

Rectangular Spring ▶ Medium Load Spring (Red)



Please order according to the diagram

①-③ Select the type and parameters in the order of for ordering.

Model (●Code)

BUBM

—

D

D8

—

L

L10



Discounted Price

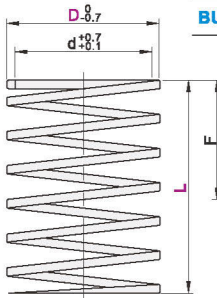
Quantity 1~9 10~

Price 100% Separate Quotation

Price Excluding Tax (¥/mm)



CAD 2D 3D



Code	Type	Material		Maximum Compression
		International	Equivalent	

BUBM	Medium Load Type	Economy type	60Si2CrA	SWOSC-V	L×32%
------	------------------	--------------	----------	---------	-------

■ L Dimension Tolerance

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

- ① Load (+10%)
- ① Straightness Angle (below 2°)
- ① Load (N) = Spring Constant (N/mm) × Compression
- ① Heat Resistance Temperature: 150°C
- ① 1kgf=9.81 N
- ① Compressed Length is for reference, slight variations may occur during manufacturing.
- ① Spring color and number of coils may vary between production batches, but product performance meets standards and does not affect use!

Model		Inner Diameter	Spring Constant	a	Usage Method					
Code	D	L	d	N/mm	Compressed Length	300,000 times F=L×28.8%	500,000 times F=L×28.8%	1,000,000 times F=L×28.8%	Load N	Load N
BUBM	6	15*	20.3	9.9	4.7	4.2	3.7	3.7		
		20*	15.4	13.2	6.5	5.7	5.0	5.0		
		25*	12.2	16.5	8	7.1	6.3	6.3		
		30*	10.1	19.5	9.5	8.5	7.8	7.8		
		35*	8.9	22.8	11.3	10.2	9.1	9.1		
		40*	7.6	26.1	12.8	11.6	10.3	10.3		
		45*	6.7	29.5	14.5	13	11.6	11.6		
		50*	6.2	32.6	16	14.5	12.9	12.9		
		55*	5.7	36.1	17.5	15.8	14.1	14.1		
		60*	5.2	39.2	19.3	17.4	15.5	15.5		
	8	10	42.57	6.3	3.2	2.9	2.6	2.6		
		15	28.38	9.4	4.8	4.3	3.8	3.8		
		20	21.28	12.5	6.4	5.8	5.1	5.1		
		25	17.03	15.7	8.0	7.2	6.4	6.4		
		30	14.19	18.8	9.6	8.6	7.7	7.7		
		35	12.16	21.9	11.2	10.1	9.0	9.0		
		40	10.64	25.0	12.8	11.5	10.2	10.2		
		45	9.46	28.2	14.4	13.0	11.5	11.5		
		50	8.51	31.3	16.0	14.4	12.8	12.8		
		55	7.74	34.4	17.6	15.8	14.1	14.1		
BUBM	10	60	7.09	37.6	19.2	17.3	15.4	15.4		
		65	6.55	42.5	20.8	18.7	16.6	16.6		
		70	6.08	45.8	22.4	20.2	17.9	17.9		
		75	5.68	49.1	24.0	21.6	19.2	19.2		
		80	5.5	52.2	25.7	23.1	20.4	20.4		
		90*	4.7	27.5	28.8	25.92	23.04	23.04		
		100*	4.3	31.0	32.0	28.8	25.6	25.6		
	12	10*	61.20	6.5	3.2	2.9	2.6	2.6		
		15*	40.80	9.8	4.7	4.3	3.7	3.7		
		20	30.64	12.5	6.4	5.8	5.1	5.1		
		25	24.51	15.7	8.0	7.2	6.4	6.4		
		30	20.43	18.8	9.6	8.6	7.7	7.7		
		35	17.51	21.9	11.2	10.1	9.0	9.0		
		40	15.32	25.0	12.8	11.5	10.2	10.2		
		45	13.62	28.2	14.4	13.0	11.5	11.5		
		50	12.26	31.3	16.0	14.4	12.8	12.8		
		55	11.14	34.4	17.6	15.8	14.1	14.1		
BUBM	14	60	10.21	37.6	19.2	17.3	15.4	15.4		
		65	9.43	40.7	20.8	18.7	16.6	16.6		
		70	8.75	43.8	22.4	20.2	17.9	17.9		
		75	8.17	47.0	24.0	21.6	19.2	19.2		
		80	7.66	50.1	25.6	23.0	20.5	20.5		
		90	6.81	56.3	28.8	25.9	23.0	23.0		
		100*	6.10	31.2	32.0	28.8	25.6	25.6		
	16	15*	59.10	9.7	4.8	4.3	3.7	3.7		
		20	44.27	12.5	6.4	5.8	5.1	5.1		
		25	35.42	15.7	8.0	7.2	6.4	6.4		
		30	29.51	18.8	9.6	8.6	7.7	7.7		
		35	25.30	21.9	11.2	10.1	9.0	9.0		
		40	22.14	25.0	12.8	11.5	10.2	10.2		
		45	19.68	28.2	14.4	13.0	11.5	11.5		
		50	17.71	31.3	16.0	14.4	12.8	12.8		
		55	16.10	34.4	17.6	15.8	14.1	14.1		
		60	14.76	37.6	19.2	17.3	15.4	15.4		
BUBM	18	65	13.62	40.7	20.8	18.7	16.6	16.6		
		70	13.65	43.8	22.4	20.2	17.9	17.9		
		75	11.81	47.0	24.0	21.6	19.2	19.2		
		80	11.07	50.1	25.6	23.0	20.5	20.5		
		90	9.84	56.3	28.8	25.9	23.0	23.0		
		100*	8.90	31.5	32.0	28.8	25.6	25.6		
	20	20*	59.70	13.2	6.3	5.8	5.1	5.1		
		25	47.64	15.7	8.0	7.2	6.4	6.4		
		30	39.70	18.8	9.6	8.6	7.7	7.7		
		35	34.03	21.9	11.2	10.1	9.0	9.0		
		40	29.77	25.0	12.8	11.5	10.2	10.2		
	22	20*	148.60	5.9	6.4	5.76	5.12	5.12		
		25	118.47	15.7	8.0	7.2	6.4	6.4		
		30	98.73	18.8	9.6	8.6	7.7	7.7		
		35	84.62	21.9	11.2	10.1	9.0	9.0		
		40	74.05	25.0	12.8	11.5	10.2	10.2		

Model		Inner Diameter	Spring Constant	a	Usage Method					
Code	D	L	d	N/mm	Compressed Length	300,000 times F=L×28.8%	500,000 times F=L×28.8%	1,000,000 times F=L×28.8%	Load N	Load N
BUBM	14	45	26.47	28.2	14.4	13.0	11.5	11.5		
		50	23.82	31.3	16.0	14.4	12.8	12.8		
		55	21.65	34.4	17.6	15.8	14.1	14.1		
		60	19.85	37.6	19.2	17.3	15.4	15.4		
		65	18.32	40.7	20.8	18.7	16.6	16.6		
		70	17.01	43.8	22.4	20.2	17.9	17.9		
		75	15.88	47.0	24.0	21.6	19.2	19.2		
		80	14.89	50.1	25.6	23.0	20.5	20.5		
		90	13.23	56.3	28.8	25.9	23.0	23.0		
		100	11.91	62.6	32.0	28.8	25.6	25.6		
	16	125*	9.60	39.4	40.0	36.0	32.0	32.0		
		20*	78.20	13.1	6.4	5.8	5.2	5.2		
		25	62.64	15.7	8.0	7.2	6.4	6.4		
		30	52.20	18.8	9.6	8.6	7.7	7.7		
		35	44.74	21.9	11.2	10.1	9.0	9.0		
		40	39.15	25.0	12.8	11.5	10.2	10.2		
		45	34.80	28.2	14.4	13.0	11.5	11.5		
		50	31.32	31.3	16.0	14.4	12.8	12.8		
		55	28.47	34.4	17.6	15.8	14.1	14.1		
		60	26.10	37.6	19.2	17.3	15.4	15.4		
BUBM	18	65	24.09	40.7	20.8	18.7	16.6	16.6		
		70	22.37	43.8	22.4	20.2	17.9	17.9		
		75	20.88	47.0	24.0	21.6	19.2	19.2		
		80	19.57	50.1	25.6	23.0	20.5	20.5		
		90	17.40	56.3	28.8	25.9	23.0	23.0		
		100	15.66	62.6	32.0	28.8	25.6	25.6		
		125	12.53	78.3	40.0	36.0	32.0	32.0		
	20	20*	99.50	13.2	6.4	5.8	5.1	5.1		
		25	79.03	15.7	8.0	7.2	6.4	6.4		
		30	65.86	18.8	9.6	8.6	7.7	7.7		
		35	56.45	21.9	11.2	10.1	9.0	9.0		
		40	49.39	25.0	12.8	11.5	10.2	10.2		
		45	43.90	28.2	14.4	13.0	11.5	11.5		
		50	39.51	31.3	16.0	14.4	12.8	12.8		
		55	35.92	34.4	17.6	15.8	14.1	14.1		
		60	32.93	37.6	19.2	17.3	15.4	15.4		
		65	30.40	40.7	20.8	18.7	16.6	16.6		
BUBM	22	70	28.22	43.8	22.4	20.2	17.9	17.9		
		75	26.34	47.0	24.0	21.6	19.2	19.2		
		80	24.70	50.1	25.6	23.0	20.5	20.5		
		90	21.95	56.3	28.8	25.9	23.0	23.0		
		100	19.76	62.6	32.0	28.8	25.6	25.6		
		125	15.81	78.3	40.0	36.0	32.0	32.0		

Rectangular Spring ▶ Medium Load Spring (Red)

Model			Inner Diameter	Spring Constant	a	Usage Method							
Code	D	L				d	N/mm	300,000 times F=Lx32%	500,000 times F=Lx28.8%	1,000,000 times F=Lx25.6%			
					Compressed Length	F/mm	Load N	F/mm	Load N	F/mm	Load N		
22	11	45		65.82	28.2	14.4		13.0		11.5			
		50		59.24	31.3	16.0		14.4		12.8			
		55		53.85	34.4	17.6		15.8		14.1			
		60		49.36	37.6	19.2		17.3		15.4			
		65		45.57	40.7	20.8		18.7		16.6			
		70		42.31	43.8	22.4		20.2		17.9			
		75		39.49	47.0	24.0		21.6	853	19.2	765		
		80		37.02	50.1	25.6		23.0		20.5			
		90		32.91	56.3	28.8		25.9		23.0			
		100		29.62	62.6	32.0		28.8		25.6			
		125		23.69	78.3	40.0		36.0		32.0			
		150		19.75	93.9	48.0		43.2		38.4			
		20*		197.80	5.8	6.4		5.76		5.12			
		25		152.50	15.7	8.0		7.2		6.4			
		30		127.08	18.8	9.6		8.6		7.7			
		35		108.93	21.9	11.2		10.1		9.0			
		40		95.31	25.0	12.8		11.5		10.2			
		25	12.5	45		84.72	28.2	14.4		13.0		11.5	
50				76.25	31.3	16.0		14.4		12.8			
55				69.32	34.4	17.6		15.8		14.1			
60				63.54	37.6	19.2		17.3		15.4			
65				58.65	40.7	20.8	1266	18.7	1098	16.6	981		
70				54.46	43.8	22.4		20.2		17.9			
75				50.83	47.0	24.0		21.6		19.2			
80				47.66	50.1	25.6		23.0		20.5			
90				42.36	56.3	28.8		25.9		23.0			
100				38.13	62.6	32.0		28.8		25.6			
125				30.50	78.3	40.0		36.0		32.0			
150				25.42	93.9	48.0		43.2		38.4			
175				21.79	109.6	56.0		50.4		44.8			
200				19.06	125.2	64.0		57.6		51.2			
27	13.5			25		178.47	15.7	8.0		7.2		6.4	
				30		148.73	18.8	9.6		8.6		7.7	
				35		127.48	21.9	11.2		10.1		9.0	
				40		111.55	25.0	12.8		11.5		10.2	
		45		99.15	28.2	14.4		13.0		11.5			
		50		89.24	31.3	16.0		14.4		12.8			
		55		81.12	34.4	17.6		15.8		14.1			
		60		74.36	37.6	19.2		17.3		15.4			
		65		68.64	40.7	20.8	1432	18.7	1285	16.6	1145		
		70		63.74	43.8	22.4		20.2		17.9			
		75		59.49	47.0	24.0		21.6		19.2			
		80		55.77	50.1	25.6		23.0		20.5			
		90		49.58	56.3	28.8		25.9		23.0			
		100		44.62	62.6	32.0		28.8		25.6			
		125		35.69	78.3	40.0		36.0		32.0			
		150		29.75	93.9	48.0		43.2		38.4			
		175		25.50	109.6	56.0		50.4		44.8			
		200		22.31	125.2	64.0		57.6		51.2			
30	15	25		219.13	15.7	8.0		7.2		6.4			
		30		182.75	18.8	9.6		8.6		7.7			
		35		156.65	21.9	11.2		10.1		9.0			
		40		137.07	25.0	12.8		11.5		10.2			
		45		121.84	28.2	14.4		13.0		11.5			
		50		109.65	31.3	16.0		14.4		12.8			
		55		99.68	34.4	17.6		15.8		14.1			
		60		91.38	37.6	19.2		17.3		15.4			
		65		84.35	40.7	20.8	1765	18.7	1579	16.6	1412		
		70		78.32	43.8	22.4		20.2		17.9			
		75		73.10	47.0	24.0		21.6		19.2			
		80		68.53	50.1	25.6		23.0		20.5			
		90		60.92	56.3	28.8		25.9		23.0			
		100		54.83	62.6	32.0		28.8		25.6			
		125		43.86	78.3	40.0		36.0		32.0			
		150		36.55	93.9	48.0		43.2		38.4			
		175		31.33	109.6	56.0		50.4		44.8			
		200		27.41	125.2	64.0		57.6		51.2			
35	17.5	40		187.50	25.0	12.8		11.5		10.2			
		45		166.67	28.2	14.4		13.0		11.5			
		50		150.00	31.3	16.0		14.4		12.8			
		55		136.36	34.4	17.6		15.8		14.1			
		60		125.00	37.6	19.2		17.3		15.4			
		65		115.38	40.7	20.8		18.7		16.6			
		70		107.14	43.8	22.4		20.2		17.9			
		75		100.00	47.0	24.0	2400	21.6	2160	19.2	1912		
		80		93.75	50.1	25.6		23.0		20.5			
		90		83.33	56.3	28.8		25.9		23.0			
		100		75.00	62.6	32.0		28.8		25.6			
		125		60.00	78.3	40.0		36.0		32.0			
		150		50.00	93.9	48.0		43.2		38.4			
		175		42.86	109.6	56.0		50.4		44.8			
		200		37.50	125.2	64.0		57.6		51.2			

Model			Inner Diameter	Spring Constant	a	Usage Method								
Code	D	L				d	N/mm	Compressed Length	F/mm	Load N	F/mm	Load N	F/mm	Load N
40	20	40		245.00	25.0	12.8			11.5		10.2			
		45		217.59	29.4	14.4			13.0		11.5			
		50		195.83	31.3	16.0			14.4		12.8			
		55		178.03	36.0	17.6			15.8		14.1			
		60		163.19	37.6	19.2			17.3		15.4			
		65		150.64	42.5	20.8			18.7		16.6			
		70		139.88	43.8	22.4			20.2		17.9			
		75		130.56	49.1	24.0			21.6		19.2			
		80		122.40	50.1	25.6			23.0		20.5			
		90		108.80	56.3	28.8	3140	25.9	2820	23.0	2510			
		100		97.92	62.6	32.0		28.8		25.6				
		125		78.33	78.3	40.0		36.0		32.0				
		150		65.28	93.9	48.0		43.2		38.4				
		175		55.95	109.6	56.0		50.4		44.8				
		200		48.96	125.2	64.0		57.6		51.2				
		225		43.52	140.9	72.0		64.8		57.6				
		250		39.17	156.5	80.0		72.0		64.0				
		275		35.61	172.2	88.0		79.2		70.4				
		300		32.64	196.2	96.0		86.4		76.8				
		50	25	50		306.25	31.3	16.0			14.4		12.8	
55				278.41	34.4	17.6			15.8		14.1			
60				255.21	37.6	19.2			17.3		15.4			
65				235.58	40.7	20.8			18.7		16.6			
70				218.75	43.8	22.4			20.2		17.9			
75				204.17	47.0	24.0			21.6		19.2			
80				191.41	50.1	25.6			23.0		20.5			
90				170.14	56.3	28.8		25.9		23.0				
100				153.13	62.6	32.0	4900	28.8	4410	25.6	3920			
125				122.50	78.3	40.0		36.0		32.0				
150				102.08	93.9	48.0		43.2		38.4				
175				87.50	109.6	56.0		50.4		44.8				
200				76.56	125.2	64.0		57.6		51.2				
225				68.06	140.9	72.0		64.8		57.6				
250				61.25	156.5	80.0		72.0		64.0				
275				55.68	172.2	88.0		79.2		70.4				
300				51.04	187.8	96.0		86.4		76.8				
350				43.75	228.9	112.0		100.8		89.6				
60	30			60		367.48	37.6	19.2			17.3		15.4	
				70		314.98	43.8	22.4			20.2		17.9	
		80		275.61	50.1	25.6			23.0		20.5			
		90		244.98	56.3	28.8			25.9		23.0			
		100		220.49	62.6	32.0		28.8		25.6				
		125		176.39	78.3	40.0		36.0		32.0				
		150		146.99	93.9	48.0	7060	43.2	6350	38.4	5640			
		175		125.99	109.6	56.0		50.4		44.8				
		200		110.24	125.2	64.0		57.6		51.2				
		225		97.99	140.9	72.0		64.8		57.6				
		250		88.19	156.5	80.0		72.0		64.0				
		275		80.18	172.2	88.0		79.2		70.4				
		300		73.50	187.8	96.0		86.4		76.8				
		350		63.00	228.9	112.0		100.8		89.6				
		70		379.46	45.8	22.4			20.2		17.9			
		80		332.03	52.3	25.6			23.0		20.5			
		90		295.14	58.9	28.8			25.9		23.0			
		100		265.63	65.4	32.0		28.8		25.6				
		125		212.50	81.8	40.0		36.0		32.0				
		150		177.08	98.1	48.0	8500	43.2	7650	38.4	6800			
175		151.79	114.5	56.0		50.4		44.8						
200		132.81	130.8	64.0		57.6		51.2						
225		118.06	140.9	72.0		64.8		57.6						
250		106.25	163.5	80.0		72.0		64.0						
275		96.59	172.2	88.0		79.2		70.4						
300		86.70	196.1	96.0	8330	86.4	7497	76.7	6664					
350		74.50	228.8	112.0		100.8		89.5						