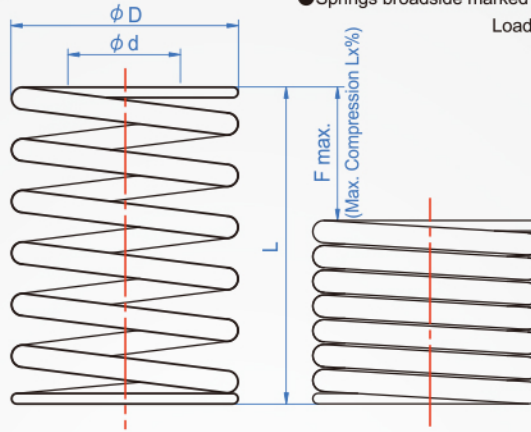


Brown

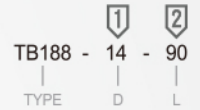
TB188



O. D.	Inner diameter	Length 50mm		Load	Curl direction
		Below	Above		
+0 mm -0.7mm	+0.7mm -0.1mm	±0.5mm	±1%	±10%	right

- Material SEA9254 advantage : heavily stressed \ high amplitude \ heatproof.
 - Springs broadside marked specification materials, easy to identify and classify.
- Load(kg)=Definite number(kg/mm)x Compression(Fmm)

How to order



1		2		Unit : mm					
D	L	d	Definite number kg/mm	300,000 times Length X 50% Fmm	300,000 times Compression Load (kg)	500,000 times Length X 45% Fmm	500,000 times Compression Load (kg)	1 million times Length X 40% Fmm	1 million times Compression Load (kg)
8	15	4	11.30	3.0	35	2.7	31	2.4	26
	20		8.47	4.0		3.6		3.2	
	25		6.78	5.0		4.5		4.0	
	30		5.65	6.0		5.4		4.8	
	35		4.84	7.0		6.3		5.6	
	40		4.24	8.0		7.2		6.4	
	45		3.77	9.0		8.1		7.2	
	50		3.39	10.0		9.0		8.0	
	55		3.08	11.0		9.9		8.8	
	60		2.82	12.0		10.8		9.6	
65	2.61	13.0	11.7	10.4					
70	2.42	14.0	12.6	11.2					
75	2.26	15.0	13.5	12.0					
80	2.12	16.0	14.4	12.8					
90	1.88	18.0	16.2	14.4					
20	11.25	5	4.0	45	3.6	41	3.2	36	
25	9.00		5.0		4.5		4.0		
30	7.50		6.0		5.4		4.8		
35	6.43		7.0		6.3		5.6		
40	5.63		8.0		7.2		6.4		
45	5.00		9.0		8.1		7.2		
50	4.50		10.0		9.0		8.0		
55	4.09		11.0		9.9		8.8		
60	3.75		12.0		10.8		9.6		
65	3.47		13.0		11.7		10.4		
70	3.21	14.0	12.6	11.2					
75	3.00	15.0	13.5	12.0					
80	2.82	16.0	14.4	12.8					
90	2.50	18.0	16.2	14.4					
100	2.25	20.0	18.0	16.0					
20	14.50	6	4.0	58	3.6	52	3.2	46	
25	11.60		5.0		4.5		4.0		
30	9.67		6.0		5.4		4.8		
35	8.29		7.0		6.3		5.6		
40	7.25		8.0		7.2		6.4		
45	6.44		9.0		8.1		7.2		
50	5.80		10.0		9.0		8.0		
55	5.27		11.0		9.9		8.8		
60	4.83		12.0		10.8		9.6		
65	4.44		13.0		11.7		10.4		
70	4.13	14.0	12.6	11.2					
75	3.85	15.0	13.5	12.0					
80	3.61	16.0	14.4	12.8					
90	3.22	18.0	16.2	14.4					
100	2.90	20.0	18.0	16.0					

1		2		Unit : mm					
D	L	d	Definite number kg/mm	300,000 times Length X 50% Fmm	300,000 times Compression Load (kg)	500,000 times Length X 45% Fmm	500,000 times Compression Load (kg)	1 million times Length X 40% Fmm	1 million times Compression Load (kg)
14	25	7	15.00	5.0	75	4.5	68	4.0	60
	30		12.50	6.0		5.4		4.8	
	35		10.72	7.0		6.3		5.6	
	40		9.38	8.0		7.2		6.4	
	45		8.34	9.0		8.1		7.2	
	50		7.50	10.0		9.0		8.0	
	55		6.82	11.0		9.9		8.8	
	60		6.25	12.0		10.8		9.6	
	65		5.77	13.0		11.7		10.4	
	70		5.36	14.0		12.6		11.2	
	75		5.00	15.0		13.5		12.0	
	80		4.69	16.0		14.4		12.8	
	90		4.17	18.0		16.2		14.4	
	100		3.75	20.0		18.0		16.0	
125	3.00	25.0	22.5	20.0					
25	20.00	8	5.0	100	4.5	90	4.0	80	
30	16.67		6.0		5.4		4.8		
35	14.29		7.0		6.3		5.6		
40	12.50		8.0		7.2		6.4		
45	11.11		9.0		8.1		7.2		
50	10.00		10.0		9.0		8.0		
55	9.09		11.0		9.9		8.8		
60	8.34		12.0		10.8		9.6		
65	7.69		13.0		11.7		10.4		
70	7.14		14.0		12.6		11.2		
75	6.67		15.0		13.5		12.0		
80	6.25		16.0		14.4		12.8		
90	5.56		18.0		16.2		14.4		
100	5.00		20.0		18.0		16.0		
125	4.00	25.0	22.5	20.0					
25	25.00	9	5.0	125	4.5	113	4.0	100	
30	20.84		6.0		5.4		4.8		
35	17.86		7.0		6.3		5.6		
40	15.63		8.0		7.2		6.4		
45	13.89		9.0		8.1		7.2		
50	12.50		10.0		9.0		8.0		
55	11.37		11.0		9.9		8.8		
60	10.42		12.0		10.8		9.6		
65	9.62		13.0		11.7		10.4		
70	8.93		14.0		12.6		11.2		
75	8.34		15.0		13.5		12.0		
80	7.82		16.0		14.4		12.8		
90	6.95		18.0		16.2		14.4		
100	6.26		20.0		18.0		16.0		
125	5.00	25.0	22.5	20.0					

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1		2		Unit : mm							
D	L	d	Definite number kg/mm	300,000 times		500,000 times		1 million times			
				Length Fmm	X 50% Load (kg)	Length Fmm	X 45% Load (kg)	Length Fmm	X 40% Load (kg)		
20	10	10	25	32.00	5.0	4.5	4.0	160	144	128	
			30	26.67	6.0	5.4	4.8				
			35	22.86	7.0	6.3	5.6				
			40	20.00	8.0	7.2	6.4				
			45	17.78	9.0	8.1	7.2				
			50	16.00	10.0	9.0	8.0				
			55	14.55	11.0	9.9	8.8				
			60	13.33	12.0	10.8	9.6				
			65	12.31	16.0	11.7	10.4				
			70	11.43	14.0	12.6	11.2				
			75	10.67	15.0	13.5	12.0				
			80	10.00	16.0	14.4	12.8				
			90	8.89	18.0	16.2	14.4				
			100	8.00	20.0	18.0	16.0				
			125	6.40	25.0	22.5	20.0				
150	5.33	30.0	27.0	24.0							
175	4.57	35.0	31.5	28.0							
22	11	11	25	39.00	5.0	4.5	4.0	195	176	156	
			30	32.50	6.0	5.4	4.8				
			35	27.86	7.0	6.3	5.6				
			40	24.38	8.0	7.2	6.4				
			45	21.67	9.0	8.1	7.2				
			50	19.50	10.0	9.0	8.0				
			55	17.73	11.0	9.9	8.8				
			60	16.25	12.0	10.8	9.6				
			65	15.00	13.0	11.7	10.4				
			70	13.93	14.0	12.6	11.2				
			75	13.00	15.0	13.5	12.0				
			80	12.19	16.0	14.4	12.8				
			90	10.83	18.0	16.2	14.4				
			100	9.75	20.0	18.0	16.0				
			125	7.80	25.0	22.5	20.0				
150	6.50	30.0	27.0	24.0							
175	5.57	35.0	31.5	28.0							
25	12.5	12.5	25	49.00	5.0	4.5	4.0	245	221	196	
			30	40.80	6.0	5.4	4.8				
			35	35.00	7.0	6.3	5.6				
			40	30.60	8.0	7.2	6.4				
			45	27.20	9.0	8.1	7.2				
			50	24.50	10.0	9.0	8.0				
			55	22.30	11.0	9.9	8.8				
			60	20.40	12.0	10.8	9.6				
			65	18.80	13.0	11.7	10.4				
			70	17.50	14.0	12.6	11.2				
			75	16.30	15.0	13.5	12.0				
			80	15.30	16.0	14.4	12.8				
			90	13.60	18.0	16.2	14.4				
			100	12.30	20.0	18.0	16.0				
			125	9.80	25.0	22.5	20.0				
150	8.17	30.0	27.0	24.0							
175	7.00	35.0	31.5	28.0							
200	6.13	40.0	36.0	32.0							
27	13.5	13.5	25	58.00	5.0	4.5	4.0	290	261	232	
			30	48.33	6.0	5.4	4.8				
			35	41.43	7.0	6.3	5.6				
			40	36.25	8.0	7.2	6.4				
			45	32.22	9.0	8.1	7.2				
			50	29.00	10.0	9.0	8.0				
			55	26.36	11.0	9.9	8.8				
			60	24.17	12.0	10.8	9.6				
			65	22.31	13.0	11.7	10.4				
			70	20.71	14.0	12.6	11.2				
			75	19.33	15.0	13.5	12.0				
			80	18.13	16.0	14.4	12.8				
			90	16.11	18.0	16.2	14.4				
			100	14.50	20.0	18.0	16.0				
			125	11.60	25.0	22.5	20.0				
150	9.67	30.0	27.0	24.0							
175	8.28	35.0	31.5	28.0							
200	7.25	40.0	36.0	32.0							

1		2		Unit : mm							
D	L	d	Definite number kg/mm	300,000 times		500,000 times		1 million times			
				Length Fmm	X 50% Load (kg)	Length Fmm	X 45% Load (kg)	Length Fmm	X 40% Load (kg)		
30	15	15	25	72.00	5.0	4.5	4.0	360	324	288	
			30	60.00	6.0	5.4	4.8				
			35	51.43	7.0	6.3	5.6				
			40	45.00	8.0	7.2	6.4				
			45	40.00	9.0	8.1	7.2				
			50	36.00	10.0	9.0	8.0				
			55	32.72	11.0	9.9	8.8				
			60	30.00	12.0	10.8	9.6				
			65	27.69	13.0	11.7	10.4				
			70	25.71	14.0	12.6	11.2				
			75	24.00	15.0	13.5	12.0				
			80	22.50	16.0	14.4	12.8				
			90	20.00	18.0	16.2	14.4				
			100	18.00	20.0	18.0	16.0				
			125	14.40	25.0	22.5	20.0				
150	12.00	30.0	27.0	24.0							
175	10.28	35.0	31.5	28.0							
200	9.00	40.0	36.0	32.0							
35	17.5	17.5	40	61.25	8.0	7.2	6.4	490	441	392	
			45	54.44	9.0	8.1	7.2				
			50	49.00	10.0	9.0	8.0				
			55	44.54	11.0	9.9	8.8				
			60	40.83	12.0	10.8	9.6				
			65	37.69	13.0	11.7	10.4				
			70	35.00	14.0	12.6	11.2				
			75	32.67	15.0	13.5	12.0				
			80	30.62	16.0	14.4	12.8				
			90	27.22	18.0	16.2	14.4				
			100	24.50	20.0	18.0	16.0				
			125	19.60	25.0	22.5	20.0				
			150	16.33	30.0	27.0	24.0				
			175	14.00	35.0	31.5	28.0				
			200	12.25	40.0	36.0	32.0				
40	20	20	50	64.00	10.0	9.0	8.0	640	576	512	
			60	53.33	12.0	10.8	9.6				
			70	45.71	14.0	12.6	11.2				
			80	40.00	16.0	14.4	12.8				
			90	35.55	18.0	16.2	14.4				
			100	32.00	20.0	18.0	16.0				
			125	25.60	25.0	22.5	20.0				
			150	21.33	30.0	27.0	24.0				
			175	18.28	35.0	31.5	28.0				
			200	16.00	40.0	36.0	32.0				
			225	14.22	45.0	40.5	36.0				
			250	12.80	50.0	45.0	40.0				
			275	11.64	55.0	49.5	44.0				
			300	10.67	60.0	54.0	48.0				
			50	25	25	60	83.33				12.0
70	71.42	14.0				12.6	11.2				
80	62.50	16.0				14.4	12.8				
90	55.55	18.0				16.2	14.4				
100	50.00	20.0				18.0	16.0				
125	40.00	25.0				22.5	20.0				
150	33.33	30.0				27.0	24.0				
175	28.57	35.0				31.5	28.0				
200	25.00	40.0				36.0	32.0				
225	22.22	45.0				40.5	36.0				
250	20.00	50.0				45.0	40.0				
275	18.18	55.0				49.5	44.0				
300	16.66	60.0				54.0	48.0				
350	14.29	70.0				63.0	56.0				
60	30	30				90	80.00	18.0	16.2	14.4	1440
			100	72.00	20.0	18.0	16.0				
			125	57.60	25.0	22.5	20.0				
			150	48.00	30.0	27.0	24.0				
			175	41.14	35.0	31.5	28.0				
			200	36.00	40.0	36.0	32.0				
			225	32.00	45.0	40.5	36.0				
			250	28.80	50.0	45.0	40.0				
			275	26.18	55.0	49.5	44.0				
			300	24.00	60.0	54.0	48.0				
			350	20.57	70.0	63.0	56.0				

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