

CU, CDU Series Free Mounting Cylinder:



1. Ordering Code :

CU	□	-	10	-	30	D	-	A93
↑	↑		↑		↑	↑		↑
Model	Rod Type		Bore		Stroke	Action type		Magnet switch type
CU: Normal type CDU: With magnet inside	Black: Basic type K: Non-rotating piston rod type		6mm 10mm 16mm 20mm 25mm 32mm		0~50mm	D:Double action S:Single action with spring return T:Single action with spring extent		Blank: No switch

2.Characteristics:

- 1) This series free installation cylinders can be mounted freely and easily.
- 2) Small size and light weight.
- 3) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 4) Needn't lubricate on piston rod by oil

3.Specification:

Bore(mm)		6mm	10mm	16mm	20mm	25mm	32mm
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°			±0.5°		
Port Size		M5×0.8					G1/8"

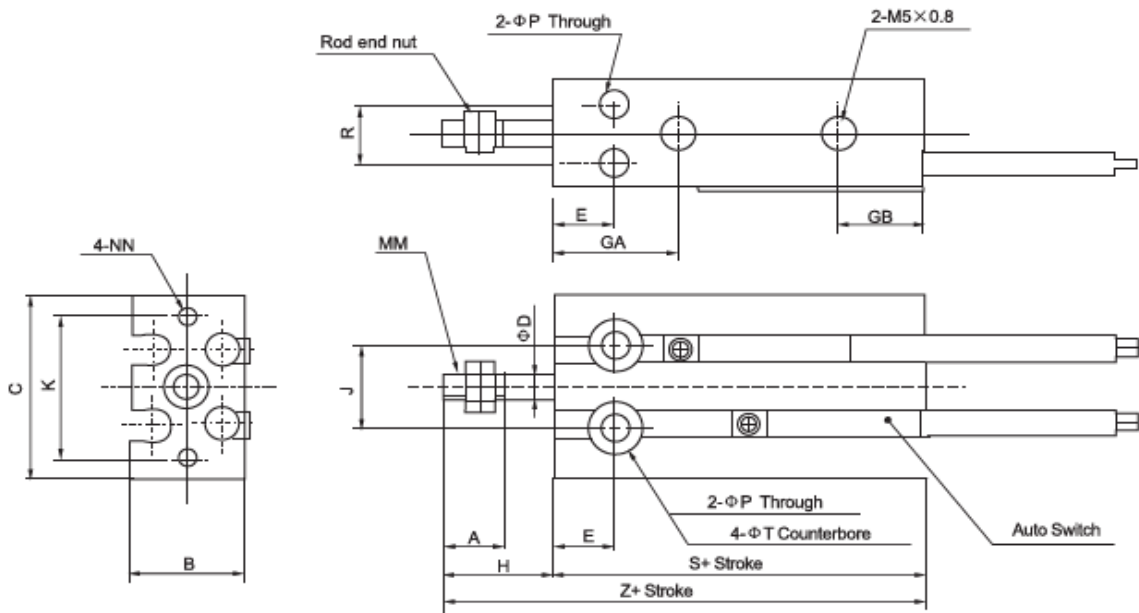
4. Stroke:

	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

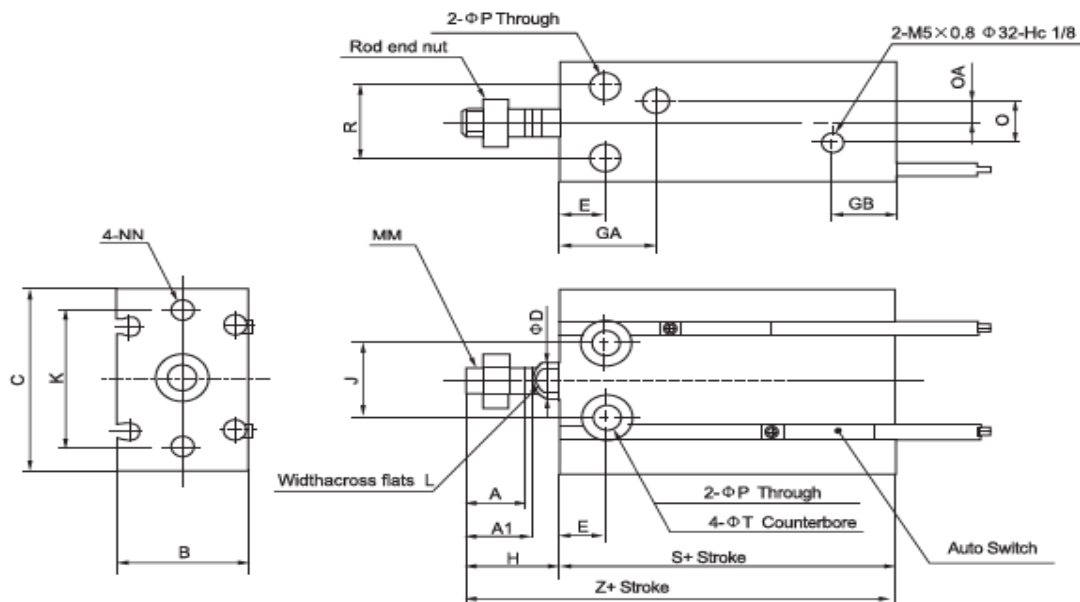
5. Overall and Dimension Sheet:

1) Double Acting, Single Rod:

Φ6~Φ10:



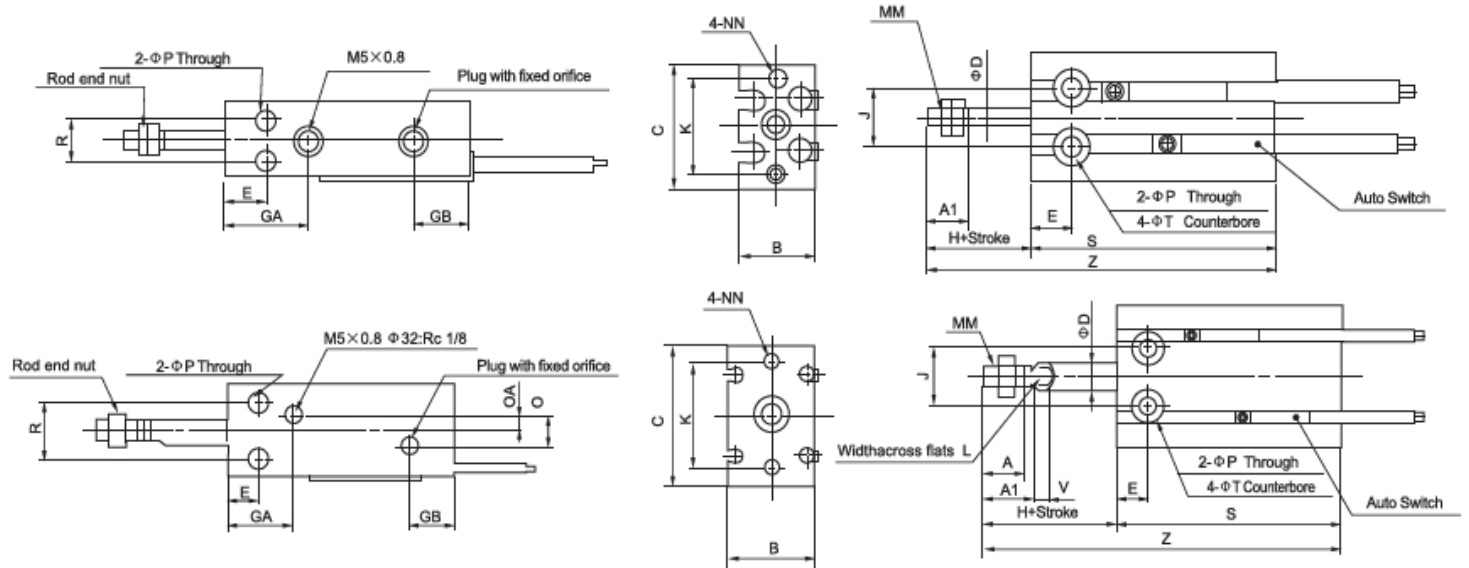
Φ16~Φ32:



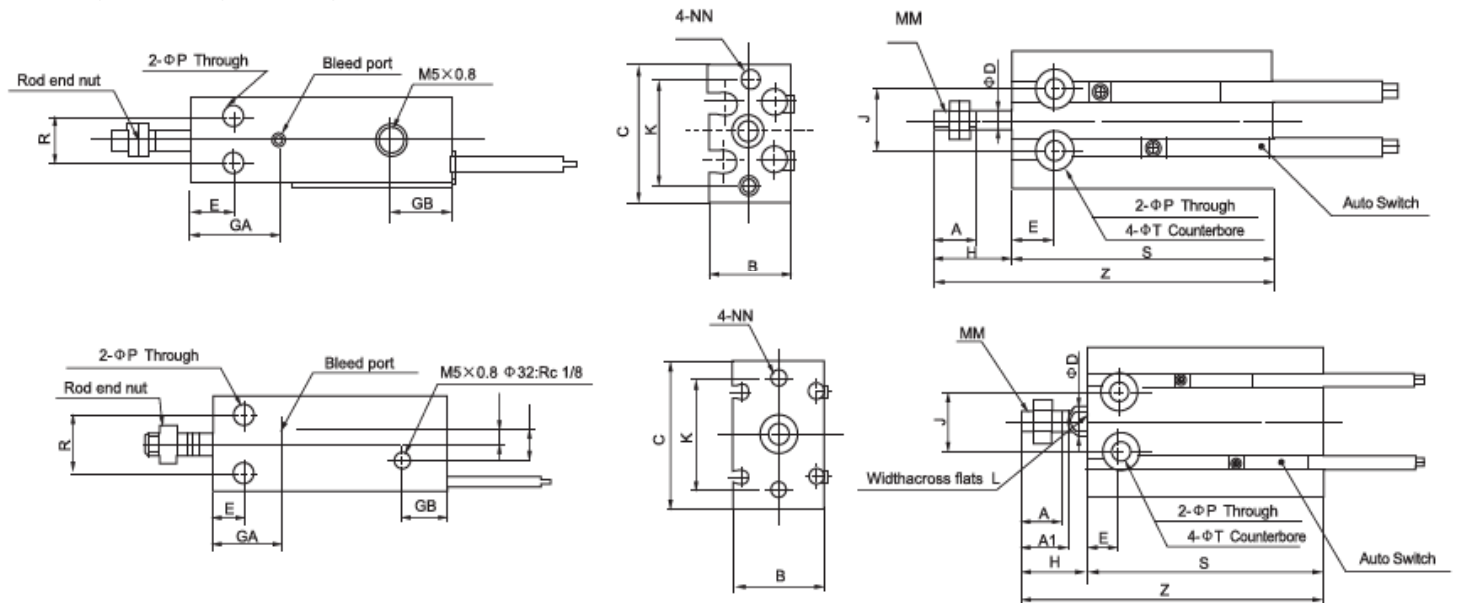
Bore size(mm)	A	A1	B	C	D	E	GA	GB	H	K	J	L	MM
6	7	-	13	22	3	7	15	10	13	17	10	-	M3×0.5
10	10	-	15	24	4	7	16.5	10	16	18	11	-	M4×0.7
16	11	12.5	20	32	6	7	16.5 ^(Note)	11.5	16	25	14	5	M5×0.8
20	12	14	26	40	8	9	19	12.5	19	30	16	6	M6×1.0
25	15.5	18	32	50	10	10	21.5	13	23	38	20	8	M8×1.25
32	19.5	22	40	62	12	11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

Bore size (mm)	NN	P	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

2) Single Acting, Spring Extend:



3) Single Acting, Spring Return:



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