Free Mount Cylinder

Compact Type

Size: 20, 32

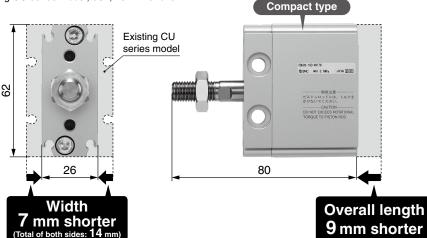




o reduction Width 40 mm → 26 mm

Overall reduction length 89 mm **→** 80 mm

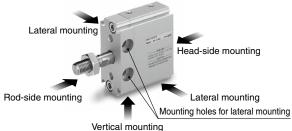
Compared with the existing CU series model, ø32, 10 mm stroke



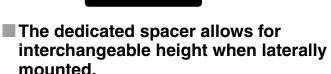
Mounting is possible from 5 directions.

(The same as the existing CU series model)

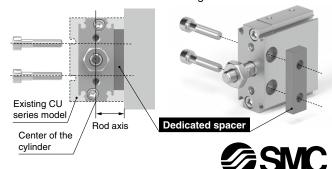
The pitch and diameter of the mounting holes for lateral mounting are the same as those of the existing CU series model.



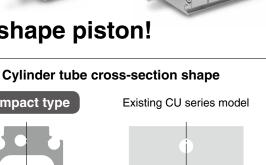
CDU-X3178



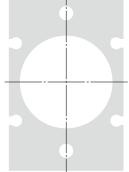
When the dedicated spacer is used, the distance to the rod axis is the same as that on the existing model.







Compact type



CDU-X3178

Specifications

Size	20 (Equiv. ø20 piston area)	32 (Equiv. ø25 piston area)						
Fluid	Air							
Proof pressure	1.05	MPa						
Max. operating pressure	0.7	MPa						
Min. operating pressure	0.05	MPa						
Ambient and fluid temperatures	−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	±1°	±0.8°						

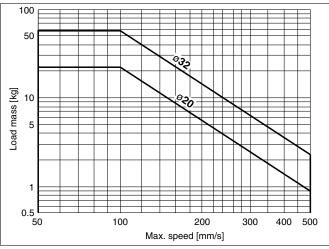
^{*} This is a non-rotating rod type cylinder.



Allowable Lateral Load at Rod End

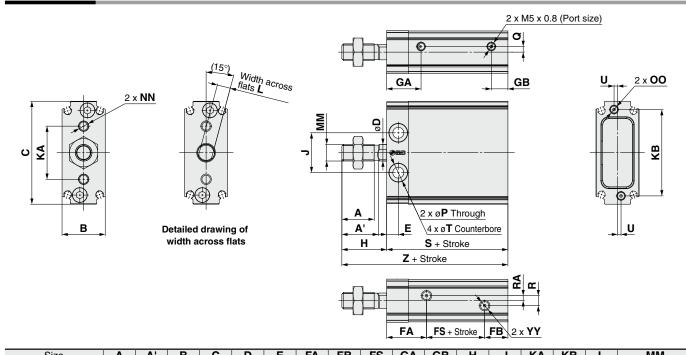
								[11]							
C:		Stroke [mm]													
Size	5	10	15	20	25	30	40	50							
20	3.0	2.7	2.5	2.3	2.1	2.0	1.8	1.6							
32	7.1	6.6	6.1	5.7	5.4	5.1	4.6	4.1							

Operating Speed



Be sure to connect a speed controller to the cylinder and adjust its speed to 500 mm/s or less. If a load is to be attached to the end of the rod, adjust the speed to the max. speed shown in the graph above or less, in accordance with the load mass.

Dimensions



Size	A	A	D	C	ט		ГA	ГВ	гэ	GA	GB	п	J	NA	ND	_ L	IVIIV	VI
20	12	14	19	40	6	5.3	18.6	10.5	9	18	9.8	19	16	20.2	32.5	5	M6 x	1.0
32	19.5	22	26	62	10	7	24	14	5	20.7	10	27	24	32	52	8	M10 x 1.25	
Size		NN			00		Р	Q	R	RA		Т		U	Υ	Υ	S	Z
Size 20	M4	NN x 0.7 D	epth 8	M4	00 x 0.7 D	epth 5	P 5.5	Q 1	R 3	RA 1.5	9.3	T Depth !	5.4		Y M4 x 0.7	Y	S 38	Z 57

⚠ Caution

When securing a workpiece to the end of the piston rod, ensure that the piston rod is fully retracted, and place a I wrench on the portion of the rod that protrudes. Then, tighten without applying tightening torque to the piston rod.

▲ Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and the "CU Series Specific Product Precautions" before use.

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