

SU Series Standard Cylinder:



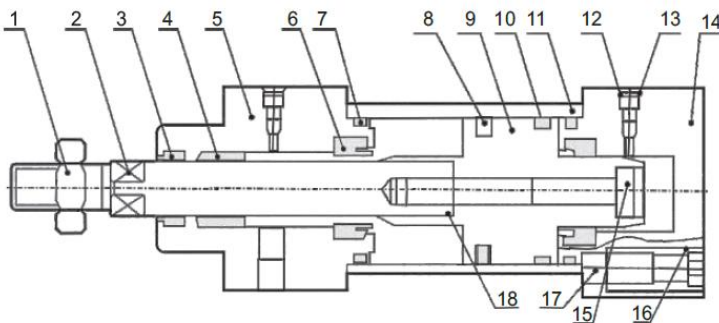
1. Ordering Code :

SU	-	50	X	50	-	25	-	S	-	LB
↑		↑		↑		↑		↑		↑
Model		Bore size		Stroke	Adjust stroke	S:with magnet				Fixed type
SU: Double action type				25:25mm		Blank:				Blank: Basic type
SUD: Two axis double action type				50:50mm		without				LB:Foot mounting type
SUJ: Two axis double action type with stroke adjustable				75:75mm		magnet				FA:Front flange mounting type
										FB:Rear-Flange mounting type
										CA:Male single Earring type
										CB:Female double earring type
										SDB: Back cover fixed type
										TC:Trunnion type

2.Characteristics:

- 1) This series of cylinder conforms to: Airtac standard
- 2) There is an adjustable buffers at the terminals of the cylinder except for mounted cushion.
- 3) We can offer different kinds of mounting style according to standard, like Foot mounting, Front flange mounting, Rear-flange mounting, and so on.
- 4) Different thread type can be offered according to customers' requirements, e.g.:BSP, NPT etc.
- 5) Needn't lubricate on piston rod by oil

3.Internal Structure:



No.:	Designation	No.:	Designation
1.	Piston rod nut	10.	Wear ring
2.	Piston rod	11.	Barrel
3.	Front cover seal ring	12.	buffering o-ring
4.	Bearing	13.	adjustable screw
5.	Front cover	14.	Back cover
6.	Buffering sealing	15.	Hex socket screw
7.	Pipe wall O-ring	16.	Tie rod nut
8.	Piston sealing	17.	Tie rod o-ring
9.	Piston	18.	Piston rod o-ring

4.Specification:

Bore (mm)	32	40	50	63	80	100	125	160	200
Action	Double Action								
Applicable medium	Filered Air								
Pressure range	0.1~0.9 MPa								
Proof pressure	1.35 MPa								
Temperature range	-5°C~70°C								
Speed range	300~800 mm/s								
Cushion style	Adjustable Air Buffer								
Cushion stroke	24 mm				32 mm				
Port size	G1/8	G1/4		G3/8		G1/2		G3/4	

5. Cylinder Theory output:

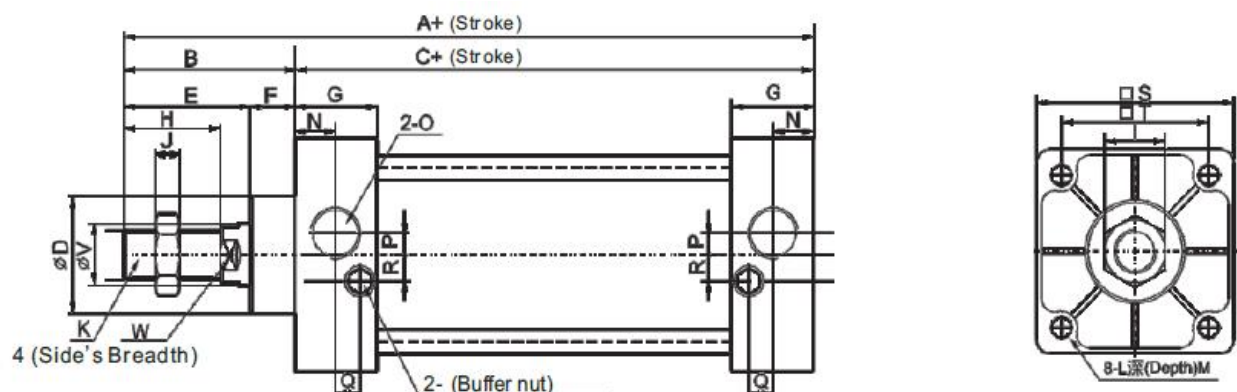
Cylinder inside Diameter	Extern Diameter of Piston Rod	Potion Pattern		Compression Area(cm ²)	Air Pressure(kgf/cm ²)								
					1	2	3	4	5	6	7	8	9
32	12	Double Action	Press Side	8.04	8.04	16.08	24.12	32.16	40.20	48.24	56.28	64.32	72.36
			Pull Side	6.90	6.90	13.80	20.07	27.60	34.50	41.40	48.30	55.20	62.10
40	16	Double Action	Press Side	12.56	12.56	25.12	37.68	50.24	62.80	75.36	87.92	100.24	113.04
			Pull Side	10.55	10.55	21.10	31.65	42.20	52.75	63.30	73.85	84.40	94.95
50	20	Double Action	Press Side	19.63	19.63	39.26	58.89	78.52	98.15	117.78	137.41	157.04	176.67
			Pull Side	16.49	16.49	32.98	49.47	65.96	82.45	98.94	115.43	139.92	148.41
63	20	Double Action	Press Side	31.17	31.17	62.34	93.51	124.68	155.85	187.02	218.19	249.36	280.53
			Pull Side	28.03	28.03	56.06	84.09	112.12	140.15	168.18	196.21	224.24	252.27
80	25	Double Action	Press Side	50.26	50.26	100.52	150.78	201.04	251.30	301.56	351.82	402.08	452.34
			Pull Side	45.36	45.36	90.72	136.08	181.44	226.80	272.16	317.52	326.88	408.24
100	25	Double Action	Press Side	78.53	78.53	157.06	235.59	314.12	392.65	471.18	428.82	628.24	706.77
			Pull Side	71.47	71.47	142.94	214.41	285.88	357.35	428.82	500.29	517.76	643.23
125	32	Double Action	Press Side	122.72	122.72	245.44	368.16	490.88	613.60	736.32	859.04	981.76	1104.48
			Pull Side	114.68	114.68	229.36	344.04	458.72	573.40	688.08	802.76	917.44	1032.12
160	40	Double Action	Press Side	201.06	201.06	402.12	603.18	804.24	1005.30	1206.36	1407.42	1608.48	1809.54
			Pull Side	188.49	188.49	376.98	565.47	753.96	942.45	1130.94	1319.43	1507.92	1696.41
200	40	Double Action	Press Side	314.16	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.28	2827.44
			Pull Side	301.57	301.57	603.14	904.71	1206.28	1507.80	1809.42	2100.99	2412.56	2714.13

6. Stroke:

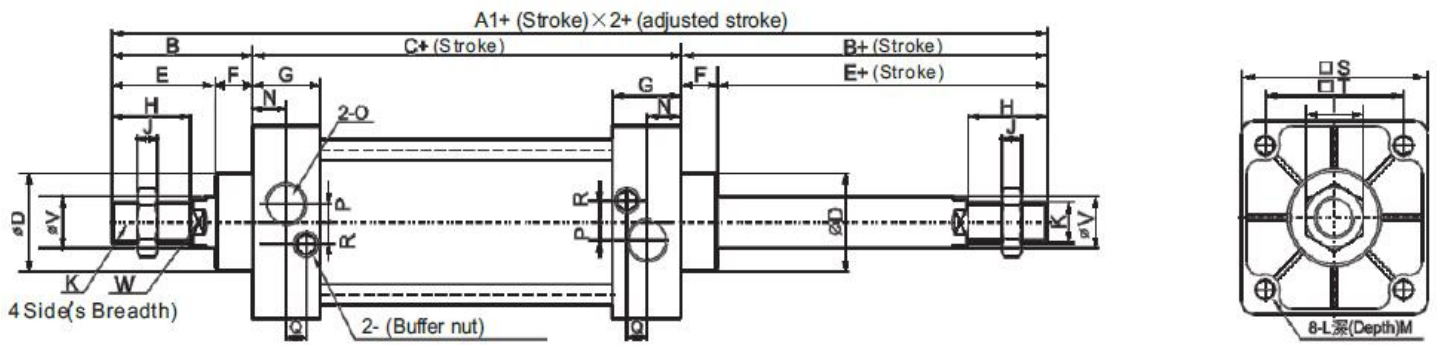
Bore(mm)	Standard Stroke	Max. Stroke	Permissible Stroke
32	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500	1000	2000
40	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800	1200	2000
50	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1200	2000
63	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
80	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
100	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
125	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
160	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000
200	25 50 75 80 100 125 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	2000

7. Overall and Dimension Sheet:

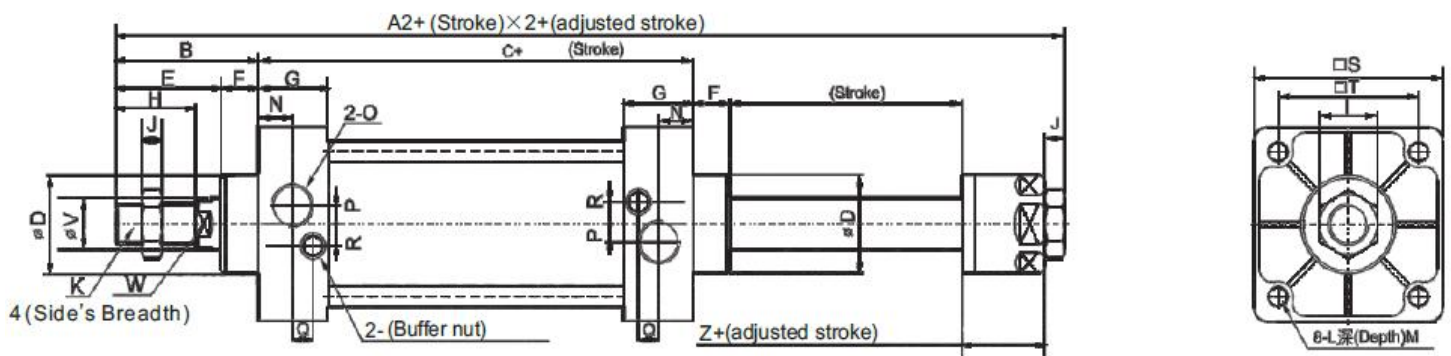
SU series (Φ32~Φ200):



SUD series (Φ32~Φ200):



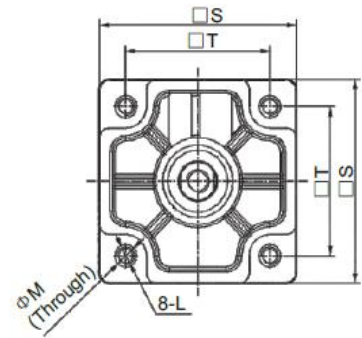
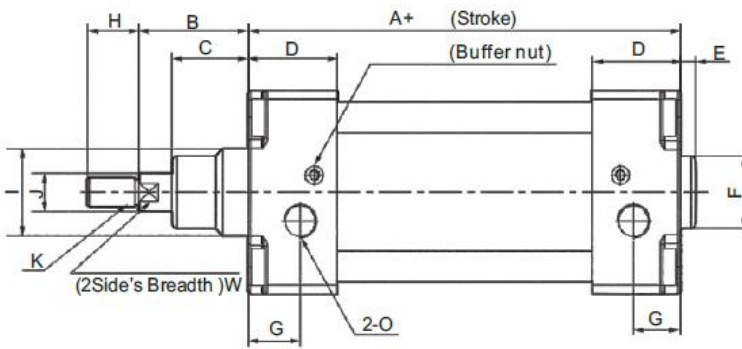
SUJ series (Φ32~Φ200):



Bore/Symbol	A	A1	A2	B	C	D	E	F	G	H	I	J	K
32	140	187	182	47	93	26	32	15	27.5	22	17	6	M10×1.25
40	142	191	185	49	93	30	34	15	27.5	24	19	7	M12×1.25
50	150	207	196	57	93	36	42	15	27.5	32	24	8	M16×1.5
63	153	210	199	57	96	36	42	15	27.5	32	24	8	M16×1.5
80	182	257	242	75	108	47	54	21	33	40	30	9	M20×1.5
100	188	263	248	75	108	47	54	21	33	40	30	9	M20×1.5
125	239	330	363	104	136	56	71	32	40	54	40	12	M27×2
160	291	412	450	121	166	62	92	60	50	72	50	14	M36×2
200	272	409	451	132	130	75	117	30	41	72	50	16	M36×2

Bore/Symbol	L	M	N	O	P	Q	R	S	T	V	W	Z
32	M6×1	9.5	13.7	G1/8"	3.5	7.5	7	45	33	12	10	21
40	M6×1	9.5	13.5	G1/4"	6	8.2	9	50	37	16	14	21
50	M6×1	9.5	13.5	G1/4"	8.5	8.2	9	62	47	20	17	23
63	M8×1.25	9.5	13.5	G3/8"	7	8.2	8.5	75	56	20	17	23
80	M10×1.5	11.5	16.5	G3/8"	10	9.5	14	94	70	25	22	29
100	M10×1.5	11.5	16.5	G1/2"	11	9.5	14	112	84	25	22	29
125	M12×1.75	21	16.5	G1/2"	/	/	/	140	110	32	28	33
160	M16×2	25	26	G3/4"	/	/	/	180	140	40	36	38
200	M16×2	25	22.5	G3/4"	/	/	/	220	175	40	36	42

SU Series ($\Phi 250 \sim \Phi 320$):



Bore/Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	S	T	O
250	200	105	67	52	10	90	31	84	90	50	M42×2	M20	Φ 30	270	220	G1
320	218	120	82	52	10	110	31	96	110	63	M48×2	M24	Φ 34	340	270	G1