

Rectangular Spring ▶ Light Load Spring (Blue)



Please order according to the diagram

①~④ Select the type and parameters in the order of for ordering.

Model (●Code) — ●D — ●L — ●d
BUBL — D8 — L10 — d4

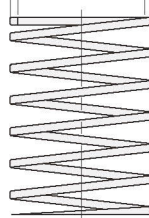


Discounted Price
Quantity 1-9 10-
Price 100% Separate Quotation
Price Excluding Tax (¥)

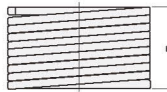
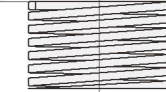


CAD 2D 3D

D 8.7
d 3.1



L



① Load (+10%)

② Straightness Angle (below 2°)

③ Load (N) = Spring Constant (N/mm) x Compression

④ Heat Resistance Temperature: 150°C

⑤ 1kgf=9.81 N

⑥ Compressed Length is for reference, slight variations may occur during manufacturing.

⑦ Spring color and number of coils may vary between production batches, but product performance meets standards and does not affect use!

Code	Type	Material		Maximum Compression
		International	Equivalent	
BUBL	Light Load Type	Economy type	60Si2CrA SWOSC-V	L×40%

■ L Dimension Tolerance

L	Tolerance
50 or higher	±0.5
50 Below	±1.0%

Model		Inner Diameter	Spring Constant	a	Usage Method					
Code	D	L	d	N/mm	300,000 times F=Lx40%	500,000 times F=Lx36%	1,000,000 times F=Lx32%	300,000 times F=Lx40%	500,000 times F=Lx36%	1,000,000 times F=Lx32%
BUBL	6	3	3	13.10	8.6	6.0	5.4	4.8		
				9.80	11.5	8.0	7.2	6.4		
				7.80	14.4	10.0	9.0	8.0		
				6.50	17.2	12.0	10.8	9.6		
				5.60	20.1	14.0	12.6	11.2		
				4.90	23.0	16.0	14.4	12.8		
				3.90	19.1	20.0	18.0	16.0		
				24.53	5.4	4.0	3.6	3.2		
				16.35	8.1	6.0	5.4	4.8		
				12.26	10.8	8.0	7.2	6.4		
	8	4	4	9.81	13.5	10.0	9.0	8.0		
				8.18	16.2	12.0	10.8	9.6		
				7.01	18.9	14.0	12.6	11.2		
				6.13	21.6	16.0	14.4	12.8		
				5.45	24.3	18.0	16.2	14.4		
				4.91	27.0	20.0	18.0	16.0		
				4.46	29.7	22.0	19.8	17.6		
				4.09	32.4	24.0	21.6	19.2		
				3.77	37.5	26.0	23.4	20.8		
				3.50	40.2	28.0	25.2	22.4		
BUBL	10	5	5	3.30	43.2	30.0	27.0	24.0		
				3.07	45.9	32.0	28.8	25.6		
				2.72	35.1	36.0	32.4	28.8		
				2.45	39.5	40.0	36.0	32.0		
				34.30	5.4	4.0	3.6	3.2		
				22.90	8.1	6.0	5.4	4.8		
				17.71	10.8	8.0	7.2	6.4		
				14.17	13.5	10.0	9.0	8.0		
				11.81	16.2	12.0	10.8	9.6		
				10.12	18.9	14.0	12.6	11.2		
	12	6	6	8.85	21.6	16.0	14.4	12.8		
				7.87	24.3	18.0	16.2	14.4		
				7.08	27.0	20.0	18.0	16.0		
				6.44	29.7	22.0	19.8	17.6		
				5.90	32.4	24.0	21.6	19.2		
				5.45	35.1	26.0	23.4	20.8		
				5.06	37.8	28.0	25.2	22.4		
				4.72	40.5	30.0	27.0	24.0		
				4.42	43.2	32.0	28.8	25.6		
				3.94	48.6	36.0	32.4	28.8		
BUBL	14	7	7	3.42	38.5	40.0	36.0	32.0		
				34.30	8.1	6.0	5.4	4.8		
				25.88	10.8	8.0	7.2	6.4		
				20.70	13.5	10.0	9.0	8.0		
				17.25	16.2	12.0	10.8	9.6		
				14.79	18.9	14.0	12.6	11.2		
				12.94	21.6	16.0	14.4	12.8		
				11.50	24.3	18.0	16.2	14.4		
				10.35	27.0	20.0	18.0	16.0		
				9.41	29.7	22.0	19.8	17.6		
	16	8	8	8.63	32.4	24.0	21.6	19.2		
				7.96	35.1	26.0	23.4	20.8		
				7.39	37.8	28.0	25.2	22.4		
				6.90	40.5	30.0	27.0	24.0		
				6.47	43.2	32.0	28.8	25.6		
				5.75	48.6	36.0	32.4	28.8		
				5.15	38.5	40.0	36.0	32.0		
				34.30	10.8	8.0	7.2	6.4		
				27.22	13.5	10.0	9.0	8.0		
				22.69	16.2	12.0	10.8	9.6		

Model			Inner Diameter	Spring Constant	a	Usage Method					
Code	D	L	d	N/mm	Compressed Length	300,000 times F=Lx40% Fmm	500,000 times F=Lx36% Load N	1,000,000 times F=Lx32% Fmm	300,000 times F=Lx40% Load N	500,000 times F=Lx36% Fmm	1,000,000 times F=Lx32% Load N
14	7	60	7	11.34	32.4	24.0	275	245	216	21.6	19.2
		65		10.47	35.1	26.0				23.4	20.8
		70		9.72	37.8	28.0				25.2	22.4
		75		9.07	40.5	30.0				27.0	24.0
		80		8.51	43.2	32.0				28.8	25.6
		90		7.56	48.6	36.0				32.4	28.8
		100		6.81	54.0	40.0				36.0	32.4
		125*		5.50	48.5	50.0				45.0	40.0
		20*		42.90	10.8	8.0				7.2	6.4
		25		34.89	13.5	10.0				9.0	8.0
16	8	30	8	29.07	16.2	12.0	343	314	275	10.8	9.6
		35		24.92	18.9	14.0				12.6	11.2
		40		21.81	21.6	16.0				14.4	12.8
		45		19.38	24.3	18.0				16.2	14.4
		50		17.44	27.0	20.0				18.0	16.0
		55		15.86	29.7	22.0				19.8	17.6
		60		14.54	32.4	24.0				21.6	19.2
		65		13.42	35.1	26.0				23.4	20.8
		70		12.46	37.8	28.0				25.2	22.4
		75		11.63	40.5	30.0				27.0	24.0
BUBL	18	80	9	10.90	43.2	32.0	422	382	333	28.8	25.6
		90		9.69	48.6	36.0				32.4	28.8
		100		8.72	54.0	40.0				36.0	32.4
		125		6.98	67.5	50.0				45.0	40.0
		20*		52.70	10.8	8.0				7.2	6.4
		25		42.44	13.5	10.0				9.0	8.0
		30		35.37	16.2	12.0				10.8	9.6
		35		30.32	18.9	14.0				12.6	11.2
		40		26.53	21.6	16.0				14.4	12.8
		45		23.58	24.3	18.0				16.2	14.4
20	10	50	10	21.22	27.0	20.0	530	481	422	18.0	16.0
		55		19.29	29.7	22.0				19.8	17.6
		60		17.69	32.4	24.0				21.6	19.2
		65		16.32	35.1	26.0				23.4	20.8
		70		15.16	37.8	28.0				25.2	22.4
		75		14.15	40.5	30.0				27.0	24.0
		80		13.26	43.2	32.0				28.8	25.6
		90		11.79	48.6	36.0				32.4	28.8
		100		10.61	54.0	40.0				36.0	32.4
		125		8.49	67.5	50.0				45.0	40.0
20	10	20*	10	66.20	10.8	8.0	7.2	6.4			
		25		53.44	13.5	10.0	9.0	8.0			
		30		44.54	16.2	12.0	10.8	9.6			
		35		38.17	18.9	14.0	12.6	11.2			
		40		33.40	21.6	16.0	14.4	12.8			
		45		29.69	24.3	18.0	16.2	14.4			
		50		26.72	27.0	20.0	18.0	16.0			
		55		24.29	29.7	22.0	19.8	17.6			
		60		22.27	32.4	24.0	21.6	19.2			
		65		50.56	35.1	26.0	23.4	20.8			
20	10	70	10	19.09	37.8	28.0	530	481	422	25.2	22.4
		75		17.81	40.5	30.0				27.0	24.0
		80		16.70	43.2	32.0				28.8	25.6
		90		14.85	48.6	36.0				32.4	28.8
		100		13.36	54.0	40.0				36.0	32.4
		125		10.69	67.5	50.0				45.0	40.0
		150		8.91	81.0	60.0				54.0	48.0

Rectangular Spring ▶ Light Load Spring (Blue)

Model		Inner Diameter	Spring Constant	a	Usage Method					
Code	D	L	d	N/mm	300,000 times F=Lx40% Load N	F/mm	500,000 times F=Lx38% Load N	F/mm	1,000,000 times F=Lx35% Load N	
22	60	11	20*	82.13	7.5	8.0		7.2	6.4	
			25	65.33	13.5	10.0		9.0	8.0	
			30	54.44	16.2	12.0		10.8	9.6	
			35	46.67	18.9	14.0		12.6	11.2	
			40	40.83	21.6	16.0		14.4	12.8	
			45	36.30	24.3	18.0		16.2	14.4	
			50	32.67	27.0	20.0		18.0	16.0	
			55	29.70	29.7	22.0		19.8	17.6	
			60	27.22	32.4	24.0	657	21.6	19.2	530
			65	25.13	35.1	26.0		23.4	20.8	
			70	23.33	37.8	28.0		25.2	22.4	
			75	21.78	40.5	30.0		27.0	24.0	
			80	20.42	43.2	32.0		28.8	25.6	
			90	18.15	48.6	36.0		32.4	28.8	
			100	16.33	54.0	40.0		36.0	32.4	
25	65	12.5	20*	103	7.5	8.0		7.2	6.4	
			25	82.78	13.5	10.0		9.0	8.0	
			30	68.98	16.2	12.0		10.8	9.6	
			35	59.13	18.9	14.0		12.6	11.2	
			40	51.74	21.6	16.0		14.4	12.8	
			45	45.99	24.3	18.0		16.2	14.4	
			50	41.39	27.0	20.0		18.0	16.0	
			55	37.63	29.7	22.0		19.8	17.6	
			60	34.49	32.4	24.0	824	23.4	20.8	657
			65	31.84	35.1	26.0		25.2	22.4	
			70	29.56	37.8	28.0		27.0	24.0	
			75	27.59	40.5	30.0		28.8	25.6	
			80	25.87	43.2	32.0		32.4	28.8	
			90	22.99	48.6	36.0		36.0	32.4	
			27	70	13.5	20*	103	7.5	8.0	
25	82.78	13.5				10.0		9.0	8.0	
30	68.98	16.2				12.0		10.8	9.6	
35	59.13	18.9				14.0		12.6	11.2	
40	51.74	21.6				16.0		14.4	12.8	
45	45.99	24.3				18.0		16.2	14.4	
50	41.39	27.0				20.0		18.0	16.0	
55	37.63	29.7				22.0		19.8	17.6	
60	34.49	32.4				24.0	981	23.4	20.8	785
65	31.84	35.1				26.0		25.2	22.4	
70	29.56	37.8				28.0		27.0	24.0	
75	27.59	40.5				30.0		28.8	25.6	
80	25.87	43.2				32.0		32.4	28.8	
90	22.99	48.6				36.0		36.0	32.4	
30	80	15				20*	103	7.5	8.0	
			25	82.78	13.5	10.0		9.0	8.0	
			30	68.98	16.2	12.0		10.8	9.6	
			35	59.13	18.9	14.0		12.6	11.2	
			40	51.74	21.6	16.0		14.4	12.8	
			45	45.99	24.3	18.0		16.2	14.4	
			50	41.39	27.0	20.0		18.0	16.0	
			55	37.63	29.7	22.0		19.8	17.6	
			60	34.49	32.4	24.0	1187	21.6	19.2	951
			65	31.84	35.1	26.0		23.4	20.8	
			70	29.56	37.8	28.0		25.2	22.4	
			75	27.59	40.5	30.0		27.0	24.0	
			80	25.87	43.2	32.0		28.8	25.6	
			90	22.99	48.6	36.0		32.4	28.8	
			35	90	17.5	20*	103	7.5	8.0	
25	82.78	13.5				10.0		9.0	8.0	
30	68.98	16.2				12.0		10.8	9.6	
35	59.13	18.9				14.0		12.6	11.2	
40	51.74	21.6				16.0		14.4	12.8	
45	45.99	24.3				18.0		16.2	14.4	
50	41.39	27.0				20.0		18.0	16.0	
55	37.63	29.7				22.0		19.8	17.6	
60	34.49	32.4				24.0	1627	23.4	20.8	1295
65	31.84	35.1				26.0		25.2	22.4	
70	29.56	37.8				28.0		27.0	24.0	
75	27.59	40.5				30.0		28.8	25.6	
80	25.87	43.2				32.0		32.4	28.8	
90	22.99	48.6				36.0		36.0	32.4	
40	100	20				20*	103	7.5	8.0	
			25	82.78	13.5	10.0		9.0	8.0	
			30	68.98	16.2	12.0		10.8	9.6	
			35	59.13	18.9	14.0		12.6	11.2	
			40	51.74	21.6	16.0		14.4	12.8	
			45	45.99	24.3	18.0		16.2	14.4	
			50	41.39	27.0	20.0		18.0	16.0	
			55	37.63	29.7	22.0		19.8	17.6	
			60	34.49	32.4	24.0	2120	23.4	20.8	1697
			65	31.84	35.1	26.0		25.2	22.4	
			70	29.56	37.8	28.0		27.0	24.0	
			75	27.59	40.5	30.0		28.8	25.6	
			80	25.87	43.2	32.0		32.4	28.8	
			90	22.99	48.6	36.0		36.0	32.4	
			45	110	25	20*	103	7.5	8.0	
25	82.78	13.5				10.0		9.0	8.0	
30	68.98	16.2				12.0		10.8	9.6	
35	59.13	18.9				14.0		12.6	11.2	
40	51.74	21.6				16.0		14.4	12.8	
45	45.99	24.3				18.0		16.2	14.4	
50	41.39	27.0				20.0		18.0	16.0	
55	37.63	29.7				22.0		19.8	17.6	
60	34.49	32.4				24.0	3310	23.4	20.8	2650
65	31.84	35.1				26.0		25.2	22.4	
70	29.56	37.8				28.0		27.0	24.0	
75	27.59	40.5				30.0		28.8	25.6	
80	25.87	43.2				32.0		32.4	28.8	
90	22.99	48.6				36.0		36.0	32.4	
50	120	30				20*	103	7.5	8.0	
			25	82.78	13.5	10.0		9.0	8.0	
			30	68.98	16.2	12.0		10.8	9.6	
			35	59.13	18.9	14.0		12.6	11.2	
			40	51.74	21.6	16.0		14.4	12.8	
			45	45.99	24.3	18.0		16.2	14.4	
			50	41.39	27.0	20.0		18.0	16.0	
			55	37.63	29.7	22.0		19.8	17.6	
			60	34.49	32.4	24.0	4770	23.4	20.8	3810
			65	31.84	35.1	26.0		25.2	22.4	
			70	29.56	37.8	28.0		27.0	24.0	
			75	27.59	40.5	30.0		28.8	25.6	
			80	25.87	43.2	32.0		32.4	28.8	
			90	22.99	48.6	36.0		36.0	32.4	
			60	140	35	20*	103	7.5	8.0	
25	82.78	13.5				10.0		9.0	8.0	
30	68.98	16.2				12.0		10.8	9.6	
35	59.13	18.9				14.0		12.6	11.2	
40	51.74	21.6				16.0		14.4	12.8	
45	45.99	24.3				18.0		16.2	14.4	
50	41.39	27.0				20.0		18.0	16.0	
55	37.63	29.7				22.0		19.8	17.6	
60	34.49	32.4				24.0	6100	23.4	20.8	4880
65	31.84	35.1				26.0		25.2	22.4	
70	29.56	37.8				28.0		27.0	24.0	
75	27.59	40.5				30.0		28.8	25.6	
80	25.87	43.2				32.0		32.4	28.8	
90	22.99	48.6				36.0		36.0	32.4	
70	160	40				20*	103	7.5	8.0	
			25	82.78	13.5	10.0		9.0	8.0	
			30	68.98	16.2	12.0		10.8	9.6	
			35	59.13	18.9	14.0		12.6	11.2	
			40	51.74	21.6	16.0		14.4	12.8	
			45	45.99	24.3	18.0		16.2	14.4	
			50	41.39	27.0	20.0		18.0	16.0	
			55	37.63	29.7	22.0		19.8	17.6	
			60	34.49	32.4	24.0	762	23.4	20.8	677
			65	31.84	35.1	26.0		25.2	22.4	
			70	29.56	37.8	28.0		27.0	24.0	
			75	27.59	40.5	30.0		28.8	25.6	
			80	25.87	43.2	32.0		32.4	28.8	
			90	22.99	48.6	36.0		36.0	32.4	
			80	180	45	20*	103	7.5	8.0	
25	82.78	13.5				10.0		9.0	8.0	
30	68.98	16.2				12.0		10.8	9.6	
35	59.13	18.9				14.0		12.6	11.2	
40	51.74	21.6				16.0		14.4	12.8	
45	45.99	24.3				18.0		16.2	14.4	
50	41.39	27.0				20.0		18.0	16.0	
55	37.63	29.7				22.0		19.8	17.6	
60	34.49	32.4				24.0	847	23.4	20.8	677
65	31.84	35.1				26.0		25.2	22.4	
70	29.56	37.8				28.0		27.0	24.0	
75	27.59	40.5				30.0		28.8	25.6	
80	25.87	43.2				32.0		32.4	28.8	
90	22.99	48.6				36.0		36.0	32.4	
90	200	50				20*	103	7.5	8.0	
			25	82.78	13.5	10.0		9.0	8.0	
			30	68.98	16.2	12.0		10.8	9.6	
			35	59.13	18.9	14.0		12.6	11.2	
			40	51.74	21.6	16.0		14.4	12.8	
			45	45.99	24.3	18.0		16.2	14.4	
			50	41.39	27.0	20.0		18.0	16.0	
			55	37.63	29.7	22.0		19.8	17.6	
			60	34.49	32.4	24.0	1000	23.4	20.8	800
			65	31.84	35.1	26.0		25.2	22.4	
			70	29.56	37.8	28.0		27.0	24.0	
			75	27.59	40.5	30.0		28.8	25.6	
			80	25.87	43.2	32.0		32.4	28.8	
			90	22.99	48.6	36.0		36.0	32.4	
			100	220	55	20*	103	7.5	8.0	
25	82.78	13.5				10.0		9.0	8.0	
30	68.98	16.2				12.0		10.8	9.6	
35	59.13	18.9				14.0		12.6	11.2	
40	51.74	21.6				16.0		14.4	12.8	
45	45.99	24.3				18.0		16.2	14.4	
50	41.39	27.0				20.0		18.0	16.0	
55	37.63	29.7				22.0		19.8	17.6	
60	34.49	32.4				24.0	1187	23.4	20.8	951
65	31.84	35.1				26.0		25.2	22.4	
70	29.56	37.8				28.0		27.0	24.0	
75	27.59	40.5				30.0		28.8	25.6	
80	25.87	43.2				32.0		32.4	28.8	
90	22.99	48.6				36.0		36.0	32.4	
110	240	60				20*	103	7.5	8.0	
			25	82.78	13.5	10.0		9.0	8.0	
			30	68.98	16.2	12.0		10.8	9.6	
			35	59.13	18.9	14.0		12.6	11.2	
			40	51.74	21.6	16.0		14.4	12.8	
			45	45.99	24.3	18.0		16.2	14.4	
			50	41.39	27.0	20.0		18.0	16.0	
			55	37.63	29.7	22.0		19.8	17.6	
			60	34.49	32.4	24.0	1461	23.4		