

CU Series Free Installation Cylinder



CDU 25 x 30



CDUK 16 x 30

Ordering Code

CU

Series Code
CU:Normal Type
CDU:Attach
Magnet Type

□

Kinds
Blank:Normal Type
K:Non-Rotating
Piston Rod Type

10

Cylinder Bore
6mm
10mm
16mm
20mm
25mm
32mm

×

30

Stroke
0~50mm

□

Action
D:Double Action
S:Single Action Spring
Drawing-in Type
T:Single Action Spring
Extrusion Type

Specification

Bore(mm)		6	10	16	20	25	32
Working Medium		Air					
Motion Pattern		Double action/Single Action Extrusion type/Single Action Drawing-in Type					
Ensured Pressure Resistance		1.05Mpa(10.5kgf/cm ²)					
Max. Working-pressure		0.7Mpa(7.1kgf/cm ²)					
Min. operating pressure	Single	0.2MPa	0.15MPa			0.13MPa	
	Double	0.12MPa	0.06MPa			0.05MPa	
Ambient and Medium Temperature		Without auto switch:-10~70℃ (No freezing) With auto switch:-10~60℃ (No freezing)					
Lubrication		Non-lube					
Piston speed		50-500 mm/s					
Cushion		Rubber bumper ^{Note)}					
Rod end thread		Male thread					
Thread tolerance		Class 2					
Cushion		Both ends buffer					
Margin of Stroke Error(mm)		+1.0 0 mm					
Precision of Piston rod with Non-rotating		±0.8°					
Port Size		M5×0.8					
		G1/8"					

Note) Φ6 single acting with auto switch type: One side rubber bumper.

Standard Stroke

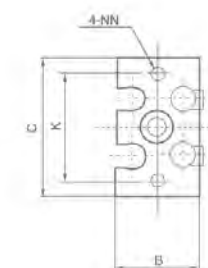
Action Type	Bore size(mm)	Standard stroke(mm)
Double Acting	6, 10, 16	5, 10, 15, 20, 25, 30
	20, 25, 32	5, 10, 15, 20, 25, 30, 40, 50
Single Acting	6, 10, 16, 20, 25, 32	5, 10, 15

CU Series Free Installation Cylinder

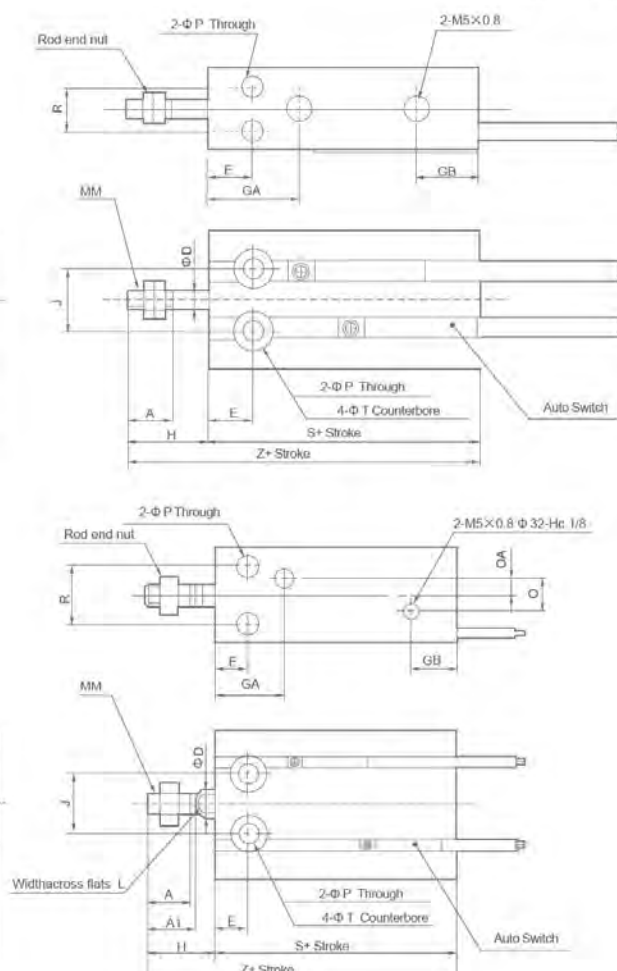
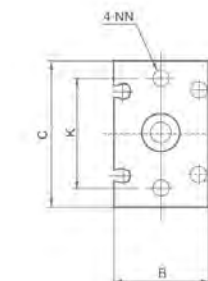
Overall Dimensions

Double Acting, Single Rod

φ 6~φ 10



φ 16~φ 32



Dimension Sheet

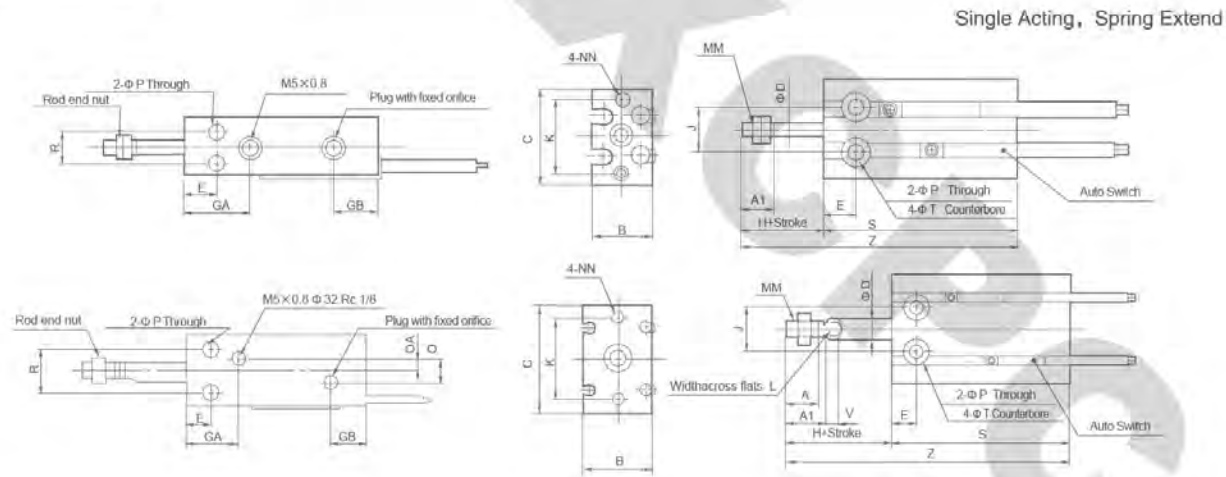
Bore size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7
16	11	12.5	20	32	6	7	16.5 ^{Note)}	11.5	16	25	14	5	M5×0.8
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25

Bore size (mm)	NN	F	Q	QA	R	T	Without Auto Switch		With Auto Switch	
							S	Z	S	Z
6	M3×0.5 depth 5	3.2	-	-	7	6 depth 4.8	33	46	33	46
10	M3×0.5 depth 5	3.2	-	-	9	6 depth 5	36	52	36	52
16	M4×0.7 depth 6	4.5	4	2	12	7.6 depth 6.5	30	46	40	56
20	M5×0.8 depth 8	5.5	9	4.5	16	9.3 depth 8	36	55	46	65
25	M5×0.8 depth 8	5.5	9	4.5	20	9.3 depth 9	40	63	50	73
32	M6×1.0 depth 9	6.6	13.5	4.5	24	11 depth 11.5	42	69	52	79

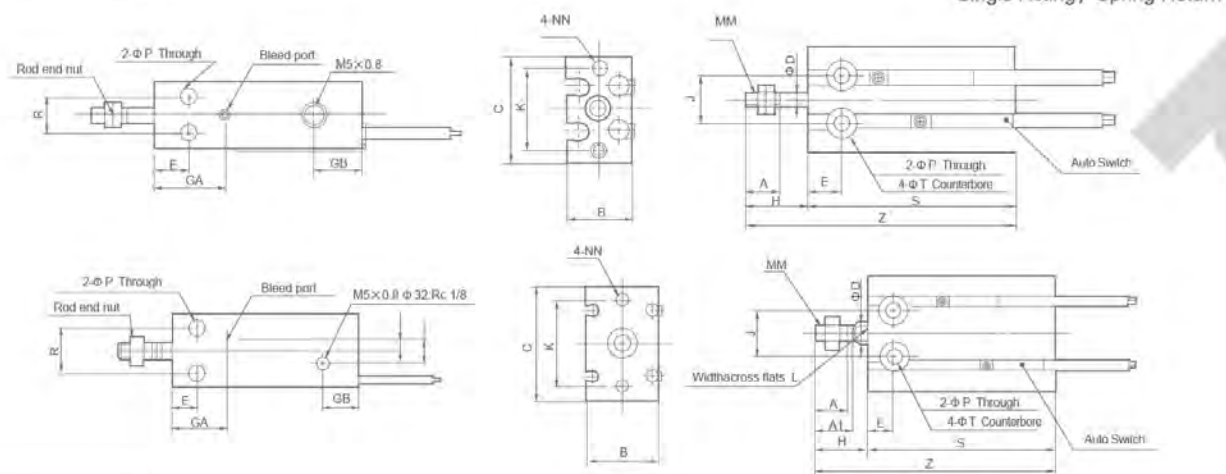
Note) 5 Stroke(CU16-5D):14.5mm

CU Series Free Installation Cylinder

Overall Dimensions



Overall Dimensions



Dimension Sheet

Bore size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM	NN	P
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5	M3×0.5 (depth) 5	3.2
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7	M3×0.5 (depth) 5	3.2
16	11	12.5	20	32	6	7	16.5	11.5	16	25	14	5	M5×0.8	M4×0.7 (depth) 6	4.5
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0	M5×0.8 (depth) 8	5.5
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25	M5×0.8 (depth) 8	5.5
32	19.5	22	40	62	12	11	23	12.5	27	48	24	10	M10×1.25	M6×1.0 (depth) 9	6.6

Bore size (mm)	Q	QA	R	T	V (Note)	Without Auto Switch						With Auto Switch					
						S			Z			S			Z		
						5st	10st	15st	5st	10st	15st	5st	10st	15st	5st	10st	15st
6	-	-	7	6 (depth) 4.8	-	38	43	48	56	66	76	38	43	48	56	66	76
10	-	-	9	6 (depth) 5	-	41	46	56	62	72	87	41	46	56	62	72	87
16	4	2	12	7.6 (depth) 6.5	3.5	45	50	60	66	76	91	45	50	60	66	76	91
20	9	4.5	16	9.3 (depth) 8	5	41	46	56	65	75	90	51	56	66	75	85	100
25	9	4.5	20	9.3 (depth) 9	5	45	50	60	73	83	98	55	60	70	83	93	108
32	13.5	4.5	24	11 (depth) 11.5	5	47	52	62	79	89	104	57	62	72	89	99	114

■ Note) "V" Only for Single Acting, Spring Extend

STM Series Slide Bearing Cylinder



STMB 16 x 50

STMS 16 x 125

Ordering Code

STM

Series Code
Sliding Type

B

Mounting type
B: Body fixed Type
S: Sliding Block Fixed Type

16

Cylinder Bore
10mm
16mm
20mm
25mm

50

Stroke
0~250mm

Specification

Bore(mm)	10	16	20	25
Motion Pattern	Double action			
Working Medium	Air			
Operating Temperature Range	-5~+70℃			
Operating Pressure Range	1.0~9.0kgf/cm ²			
Ensured Pressure Resistance	13.5kgf/cm ²			
Operating Speed Range	50~200mm/s			
Buffer Type	Shock Absorber			
Lubrication	NO			
Non-rotating Precision	±0.1°			
Port size	M5×0.8			
	G1/8"			

Standard Stroke

Bore size(mm)	Standard stroke(mm)									
10	25	50	75	100						
16	25	50	75	100	125	150	175	200		
20	25	50	75	100	125	150	175	200	250	
25	25	50	75	100	125	150	175	200	250	

Theoretical thrust

Bore size(mm)	Rod size (mm)	Pressure area (cm ²)	Operating pressure(Kgf/cm ²)								
			1	2	3	4	5	6	7	8	9
10	6	0.50	0.48	0.95	1.43	1.9	2.38	2.85	3.43	3.8	4.28
16	8	1.51	1.43	2.87	4.30	5.74	7.17	8.61	10.04	11.48	12.91
20	10	2.36	2.24	4.48	6.73	8.97	11.21	13.45	15.69	17.94	20.18
25	12	3.78	3.61	7.18	10.77	14.36	17.96	21.55	25.14	28.73	32.32