with the slide block. (The clearance between the slide block and the plate must be 1mm or more.)

If it is operated without making any contact, the piston rod of the actuating cylinder or the connecting hardware (adapter) could become damaged by an excessive impact, or the slide block could collide with the plate and create an abnormal noise.

- (5) The load weight or operating speed will be limited if only the adjustment bolt is used. Refer to the section on "Allowable load when only the adjustment bolt is used" on p.2-113
- 6 Contact SMC if this product will be used in an environment in which the piston rod and the guide shaft surfaces will be exposed to water (hot water), coolant, cutting chips, or dust.
- The slide block bearings must be greased periodically. Inject grease (Class 1 or 2 lithium soap grease consistency) through the grease inlet.

Note) On those with a cylinder bore of \varnothing 12, apply grease to the guide shaft.

⑧ To operate the cylinder, use a non-lubricating air supply. To lubricate, use Class 1 turbine oil (ISOVG32). (Never use machine oil or spindle oil.)

Installation

- ① While a high level of flatness is desired for the surface on which the cylinder is to be mounted, if sufficient flatness cannot be attained, use shims to adjust the installation of the cylinder so that the slide block can operate throughout its stroke under the minimum operating pressure.
- ② Do not scratch or gouge the piston rod of the actuating cylinder, as this could damage the rod seal and lead to air leaks. The same applies to the guide shaft.
- ③ Make sure not to apply shocks or excessive moment to the slide block of the ball bushing style.
- ④ The port direction of the actuating cylinder can be changed in 90 increments by removing the four bolts that secure the cylinder in place. After changing the direction, verify the operation at the minimum operating pressure.
- (5) Before the installation, thoroughly flush out the piping to prevent dust or cutting chips from entering the cylinder.
- 6 The mounting position of the adjustment bolt and the shock absorber cannot be inverted due to the constraints imposed by the locating pin for the shock absorber that is provided on the slide block. To invert the position, contact SMC.

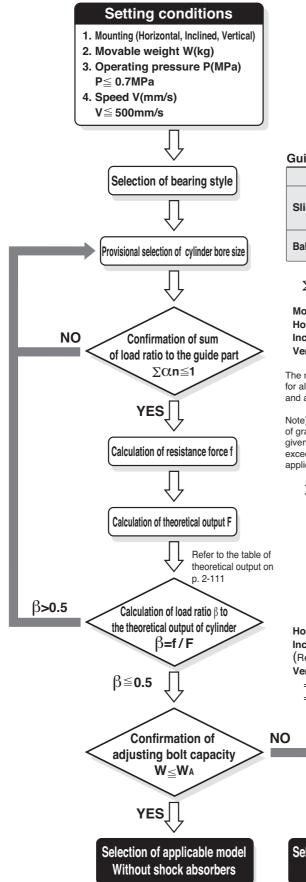
Handling the shock absorber

- The RB Series (SMC made) shock absorbers can absorb a wide range of energy without requiring adjustment. (No adjustment screw is provided.)
- provided.)
 The screw at the bottom is not for adjustment. Never turn this screw as it could cause an oil leak (lowered performance).
- 3 Do not scratch the surface of the shock absorber rod because doing so could affect the shock absorber's durability or lead to poor retraction.



Series CXT How To Select Models

Selection Procedures



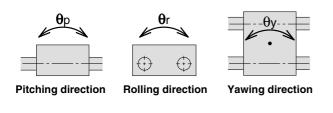
Required conditions act load and vibration load are added. nge in load is large. g life span is required. n accuracy (Little rattle is allowed.) both operation tt[W] twitter the state is allowed.) poth operation the span is required. maccuracy (Little rattle is allowed.) poth operation the span is required. the span is required. maccuracy (Little rattle is allowed.) poth operation the span is required. the span is required. </th
both operation tt[W] + Moment[mn] [Wmax] + Allowable moment[Mn] follows in compliance to the mounting way mage gragle of inclination, Refer to the diagram below.) >> b) accordance with the above formula max and Mn, refer to the maximum laod mass the next section. the between the guide shaft center to the center teed the distance GP between the guide shafts o the diagram below.) If the distance must be trumstances, decrease the load rate that is below in order to determine the distance.
[Wmax] Allowable moment[Mn] follows in compliance to the mounting way gragle of inclination, Refer to the diagram below.) accurated in accordance with the above formula max and Mn, refer to the maximum laod mass the next section. The between the guide shaft center to the center teed the distance GP between the guide shafts to the diagram below.) If the distance must be crumstances, decrease the load rate that is below in order to determine the distance.
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Ingle of inclination, Refer to the diagram below.) acculated in accordance with the above formula max and Mn, refer to the maximum laod mass the next section. The between the guide shaft center to the center teed the distance GP between the guide shafts to the diagram below.) If the distance must be cumstances, decrease the load rate that is below in order to determine the distance.
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o the diagram below.) If the distance must be cumstances, decrease the load rate that is below in order to determine the distance.
below in order to determine the distance.
ded that L>GP)
(mm)
nder bore size 12 16 20 25 32 40
e between guide rods GP 50 65 80 90 110 130
N/
W $\cos\theta + W \sin\theta$
right.)
s) θ
θ
a tha mayable waight We which
e the movable weight WA which perated only by adjusting bolts.
• •

Selection of applicable model With shock absorbers

2-113

Series CXT

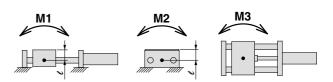
Non-rotating Accuracy of Slide Block



Bore size (mm)		TM bearing)	CXTL (Ball bushing bearing)					
((((((((((((((((((((((((((((((((((((((($\theta p(=\theta y)$	θr	θp(=θy)	θr				
12	±0.09°	±0.12°	±0.05°	±0.05°				
16	±0.08°	±0.10°	±0.05°	±0.04°				
20	±0.07°	±0.08°	±0.04°	±0.03°				
25	±0.07°	±0.07°	±0.04°	±0.03°				
32	±0.08°	±0.07°	±0.04°	±0.03°				
40	±0.06°	±0.06°	±0.03°	±0.03°				

Table of Maximum Movable Weight and Allowable Moment

Bore size	Bearing	Max. movable weight	Allowable moment (N·m)				
(mm)	Dearing	Wmax (kg)	M1(=M3)	M2			
12	Slide	0	1.25	1.68			
12	Ball bushing	3	0.53	0.70			
16	Slide	7	3.34	4.25			
10	Ball bushing	/	1.53	2.11			
20	Slide	12	11.4	17.1			
20	Ball bushing	12	5.60	7.28			
25	Slide	00	11.4	19.3			
25	Ball bushing	20	5.60	8.19			
32	Slide	30	19.8	23.3			
32	Ball bushing		10.1	14.8			
40	Slide	FO	37.3	46.2			
40	Ball bushing	50	21.3	27.5			



Note) For the purpose of calculating the moment, the length of the arm is the distance that is measured from the guide shaft center ("•" mark). Dimension *t* from the guide shaft center to the top surface of the table is indicated below.

						(mm)
Bore size	12	16	20	25	32	40
<i>t</i> dimension	19.5	24	28	31	39.5	47.5

Allowable Load Only by Adjusting Bolts

If only the adjustment bolt is used for stopping the load, make sure that the load weight and the speed will be below the curve in the graph on the right, taking into consideration the durability of the rubber bumper that is attached to the end of the adjustment bolt and the vibration and noise that are created when stopping (provided that the maximum load weight is not exceeded).

In conditions in which the load mass and the speed will be above the curve, use a shock absorber (provided that the maximum load weight is not exceeded).

Caution

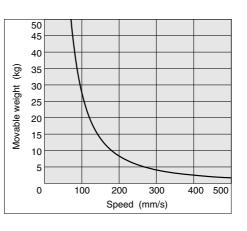
In the case of the ball bushing style, the service life could be drastically shortened if shocks or excessive moments are applied. Therefore, even if the conditions given above are not exceeded, the use of a shock absorber is recommended.

Static Movable Weight When Stopped

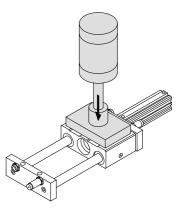
When the CXT Series cylinder is used for moving the workpiece receptacle, such as in a stamping or press-fitting process, a vertical load will be applied to the top surface of the stopped slide block (refer to the diagram on the right). In this case, the allowable weight is greater than the maximum load weight, as given in the table on the right.

🔨 Caution

- Make sure that the slide block is stopped at the stroke end.
- Match the center of the weight to be applied with the center of the slide block. The direction of the weight must be vertically downward in relation to the surface on which the workpiece is mounted, as shown in the diagram on the right.
- Obo not apply a load that involves shocks such as those caused by pounding (particularly with the ball bushing style).
- () If this weight is applied, the deflection of the guide shaft will also have a large value.



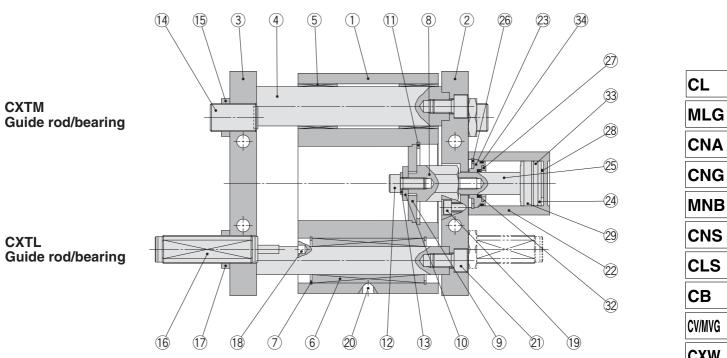
Bore size (mm)	CXTM (Slide bearing)	CXTL (Ball bushing bearing
12	350	60
16	500	70
20	900	125
25	900	125
32	1100	140
40	1900	170

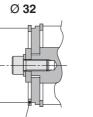




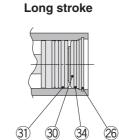
Platform Cylinder Series CXT

Construction





1



CNS
CLS
СВ
CV/MVG
CXW
CXS
CXT
MX
MXU
MXH

Component Parts

Com			
No.	Description	Material	Note
1	Slide block	Aluminum alloy	Anodized
2	Plate A	Aluminum alloy	Anodized
3	Plate B	Aluminum alloy	Anodized
4	Guide rod	Carbon steel	Hard chrome plating
5	Slide bearing	Bearing alloy	
6	Ball bushing bearing	_	
7	Type C retaining ring	Carbon tool steel	Phosphate coating
8	Adapter	Carbon steel	Electroless nickel plating
9	Connected disk	Carbon steel	Electroless nickel plating
10	Washer	Carbon steel	Zinc chromated
11	Type C retaining ring	Carbon tool steel	Phosphate coating
12	Hexagon socket head cap screw	Carbon steel	Zinc chromated
13	Spring washer	Steel wire	Zinc chromated
14	Adjusting bolt (With bumper)	Carbon steel, Urethane	Zinc chromated
15	Nut	Carbon steel	Zinc chromated
16	Shock absorber	—	Option
17	Nut	Carbon steel	Zinc chromated
18	Parallel pin	Carbon steel	

	0	0 0 0	\bigcirc		
Comp	onent Parts				MXS
No.	Description	Material	1	lote	
19	Hexagon socket head cap screw	Carbon steel	Zinc c	hromated	MXQ
20	Grease nipple	_	Ø 16 to Ø 40	Nickel plating	
21	Hexagon socket head cap screw	Carbon steel	Zinc c	hromated	MXF
22	Cylinder tube	Aluminum alloy	Hard	anodized	IWIAF
23	Collar	Aluminum alloy	And	odized	
24	Piston	Aluminum alloy	Chromated		MXW
	Piston rod	Stainless steel	Ø 12 to Ø 25	_	
25	FISIOITIOU	Carbon steel	Ø 32, Ø 40	Hard chrome plating	MXP
26	Type C retaining ring	Carbon tool steel	Phosph	ate coating	
27	Bumper A	Urethane			MG
28	Bumper B	Urethane			MA
29	Magnet	—			
30	Bottom plate	Aluminum alloy	And	odized	MGP
31	Wear ring	Resin			
32	Rod seal	NBR			MGQ
33	Piston seal	NBR			
34	Tube gasket	NBR			MGG

Replacement Parts/Seal Kit

14			Kit	no.			
Cylinder	CXT□12	CXT□16	CXT□20	CXT□25	CXT□32	CXT□40	MGF
Stroke	CDQSB12	CDQSB16	CDQSB20	CDQSB25	CDQ2A32	CDQ2A40	
Standard stroke	CQSB12-PS	CQSB16-PS	CQSB20-PS	CQSB25-PS	CQ2B32-PS	CQ2B40-PS	MGZ
Long stroke	CQSB12-L-PS	CQSB16-L-PS	CQSB20-L-PS	CQSB25-L-PS	CQ2A32-L-PS	CQ2A40-L-PS	
* Seal kit includes 32, 33	and 34. Order the seal	kit with the kit number.					CY

* Seal kit includes 32, 33 and 34. Order the seal kit with the kit number.

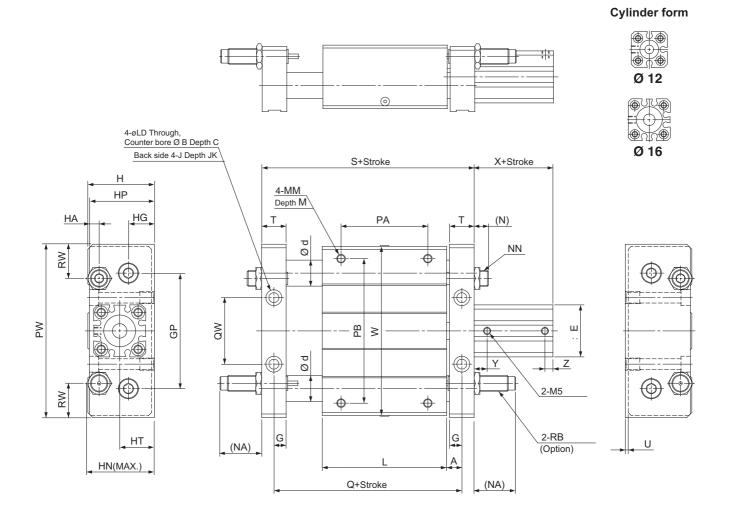
* Since the seal kit does not include a grease pack, order it separately.

Grease pack part no.: GR-S-010 (10 g)

MGC

MY

Series CXT Dimensions Ø 12 to Ø 25



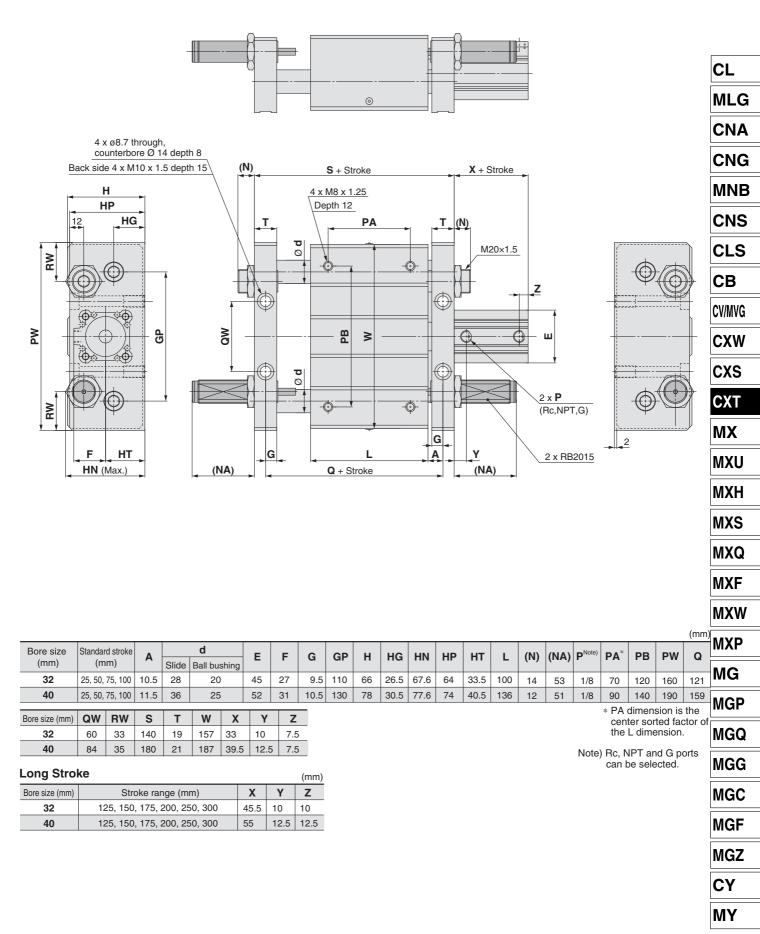
																					(mm)
Bore size	Standard stroke	•	в	с		d		Е	G	GP	н	НА	HG	HN	НР	нт			ЈК		LD
(mm)	(mm)	Α	Р		Slide	Ball b	ushing		G	GF	п	па	по		пг	пі		,	JR	L	LD
12	15, 25	8.5	8	4	16	1	0	25	7.5	50	34	6	14.5	34	33	18	M	15	9.5	68	4.3
16	15, 25	7.5	9.5	5	18	1	2	29	6.5	65	40	6.5	16	39.5	39	21	Μ	16	9.5	75	5.2
20	25, 50	9.5	11	6.5	25	1	6	36	8.5	80	46	9	18	44.1	45	24	Μ	18	10	86	6.9
25	25, 50	9.5	11	6.5	25	1	6	40	8.5	90	54	9	23	55	53	28	Μ	18	10	86	6.9
D i ()			((_	_		-	_				v	_
Bore size (mm)	MM	М	(N)	(NA)	N	N	PA*	PB	PW	Q	QW	R	В	RW	S		U	W	X	Y	Z
12	M4	6	8	27	M8 X	1.0	30	60	80	85	26	RBC	806	17.5	96	13	1	77	22	7.5	5
16	M5	8	8	27	M8 X	1.0	45	70	95	90	40	RB0	806	15	103	13	2	92	22	7.5	5
20	M6	10	10	29	M10	X 1.0	60	100	120	105	46	RB1	007	26	122	17	2	117	29.5	9	5.5
25	M6	10	12	50	M14	X 1.5	60	100	130	105	50	RB1	411	22	122	17	2	127	32.5	11	5.5
* PA dimension	n is the center s	orted fa	actor of	the L di	imensio	n.															

Long stroke

Long stroke (n												
Bore size (mm)	Stroke range (mm)	X	Y	Ζ								
12	50, 75, 100	32	7.5	7.5								
16	50, 75, 100	32	7.5	7.5								
20	75, 100, 125, 150, 175, 200	41	9	9								
25	75, 100, 125, 150, 175, 200, 250, 300	44	11	11								



Ø 32, Ø 40



Series CXT Auto Switch Mounting 1

Minimum Stroke for Mounting of Auto Switch

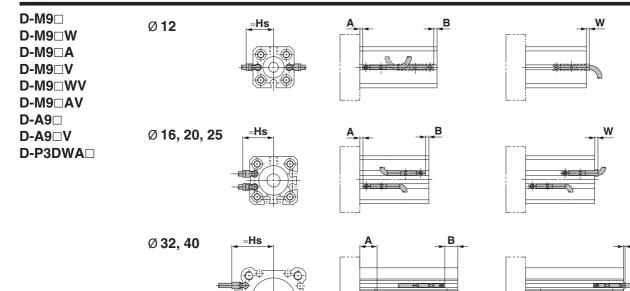
								(mm)
Application	No. Auto switch of auto model switches mounted	D-M9⊡V	D-A9⊡V	D-A9□	D-M9⊟WV D-M9⊟AV	D-M9 □	D-M9⊟W D-M9⊟A	D-P3DWA
CXTD12	1	5	5	10	10	15	20	15
CXTÖ25	2	5	10	10	10	15	20	15
СХТ□ ³² 40	1	5	5	10	10	10	15	15
CXI ¹¹ 40	2	5	10	10	15	10	15	15
* D-P3DW is com	patible with ø25 to ø	40.	-				(mm)

Auto switch D-F7□W **D-A7** D-A7□H model D-J79W **D-A8**□ D-A80H D-F7□V D-F7 WV **D-A79W** D-F7BA Application No. of D-A73C **D-F7**□ D-J79C **D-F7BAV** auto switches mounted **D-F7NT** D-A80C D-J79 D-F79F 1 5 5 10 15 15 20 32 CXT 2 5 10 15 15 20 20

Proper Auto Switch Mounting Position (Detection at stroke end) and Its Mounting Height

đ

(mm)



Proper Auto Switch Mounting Position/Standard Stroke (mm											(mm)
Auto switch model				D-M9⊡A D-M9⊡AV				D-A9□ D-A9□\	D-P3DWA		
Bore size	Α	В	W	Α	В	W	Α	В	W	Α	В
12	5.5	4.5	5.5	5.5	4.5	7.5	1.5	0	1.5 (4)	_	_
16	6	4	6	6	4	8	2	0	2 (4.5)	_	_
20	10	7.5	2.5	10	7.5	4.5	6	3.5	-1.5 (1)	_	_
25	11	9.5	0.5	11	9.5	2.5	7	5.5	-3.5 (-1)	6.5	5
32	12	9	1	12	9	3	8	5	-3 (-0.5)	7.5	4.5
40	16	11.5	-1.5	16	11.5	0.5	12	7.5	-5.5 (-3)	11.5	7

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Proper Auto Switch Mounting Position/Long Stroke

Auto switch model				D-M9□A D-M9□AV				D-A9□ D-A9□\	D-P3DWA		
Bore size	Α	В	W	Α	В	W	Α	В	W	Α	В
12	9	11	-1	9	11	1	5	7	-5 (-2.5)	—	—
16	9.5	10.5	-0.5	9.5	10.5	1.5	5.5	6	-4.5 (-2)	—	—
20	13	16	-6	13	16	-4	9	11.5	-10 (-7.5)	—	—
25	14	18	-8	14	18	-6	10	13.5	-12 (-9.5)	6.5	5
32	12.5	20.5	-10.5	12.5	20.5	-8.5	8.5	16.5	-14.5 (-12)	8	16
40	16	26.5	-16.5	16	26.5	-14.5	12	22.5	-20.5 (-18)	11.5	22

Note 1) (): Denotes the values of D-A93.

Note 2) \dot{W} is applicable when mounting D-A9 \Box , D-M9 \Box , D-M9 \Box W and D-M9 \Box A.

Note 3) Adjust the auto switch after confirming the operating conditions in the actual setting.



Auto Switch Mounting Height/ Standard Stroke, Long Stroke

0

w

Standard Stroke, Long Stroke (mm)											
Auto switch model	D-M9□V D-M9□WV D-M9□AV	D-A9⊡V	D-P3DWA								
Bore size	Hs	Hs	Hs								
12	19	17	—								
16	21	19	—								
20	24	22.5	—								
25	26	24.5	33								
32	29	27	35.5								
40	32.5	30.5	39								

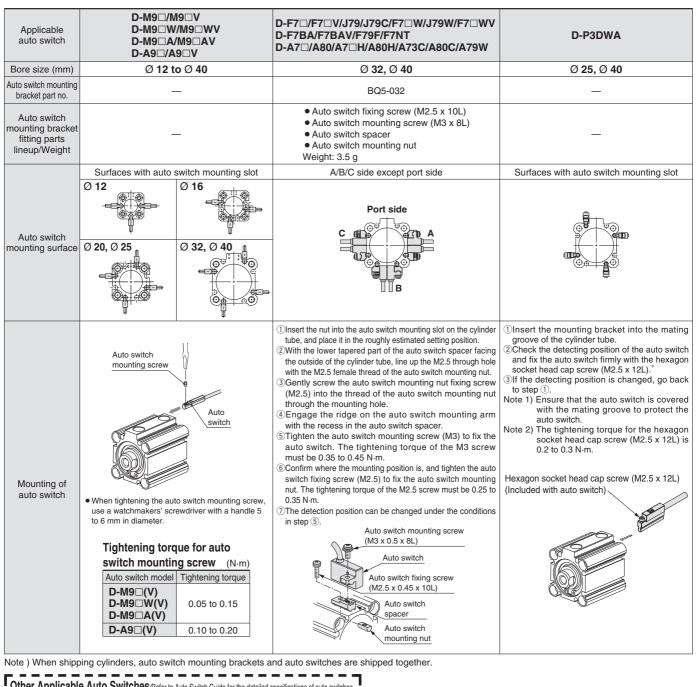
Auto Switch Proper Mounting Position (Detection at Stroke End) and Its Mounting Height

D-A7⊡ D-A80	D-F D-J)-F7⊏)-J79				Ø	32, 4	0			A		_	B		
D-A73C	D-F	7□W	D)-F7□	WV						JII U					1		
D-A80C	D-J	79W	D)-F7B	AV						$\rightarrow \qquad \qquad$			æ		1		
D-A79W D-A7⊡H		7BA 79F										+		0	0			CL
D-A80H		7NT													\$			MLG
Auto Swite			unting	Deel	tion/	Standa		trol		,		L						CNA
Auto Switc	n Prop	ber Mo	D-A7	72/A7	H	Standa	ra s	STROK	e	(mm))							CNG
model		A73	D-A8	30H/A7 30C/F7⊡ 2⊡W/J7	⊒/J79	D-4	79W	,	D.	-F7NT								
	D-	A80	D-F7 D-F7	′□V/F7 ′9F/J79	⊡WV C	27			2									MNB
Bore size	Α	В	A		В	Α		В	Α	В								CNS
32 40	9 13	6 8.5	9. 13.		6.5 9	6.5 10.5	3 6	9.5 i	14.5 18.5	10.5 13								CLS
Auto Switc	h Prop	oer Mo		·		Long S	trok	æ		(mm)								СВ
Auto switch model	_		D-A8	2/A7 0H/A7 0C/F7	3C													CV/MVG
	-	A73 A80	D-F7 D-F7	'□W/J7 '□V/F7	′9W □WV	D-A	79W		D	-F7NT								CXW
Bore size	Α	В		9F/J79 BA/F7		Α		B	Α	В								CXS
32 40	9.5 13	17.5 23.5	10		18 24	7 10.5	1	15 21	15 18.5	23								СХТ
Note) Adjust the						1				20								МХ
Auto Switc	h Mou		Height -A7⊡H	/Stan	dard	Stroke	, Lo	ng S	Stroke	• (mm)								MXU
Auto switch model		D	-A80H -F7⊡					D-F7 [МХН
	D-A7 D-A80		-J79 -F7⊡W -J79W		73C 80C	D-A79	w	D-F7[D-F7[D-F7[⊐wv	D-J79C								MXS
		D	-F79F -F7BA -F7NT															MXQ
Bore size 32	Hs 31.5		Hs 32.5	-	ls 3.5	Hs 34		H 35		Hs 38								MXF
40	35		36	42		37.5		38		41.5								MXW
Operating	g Ran	ge					(100											
				Bore	size		(11	nm)										MXP
Auto switch		12	16	20	25	32	40)										MG
D-M9□/M9□ D-M9□W/M9 D-M9□A/M9	□WV	2.5	4	5.5	5.5	6	5.	5										MGP
D-A9□/A9□V		6	7.5	10	10	9.5	9.	5										MGQ
D-F7□/F7□V D-J79/J79C D-F7□W/F7□																		MGG
D-J79W D-F7BA/F7B	AV	-	-	_	-	6	6											MGC
D-F7NT/F79F D-A7□/A80	-		_	_		12	11											MGF
D-A79W		_	—	_	_	13	14											
D-P3DWA		<u> </u>			6	6	6											MGZ
 Since this is a g (Assuming app There may be t 	roximately the case it	y ±30 % o t will varv	dispersion substanti) allv dep	endina (on an amb	ient e	nviron	ment.									СҮ
∗ Auto switch mo D-A9□(V)/M9□	ounting bra](V)/M9⊡	ackets B W(V)/M9	Q2-012 ar □A(V) typ	e not us es. The	ed for si above v	izes over Ø /alues indi	ð 32 c cate t	of										MY
range when mo	Junieu WI	in the cor	ivenuonal	aulo SW	non insi	anation gr		2 CIV								0	110	L



Series CXT Auto Switch Mounting 2

Auto Switch Mounting Bracket: Part No.

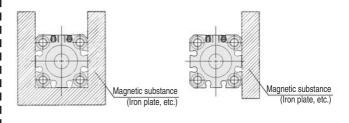


SMC

Auto switch type	Model	Electrical entry (Fetching direction)	Features			
	D-A73	Grommet (Perpendicular)	—			
Reed	D-A80	Gronnier (Ferpendicular)	Without indicator light			
neeu	D-A73H, A76H	Grommet (In-line)	_			
	D-A80H	Giommet (m-mie)	Without indicator light			
	D-F7NV, F7PV, F7BV		_			
	D-F7NWV, F7BWV	Grommet (Perpendicular)	(2-color indication)			
	D-F7BAV		Water resistant (2-color indication)			
Solid state	D-F79, F7P, J79		-			
	D-F79W, F7PW, J79W	Grommet (In-line)	Diagnostic indicatior (2-color indication)			
	D-F7BA	Groniner (III-IIIIe)	Water resistant (2-color indication)			
	D-F7NT		With timer			
* For solid stat also available	e auto switches, a	auto switches with a pr				

- * Normally closed (NC = b contact), solid state auto switch (D-F9G/F9H
- type) are also available.

 If the cylinder is used in an application in which a magnetic material is placed in close contact around the cylinder as shown in the graph on the below (including cases in which even one of the sides is in close contact) the operation of auto switches could become unstable. Therefore, please check with SMC for this type of application.



^{*} D-A7/A8/F7/J7 types cannot be mounted on Ø 12 to Ø 25.

Series CXT Made to Order: Individual Specifications Please contact SMC for detailed dimensions, specifications, and lead times.

EXT Standard m pecifications Model		8							
Model	↓ <i>↓</i>								CN/
Model		Adjustable stroke							CNO
	CXT□12, 16	CXT□20, 25	CXT□32	CXT□40					MN
Stroke adjustment	–26 mm	–28 mm	-44 mm	-40 mm					CN
range pecifications other than th	(Single side –13 mm) he above are the same as the same	(Single side –14 mm) the standard type.) (Single side –22	2 mm) (Single side –20) mm)				CLS
									СВ
mensions (Di	mensions other than	those below are the	e same as the s	tandard type.)					CV/MV
		N t							CXV
Ē	<u> </u>			Bore size (mm)	A	N	NA	(mm)	
	• •			12	8.5 to 21.5	32	40.8	4	
				16	7.5 to 20.5	32	40.8	4	CX
			¢	20 25	9.5 to 23.5 9.5 to 23.5	37 39	46.7 67.3	4	МХ
				32	9.5 to 23.5 10.5 to 32.5	39 49	67.3 73.2	6	MX
	<u>ф</u>			40	11.5 to 31.5	49	73.2	6	MX
	ψ								MX
NA		A							
								-	MX
Fluororubb	er Seal (Cylind	der unit only)					Symb		MX
	ed only for the cylir								MX
		ider unit sour.							MX
ow to Order									MG
XT Standard m	nodel no. – X77	7							MG
	↓ ● F	Fluororubber seal (Cy	ylinder unit only	/)					
pecifications			-						MG
Seal material	Fluororubber (Cyli								MG
pecifications other triari u	he above are the same as t	he standard type.							MG
									MG
									MG
									IVIU
									CY