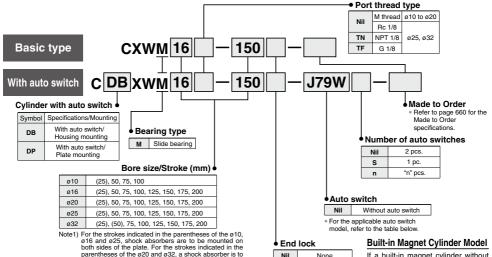
Slide Unit: Built-in Shock Absorber Slide Bearing Type

CXWM Series

Ø10, Ø16, Ø20, Ø25, Ø32

How to Order



R

End lock

** It is impossible to mount solid state switches to the housing mounting \$10.

parentheses of the 020 and 032, a shock absorber is to be mounted on single side of the plate.

Note2) For the strokes other than those indicated above, refer to

page 660.

Note3) For ø16, ø20 and ø25, strokes up to 300, and for ø32, strokes up to 250 are available as Made-to-Order. (-XB11)

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the

(Example) CDPXWM20-100

Applicable Auto Switches/Refer to pages 1119 to 1245 for further information on auto switches.

			igi	Wiring	Lo	Load voltage		Rail mo	ounting	Applicable of	ylinder size	der size Lead wire length (m) ^a		(m) *		Applicable								
Туре	Special function	Electrical entry	Indicator light	(Output)	D	C	AC	Perpendicular	In-line	Housing mounting	Plate mounting	0.5 (Nil)	3 (L)	5 (Z)	None (N)	Pre-wired connector		ad						
_				3-wire (NPN)		-1/ /01/		F7NV	F79			•	•	0	_	0	IC circuit							
switch		Grommet	Grommet	Grommet	Grommet		3-wire (PNP)		5 V, 12 V		F7PV	F7P			•	•	0	_	0	IC CITCUIL				
S S	_			2-wire	40.14	40.1/		F7BV	J79		ø10	•	•	0	-	0		1						
auto		Connector		Z-WITE		12 V		J79C	-	ø16 ø20	ø16	•	•	•		_	_	Relay,						
a			ş	3-wire (NPN)	24 V	51/ 401/	-	F7NWV	F79W	Ø20 Ø25	ø 20	•	•	0	-	0	IC circuit	PLC						
state	Diagnostic indication (2-color indicator)	ן ו'			ľ	3-wire (PNP)		5 V, 12 V	_	-	F7PW	ø32	ø 25 ●	•	0	-	0	IO CIICUII						
g S	(2-color indicator)	Grommet		2-wire		12 V		F7BWV	J79W	302	ø 32	•	•	0	_	0								
Solid	Water resistant (2-color indicator)			4-wire (NPN)		12 V		F7BAV***	F7BA***			_	•	0	-	0	_							
0)	With diagnostic output (2-color indicator)					5 V, 12 V		-	F79F			•	•	0	-	0	IC circuit							
		Grommet	Grommet	Grommet					_	3-wire (NPN equivalent)	-	5 V	-	-	A76H			•	•	-	-	_	IC circuit	-
ء					\ k	Yes	1	-	_	200 V	A72	A72H	ø16	ø10	•	•	-	-	_	_				
switch					Grommet	Grommet	Grommet	Grommet [اللاً ا		12 V	12 V	100 V	A73	A73H	ø 20	ø16 ø20	•	•	-	-	_	_	Relay.
S			ટ		24 V	5 V, 12 V	100 V or less	A80	A80H	ø 25	ø20 ø25	•	•	-	-	_	IC circuit	PLC						
anto	-	Connector	Yes		24 V	12 V	-	A73C	-	ø 32	ø32	•	•	•	•	_	-] . 20						
ā		Connector	운			5 V, 12 V	24 V or less A80C	A80C	-		202	•	•	•	•	_	IC circuit	C circuit						
Reed			Yes	3-wire (NPN equivalent)	-	5 V	-		E76A			•	•	_	-	-	io oilcuit	-						
· ·		Grommet	Ŀ	2-wire	24 V	12 V	100 V) V - E73A Ø10 - ●	•	•	_	-	_	-	Relay,									
			ટ	_ wiie	2-7 V	5 V, 12 V	100 V or less		E80A			•	•	_	_	_	IC circuit	PLC						

*** 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. * Solid state auto switches marked with "O" are produced upon receipt of order.
- * Lead wire length symbols: 0.5 m Nil (Example) F79W 3 m L (Example) F79WL
 - 5 m Z (Example) F79WZ
 - None ······ N (Example) J79CN
- Since there are other applicable auto switches than listed, refer to page 703 for details. For details about auto switches with pre-wired connector, refer to pages 1192 and 1193.
- * Auto switches are shipped together (not assembled).



CX2 CXW

CXT

CXSJ CXS

D-□ -X□

659 A

CXWM Series

Built-in shock absorber

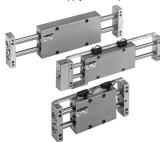
This is a built-in shock absorber type in which the shock absorber is enclosed in the housing. Compared to the CX2 series with shock absorber, this type achieves space savings in the longitudinal direction (except 25 mm stroke).

Dramatically reduced installation labor

The machining precision required for positioning during the installation of the cylinder has been reduced through the adoption of a special pin hole machining process, thus decreasing the amount of labor involved in adjustment.

Provided with an end lock mechanism

An end lock is also available, which maintains the cylinder's original position even if the air supply is interrupted.



Made to Order: Individual Specifications (For details, refer to pages 706 to 708.)

Symbol	Specifications			
-X138	Adjustable stroke			
-X146	Hollow piston rod			
-X168	8 Helical insert thread			
-X169	2 built-in magnets			

Made to Order Specifications

OHOK H	Office for details						
Symbol	Specifications						
-XB11 Long stroke type							
-XB13	Low speed cylinder (5 to 50 mm/s)						
-XC22	Fluororubber seal						

Moisture **Control Tube IDK Series**

When operating an actuator with a small diameter and a short stroke at a high frequency, the dew condensation (water droplet) may occur inside the piping depending on the conditions.

Simply connecting the moisture control tube to the actuator will prevent dew condensation from occurring. For details, refer to the IDK series in the Best Pneumatics No. 6.

Specifications

Туре		Non-lube		
Fluid		Air		
Proof pressure		1.5 MPa		
Max. operating pr	ressure	1.0 MPa		
Min. operating	CXWM10/16	0.15 MPa		
pressure	CXWM20/25/32	0.1 MPa		
Ambient & fluid to	emperature	-10 to 60°C (No freezing)		
Piston speed (No	n-lube)	30 to 500 mm/s		
Cushion		Shock absorber		
Stroke adjustable range		Standard stroke: ±2 mm		
Accessory (Option	on)	Straight knock pin (2 pcs.), Adjusting bolt* (-X138)		

^{* &}quot;-X138" has a stroke adjustable range of -12.5 mm on one side.

Maximum Load Weight/Non-rotating Accuracy/Maximum Holding Force

MUXIMUM LOUG V	Maximum Load Weightwon Totaling Accuracy/Maximum Holding Force							
Model	CXWM10	CXWM16	CXWM20	CXWM25	CXWM32			
Maximum load weight*	1 kg	4 kg	5 kg	6 kg	10 kg			
Non-rotating accuracy (Deflection of a piston) rod is not included.	±0.09°	±0.03°	±0.03°	±0.02°	±0.01°			
Maximum holding force (End lock model)	39.2 N	98.1 N	147.1 N	245.2 N	392.3 N			

^{*} Place the center of gravity of the load and center of the slide unit close during operation. If they are placed far apart from each other, please consult with SMC.

Shock Absorber Specifications

Shock Absorber Specifications							
Shock abs	sorber (1)	RB0805-X552	RB0805	RB1006-X552	RB1006	RB1411-X552	RB1411
Applicable slide unit		CXWM10/16-□□		CXWM20/25-□□		CXWM3	2-□□
Maximum energy absorption (J)		0.98		3.92		14.7	
Stroke absorpti	on (mm)	5		6		11	
Max. collision speed (m/sec)			0.05 to 5				
Max. operating frequ	uency (cycle/min) (2)	80		70		45	
Max. allowable	thrust (N)	147		353		667	
Ambient tempera	ature range (°C)	-10 to 80					
Spring force (N)	Extended	1.96		4.22		6.86	
opining force (N)	Retracted	3.83		6.18		15.30)
Weight (g)		15		25		65	

Note 1) "-X552" is an exclusive shock absorber installed in the housing, and is the screw not attached specification of the outer part of the outer tube. The shock absorber plate mounting type of 25

and 50 strokes have the screw attached specification.

Note 2) It denotes the values at the maximum energy absorption per one cycle. Therefore, the operating frequency can be increased according to the energy absorption.

* The shock absorber service life is different from that of the cylinder depending on the operating conditions. Refer to the RB series Specific Product Precautions for the replacement period.

Theore	Theoretical Output								(N)		
Manda	Rod size		Piston area	on area Operating pressure (MPa							
Model		(mm)	(mm²)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
CXWM10-		6	101	20	30	40	51	61	71	81	91
CXWM16-		10	245	49	74	98	123	147	172	196	221
CXWM20-		12	402	80	121	161	201	241	281	322	362
CXWM25-		14	597	119	179	239	299	358	418	478	537
CXWM32-		20	980	196	294	392	490	588	686	784	882

Note) Theoretical output (N) = Pressure (MPa) x Piston area (mm2)

Standard Stroke

Model		Standard stroke (mm)										
iviodei	25	50	75	100	125	150	175	200				
CXWM10-□□	(*)(1)	•	•	•		_	_					
CXWM16-□□	(*)(1)	•	•	•	•	•	•	•				
CXWM20-□□	(*)(2)	•	•	•	•	•	•	•				
CXWM25-□□	(*)(1)	•	•	•	•	•	•	•				
CXWM32-□□	(*)(2)	(*)(2)	•	•	•	•	•	•				

Note 1) The strokes marked with "(*)" has an absorber of double side plate mounting type. Note 2) The strokes marked with "(*)" has an absorber of single side plate mounting type.



Slide Unit: Built-in Shock Absorber CXWM Series

Construction: Ø10, Ø16, Ø25

Component Parts

No.	Description	Material	Note
1	Rod cover	Aluminum bearing alloy	
2	Housing	Aluminum alloy	Hard anodized
3	Piston	Aluminum alloy	Chromated
4	Piston rod	Carbon steel piping for machine constructions	Hard chrome plated
5	Plate	Aluminum alloy	Hard anodized
6	Lock nut	Carbon steel	Nickel plated
7	Adjustment bolt	Chromium steel	Nickel plated
8	Set screw (For fixing rods)	Chromium steel	Nickel plated
9	Set screw (For fixing shock absorbers)	Stainless steel	
10	Retaining ring	Carbon tool steel	Phosphate coated
11	Plug	Brass	Nickel plated
12	Magnet	Ī	ø5
13	Set screw for seal	Chromium steel	Nickel plated
14	Spring	Stainless steel	
15	Type CR retaining ring	Carbon tool steel	
16	Round type R retaining ring	Carbon tool steel	Phosphate coated
17	Shock absorber	I	(RB0805-X552 or RB1006-X552)
18	Socket	Brass	Electroless nickel plated
19	Gasket	NBR	
20	Rod seal	NBR	
21	Piston seal	NBR	
22	Piston gasket	NBR	
23	Cylinder tube gasket	NBR	

Replacement Parts: Seal Kit

Cylinder Body

Model	Kit no.	Contents			
CXWM10	CXWM10-PS				
CXWM16	CXWM16-PS	Set of nos. above 20, 21, 23			
CXWM25	CXWM25-PS				

^{*} Seal kit includes ②, ②, ②. Order the seal kit, based on each bore size. (The piston gasket 22 is not replaceable.)

Component Parts: With End Lock

No.	Description	Material	Note
24	Locking body	Aluminum alloy	Hard anodized
25	Lock finger	Alloy tool steel	Nickel plated after quenched
26	Lock piston	Carbon tool steel	Electroless nickel plated after quenched
27	Rod cover	Aluminum alloy	
28	Return spring	Spring steel	Zinc chromated
29	Adjustment bolt	Chromium steel	Nickel plated
30	Body gasket	NBR	
31	Rod seal	NBR	
32	Piston seal	NBR	
33	Steel ball	High carbon chrome bearing steel	
34	Steel ball	High carbon chrome bearing steel	
35	O-ring	NBR	
36	Round type R retaining ring	Carbon tool steel	Phosphate coated
37	Lock nut	Carbon steel	Nickel plated
38	Plug	Chromium steel	Nickel plated

Replacement Parts: Seal Kit

End Lock

_					
Ī	Model	Kit no.	Contents		
	CXWM10	CXWM10R-PS			
Ī	CXWM16	CXWM16R-PS	Set of nos. above 30, 31, 32, 35		
	CXWM25	CXWM25R-PS	1		

^{*} Seal kit includes 30, 31, 32, 35. Order the seal kit, based on each bore Ssize.

CX2

CXW CXT

CXSJ

CXS

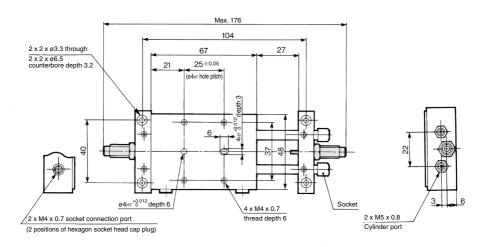
D-□ -X□

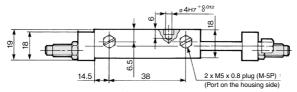


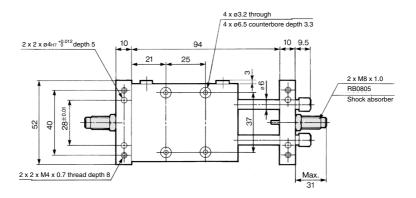
^{*} Since the seal kit does not include a grease pack, order it separately. Grease pack part no.: GR-S-010 (10 g)

^{*} Since the seal kit does not include a grease pack, order it separately. Grease pack part no.: GR-S-010 (10 g)

Ø10 Basic Type: CXWM10-25 stroke

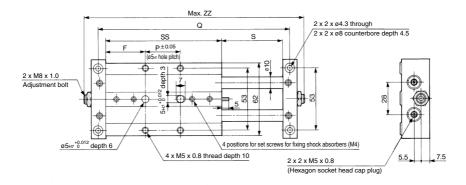


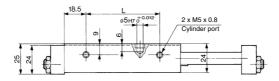


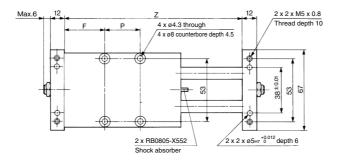


Slide Unit: Built-in Shock Absorber CXWM Series

Ø16 Basic Type: CXWM16-Stroke/50 to 200







	CX2				
mm)					
Z	CXW				

								(mm
Model	F	L	Р	Q	S	SS	Z	ZZ
CXWM16-50	35	63	30	164	52	100	152	188
CXWM16-75	32.5	88	60	214	77	125	202	238
CXWM16-100	37.5	113	75	264	102	150	252	288
CXWM16-125	42.5	138	90	314	127	175	302	338
CXWM16-150	55	163	90	364	152	200	352	388
CXWM16-175	67.5	188	90	414	177	225	402	438
CVMM16 000	-00	040	-00	404	000	050	450	400

Note) For 25 stroke, the shock absorber is mounted on a plate. Refer to page 670 for the dimensions of the 25 stroke.

Model	F	L	Р	Q	S	SS	Z	ZZ
CXWM16-50	35	63	30	164	52	100	152	188
CXWM16-75	32.5	88	60	214	77	125	202	238
CXWM16-100	37.5	113	75	264	102	150	252	288
CXWM16-125	42.5	138	90	314	127	175	302	338
CXWM16-150	55	163	90	364	152	200	352	388
CXWM16-175	67.5	188	90	414	177	225	402	438
CXWM16-200	80	213	90	464	202	250	452	488

D-□ -X□

CXT CXSJ CXS

