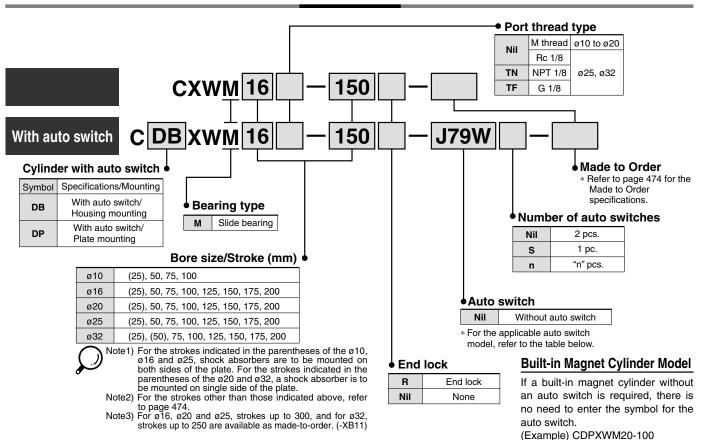
# Slide Unit: Built-in Shock Absorber **Slide Bearing Type**

# Series CXWM

ø10, ø16, ø20, ø25, ø32





Applicable Auto Switch/Refer to pages 1719 to 1827 for furth

<u> </u>	ilicable Auto	JOWILL	11/1	reiei io pages	17 19 10	1027 10	n luitilei	momand	iii oii aut	o switche	5.																								
	Special function		ight	Wiring	Lo	oad volta	ge	Rail mo	ounting	Applicable of	cylinder size	Lead	wire le	ength	(m) *																				
Туре		Electrical entry	Electrical entry	Indicator light	(Output)	С	C	AC	Perpendicular	In-line	Housing mounting	Plate mounting	0.5 (Nil)	3 (L)		None (N)	Pre-wired connector		icable ad																
ء						3-wire (NPN)		5 V 40 V		F7NV	F79			•	•	0	_	0	IC circuit																
		Grommet		3-wire (PNP)		5 V, 12 V		F7PV	F7P			•	lacktriangle	0	—		IC CITCUIT																		
switch	_			O wine	]	40.14	]	F7BV	J79		ø10	•	•	0	<b> </b>	0		]	CX2																
		Connector		2-wire		12 V		J79C	_	ø16	ø16	•	•	•		_	_	Relay,																	
state	Diagnostic indication (2-color indication)	Grommet	les	/es		Yes	3-wire (NPN)	24 V	5 V 40 V	-	F7NWV	F79W	ø20 ø25	ø20	•	•	0		0	IC circuit	PLC	CXW													
				3-wire (PNP)		5 V, 12 V	_	F7PW	ø32	ø25	•	•	0	_	0	ic circuit		CVA																	
Solid			Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	Grommet	t	2-wire	]	12 V	]	F7BWV	J79W	Ø Ø	ø32	•	•	0		0	
S	Water resistant (2-color indication)			2-wire		12 V		F7BAV	F7BA			_	•	0	—	0			CXT																
	With diagnostic output (2-color indication)			4-wire (NPN)		5 V, 12 V		_	- F79F		•	•	0	_	0	IC circuit																			
			Çrammat A	Grammat	Crommot &		3-wire (NPN equivalent)	_	5 V	_	_	A76H			•	•	_	-	_	IC circuit	-	CXSJ													
		1				Grommet	Yes		_	_	200 V	A72	A72H	ø16	ø10	•	•	_	_	_															
ے		Gionnine	ĺ			12 V	100 V	A73	A73H	ø20	ø16	•	•	_	_	_	_	D-1	CXS																
switch	- Conn			S Z		운	2-wire	24 V	5 V, 12 V	100 V or less	A80	A80 A80H ø25	ø20	•	•	_	-	_		Relay,	UNU														
8		Connector	- 0	ا ق ا	24 V	12 V	/ _	A73C	_	ø32 ø25	ø25 ø32	•	•	•		_	_	]																	
Reed			2 Sinnector	2 Source S	5 V, 12 V 24 V or less <b>A80C</b> -	-		952	•	• • • •	•	_	IC circuit																						
ď			Yes	3-wire (NPN equivalent)	_	5 V	_		E76A			•	•	_	-	_	IC CITCUIT	_																	
		Grommet	≯	2-wire	24 V	12 V	100 V	_	E73A	ø10	_	•	•	_	_	_	_	Relay,	<b>D</b> -□																
			2	Z-WITE	24 V	5 V, 12 V	100 V or less		E80A				•	_	-	_	IC circuit	PLC																	

- \* Lead wire length symbols: 0.5 m ..... Nil (Example) F79W 3 m ..... L
  - (Example) F79WL 5 m ..... 7 (Example) F79WZ (Example) J79CN None ······ N
- \* Solid state auto switches marked with "()" are produced upon receipt of order.
- \*\* It is impossible to mount solid state switches to the housing mounting ø10.



|-X□

Individual

<sup>•</sup> Since there are other applicable auto switches than listed, refer to page 517 for details.

<sup>•</sup> For details about auto switches with pre-wired connector, refer to pages 1784 and 1785.

<sup>\*</sup> Auto switches are shipped together (not assembled).

## Series CXWM

#### **Built-in shock absorber**

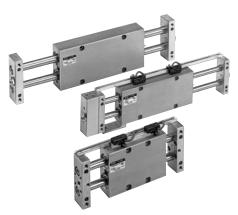
This is a built-in shock absorber style in which the shock absorber is enclosed in the housing. Compared to Series CX2 with shock absorber, this style achieves space savings in the longitudinal direction (except 25 mm stroke).

# 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 Made

# Made to Order Specifications (For details, refer to pages 1851 to 2021.)

Symbol	Specifications
—XB11	Long stroke type
—XB13	Low speed cylinder (5 to 50 mm/s)
—XC22	Fluororubber seal
—X146	Hollow piston rod
—X138	Adjustable stroke
—X168	Helical insert thread
—X169	2 built-in magnets

#### Standard Stroke

Madal	Standard stroke (mm)								
Model	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 style.

Note 2) The strokes marked with "(\*)" has an absorber of single side plate mounting style.

**Specifications** 

<del>opoomoanomo</del>						
Туре		Non-lube				
Fluid		Air				
Proof pressure		1.5 MPa				
Max. operating pr	essure	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 (Optio	n)	Straight knock pin (2 pcs.), Adjusting bolt* (-X138				

<sup>\* &</sup>quot;-X138" has a stroke adjustable range of -12.5 mm on one side.

## Maximum Load Mass/Non-rotating Accuracy/Maximum Holding Force

Model	CXWM10	CXWM16	CXWM20	CXWM25	CXWM32
Maximum load mass*	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

<sup>\*</sup> 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 (1)		RB0805-X552	RB0805	RB1006-X552	RB1006	RB1411-X552	RB1411
Applicable slide unit		CXWM10/16		CXWM20/25		CXWM32	2-□□
Maximum energy	0.98		3.92		14.7		
Stroke absorpti	5		6		11		
Max. collision s	0.05 to 5						
Max. operating frequ	80		70		45		
Max. allowable	Max. allowable thrust (N)			353		667	
Ambient tempera	ature range (°C)	-10 to 80					
Spring force (N)	Extended	1.96		4.22		6.86	i
Spring force (N)	Retracted	3.83		6.18		15.30	)
Mass (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 style 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 Series RB Specific Product Precautions for the replacement period.

(N)

### **Theoretical Output**

Operating pressure (MPa) Rod size Piston area Model (mm) (mm<sup>2</sup>)0.5 0.2 0.3 0.4 0.6 0.7 8.0 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 80 161 201 241 281 322 121 362 CXWM25-□□ 597 119 179 239 299 358 418 478 537 CXWM32-□□ 20 980 588 784 196 294 392 490 686 882

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

