New

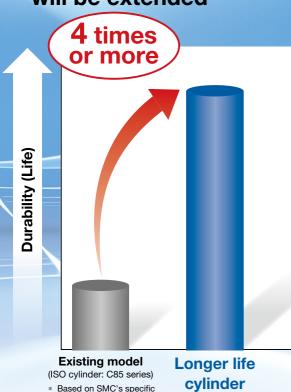
Longer Life Cylinder



New technology offers at least 4 times better durability

The maintenance intervals will be extended

ISO Standards (6432)





 Employs the same specification and dimensions as the existing models, C85 ISO Cylinder series and C75 Air Cylinder series.

High Durability Series

High Durability Series is the series name for the "special specification" that offers superior durability and environmental resistance compared to standard products.

Series Variations

Series	Action	Model			В	ore si	ze [m	m]			Cushion	Stroke range
Series	ACTION	Model	8	10	12	16	20	25	32	40	Custilott	Stroke range
ISO Standards (6432) ISO cylinder C85 series	Double acting, Single rod	C85-XB24	•	•	•	•	•	•			Rubber bumper	Ø 8: 5 to 200 Ø 10 to Ø 16: 5 to 400 Ø 20, Ø 25 : 5 to 1000
Air cylinder C75 series	Double acting, Single rod	C75-XB24							•	•	Rubber bumper	5 to 1000

C85/C75-XB24

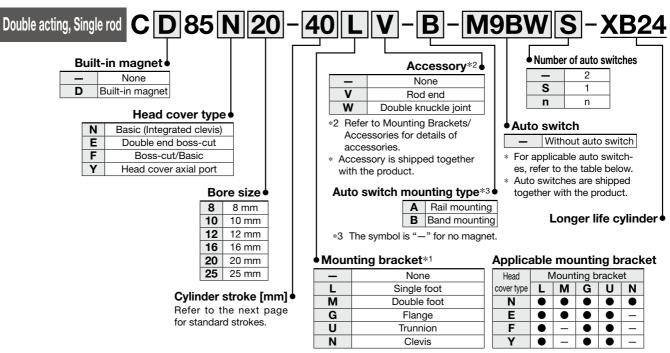


High Durability Series ISO Standards (6432)

Longer Life Cylinder Double Acting, Single Rod Ø 8, Ø 10, Ø 12, Ø 16, Ø 20, Ø 25



How to Order



- *1 Refer to Mounting Brackets/Accessories for details of mounting brackets.
- * Mounting bracket is shipped together with the product.

Applicable Auto Switches/Refer to the Web Catalogue for further information on auto switches.

		Clastical	light	\A/:		Load vo	oltage		Auto swi	tch model		Lea	d wir	e ler	ngth	[m]	Due suived	A I:	
Туре	Special function	Electrical entry	ndicator light	Wiring (Output)		DC	AC	Band m	ounting	Rail mo	ounting	0.5	1	3	5	None	Pre-wired connector	Appii lo:	cable
		Cituy	lgi Jgi	Cuipui)		DC	AC	Perpendicular	In-line	Perpendicular	In-line	(-)	(M)	(L)	(Z)	(N)	COLLIGECTOL	10	au
				3-wire (NPN)		5 V, 12 V		M9NV	M9N	M9NV	M9N				0	_	0	IC circuit	
ي ا		Grommet		3-wire (PNP)		3 V, 12 V		M9PV	M9P	M9PV	M9P	•	•	•	0	_	0	IIO CIICUII	
switch				2-wire		12 V		M9BV	M9B	M9BV	M9B	•			0	_	0		
8		Connector		2-wire		12 V		_	H7C	J79C	_	•	T —	•	•	•	_	-	
anto	Dia ama antia impliantia a			3-wire (NPN)		, 5 V, 12 V		M9NWV	M9NW	M9NWV	M9NW	•	•	•	0	_	0	IC circuit	D.I
	Diagnostic indication (2-colour indicator)		Yes	3-wire (PNP)	24 V	3 V, 12 V	_	M9PWV	M9PW	M9PWV	M9PW	•	•	•	0	_	0	IC CIrcuit	Relay, PLC
state	(2-colour indicator)			2-wire		12 V		M9BWV	M9BW	M9BWV	M9BW	•	•	•	0	_	0	-	' - 0
st	Water-resistant	Grommet		3-wire (NPN)		5 V, 12 V		M9NAV*1	M9NA*1	M9NAV*1	M9NA*1	0	0	•	0	-	0	IC circuit	
Solid	(2-colour indicator)			3-wire (PNP)		3 V, 12 V		M9PAV*1	M9PA*1	M9PAV*1	M9PA*1	0	0	•	0	_	0	IIO CIICUII	
Ñ	(2-colour indicator)			2-wire]	12 V		M9BAV*1	M9BA*1	M9BAV*1	M9BA*1	0	0	•	0	-	0	_	
	With diagnostic output (2-colour indicator)			4-wire (NPN)		5 V, 12 V		_	H7NF	_	F79F	•	-	•	0	_	0	IC circuit	
switch			V	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	A96V	A96	•	-	•	-	_	_	IC circuit	_
<u> </u>		0	Yes		1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_		
		Grommet					100 V	A93V*2	A93	A93V*2	A93	•	•	•	•	_	_	-	
anto			No			10.1/	100 V or less	A90V	A90	A90V	A90	•	-	•	_	_	_	IC circuit	Relay,
			Yes	2-wire	24 V	, 12 V	_	_	C73C	A73C	_	•	-	•	•	•	_	_	PLC
Reed		Connector	No				24 V or less	-	C80C	A80C	_	•	-	•	•	•	_	IC circuit	
_	Diagnostic indication (2-colour indicator)	Grommet	Yes			_	_	_	_	A79W	_	•	—	•	-	-	_	_	

- *1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.
- *2 1 m lead wire is only applicable to the D-A93.
- * Lead wire length symbols: 0.5 m----- -(Example) M9NW 5 m····· Z (Example) M9NWZ 1 m······ M (Example) M9NWM None None N (Example) H7CN 3 m······ L (Example) M9NWL
- * Since there are other applicable auto switches than listed above, refer to the Web Catalogue for details.
- Solid state auto switches marked with "O" are produced upon receipt of order.
- D-A9□/M9□/A7□/A80□/F7□/J7□ auto switches are shipped together, but not assembled. (For band mounting, only the auto switch mounting brackets are assembled before shipment.)
- When mounting a band on bore size \emptyset 8, \emptyset 10, or \emptyset 12, the D-A9 \square (V) cannot be mounted.
- When mounting a rail on bore size Ø 8, Ø 10, or Ø 12, the D-A9□(V) and A79W cannot be mounted.
- When mounting a rail on bore size \emptyset 20 or \emptyset 25, the D-M9 \square (V), M9 \square W(V), and M9 \square A(V) cannot be mounted.



ISO Standards (6432) Longer Life Cylinder Double Acting, Single Rod



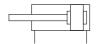




Bore size [mm]	8	10	12	16	20	25					
Туре			Pneu	matic							
Action		D	ouble actin	g, Single ro	od						
Fluid			Α	ir							
Proof pressure			1.5	MPa							
Max. operating pressure			1.0	MPa							
Min. operating pressure	0.1 MPa 0.08 MPa 0.05 MPa										
Ambient and fluid	Without auto switch: -20 °C to 80 °C (No freezing)										
temperature	With auto switch: -10 °C to 60 °C (No freezing)										
Lubricant				d (Non-lube	e)						
Stroke length tolerance	*1.0 mm *1.4 mm										
Piston speed			50 to 15	00 mm/s							
Cushion		•	Rubber	bumper	•						
Allowable kinetic energy	0.02 J 0.03 J 0.04 J 0.09 J 0.27 J 0										

Symbol

Double acting, Single rod



Strokes

Bore size [mm]	Standard stroke [mm]*1, *2, *3	Stroke range [mm]
8	10, 25, 40, 50, 80, 100	5 to 200
10	10, 23, 40, 30, 60, 100	
12	10, 25, 40, 50, 80, 100, 125, 160, 200	5 to 400
16	10, 25, 40, 50, 60, 100, 125, 160, 200	
20	10 25 40 50 90 100 125 160 200 250 200	5 to 1000
25	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300	5 10 1000

- *1 The manufacturing of strokes in 1 mm increments is possible. (Spacers are not used.) Produced upon receipt of order.
- *2 Applicable strokes differ depending on the usage conditions and mounting brackets. For details, refer to the "Stroke Selection" section of the C85 series in the **Web Catalogue**. In addition, the products that exceed the standard stroke might not be able to fulfill the specifications due to deflection, etc.

Cylinder model: CD85N20-50NW-B-M9BW-XB24

*3 The min. stroke of the type with a magnet varies depending on the switch.

Option: Ordering Example of Cylinder Assembly

Double knuckle joint Clevis

Auto switch

Head cover N: Basic (Integrated clevis)
Mounting bracket N: Clevis
Rod end bracket W: Double knuckle joint
Auto switch D-M9BW: Band mounting, 2 pcs.

 Mounting bracket, double knuckle joint, and auto switch are shipped together with the product.

^Caution

Durability of The Cylinder

The durability of a longer life cylinder has been evaluated by comparison with the existing cylinders under SMC's test conditions.

The durability of a cylinder depends on the customer's operating conditions and operating environment.

Therefore, durability of four times or longer will not be guaranteed under all conditions.

The allowable kinetic energy, allowable lateral loads at the rod end, theoretical output, weight, mounting bracket/parts numbers, and specifications with an auto switch, are equivalent to those of the ISO Cylinder C75 series. For details, refer to the Web Catalogue.

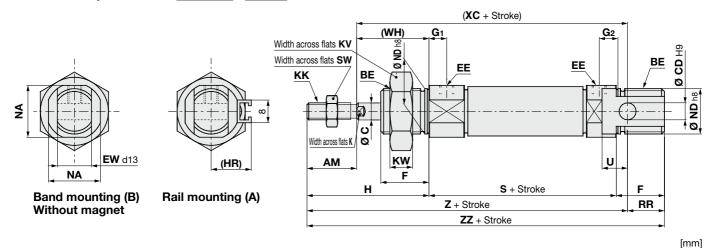




For details on accessories (rod end, double knuckle joint, and floating joint), refer to the **Web Catalogue**.

Basic (Integrated clevis)

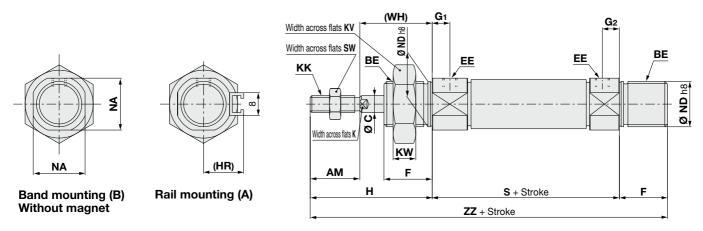
Rubber bumper: C 85N Bore size - Stroke - - XB24



																										[]
Bore size	AM	BE	С	CD	EE	EW	F	G ₁	G ₂	н	(HR)	κ	KK	ΚV	KW	NA	ND	RR	s	SW	U	WA	(WH)	(XC)	z	ZZ
8	12	M12 x 1.25	4	4	M5 x 0.8	8	12	7	5	28	13.4	_	M4 x 0.7	19	6	15	12	10	46	7	6	_	16	64	76	86
10	12	M12 x 1.25	4	4	M5 x 0.8	8	12	7	5	28	14.2	_	M4 x 0.7	19	6	15	12	10	46	7	6	10.5	16	64	76	86
12	16	M16 x 1.5	6	6	M5 x 0.8	12	17	8	6	38	14.2	5	M6 x 1	24	8	18.3	16	14	50	10	9	9.5	22	75	91	105
16	16	M16 x 1.5	6	6	M5 x 0.8	12	17	8	6	38	14.2	5	M6 x 1	24	8	18.3	16	13	56	10	9	9.5	22	82	98	111
20	20	M22 x 1.5	8	8	G 1/8	16	20	8	8	44	17	6	M8 x 1.25	32	11	24	22	11	62	13	12	13	24	95	115	126
25	22	M22 x 1.5	10	8	G 1/8	16	22	8	8	50	20	8	M10 x 1.25	32	11	30	22	11	65	17	12	13	28	104	126	137

Double end boss-cut

Rubber bumper: C□85E Bore size - Stroke - □ - XB24



																			[mm]
Bore size	АМ	BE	С	EE	F	G ₁	G ₂	н	(HR)	K	кк	ΚV	KW	NA	ND	s	sw	(WH)	ZZ
8	12	M12 x 1.25	4	M5 x 0.8	12	7	5	28	13.4	_	M4 x 0.7	19	6	15	12	46	7	16	86
10	12	M12 x 1.25	4	M5 x 0.8	12	7	5	28	14.2	_	M4 x 0.7	19	6	15	12	46	7	16	86
12	16	M16 x 1.5	6	M5 x 0.8	17	8	6	38	14.2	5	M6 x 1	24	8	18.3	16	50	10	22	105
16	16	M16 x 1.5	6	M5 x 0.8	17	8	6	38	14.2	5	M6 x 1	24	8	18.3	16	56	10	22	111
20	20	M22 x 1.5	8	G 1/8	20	8	8	44	17	6	M8 x 1.25	32	11	24	22	62	13	24	126
25	22	M22 x 1.5	10	G 1/8	22	8	8	50	20	8	M10 x 1.25	32	11	30	22	65	17	28	137

ISO Standards (6432) Longer Life Cylinder Double Acting, Single Rod

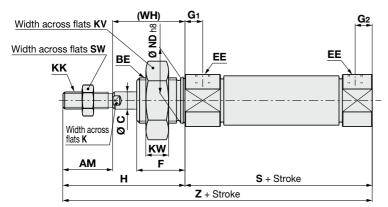


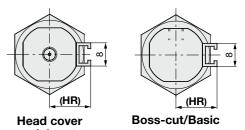
Dimensions

For details on accessories (rod end, double knuckle joint, and floating joint), refer to the **Web Catalogue**.

Boss-cut/Basic, Head cover axial port

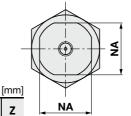
Rubber bumper: C Stroke - Stroke - XB24

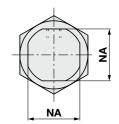




axial port

Rail mounting (A)





Head cover axial port

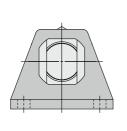
Boss-cut/Basic

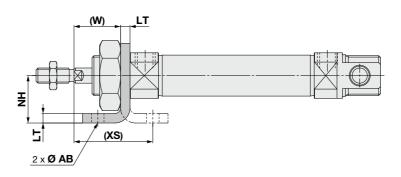
Band mounting (B) Without magnet

Bore size AM ΒE С ΕE G₁ G₂ H (HR) KK KV KW ND S SW (WH) Ζ NA 12 M12 x 1.25 4 M5 x 0.8 12 5 M4 x 0.7 19 6 12 74 7 28 13.4 15 46 16 M4 x 0.7 12 M12 x 1.25 4 M5 x 0.8 5 28 19 74 10 12 7 14.2 6 15 12 46 16 12 16 M16 x 1.5 6 M5 x 0.8 17 8 6 38 14.2 M6 x 1 24 8 18.3 16 50 10 22 88 16 16 M16 x 1.5 6 M5 x 0.8 17 8 6 38 14.2 5 M6 x 1 24 8 18.3 16 50 10 22 88 20 8 8 44 17 32 11 24 22 62 13 24 106 20 20 M22 x 1.5 8 G 1/8 6 M8 x 1.25 22 M22 x 1.5 G 1/8 22 8 8 50 20 8 M10 x 1.25 32 30 22 65 17 28 115

Single foot: C□85N□-□L-XB24

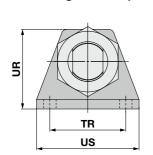
(With mounting bracket)

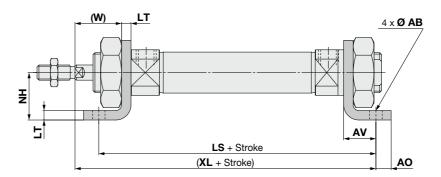




Double foot: C□85N□-□M-XB24

(With mounting bracket)





												[mm]
Bore size	AB	АО	AV	LS	LT	NH	TR JS14	UR	US	(W)	(XL)	(XS)
8	4.5	5	11	68	3.2	16	25	26	35	12.8	73	23.8
10	4.5	5	11	68	3.2	16	25	26	35	12.8	73	23.8
12	5.5	6	14	78	4	20	32	33	42	18	86	32
16	5.5	6	14	84	4	20	32	33	42	18	92	32
20	6.6	8	17	96	5	25	40	42	54	19	103	36
25	6.6	8	17	99	5	25	40	42	54	23	110	40

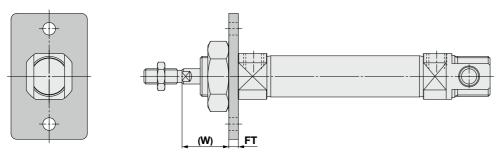




For details on accessories (rod end, double knuckle joint, and floating joint), refer to the **Web Catalogue**.

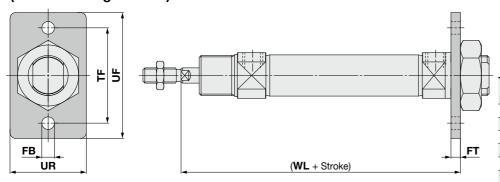
Rod flange: C□85N□ - □G - XB24

(With mounting bracket)



Head flange: C□85N□ - □G - XB24

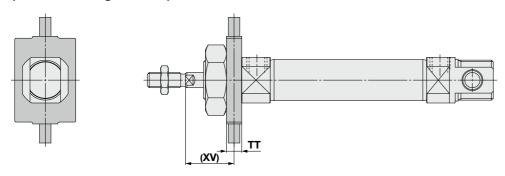
(With mounting bracket)



							[mm]
Bore size	FB H13	FT	TF	UF	UR	(W)	(WL)
8	4.5	3.2	30	40	22	12.8	65.2
10	4.5	3.2	30	40	22	12.8	65.2
12	5.5	4	40	52	30	18	76
16	5.5	4	40	52	30	18	82
20	6.6	5	50	66	40	19	91
25	6.6	5	50	66	40	23	98

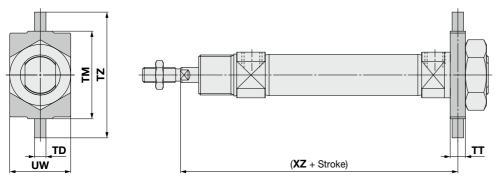
Rod trunnion: C□85N□-□U-XB24

(With mounting bracket)



Head trunnion: C□85N□-□U-XB24

(With mounting bracket)



							[mm]
Bore size	TD _{e8}	тм	TT	TZ	uw	(XV)	(XZ)
8	4	26	6	38	20	13	65
10	4	26	6	38	20	13	65
12	6	38	8	58	25	18	76
16	6	38	8	58	25	18	82
20	6	46	8	66	32	20	90
25	6	46	8	66	32	24	97



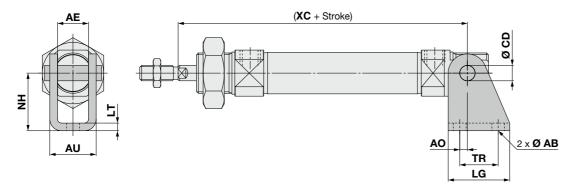
ISO Standards (6432) Longer Life Cylinder Double Acting, Single Rod



Dimensions

For details on accessories (rod end, double knuckle joint, and floating joint), refer to the Web Catalogue.

Clevis: C□85N□-□N-XB24 (With mounting bracket)



I	TR	(XC)	
	12.5	64	
	12.5	64	
	15	75	

[mm]

Bore ΑB LG LT NH ΑE ΑO ΑU $\mathbf{CD}_{\mathrm{H9}}$ size 8 4.5 8.1 1.5 13.1 20 2.5 24 10 4.5 8.1 1.5 13.1 4 20 2.5 24 12.1 18.5 25 3.2 27 12 5.5 2 6 16 5.5 12.1 18.5 6 25 3.2 27 15 82 6.6 16.1 4 24.1 8 32 4 30 20 20 95 6.6 16.1 4 30 20 104 25 24.1 8 32 4

High Durability Series

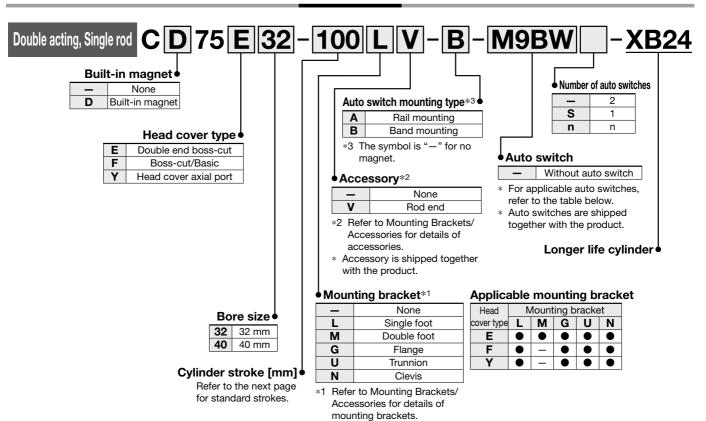
Longer Life Cylinder Double Acting, Single Rod

C75-XB24

Ø 32, Ø 40



How to Order



Applicable Auto Switches/Refer to the Web Catalogue for further information on auto switches.

		Clashii aal	ig	\\/ininge		Load vo	oltage		Auto swi	tch model		Lead	d wir	e ler	ngth	[m]	Due suiveed	A 1:	ملطمم
Туре	Special function	Electrical entry	ndicator light	Wiring (Output)		DC	AC	Band m	ounting	Rail mo	unting	0.5	1	3		None	Pre-wired connector		cable ad
		Cittiy	퍨	(Output)		DC	AC	Perpendicular	In-line	Perpendicular	In-line	(-)	(M)	(L)	(Z)	(N)	COMMECTOR	104	au
				3-wire (NPN)		5 V, 12 V		M9NV	M9N	F7NV	F79	•		•	0	—	0	IC circuit	
ج ا		Grommet		3-wire (PNP)		3 V, 12 V		M9PV	M9P	F7PV	F7P	•		•	0	-	0	IO CITCUIT	
switch				2-wire		12 V		M9BV	M9B	F7BV	J79	•		•	0	—	0		
		Connector		2-1116		12 V	5V 12 V	_	H7C	J79C	_	•	_	•	•	•	_		
anto	Diagnostic indication			3-wire (NPN)		5 V 12 V		M9NWV	M9NW	F7NWV	F79W	•		•	0	—	0	IC circuit	Dalau
	(2-colour indicator)		Yes	3-wire (PNP)	24 V	J V, 12 V	_	M9PWV	M9PW	_	F7PW	•		•	0	—	0	IO CIICUII	PLC
state	(2-colour indicator)			2-wire		12 V		M9BWV	M9BW	F7BWV	J79W	•		•	0	—	0	_	
5	Water-resistant	Grommet		3-wire (NPN)		5 V, 12 V		M9NAV*1	M9NA*1	_	_	0	0	•	0	_	0	IC circuit	
Solid	(2-colour indicator)			3-wire (PNP)		J V, 12 V		M9PAV*1	M9PA*1	_	_	0	0	•	0	—	0	IO CIICUII	
Ñ	(2-colour indicator)			2-wire		12 V		M9BAV*1	M9BA*1	F7BAV*1	F7BA*1	0	0	•	0	-	0	_	
	With diagnostic output (2-colour indicator)			4-wire (NPN)		5 V, 12 V		_	H7NF	_	F79F	•	_	•	0	—	0	IC circuit	
switch			Yes	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	_	A76H	•	_	•	_	-	_	IC circuit	_
<u> </u>		^			1	_	200 V	_	_	A72	A72H	•	_	•	_	_	_		
		Grommet					100 V	A93V*2	A93	A73*2	A73H*2	•	•	•	•	-	_	_	
auto			No	0		10.1/		A90V	A90	A80	A80H	•	_	•	_	—	_	IC circuit	Relay,
b			Yes	2-wire	24 V	12 V		_	C73C	A73C	_	•	_	•	•	•	_	_	PLC
Reed		Connector	No	1				_	C80C	A80C	_	•	_	•	•	•	_	IC circuit	1
_	Diagnostic indication (2-colour indicator)	Grommet	Yes			_	_	_	_	A79W	_	•	_	•	_	_	_	_	

 Mounting bracket is shipped together with the product.

- *1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.
- *2 1 m lead wire is only applicable to the D-A93.
- * Since there are other applicable auto switches than listed above, refer to the Web Catalogue for details.
- * Solid state auto switches marked with "O" are produced upon receipt of order.
- * D-A9□/M9□/A7□/A80□/F7□/J7□ auto switches are shipped together, but not assembled. (For band mounting, only the auto switch mounting brackets are assembled before shipment.)

Longer Life Cylinder **Double Acting, Single Rod**



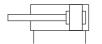


Specifications

Bore size [mm]	32	40						
Туре	Pneu	matic						
Action	Double actin	g, Single rod						
Fluid	A	ir						
Proof pressure	1.5 [MPa						
Max. operating pressure	1.0 MPa							
Min. operating pressure	0.05 MPa							
Ambient and fluid	Without auto switch: -20	°C to 80 °C (No freezing)						
temperature	With auto switch: -10	°C to 60 °C (No freezing)						
Lubricant	Not required	d (Non-lube)						
Stroke length tolerance	+1.4 0	mm						
Piston speed	50 to 1500 mm/s							
Cushion	Rubber	bumper						
Allowable kinetic energy	0.65 J	1.2 J						

Symbol

Double acting, Single rod



Strokes

Bore size [mm]	Standard stroke [mm]*1, *2	Stroke range [mm]		
32	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300	5 to 1000		
40	10, 25, 40, 50, 60, 100, 125, 160, 200, 250, 500	5 10 1000		

- *1 The manufacturing of strokes in 1 mm increments is possible. (Spacers are not used.) Produced upon receipt of order.
- *2 The min. stroke of the type with a magnet varies depending on the switch.

Option: Ordering Example of Cylinder Assembly

Cylinder model: CD75E40-50NV-B-M9BW-XB24 Double end boss-cut Rod end Auto switch

Head cover E: Double end boss-cut Mounting bracket N: Clevis Rod end bracket V: Rod end Auto switch D-M9BW: Band mounting, 2 pcs.

Mounting bracket, rod end, and auto switch are shipped together with the product.

.↑Caution

Durability of The Cylinder

The durability of a longer life cylinder has been evaluated by comparison with the existing cylinders under SMC's test conditions.

The durability of a cylinder depends on the customer's operating conditions and operating environment.

Therefore, durability of four times or longer will not be guaranteed under all conditions.

The allowable kinetic energy, allowable lateral loads at the rod end, theoretical output, weight, mounting bracket/parts numbers, and specifications with an auto switch, are equivalent to those of the ISO Cylinder C75 series. For details, refer to the Web Catalogue.

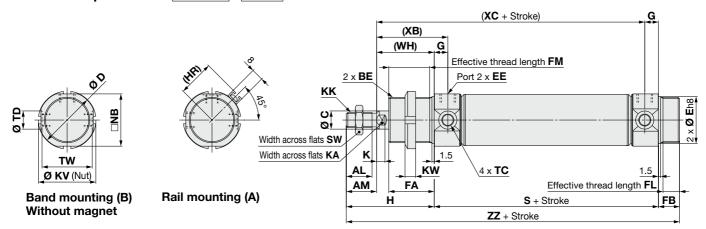




For details on accessories (rod end and floating joint), refer to the **Web Catalogue**.

Double end boss-cut

Rubber bumper: C□75E Bore size - Stroke - □ - XB24



																		[mm]
Bore size	AL	АМ	BE	С	D	E	EE	FA	FB	FM	FL	G	Н	(HR)	K	KA	KK	KV
32	17	20	M30 x 1.5	12	37.5	30	G1/8	30	14	27	11	9	58	23.8	5.5	10	M10 x 1.5	38
40	21	24	M38 x 1.5	14	46.5	38	G1/4	35	16	32	13	12	69	28.3	7	12	M12 x 1.75	50

Bore size	KW	NB	s	sw	тс	TD	TW	WA	WH	ХВ	хс	ZZ
32	7	34.5	68	17	M8 x 1	12+0.08	33.1	14	38	47	97	140
40	8	42.5	89	19	M10 x 1	14+0.08	39.5	20	45	57	122	174

Longer Life Cylinder Double Acting, Single Rod

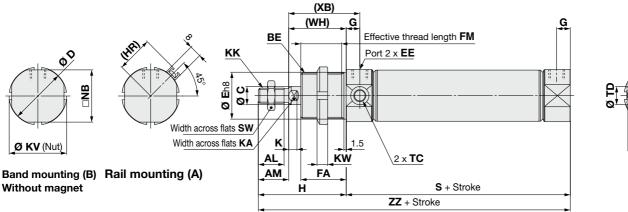


Dimensions

For details on accessories (rod end and floating joint), refer to the **Web Catalogue**.

Boss-cut/Basic

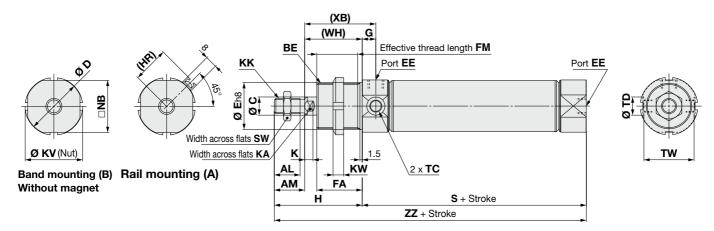
Rubber bumper: C□75F Bore size - Stroke - □ - XB24





Head cover axial port

Rubber bumper: C□75Y Bore size - Stroke - □ - XB24



Dimensions

[mm]

Bore size	AL	АМ	BE	С	D	Е	EE	FA	FM	G	Н	(HR)	K	KA	KK	ΚV	KW
32	17	20	M30 x 1.5	12	37.5	30	G1/8	30	27	9	58	23.8	5.5	10	M10 x 1.5	38	7
40	21	24	M38 x 1.5	14	46.5	38	G1/4	35	32	12	69	28.3	7	12	M12 x 1.75	50	8

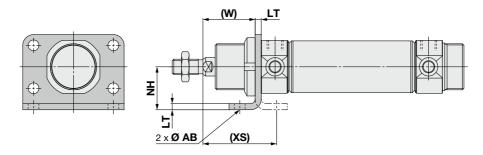
Bore size	NB	s sw tc		TD	TW	(WH)	(XB)	ZZ	
32	34.5	68	17	M8 x 1	12+0.08	33.1	38	47	126
40	42.5	89	19	M10 x 1	14 ^{+0.08}	39.5	45	57	158



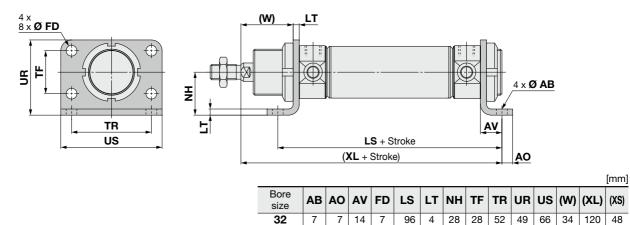


For details on accessories (rod end and floating joint), refer to the **Web Catalogue**.

Single foot: C□75E□ -□L/Flange: C□75E□ -□G (With mounting bracket) -XB24



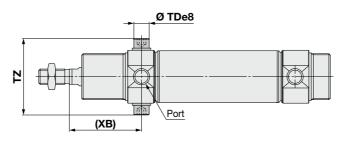
Double foot: C□75E□ - □M (With mounting bracket)



40

Rod trunnion: C□75E□ -□U - XB24 (With mounting bracket)





9 10

9 129

20

30 60 58 80 40 154

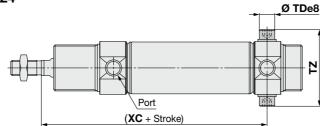
60

[mm]

5 33







				[]
Bore size	TDe8	TZ	(XB)	(XC)
32	10-0.025	49.9	47	97
40	12-0.032	62.3	57	122

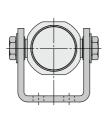
Longer Life Cylinder Double Acting, Single Rod

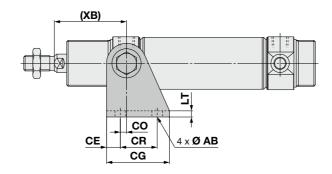


Dimensions

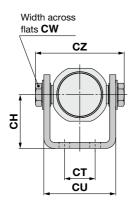
Refer to the **Web Catalogue** for details of accessories (rod end, floating joint).

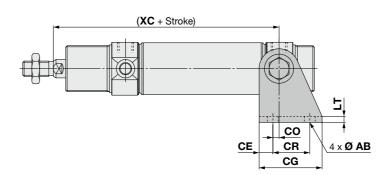
Rod clevis: $C \Box 75E \Box - \Box N - XB24$ (With mounting bracket)





Head clevis: C□75E□ -□N - XB24 (With mounting bracket)





[mm]

Bore size	АВ	CE	CG	СН	СО	CR	СТ	CU	cw	CZ	LT	(XB)	(XC)
32	7	9	41	35	4	24	20	46.8	13	57.9	4	47	97
40	9	12	52	40	3	30	28	58.2	17	72.3	5	57	122



These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) 1), and other safety regulations.

♠ Danger:

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious

Marning:

Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious

∧ Caution:

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate 1) ISO 4414: Pneumatic fluid power - General rules and safety requirements for systems and their components.

ISO 4413: Hydraulic fluid power - General rules and safety requirements for systems and their components.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.

Measurement Act.

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
 - 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries. Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the

The new Measurement Act prohibits use of any unit other than SI units in Japan.

Limited warranty and **Disclaimer/Compliance** Requirements

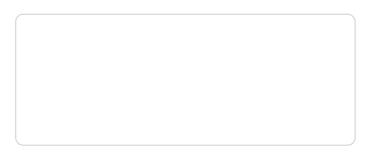
The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements". Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. 2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.



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