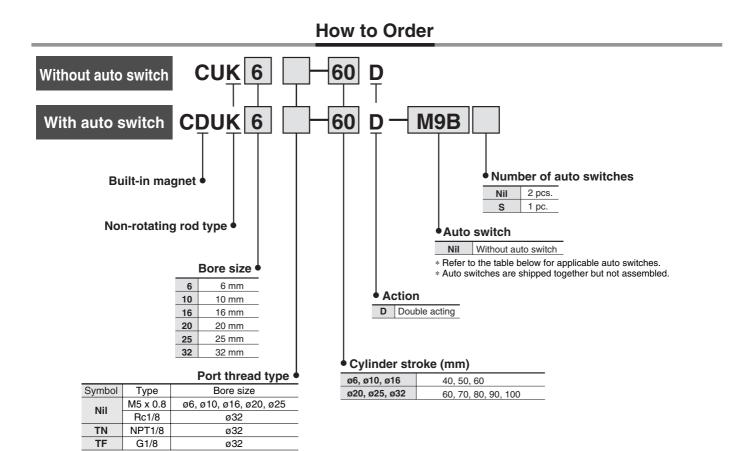
Free Mount Cylinder: Long Stroke Type Non-rotating Rod, Double Acting, Single Rod

Series CUK



ø6, ø10, ø16, ø20, ø25, ø32



Applicable Auto Switches/Refer to page 68 to 72 for further information on auto switches.

		Clastwice!	Indicator light	Wiring	Load voltage		Auto switch model		Lead wire length (m)*			Pre-wired	d Applicable load		
Type	Special function	Electrical entry	icator	(Output)	DC		AC			0.5	3	5	connector		
			므					Perpendicular	In-line	(Nil)	(L)	(Z)			
Reed switch	_	Grommet	,es	3-wire (NPN equivalent)	_	5 V		A96V	A96	•	•	_	_	IC circuit	_
		arommet	>	0	24 V 12 V 5 V, 12 V	100 V	A93V	A93			_	_	_	Dalay DLC	
			No	2-wire		5 V, 12 V	100 V or less	A90V	A90	•	•	_	_	IC circuit	Relay, PLC
				3-wire (NPN)	+	5 V, 12 V		M9NV	M9N			0	0	IC	
_ #e	_			3-wire (PNP)		5 V, 12 V		M9PV	M9P			0	0	circuit	
Solid state switch		Grommet	S	2-wire	24 V	12 V	_	M9BV	M9B			0	0	_	Relay,
Swi	Dia manatia in diantian		Yes	3-wire (NPN)] _ T V	5 V. 12 V		F9NWV	F9NW			0	0	IC	PLC
S	Diagnostic indication (2-color indication)			3-wire (PNP)		5 V, 12 V		F9PWV	F9PW	•		0	0	circuit	
	(2-color indication)			2-wire		12 V		F9BWV	F9BW			0	0	_	

^{*} Lead wire length symbols: 0.5 m-----Nil 3 m-----L



⁽Example) M9N (Example) M9NL (Example) M9NZ

^{*} Solid state switches marked with "O" are produced upon receipt of order.

^{*} Normally closed (NC=b contact), solid states switches (Model D-F9G, F9H) are also available. For detail, refer to page 7-9-23 in Best Peneumatics 2004 Vol. 7 catalog.

^{*} For detail about auto switches with pre-wired connector, refer to page 7-9-36 in the Best Pneumatics 2004 Vol. 7 catalog.

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Specifications

Bore size (mm)	6	10	16	20	25	32		
Fluid	Air							
Proof pressure			1.05	MPa				
Maximum operating pressure			0.7	MPa				
Minimum operating pressure	0.15	MPa	0.10	MPa	0.08	MPa		
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)							
Lubrication	Non-lube							
Piston speed	50 to 500 mm/s							
Cushion	Rubber bumper							
Rod end thread	Male thread							
Thread tolerance	JIS Class 2							
Stroke length tolerance	*1.0 mm							
Rod non-rotating accuracy Note)	±0.8° ±0.5°							

Note) No load: Rod at retracted

JIS SymbolDouble acting, Single rod



Standard Stroke

(mm)

Bore size (mm)	Standard stroke (mm)
6, 10, 16	40, 50, 60
20, 25, 32	60, 70, 80, 90, 100

Made to Order Specifications (For details, refer to page 43.)

Symbol	Specifications						
-XB9 Low speed (10 to 50 mm/s)							
-XB13	Low speed (5 to 50 mm/s)						
-XC19	Intermediate stroke (with a spacer built-in)						

Weight/(): Denotes the values with D-A93.

(g)

<u> </u>							(9)
Model			(Stroke (mm)		
Model	40	50	60	70	80	90	100
C(D)UK6-□D	49 (59)			_	_	_	_
C(D)UK10-□D	(01) (03)		87 (97)	_	_	_	_
C(D)UK16-□D			126 (156)	_	_	_	_
C(D)UK20-□D	_	_	243 (284)	267 (308)	291 (332)	315 (356)	339 (380)
C(D)UK25-□D	_	_	405 (460)	440 (495)	475 (530)	510 (565)	545 (600)
C(D)UK32-□D	_	_	617 (695)	669 (747)	721 (799)	773 (851)	825 (903)

 $[\]ast$ For the auto switch weight, refer to page 68 to 72.

Allowable Rotational Torque

Make sure that rotational torque is not applied to the piston rod of a long stroke type cylinder. If the rotation torque were applied unavoidably, refer to page 22 for details.

Tightening Torque

When mounting a CUK long stroke series, refer to page 3.

Theoretical Output

Specifications are the same as CU series double acting, single rod. Refer to page 3.

Auto Switch Mounting Position

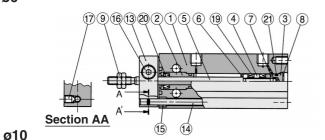
For the auto switch mounting position of CDUK long stroke series, refer to page 6, since specifications are the same as standard type, double acting, single rod type.



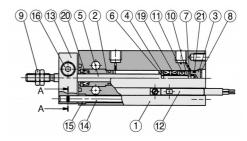
Series CUK

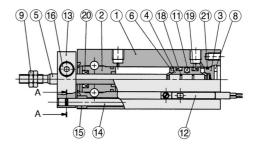
Construction

ø6



With auto switch

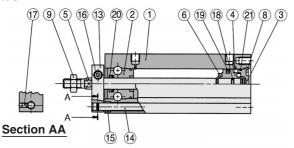




9 5 16 3 20 2 1 6 4 19 11 18 21 8 3 A 15 14 12

Section AA

ø16 to ø32



Component Parts

	P				
No.	Description	Material	Note		
1	Cylinder tube	Aluminum alloy	Hard anodized		
2	Rod cover	Aluminum bearing alloy	Hard anodized		
3	Head cover	Brass	ø6 to ø10, Electroless nickel plated		
	Head Cover	Aluminum alloy	ø16 to ø32, Clear chromated		
	Piston	Brass	ø6 to ø10		
4	FISION	Aluminum alloy	ø16 to ø32, Chromated		
5	Piston rod	Stainless steel			
6	Bumper A	Urethane			
7	Bumper B	Urethane			
8	Snap ring	Carbon tool steel	Phosphate coated		
9	Rod end nut	Carbon steel	Nickel plated		
10	Magnet holder	Brass	ø6		

Component Parts

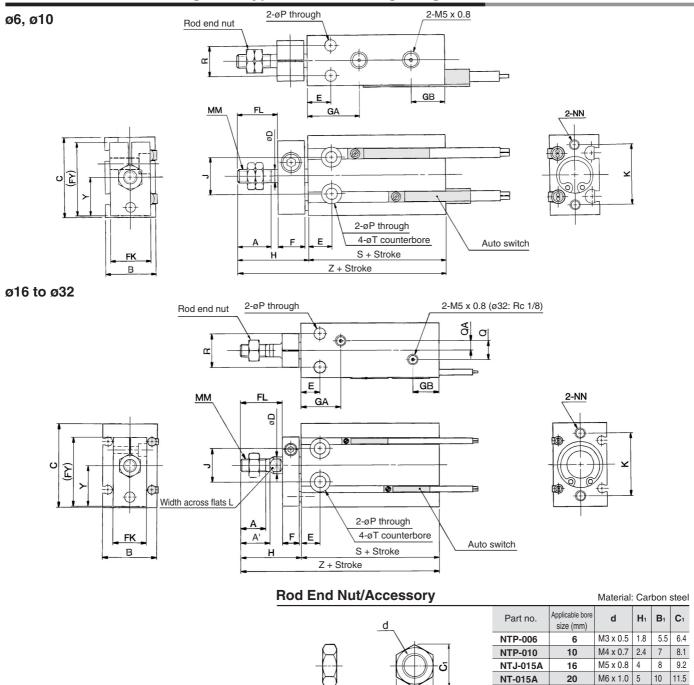
COIII	ponent i arts		
No.	Description	Material	Note
11	Magnet	Magnetic material	
12	Auto switch	_	
13	Non-rotating plate	Aluminum alloy	Nickel plated
14	Guide rod	Stainless steel	
15	Bushing	Oil-impregnated sintered alloy	Black zinc chromated
16	Hexagon socket head cap screw	Carbon steel	Black zinc chromated
17	Hexagon socket head set screw	Carbon steel	
18	Piston gasket		
19	Piston seal	NDD	
20	Rod seal	NBR	
21	Gasket		

Replacement Parts: Seal Kit

Bore size (mm)	Kit no.	Contents			
10	CU10D-PS				
16	CU16D-PS				
20	CU20D-PS	Set of nos. above 19, 20, 21.			
25	CU25D-PS				
32	CU32D-PS				

*Seal kit includes (9, 20, 2). Order the seal kit, based on each bore size.

Dimensions: Non-rotating Rod Type; Double Acting, Single Rod



Bore size (mm)	Α	A'	В	С	D	E	F	FL	FK	FY	GA	GB	н	J	к	L	ММ
6	7	_	13	22	3	7	8	9	11	20.5	15	10	18	10	17	_	M3 x 0.5
10	10	_	15	24	4	7	8	12	12	22	16.5	10	21	11	18	_	M4 x 0.7
16	11	12.5	20	32	6	7	8	17	13	28	16.5	11.5	26	14	25	5	M5 x 0.8
20	12	14	26	40	8	9	8	20	16	33	19	12.5	29	16	30	6	M6 x 1.0
25	15.5	18	32	50	10	10	10	22	20	43.5	21.5	13	33	20	38	8	M8 x 1.25
32	19.5	22	40	62	12	11	12	29	24	51.5	23	12.5	42	24	48	10	M10 x 1.25

	Bore size	NINI	Р	_	QA	R	_	v	Without auto switch		With auto switch	
	(mm)	NN	Р	Q	QA	n		T	S	Z	S	Z
	6	M3 x 0.5 depth 5	3.2		_	7	6 depth 4.8	10.5	33	51	33	51
	10	M3 x 0.5 depth 5	3.2	_	_	9	6 depth 5	11.5	36	57	36	57
	16	M4 x 0.7 depth 6	4.5	4	2	12	7.6 depth 6.5	15.5	30	56	40	66
	20	M5 x 0.8 depth 8	5.5	9	4.5	16	9.3 depth 8	19.5	36	65	46	75
	25	M5 x 0.8 depth 8	5.5	9	4.5	20	9.3 depth 9	24.5	40	73	50	83
32		M6 x 1.0 depth 9	6.6	13.5	4.5	24	11 depth 11.5	30.5	42	84	52	94

25

32

NT-02

NT-03

M8 x 1.25 5 13 15.0

M10 x 1.25 6

17 19.6