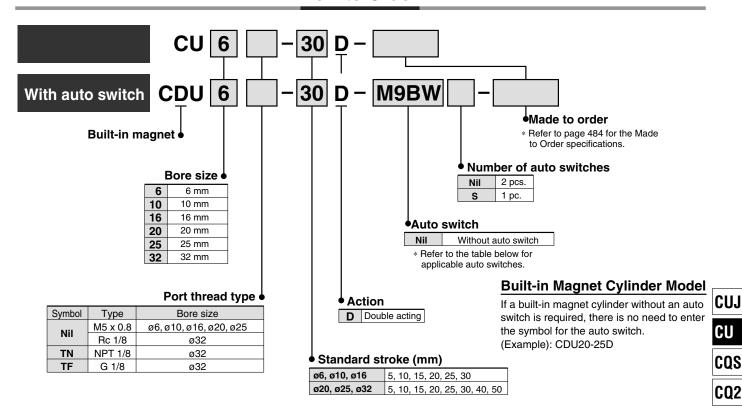
# **Free Mount Cylinder** Double Acting, Single Rod Series C ø6, ø10, ø16, ø20, ø25, ø32

#### How to Order



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

	Special function	Electrical entry	light	\A/: wine or	Load voltage			Auto switch model		Lead wire length (m)			n (m)	Pre-wired		
Туре			Indicator I	Wiring (Output)	DC		AC	Perpendicular In-line		0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	Applicable load	
				3-wire (NPN)		5 V 40 V		M9NV	M9N	•	•	•	0	0	IC	
Solid state switch				3-wire (PNP)		5 V, 12 V		M9PV	M9P	•	•	•	0	0	circuit	
달왕		Grommet	Yes	2-wire	24 V	12 V		M9BV	M9B	•	•	•	0	0	_	Relay,
5 ≅		Grommet	res	3-wire (NPN)	24 V	5 V, 12 V	] —	M9NWV	M9NW	•	•	•	0	0	IC	PLC
တို	Diagnostic indication			3-wire (PNP)		5 V, 12 V		M9PWV	M9PW	W • • • • • • • • • • • • • • • • • • •	circuit					
	(2-color indication)			2-wire		12 V		M9BWV	// M9N	•	•	0	0	_		
Reed		Yesi (NPN equivalent)	A96	•	-	•	_	_	IC circuit	_						
		Grommet		2-wire	24 V	12 V	100 V	A93V	A93	•	_	•	_	_	_	Relay,
0,			No	2-WIIE	24 V	12 V	100 V or less	A90V	A90		I —			_	IC circuit	PLC

\* Solid state auto switches marked with "O" are produced upon receipt of order.

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW 1 m ..... M (Example) M9NWM

3 m ..... L (Example) M9NWL 5 m ..... Z (Example) M9NWZ

\* 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.

**D**-□ -X□

RQ

CQM

MU

-X□ Technical

Individual



## Series CU



**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	0.12 MPa	0.06	MPa	0.05 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							
Stroke length tolerance	*1.0 mm							

## JIS Symbol Double acting, Single rod

### **Standard Stroke**

Bore size (mm)	Standard stroke (mm)				
6, 10, 16	5, 10, 15, 20, 25, 30				
20, 25, 32	5, 10, 15, 20, 25, 30, 40, 50				

For "Long Stroke", refer to page 516.

# 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 70°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			

al Output					(N)		
Rod size	Operating	Piston area	Operating pressure (MPa)				
(mm)	direction	(mm²)	0.3	0.5	0.7		
2	OUT	28.3	8.49	14.2	19.8		
3	IN	21.2	6.36	10.6	14.8		
4	OUT	78.5	23.6	39.3	55.0		
4	IN	66.0	19.8	33.0	46.2		
6	OUT	201	60.3	101	141		
0	IN	172	51.6	86.0	121		
•	OUT	314	94.2	157	220		
	IN	264	79.2	132	185		
25 10	OUT	491	147	246	344		
10	IN	412	124	206	288		
12	OUT	804	241	402	563		
12	IN	691	207	346	454		
	Rod size	(mm) direction  3	Rod size (mm)         Operating direction         Piston area (mm²)           3         OUT         28.3           IN         21.2           4         OUT         78.5           IN         66.0           OUT         201           IN         172           8         OUT         314           IN         264           OUT         491           IN         412           OUT         804	Rod size (mm)         Operating direction         Piston area (mm²)         Operating 0.3           3         OUT         28.3         8.49           IN         21.2         6.36           4         OUT         78.5         23.6           IN         66.0         19.8           OUT         201         60.3           IN         172         51.6           8         IN         264         79.2           IN         491         147           IN         412         124           OUT         804         241	Rod size (mm)         Operating direction         Piston area (mm²)         Operating 0.3         O.5           3         OUT         28.3         8.49         14.2           IN         21.2         6.36         10.6           4         OUT         78.5         23.6         39.3           IN         66.0         19.8         33.0           6         IN         172         51.6         86.0           8         OUT         314         94.2         157           IN         264         79.2         132           10         IN         412         124         206           IN         412         124         206           OUT         804         241         402		

**Tightening Torque/** When mounting Series CU, refer to the below table.

	• •	
Bore size (mm)	Hexagon socket head cap screw dia.	Proper tightening torque (N·m)
6, 10	M3	1.08 ±10%
16	M4	2.45 ±10%
20, 25	M5	5.10 ±10%
32	M6	8.04 ±10%

Mass/( ): Denotes the values with D-A93. (g)									
Model	Cylinder stroke (mm)								
iviodei	5	10	15	20	25	30	40	50	
C(D)U6-□D	22 (27)	25 (35)	28 (38)	31 (41)	34 (44)	37 (47)	_	_	
C(D)U10-□D	36 (41)	40 (50)	44 (54)	48 (58)	52 (62)	56 (66)	_	_	
C(D)U16-□D	50 (75)	56 (86)	62 (92)	68 (98)	74 (104)	80 (110)	_	_	
C(D)U20-□D	95 (128)	106 (143)	117 (154)	128 (165)	139 (176)	150 (187)	172 (209)	194 (231)	
C(D)U25-□D	176 (230)	193 (252)	210 (269)	227 (286)	244 (303)	261 (320)	295 (354)	329 (388)	
C(D)U32-□D	262 (335)	286 (364)	310 (388)	334 (412)	358 (436)	382 (460)	430 (508)	478 (556)	

 $<sup>\</sup>ast$  For the auto switch mass, refer to page 1263.

