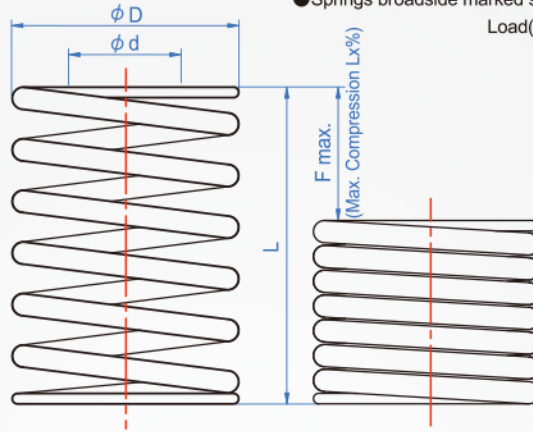


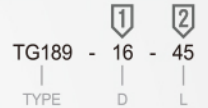
Black
TG189



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% Compression Fmm	300,000 times Load X 50% (kg)	500,000 times Length X 45% Compression Fmm	500,000 times Load X 45% (kg)	1 million times Length X 40% Compression Fmm	1 million times Load X 40% (kg)		
10	15	5	16.67	3.0		2.7		2.4			
	20		12.50	4.0		3.6		3.2			
	25		10.00	5.0		4.5		4.0			
	30		8.33	6.0		5.4		4.8			
	35		7.14	7.0		6.3		5.6			
	40		6.25	8.0		7.2		6.4			
	45		5.56	9.0		8.1		7.2			
	50		5.00	10.0	50	9.0	45	8.0	40		
	55		4.55	11.0		9.9		8.8			
	60		4.17	12.0		10.8		9.6			
65	3.85	13.0		11.7		10.4					
70	3.57	14.0		12.6		11.2					
75	3.33	15.0		13.5		12.0					
80	3.13	16.0		14.4		12.8					
90	2.78	18.0		16.2		14.4					
100	2.50	20.0		18.0		16.0					
12	15	6	25.00	3.0		2.7		2.4			
	20		18.75	4.0		3.6		3.2			
	25		15.00	5.0		4.5		4.0			
	30		12.50	6.0		5.4		4.8			
	35		10.71	7.0		6.3		5.6			
	40		9.38	8.0		7.2		6.4			
	45		8.33	9.0		8.1		7.2			
	50		7.50	10.0	75	9.0	67	8.0	60		
	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					
14	20	7	24.25	4.0		3.6		3.2			
	25		19.40	5.0		4.5		4.0			
	30		16.17	6.0		5.4		4.8			
	35		13.86	7.0		6.3		5.6			
	40		12.13	8.0		7.2		6.4			
	45		10.78	9.0	97	8.1	97	7.2	77		
	50		9.70	10.0		9.0		8.0			
	55		8.82	11.0		9.9		8.8			
	60		8.08	12.0		10.8		9.6			
	65		7.46	13.0		11.7		10.4			
70	6.93	14.0		12.6		11.2					

1		2		Unit : mm							
D	L	d	Definite number kg/mm	300,000 times Length X 50% Compression Fmm	300,000 times Load X 50% (kg)	500,000 times Length X 45% Compression Fmm	500,000 times Load X 45% (kg)	1 million times Length X 40% Compression Fmm	1 million times Load X 40% (kg)		
14	75	7	6.47	15.0		13.5		12.0			
	80		6.06	16.0	97	14.4	97	12.8	77		
	90		5.39	18.0		16.2		14.4			
	100		4.85	20.0		18.0		16.0			
	20		32.25	4.0		3.6		3.2			
16	25	8	25.80	5.0		4.5		4.0			
	30		21.50	6.0		5.4		4.8			
	35		18.43	7.0		6.3		5.6			
	40		16.13	8.0		7.2		6.4			
	45		14.33	9.0		8.1		7.2			
	50		12.90	10.0		9.0		8.0			
	55		11.73	11.0	129	9.9	116	8.8	103		
	60		10.75	12.0		10.8		9.6			
	65		9.92	13.0		11.7		10.4			
	70		9.21	14.0		12.6		11.2			
75	8.60	15.0		13.5		12.0					
80	8.06	16.0		14.4		12.8					
90	7.17	18.0		16.2		14.4					
100	6.45	20.0		18.0		16.0					
18	20	9	40.25	4.0		3.6		3.2			
	25		32.20	5.0		4.5		4.0			
	30		26.83	6.0		5.4		4.8			
	35		23.00	7.0		6.3		5.6			
	40		20.13	8.0		7.2		6.4			
	45		17.89	9.0		8.1		7.2			
	50		16.10	10.0		9.0		8.0			
	55		14.64	11.0	161	9.9	145	8.8	129		
	60		13.42	12.0		10.8		9.6			
	65		12.38	13.0		11.7		10.4			
70	11.50	14.0		12.6		11.2					
75	10.73	15.0		13.5		12.0					
80	10.06	16.0		14.4		12.8					
90	8.94	18.0		16.2		14.4					
100	8.05	20.0		18.0		16.0					
125	6.44	25.0		22.5		20.0					
20	20	10	51.50	4.0		3.6		3.2			
	25		41.20	5.0		4.5		4.0			
	30		34.33	6.0		5.4		4.8			
	35		29.43	7.0	206	6.3	185	5.6	165		
	40		25.75	8.0		7.2		6.4			
	45		22.89	9.0		8.1		7.2			
	50		20.60	10.0		9.0		8.0			
	55		18.73	11.0		9.9		8.8			

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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	17.17	12.0	206	10.8	185	9.6	165		
			65	15.85	13.0	11.7	10.4				
			70	14.71	14.0	12.6	11.2				
			75	13.73	15.0	13.5	12.0				
			80	12.88	16.0	14.4	12.8				
			90	11.44	18.0	16.2	14.4				
			100	10.30	20.0	18.0	16.0				
125	8.24	25.0	22.5	20.0							
22	11	11	62.75	4.0	251	3.6	226	3.2	201		
			25	50.20	5.0	4.5	4.0				
			30	41.83	6.0	5.4	4.8				
			35	35.86	7.0	6.3	5.6				
			40	31.38	8.0	7.2	6.4				
			45	27.89	9.0	8.1	7.2				
			50	25.10	10.0	9.0	8.0				
			55	22.82	11.0	9.9	8.8				
			60	20.92	12.0	10.8	9.6				
			65	19.31	13.0	11.7	10.4				
			70	17.93	14.0	12.6	11.2				
			75	16.73	15.0	13.5	12.0				
			80	15.69	16.0	14.4	12.8				
90	13.94	18.0	16.2	14.4							
100	12.55	20.0	18.0	16.0							
125	10.04	25.0	22.5	20.0							
25	12.5	12.5	78.75	4.0	315	3.6	284	3.2	252		
			25	63.00	5.0	4.5	4.0				
			30	52.50	6.0	5.4	4.8				
			35	45.00	7.0	6.3	5.6				
			40	39.38	8.0	7.2	6.4				
			45	35.00	9.0	8.1	7.2				
			50	31.50	10.0	9.0	8.0				
			55	28.64	11.0	9.9	8.8				
			60	26.25	12.0	10.8	9.6				
			65	24.23	13.0	11.7	10.4				
			70	22.50	14.0	12.6	11.2				
			75	21.00	15.0	13.5	12.0				
			80	19.69	16.0	14.4	12.8				
90	17.50	18.0	16.2	14.4							
100	15.75	20.0	18.0	16.0							
125	12.60	25.0	22.5	20.0							
150	10.50	30.0	27.0	24.0							
27	13.5	13.5	93.25	4.0	373	3.6	336	3.2	299		
			25	74.60	5.0	4.5	4.0				
			30	62.17	6.0	5.4	4.8				
			35	53.29	7.0	6.3	5.6				
			40	46.63	8.0	7.2	6.4				
			45	41.44	9.0	8.1	7.2				
			50	37.30	10.0	9.0	8.0				
			55	33.91	11.0	9.9	8.8				
			60	31.08	12.0	10.8	9.6				
			65	28.69	13.0	11.7	10.4				
			70	26.64	14.0	12.6	11.2				
			75	24.87	15.0	13.5	12.0				
			80	23.31	16.0	14.4	12.8				
90	20.72	18.0	16.2	14.4							
100	18.65	20.0	18.0	16.0							
125	14.92	25.0	22.5	20.0							
150	12.43	30.0	27.0	24.0							
30	15	15	116.00	4.0	464	3.6	417	3.2	371		
			25	92.80	5.0	4.5	4.0				
			30	77.33	6.0	5.4	4.8				
			35	66.29	7.0	6.3	5.6				
			40	58.00	8.0	7.2	6.4				
			45	51.56	9.0	8.1	7.2				

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	50	46.40	10.0	464	9.0	417	8.0	371	
			55	42.18	11.0	9.9	8.8				
			60	38.67	12.0	10.8	9.6				
			65	35.69	13.0	11.7	10.4				
			70	33.14	14.0	12.6	11.2				
			75	30.93	15.0	13.5	12.0				
			80	29.00	16.0	14.4	12.8				
			90	25.78	18.0	16.2	14.4				
			100	23.20	20.0	18.0	16.0				
			125	18.56	25.0	22.5	20.0				
35	17.5	17.5	150	15.47	30.0	631	27.0	568	24.0	505	
			175	13.26	35.0	31.5	28.0				
			200	11.60	40.0	36.0	32.0				
			30	105.17	6.0	5.4	4.8				
			35	90.14	7.0	6.3	5.6				
			40	78.88	8.0	7.2	6.4				
			45	70.11	9.0	8.1	7.2				
			50	63.10	10.0	9.0	8.0				
			55	57.36	11.0	9.9	8.8				
			60	52.58	12.0	10.8	9.6				
40	20	20	65	48.54	13.0	824	11.7	742	10.4	659	
			70	45.07	14.0	631	12.6	568	11.2	505	
			75	42.07	15.0	13.5	12.0				
			80	39.44	16.0	14.4	12.8				
			90	35.06	18.0	16.2	14.4				
			100	31.55	20.0	18.0	16.0				
			125	25.24	25.0	22.5	20.0				
			150	21.03	30.0	27.0	24.0				
			175	18.03	35.0	31.5	28.0				
			200	15.78	40.0	36.0	32.0				
50	25	25	80	117.71	7.0	1288	6.3	1159	5.6	1030	
			85	103.00	8.0	7.2	6.4				
			90	91.56	9.0	8.1	7.2				
			95	82.40	10.0	9.0	8.0				
			100	74.91	11.0	9.9	8.8				
			105	68.67	12.0	10.8	9.6				
			110	63.38	13.0	11.7	10.4				
			115	58.86	14.0	12.6	11.2				
			120	54.93	15.0	13.5	12.0				
			125	51.50	16.0	14.4	12.8				
55	30	30	100	45.78	18.0	1288	16.2	1159	14.4	1030	
			110	41.20	20.0	18.0	16.0				
			120	32.96	25.0	22.5	20.0				
			130	27.47	30.0	27.0	24.0				
			140	23.54	35.0	31.5	28.0				
			150	20.60	40.0	36.0	32.0				
			160	18.31	45.0	40.5	36.0				
			170	16.48	50.0	45.0	40.0				
			180	128.80	10.0	9.0	8.0				
			190	117.09	11.0	9.9	8.8				
60	35	35	120	107.33	12.0	1288	10.8	1159	9.6	1030	
			130	99.08	13.0	11.7	10.4				
			140	92.00	14.0	12.6	11.2				
			150	85.87	15.0	13.5	12.0				
			160	80.50	16.0	14.4	12.8				
			170	71.56	18.0	16.2	14.4				
			180	64.40	20.0	18.0	16.0				
			190	51.52	25.0	22.5	20.0				
			200	42.93	30.0	27.0	24.0				
			210	36.80	35.0	31.5	28.0				
70	45	45	150	32.20	40.0	1288	36.0	1159	32.0	1030	
			160	28.62	45.0	40.5	36.0				
			170	25.76	50.0	45.0	40.0				
			180	23.42	55.0	49.5	44.0				
			190	21.47	60.0	54.0	48.0				

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