

Rectangular Spring ▶ Extremely Light Load Spring (Yellow)



Please order according to the diagram

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

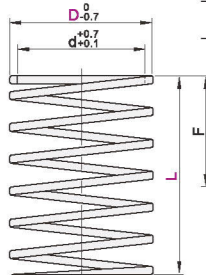
Model (●Code) — ●D — ●L
BUBF — D8 — L10



Discounted Price
Quantity 1~9 10~
Price 100% Separate Quotation
Price Excluding Tax (Yen)



CAD 2D



Code	Type	Material		Maximum Compression
		International	Equivalent	

BUBF	Extremely Light Load Type Economy type	60Si2CrA	SWOSC-V	L×50%
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■ L Dimension Tolerance

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

- 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!

Model		Inner Diameter	Spring Constant	a	Usage Method					
Code	D	L	d	N/mm	300,000 times F=Lx50%	500,000 times F=Lx45%	1,000,000 times F=Lx40%	300,000 times F=Lx50%	500,000 times F=Lx45%	1,000,000 times F=Lx40%
BUBF	6	15*	3	7.80	7.1	7.5	6.8	59	53	47
		20*		5.90	9.5	10.0	9.0			
		25*		4.70	11.9	12.5	11.3			
		30*		3.90	14.2	15.0	13.5			
		35*		3.40	16.6	17.5	15.8			
		40*		2.90	19.0	20.0	18.0			
		10		15.24	4.5	5.0	4.5			
		15		10.16	6.8	7.5	6.8			
	8	20	4	7.62	9.0	10.0	9.0			
		25		6.10	11.3	12.5	11.3			
		30		5.08	13.5	15.0	13.5			
		35		4.36	15.8	17.5	15.8			
		40		3.81	18.0	20.0	18.0			
		45		3.39	20.3	22.5	20.3			
		50		3.05	22.5	25.0	22.5	78.5	68.6	58.8
		55		2.77	24.8	27.5	24.8			
BUBF	10	60	5	2.54	27.0	30.0	27.0			
		65		2.35	30.8	32.5	29.3			
		70		2.18	33.2	35.0	31.5			
		75		2.10	35.6	37.5	33.8			
		80		1.91	37.9	40.0	36.0			
		90*		1.74	43.5	45.0	40.5			
		100*		1.57	48.5	50.0	45.0			
		10*		19.50	4.5	5.0	4.5			
	12	15*	6	13.20	6.8	7.5	6.8			
		20		9.81	9.0	10.0	9.0			
		25		7.85	11.3	12.5	11.3			
		30		6.54	13.5	15.0	13.5			
		35		5.61	15.8	17.5	15.8			
		40		4.91	18.0	20.0	18.0			
		45		4.36	20.3	22.5	20.3			
		50		3.92	22.5	25.0	22.5	98.1	88.3	78.5
BUBF	14	55	7	3.57	24.8	27.5	24.8			
		60		3.27	27.0	30.0	27.0			
		65		3.02	29.3	32.5	29.3			
		70		2.80	31.5	35.0	31.5			
		75		2.62	33.8	37.5	33.8			
		80		2.45	36.0	40.0	36.0			
		90		2.18	40.5	45.0	40.5			
		100*		1.96	48.4	50.0	45.0			
	16	15*	8	18.20	6.7	7.5	6.8			
		20		13.62	9.0	10.0	9.0			
		25		10.90	11.3	12.5	11.3			
		30		9.08	13.5	15.0	13.5			
		35		7.78	15.8	17.5	15.8			
		40		6.81	18.0	20.0	18.0			
		45		6.05	20.3	22.5	20.3			
		50		5.45	22.5	25.0	22.5	137.3	122.6	107.9
BUBF	18	55	9	4.95	24.8	27.5	24.8			
		60		4.54	27.0	30.0	27.0			
		65		4.19	29.3	32.5	29.3			
		70		3.89	31.5	35.0	31.5			
		75		3.63	33.8	37.5	33.8			
		80		3.41	36.0	40.0	36.0			
		90		3.03	40.5	45.0	40.5			
		100*		2.74	48.2	50.0	45.0			
	20	20*	11	17.60	8.9	9.8	9.1			
		25		13.95	11.3	12.5	11.3			
		30		11.62	13.5	15.0	13.5			
		35		9.96	15.8	17.5	15.8			
		40		8.72	18.0	20.0	18.0			
		45		7.75	20.3	22.5	20.3			
		50		6.97	22.5	25.0	22.5			
		55		6.34	24.8	27.5	24.8			

Model			Inner Diameter	Spring Constant	Usage Method						
Code	D	L	d	N/mm	300,000 times F=Lx50%	500,000 times F=Lx45%	1,000,000 times F=Lx40%	300,000 times F=Lx50%	500,000 times F=Lx45%	1,000,000 times F=Lx40%	
					Compressed Length	Fmm	Load N	Fmm	Load N	Fmm	Load N
BUBF	14	60	7	5.81	27.0	30.0		27.0		24	
		65		5.36	29.3	32.5		29.3		26	
		70		4.98	31.5	35.0		31.5		28	
		75		4.65	33.8	37.5		33.8		30	
		80		4.36	36.0	40.0		36.0		32	
		90		3.87	40.5	45.0		40.5		36	
		100		3.49	45.0	50.0		45.0		40	
		125*		2.80	61.2	62.5		56.25		50	
		20*		20.50	9.1	10.1		9.1		8.2	
		25		16.56	11.3	12.5		11.3		10	
BUBF	16	30	8	13.80	13.5	15.0		13.5		12	
		35		11.83	15.8	17.5		15.8		14	
		40		10.35	18.0	20.0		18.0		16	
		45		9.20	20.3	22.5		20.3		18	
		50		8.28	22.5	25.0		22.5		20	
		55		7.53	24.8	27.5		24.8		22	
		60		6.90	27.0	30.0		27.0		24	
		65		6.37	29.3	32.5		29.3		26	
		70		5.91	31.5	35.0		31.5		28	
		75		5.25	33.8	37.5		33.8		30	
BUBF	18	80	9	5.18	36.0	40.0		36.0		32	
		90		4.60	40.5	45.0		40.5		36	
		100		4.14	45.0	50.0		45.0		40	
		125*		3.31	56.3	62.5		56.3		50	
		20*		25.50	9.1	10.1		9.1		8.2	
		25		20.09	11.3	12.5		11.3		10	
		30		16.74	13.5	15.0		13.5		12	
		35		14.35	15.8	17.5		15.8		14	
		40		12.58	18.0	20.0		18.0		16	
		45		11.16	20.3	22.5		20.3		18	
BUBF	20	50	11	10.04	22.5	25.0		22.5		20	
		55		9.13	24.8	27.5		24.8		22	
		60		8.37	27.0	30.0		27.0		24	
		65		7.73	29.3	32.5		29.3		26	
		70		7.17	31.5	35.0		31.5		28	
		75		6.70	33.8	37.5		33.8		30	
		80		6.28	36.0	40.0		36.0		32	
		90		5.58	40.5	45.0		40.5		36	
		100		5.02	45.0	50.0		45.0		40	
		125*		4.02	56.3	62.5		56.3		50	
BUBF	22	20*	13	31.30	9.1	10.1		9.1		8.2	
		25		25.24	11.3	12.5		11.3		10	
		30		21.04	13.5	15.0		13.5		12	
		35		18.03	15.8	17.5		15.8		14	
		40		15.78	18.0	20.0		18.0		16	
		45		14.02	20.3	22.5		20.3		18	
		50		12.62	22.5	25.0		22.5		20	
		55		11.47	24.8	27.5		24.8		22	
		60		10.52	27.0	30.0		27.0		24	
		65		9.71	29.3	32.5		29.3		26	
BUBF	24	70	14	9.02	31.5	35.0		31.5		28	
		75		8.41	33.8	37.5		33.8		30	
		80		7.89	36.0	40.0		36.0		32	
		90		7.01	40.5	45.0		40.5		36	
		100		6.31	45.0	50.0		45.0		40	
		125*		5.05	56.3	62.5		56.3		50	
		150		4.21	67.5	75.0		67.5		60	

Rectangular Spring ▶ Extremely Light Load Spring (Yellow)

Model		Inner Diameter	Spring Constant	a	Usage Method				
Code	D	L	d	N/mm	Compressed Length	F/mm	Load N	F/mm	Load N
22	11	20*	39.20	9.5	10.0		9.0		8
		25	31.38	11.3	12.5		11.3		10
		30	26.15	13.5	15.0		13.5		12
		35	22.41	15.8	17.5		15.8		14
		40	19.61	18.0	20.0		18.0		16
		45	17.43	20.3	22.5		20.3		18
		50	15.69	22.5	25.0		22.5		20
		55	14.26	24.8	27.5		24.8		22
		60	13.07	27.0	30.0	392	27.0	353	314
		65	12.07	29.3	32.5		29.3		26
		70	11.21	31.5	35.0		31.5		28
		75	10.46	33.8	37.5		33.8		30
		80	9.81	36.0	40.0		36.0		32
		90	8.72	40.5	45.0		40.5		36
		100	7.84	45.0	50.0		45.0		40
		125	6.28	56.3	62.5		56.3		50
		150	5.23	67.5	75.0		67.5		60
25	13.5	20*	49.00	9.45	10.0		9.0		8
		25	39.20	11.3	12.5		11.3		10
		30	32.67	13.5	15.0		13.5		12
		35	28.00	15.8	17.5		15.8		14
		40	24.50	18.0	20.0		18.0		16
		45	21.78	20.3	22.5		20.3		18
		50	19.60	22.5	25.0		22.5		20
		55	17.82	24.8	27.5		24.8		22
		60	16.33	27.0	30.0		27.0		24
		65	15.08	29.3	32.5	490	29.3	441	392
		70	14.00	31.5	35.0		31.5		28
		75	13.07	33.8	37.5		33.8		30
		80	12.25	36.0	40.0		36.0		32
		90	10.89	40.5	45.0		40.5		36
		100	9.80	45.0	50.0		45.0		40
		125	7.84	56.3	62.5		56.3		50
		150	6.53	67.5	75.0		67.5		60
27	13.5	25	47.11	11.3	12.5		11.3		10
		30	39.26	13.5	15.0		13.5		12
		35	33.65	15.8	17.5		15.8		14
		40	29.44	18.0	20.0		18.0		16
		45	26.17	20.3	22.5		20.3		18
		50	23.56	22.5	25.0		22.5		20
		55	21.41	24.8	27.5		24.8		22
		60	19.63	27.0	30.0		27.0		24
		65	18.12	29.3	32.5	588	29.3	530	471
		70	16.83	31.5	35.0		31.5		28
		75	15.70	33.8	37.5		33.8		30
		80	14.72	36.0	40.0		36.0		32
		90	13.09	40.5	45.0		40.5		36
		100	11.78	45.0	50.0		45.0		40
		125	9.42	56.3	62.5		56.3		50
		150	7.85	67.5	75.0		67.5		60
30	16	25	58.9	90.0	100		90.0		80
		30	56.62	11.3	12.5		11.3		10
		35	47.19	13.5	15.0		13.5		12
		40	40.44	15.8	17.5		15.8		14
		45	35.39	18.0	20.0		18.0		16
		50	31.46	20.3	22.5		20.3		18
		55	28.31	22.5	25.0		22.5		20
		60	25.74	24.8	27.5		24.8		22
		65	23.59	27.0	30.0	706	27.0	637	569
		70	21.78	29.3	32.5		29.3		26
		75	20.22	31.5	35.0		31.5		28
		80	18.87	33.8	37.5		33.8		30
		90	17.69	36.0	40.0		36.0		32
		100	15.73	40.5	45.0		40.5		36
		125	14.16	45.0	50.0		45.0		40
		150	11.32	56.3	62.5		56.3		50
30	16	175	9.44	67.5	75.0		67.5		60
		200	8.09	78.8	87.5		78.8		70
		250	7.08	90.0	100		90.0		80

① Items marked with *** are applicable to the Economy Series only.

Model			Inner Diameter d	Spring Constant N/mm	Usage Method						
Code	D	L			a		300,000 times F=Lx50%		500,000 times F=Lx45%		1,000,000 times F=Lx40%
					Compressed Length	Fmm	Load N	Fmm	Load N	Fmm	Load N
35	19	40		47.94	18.0	20.0		18.0		16	
		45		42.62	20.3	22.5		20.3		18	
		50		38.36	22.5	25.0		22.5		20	
		55		34.87	24.8	27.5		24.8		22	
		60		31.96	27.0	30.0		27.0		24	
		65		29.50	29.3	32.5		29.3		26	
		70		27.40	31.5	35.0		31.5		28	
		75		25.57	33.8	37.5	961	33.8	863	30	765
		80		23.97	36.0	40.0		36.0		32	
		90		21.31	40.5	45.0		40.5		36	
		100		19.18	45.0	50.0		45.0		40	
		125		15.34	56.3	62.5		56.3		50	
		150		12.79	67.5	75.0		67.5		60	
		175		10.96	78.8	87.5		78.8		70	
		200		9.59	90.0	100.0		90.0		80	
		40	22	40		62.67	18.0	20.0		18.0	
45				55.77	21.4	22.5		20.25		18	
50				50.13	22.5	25.0		22.5		20	
55				45.58	24.8	27.5		24.8		22	
60				41.78	27.0	30.0		27.0		24	
65				38.56	29.3	32.5		29.3		26	
70				35.81	31.5	35.0		31.5		28	
75				33.42	35.6	37.5		33.8		30	
80				31.33	36.0	40.0		36.0		32	
90				27.85	40.5	45.0	1255	40.5	1128	36	1000
100				25.07	45.0	50.0		45.0		40	
125				20.05	56.3	62.5		56.3		50	
150				16.71	67.5	75.0		67.5		60	
175				14.32	78.8	87.5		78.8		70	
200				12.58	90.0	100.0		90.0		80	
50	27.5			225		11.14	101.3	112.5		101.3	
		250		10.03	112.5	125.0		112.5		100	
		275		9.12	123.8	137.5		123.8		110	
		300		8.36	142.2	150.0		135.0		120	
		50		78.44	22.5	25.0		22.5		20	
		55		71.31	24.8	27.5		24.8		22	
		60		65.37	27.0	30.0		27.0		24	
		65		60.34	29.3	32.5		29.3		26	
		70		56.03	31.5	35.0		31.5		28	
		75		52.30	33.8	37.5		33.8		30	
		80		49.03	36.0	40.0		36.0		32	
		90		43.58	40.5	45.0		40.5		36	
		100		39.22	45.0	50.0		45.0		40	
		125		31.38	56.3	62.5		56.3		50	
		150		26.15	67.5	75.0	1961	67.5	1765	60	1568
		175		22.41	78.8	87.5		78.8		70	
200		19.61	90.0	100.0		90.0		80			
60	33	225		17.43	101.3	112.5		101.3		90	
		250		15.69	112.5	125.0		112.5		100	
		275		14.26	123.8	137.5		123.8		110	
		300		13.07	135.0	150.0		135.0		120	
		350		11.21	165.9	175.0		157.5		140	
		400		9.70	189.5	200.1		180.1		160	
		450		8.70	213.2	225.2		202.4		180	
		500		7.90	237.1	250.1		225.1		200	
		60		94.07	27.0	30.0		27.0		24	
		70		80.63	31.5	35.0		31.5		28	
		80		70.56	36.0	40.0		36.0		32	
		90		62.72	40.5	45.0		40.5		36	
		100		56.44	45.0	50.0		45.0		40	
		125		45.16	56.3	62.5		56.3		50	
		150		37.63	67.5	75.0		67.5		60	
		175		32.25	78.8	87.5		78.8		70	
200		28.22	90.0	100.0	2820	90.0	2540	80	2260		
70	38.5	225		25.09	101.3	112.5		101.3		90	
		250		22.58	112.5	125.0		112.5		100	
		275		20.53	123.8	137.5		123.8		110	
		300		18.81	135.0	150.0		135.0		120	
		350		16.13	165.9	175.0		157.5		140	
		400		14.20	189.5	200.1		180.1		160	
		450		12.60	213.2	225.2		202.4		180	
		500		11.40	237.1	250.1		225.1		200	
		70		114.29	33.2	35.0		31.5		28	
		80		100.00	37.9	40.0		36.0		32	
		90		88.89	42.7	45.0		40.5		36	
		100		80.00	47.4	50.0		45.0		40	
		125		64.00	59.3	62.5		56.3		50	
		150		53.33	71.1	75.0		67.5		60	
		175		45.71	83.0	87.5	4000	78.8	3600	70	3200
		200		40.00	94.8	100.0		90.0		80	
225		35.56	106.7	112.5		101.3		90			
250		32.00	118.5	125.0		112.5		100			
275		29.09	130.3	137.5		123.8		110			
300		26.20	142.1	150.0		135.0		120			
350		22.30	165.8	175.0		157.5		140			