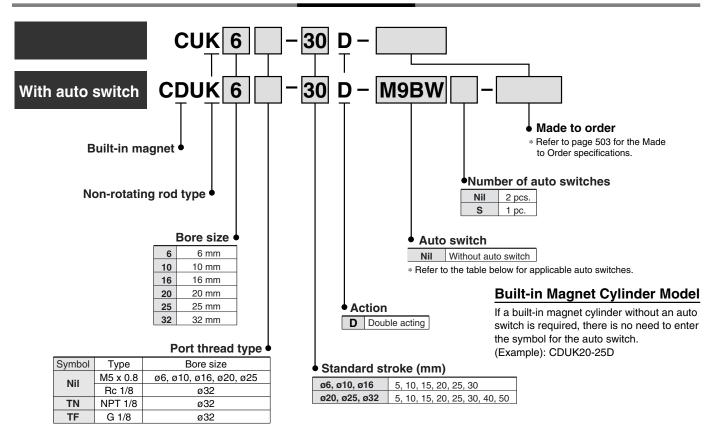
Free Mount Cylinder: Non-rotating Rod Type **Double Acting, Single Rod**

Series CUK

ø6, ø10, ø16, ø20, ø25, ø32





Applicable Auto Switches/Refer to pages 1263 to 1371 for further information on auto switches

	<u> </u>	ilicable Auto Owi	LCITCS/ITE	ופו נט	pages 1200 to	13/110	i iuitiiei iii	ioiiiialioii									
		e Special function	Electrical entry	light	Mirina	Load voltage		Auto switch model		Lead wire length (m)			h (m)	Dro wired			
Ty	Type			ator	Wiring (Output)		OC AC		Perpendicular In-line	0.5 1 3	5	Pre-wired connector	Applicable load				
				Indicator		DC		AC Per	rerpendicular	Perpendicular In-line ((Nil)	(M)	(L)	(Z)	COMMECTOR		
			Grommet		3-wire (NPN)	(PNP) vire (NPN) (PNP) 24 V 5 V, 12 V 5 V, 12 V	5 V 10 V		M9NV	M9N	•	•	•	0	0	IC	
4	solid state switch				3-wire (PNP)		5 V, 12 V		M9PV	M9P	•	•	•	0	0	circuit	
*				Yes	2-wire		12 V		M9BV	M9B	• •	•	•	0	0	_	Relay,
<u>.</u>	<u> </u>	Diagnostic indication		res	3-wire (NPN)		5 V, 12 V] —	M9NWV	M9NW	•	•	•	0	0	IC	PLC
S	(2-color indication				3-wire (PNP)				M9PWV	M9PW	•	•	•	0	0	circuit	
		(2-color indication)			2-wire			M9BWV	M9BW	•	•	•	0	0	_		
	_			3-wire		_ 5 V		A96V	A96						IC		
Reed	닪		Grommet	Yes	(NPN equivalent)	_ 5	5 V -	_	A90V	A90						circuit	_
	Ĭ.			let	2-wire 24 V	12 V	100 V	A93V	A93	•		•	-	_	_	Relay,	
	٠,			No	Z-WITE	24 V	12 V	100 V or less	A90V	A90	•		•	-		IC circuit	PLC

- * Lead wire length symbols: 0.5 m Nil (Example) M9NW * Solid state auto switches marked with "O" are produced upon receipt of order.
- * Since there are applicable auto switches other than the above, refer to page 538 for details.
- * For detail about auto switches with pre-wired connector, refer to pages 1328 to 1329.
- * Auto switches are shipped together but not assembled.



Free Mount Cylinder: Non-rotating Rod Type Double Acting, Single Rod Series CUK



JIS Symbol

Double acting, Single rod

Made to Order Specifications (For details, refer to pages 1395 to 1498.)

Symbol	Specifications
-XB6	Heat resistant (-10 to 150°C)
-XB7	Cold resistant (- 40 to 700°C)
-XB9	Low speed (10 to 50 mm/s)
-XB13	Low speed (5 to 50 mm/s)
-XC19	Intermediate stroke (5 mm spacer)
-XC22	Fluororubber seals
-XC34	Non-rotating plate with work piece mounting screw (No extended part on the rod end)

⚠ Precautions

Be sure to read before handling. Refer to front matters 54 and 55 for Safety Instructions and pages 3 to 11 for Actuator and Auto Switch Precautions.

Operating Precautions

⚠ Caution

1. Do not place your fingers in the clearance between the non-rotating plate and the cylinder tube.

Your fingers could get caught between the non-rotating plate and the cylinder tube when the piston rod retracts. Therefore, never place your finger in this area.

Because the cylinder outputs a great force, it could lead to injury if precautions are not taken to prevent your fingers from getting caught.

2. When using the non-rotating style, make sure that rotational torque is not applied to the piston rod. If rotational torque must be applied due to unavoidable circumstances, make sure to use it at the allowable rotational torque or less, which is shown in the table on

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	MРа		0.08 MPa			
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing)							
Ambient and hald temperature	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							
Stroke length tolerance	+ 1.0 mm							
Rod non-rotating accuracy Note)	±0.8° ±0.5°							

Note) No load: Rod at retracted

Standard Stroke

Bore size (mm)	Standard stroke (mm)	For long stroke refer to		
6, 10, 16	5, 10, 15, 20, 25, 30	For long stroke, refer to page 520.		
20, 25, 32	5, 10, 15, 20, 25, 30, 40, 50			

Minimum Stroke for Auto Switch Mounting

		10 101 71010 011110		(11111)
	No. of auto switches mounted	D-A9□, D-A9□V	D-M9□, D-M9□V	D-M9□W, D-M9□WV
	1 pc.	5	5	5
	2 pcs.	10	5	10

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

CUJ (g)

CQS

CQ2

RQ

CQM

MU

Stroke (mm) Bore size (mm) 5 10 15 20 25 30 40 50 28 37 40 43 C(D)UK6-□D (33)(41)(44)(47)(50)(53)43 47 51 55 59 63 C(D)UK10-□D (48)(57)(61)(65)(69)(73)60 66 72 78 84 90 C(D)UK16-□D (102)(108)(85)(96)(114)(120)113 124 136 148 160 172 195 219 C(D)UK20-□D (147)(164)(176)(188)(200)(211)(235)(260)212 229 246 263 280 297 335 370 C(D)UK25-□D (266)(288)(305)(322)(339)(356)(390)(424)

383 409 435 461 331 357 C(D)UK32-□D (404) (435)(461)(487)(513)(539)(591)For the auto switch mass, refer to page 1263.

Allowable Rotational Torque

		•				
Bore size (mm)	6	10	16	20	25	32
Allowable rotational torque (N·m)	0.0015	0.02	0.04	0.10	0.15	0.20

Tightening Torque

When mounting Series CUK, refer to page 484.

Theoretical Output

Specifications are the same as CU series double acting, single rod. Refer to page 484.

Auto Switch Mounting Position

513

565

(643)

For the auto switch mounting position of Series CDUK, refer to page 488, since specifications are the same as standard type, double acting, single rod type.

D-□ -X□

Individual -X□

Technical

