

SI Series ISO6431 Standard Cylinder

Specification

Bore (mm)	32	40	50	63	80	100	125	160	200
Motion Pattern	Double Action								
Medium	Air								
Pressure Range	1.0~9.0 Kgf/cm ²								
Proof Pressure	13.5 Kgf/cm ²								
Temperature Range	-5~70°C								
Speed Range	50~800 mm/s								
Buffer Type	Adjustable Buffer								
Buffer Stroke	24				32				
Joint Pipe Bore	PT1/8"	PT1/4"	PT3/8"	PT1/2"	PT3/4"	PT1/2"	PT3/4"	PT1/2"	PT1/2"

Stroke

Bore (mm)	Standard Stroke	Max. Stroke	Permissible Stroke
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1000	2000
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	1000	2000
50	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 1000	1200	2000
63	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 1000	1500	2000
80	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 1000	1500	2000
100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 1000	1500	2000
125	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 1000	1500	2000
160	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 1000	1500	2000
200	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 1000	1500	2000

Ordering Code

SI	—	50	×	50	—	25	—	S	—	LB
Type		Cylinder Bore		Stroke		Adjustable Stroke		Magnet Code		Fixed Type
SC: Standard Acting						25=25mm		S: With magnet		Blank: Basic type
SCD: Double-shaft Double Action						50=50mm		Blank: Without		LB: Front and back fixed type
SCJ: Double Axis Double Acting Adjustable Type						75=75mm		magnet		FA: Front flange type
SU: Standard Double Acting										FB: Rear flange type
										CA: Single earring
										CB: Double earring
										TC: Swinging type
										TC-M: Swinging type attaching foot seat
										*TC&TC-M Applicable ϕ 32~ϕ 100

Cylinder Theory Output Sheet

Dia	32		40		50		63		80		100		
External dia. of piston rod	12		16		20		20		25		25		
Motion pattern	Double action		Double action		Double action		Double action		Double action		Double action		
	Pressure side	Pull side	Pressure side	Pull side	Pressure side	Pull side	Pressure side	Pull side	Pressure side	Pull side	Pressure side	Pull side	
Compression area(c m ²)	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	71.47	
Air pressure (Kgf/cm ²)	1	8.04	6.90	12.56	10.55	19.63	16.49	31.17	28.03	50.26	45.36	78.53	71.47
	2	16.08	13.80	25.12	21.10	39.26	32.98	62.34	56.06	100.52	90.72	157.06	142.94
	3	24.12	20.70	37.68	31.65	58.89	49.47	93.51	84.09	150.78	136.08	235.59	214.41
	4	32.16	27.60	50.24	42.40	78.52	65.96	124.68	112.12	201.04	181.44	314.12	285.88
	5	40.20	34.50	62.80	52.75	98.15	82.45	155.85	140.15	251.30	226.80	392.65	357.35
	6	48.24	41.40	75.36	63.30	117.78	98.94	187.02	168.18	301.56	272.16	471.18	428.82
	7	56.28	48.30	87.92	73.85	137.41	115.43	218.19	196.21	351.82	317.52	428.82	500.29
	8	64.32	55.20	100.24	84.40	157.04	139.92	249.36	224.24	402.08	362.88	628.24	571.76
	9	72.36	62.10	113.04	94.95	176.67	148.41	280.53	252.27	452.34	408.24	706.77	643.23

125		160		200	
32		40		40	
Double action		Double action		Double action	
Pressure side	Pull side	Pressure side	Pull side	Pressure side	Pull side
122.72	114.68	201.06	188.49	314.16	301.57
122.72	114.68	201.06	188.49	314.16	301.57
254.44	229.36	402.12	376.98	628.32	603.14
368.16	344.04	603.18	565.47	942.48	904.71
490.88	458.72	804.24	753.96	1256.64	1206.28
613.60	573.40	1005.30	942.45	1570.80	1507.85
736.32	688.08	1206.36	1130.94	1884.96	1809.42
859.04	802.76	1407.42	1319.43	2199.12	2110.99
981.76	914.44	1608.48	1507.92	2513.28	2412.56
1104.48	1032.12	1809.54	1696.41	2827.44	2714.13