

TF 较轻负荷 LIGHTER LOAD

黄色 YELLOW

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
		TF6x3x10	11.76	3.6	42.3	4	47.6	4.5	52.9
15	7.85	5.4	6.1	6.8		7.7			
20	5.88	7.2	8.1	9		10.2			
25	4.71	9	10.1	11.3		12.8			
30	3.92	10.8	12.2	13.5		15.3			
35	3.36	12.6	14.2	15.8		17.9			
40	2.94	14.4	16.2	18		20.4			
45	2.61	16.2	18.2	20.3		23			
50	2.35	18	20.3	22.5		25.5			
55	2.14	19.8	22.3	24.8		28.1			
60	1.96	21.6	24.3	27		30.6			
TF8x4x10	15.24	3.6	52.9	4	61.7	4.5	70.7	5.1	80.1
15	10.16	5.4		6.1		6.8		7.7	
20	7.62	7.2		8.1		9		10.2	
25	6.1	9		10.1		11.3		12.8	
30	5.08	10.8		12.2		13.5		15.3	
35	4.36	12.6		14.2		15.8		17.9	
40	3.18	14.4		16.2		18		20.4	
45	3.39	16.2		18.2		20.3		23	
50	3.05	18		20.3		22.5		25.5	
55	2.77	19.8		22.3		24.8		28.1	
60	2.54	21.6		24.3		27		30.6	
70	2.18	25.2		28.4		31.5		35.7	
80	1.91	28.8		32.4		36		40.8	

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尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TF14x7x20	17.43	7.2	128	8.1	141.2	9	158.9	10.2	180
x25	14.12	9	128	10.1	141.2	11.3	158.9	12.8	180
30	11.77	10.8		12.2		13.5		15.3	
35	10.1	12.6		14.2		15.8		17.9	
40	8.83	14.4		16.2		18		20.4	
45	7.85	16.2		18.2		20.3		23	
50	7.06	18		20.3		22.5		25.5	
55	6.37	19.8		22.3		24.8		28.1	
60	5.88	21.6		24.3		27		30.6	
65	5.39	23.4		26.3		29.3		33.2	
70	5	25.2		28.4		31.5		35.7	
75	4.71	27		30.4		33.8		38.3	
80	4.41	28.8		32.4		36		40.8	
90	3.92	32.4		36.5		40.5		45.9	
100	3.49	36		40.5		45		51	
300	1.16	108		121.5		135		153	
TF16x8x25	16.48	9		150		10.1		167.7	
30	13.73	10.8	12.2		13.5	15.3			
35	11.77	12.6	14.2		15.8	17.9			
40	10.3	14.4	16.2		18	20.4			
45	9.22	16.2	18.2		20.3	23			
50	8.24	18	20.3		22.5	25.5			
55	7.55	19.8	22.3		24.8	28.1			
60	6.86	21.6	24.3		27	30.6			
65	6.37	23.4	26.3		29.3	33.2			
70	5.88	25.2	28.4		31.5	35.7			
75	5.49	27	30.4		33.8	38.3			
80	5.2	28.8	32.4		36	40.8			
90	4.61	32.4	36.5		40.5	45.9			
100	4.12	36	40.5		45	51			
300	1.38	108	121.5		135	153			

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黄色 YELLOW

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TF20x11x100	6.28	36	229.5	40.5	256.0	45	282.4	51	320
125	5	45		50.6		56.3		63.8	
150	4.22	54		60.8		67.5		76.5	
300	2.11	108		121.5		135		153	
TF22x11x25	31.38	9	282.4	10.1	317.7	11.3	353.1	12.8	400.1
30	26.18	10.8		12.2		13.5		15.3	
35	22.46	12.6		14.2		15.8		17.9	
40	19.61	14.4		16.2		18		20.4	
45	17.46	16.2		18.2		20.3		23	
50	15.69	18		20.3		22.5		25.5	
55	14.32	19.8		22.3		24.8		28.1	
60	13.04	21.6		24.3		27		30.6	
70	11.18	25.2		28.4		31.5		35.7	
80	9.81	28.8		32.4		36		40.8	
90	8.73	32.4		36.5		40.5		45.9	
100	7.85	36		40.5		45		51	
125	6.28	45		50.6		56.3		63.8	
150	5.2	54		60.8		67.5		76.5	
300	2.61	108		121.5		135		153	
TF25X13.5X25	39.23	9		353.1		10.1		397.2	
30	32.67	10.8	12.2		13.5	15.3			
35	27.95	12.6	14.2		15.8	17.9			
40	24.52	14.4	16.2		18	20.4			
45	21.77	16.2	18.2		20.3	23			
50	19.61	18	20.3		22.5	25.5			
55	17.85	19.8	22.3		24.8	38.1			
60	16.38	21.6	24.3		27	30.6			
65	15.1	23.4	26.3		29.3	33.2			
70	14.02	25.2	28.4		31.5	35.7			
75	13.04	27	30.4	33.8	38.3				
80	12.26	28.8	32.4	36	40.8				

TF 较轻负荷 LIGHTER LOAD

黄色 YELLOW

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TF25X13.5X90	10.89	32.4	353.1	36.5	397.2	40.5		45.9	
100	9.81	36		40.5		45		51	
125	7.85	45		50.6		56.3		63.8	
150	6.57	54		60.8		67.5		76.5	
175	5.59	63		70.9		78.8		89.3	
200	4.9	72		81		90		102	
250	3.92	90		101.3		112.5		127.5	
300	3.24	108		121.5		135		153	
TF27x13.5x25	47.07	9	423.6	10.1	476.6	11.3	529.6	12.8	600.2
30	39.22	10.8		12.2		13.5		15.3	
35	33.64	12.6		14.2		15.8		17.9	
40	29.42	14.4		16.2		18		20.4	
45	26.18	16.2		18.2		20.3		23	
50	23.54	18		20.3		22.5		25.5	
60	19.61	21.6		24.3		27		30.6	
70	16.77	25.2		28.4		31.5		35.7	
80	14.7	28.8		32.4		36		40.8	
90	13.04	32.4		36.5		40.5		45.9	
100	11.77	36		40.5		45		51	
125	9.41	45		50.6		56.3		63.8	
150	7.85	54		60.8		67.5		76.5	
175	6.77	63		70.9		78.8		89.3	
200	5.88	72		81		90		102	
250	4.71	90		101.3		112.5		127.5	
300	3.92	108	121.5	135	153				

TF 较轻负荷 LIGHTER LOAD

黄色 YELLOW

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TF30x16x25	56.88	9		10.1		11.3		12.8	
30	47.07	10.8	511.9	12.2	573.7	13.5	635.5	15.3	720.2
TF30x16x35	40.5	12.6	511.9	14.2	573.7	15.8	635.5	17.9	720.2
40	35.3	14.4		16.2		18		20.4	
45	31.48	16.2		18.2		20.3		23	
50	28.24	18		20.3		22.5		25.5	
55	25.79	19.8		22.3		24.8		28.1	
60	23.54	21.6		24.3		27		30.6	
65	21.77	23.4		26.3		29.3		33.2	
70	20.1	25.2		28.4		31.5		35.7	
75	18.93	27		30.4		33.8		38.3	
80	17.65	28.8		32.4		36		40.8	
90	15.69	32.4		36.5		40.5		45.9	
100	14.12	36		40.5		45		51	
125	11.28	45		50.6		56.3		63.8	
150	9.41	54		60.8		67.5		76.5	
175	8.04	63		70.9		78.8		89.3	
200	7.06	72	81	90	102				
250	5.699	90	101.3	112.5	127.5				
300	4.71	108	121.5	135	153				
TF35x19x40	48.05	14.4	688.4	16.2	776.7	18	865	20.4	980.3
45	42.76	16.2		18.2		20.3		23	
50	38.44	18		20.3		22.5		25.5	
55	34.91	19.8		22.3		24.8		28.1	
60	31.97	21.6		24.3		27		30.6	
65	29.62	23.4		26.3		29.3		33.2	
70	27.46	25.2		28.4		31.5		35.7	
75	25.6	27		30.4		33.8		38.3	
80	24.03	28.8		32.4		36		40.8	

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尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TF35X19X90	21.28	32.4		36.5		40.5		45.9	
100	19.22	36		40.5		45		51	
125	15	45		50.6		56.3		63.8	
150	12.75	54		60.8		67.5		76.5	
175	10.98	63		70.9		78.8		89.3	
200	9.61	72		81		90		102	
250	7.65	90		101.3		112.5		127.5	
300	6.37	108		121.5		135		153	
TF40x22x50	62.57	14.4		16.2		18		20.4	
50	50.21	18		20.3		22.5		25.5	
60	41.78	21.6		24.3		27		30.6	
70	35.79	25.2		28.4		31.5		35.7	
80	31.38	28.8		32.4		36		40.8	
90	27.85	32.4		36.5		40.5		45.9	
100	25.11	36	900.3	40.5	1015	45	1129.8	51	1280.4
125	20.01	45		50.6		56.3		63.8	
150	16.67	54		60.8		67.5		76.5	
175	14.32	63		70.9		78.8		89.3	
200	12.55	72		81		90		102	
250	10	90		101.3		112.5		127.5	
300	8.34	108		121.5		135		153	
TF45x25.5x50	62.96	18		20.3		22.5		25.5	
60	52.47	21.6		24.3		27		30.6	
70	44.97	25.2		28.4		31.5		35.7	
80	39.35	28.8		32.4		36		40.8	
90	34.98	32.4		36.5		40.5		45.9	
100	31.48	36	1133.3	40.5	1274.9	45	1414.6	51	1605.1
125	25.18	45		50.6		56.3		63.8	
150	20.99	54		60.8		67.5		76.5	
175	17.99	63		70.9		78.8		89.3	
200	15.74	72		81		90		102	

TF 较轻负荷 LIGHTER LOAD		黄色 YELLOW											
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)					
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N				
TF45x25.5x250	12.95	90	1133.3	101.3	1274.9	112.5	1414.6	127.5	1605.1				
300	10.49	108		121.5		135		153					
TF50x27.5x50	78.45	18	1412.2	20.3	1588.7	22.5	1765.2	25.5	2000.5				
60	65.31	21.6		24.3		27		30.6					
70	56	25.2		28.4		31.5		35.7					
80	49.03	28.8		32.4		36		40.8					
90	43.54	32.4		36.5		40.5		45.9					
100	39.23	36		40.5		45		51					
125	31.38	45		50.6		56.3		63.8					
150	26.09	54		60.8		67.5		76.5					
175	22.36	63		70.9		78.8		89.3					
200	19.61	72		81		90		102					
250	15.69	90		101.3		112.5		127.5					
300	13.04	108		121.5		135		153					
TF55x30.5x50	89.71	18		1614.8		20.3		1816.7		22.5	2018.5	25.5	2287.7
60	74.75	21.6				24.3				27		30.6	
70	64.07	25.2	28.4		31.5	35.7							
80	56.06	28.8	32.4		36	40.8							
90	49.83	32.4	36.5		40.5	45.9							
100	44.85	36	40.5		45	51							
125	35.88	45	50.6		56.3	63.8							
150	29.9	54	60.8		67.5	76.5							
175	25.63	63	70.9		78.8	89.3							
200	22.42	72	81		90	102							
250	17.94	90	101.3		112.5	127.5							
300	14.95	108	121.5		135	153							
TF60x33x60	94.05	21.6	2030		24.3	2285.9	27		2541.9	30.6		2880.8	
70	80.61	25.2			28.4		31.5			35.7			
80	70.51	28.8		32.4	36		40.8						
90	62.76	32.4		36.5	40.5		45.9						
100	56.49	36		40.5	45		51						
125	45.11	45		50.6	56.3		63.8						

TF 较轻负荷 LIGHTER LOAD

黄色 YELLOW

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TF60X33X150	37.66	54		60.8		67.5		76.5	
175	32.26	63		70.9		78.8		89.3	
200	28.24	72		81		90		102	
250	22.55	90		101.3		112.5		127.5	
300	18.83	108		121.5		135		153	
TF65x35.5x60	109.63	21.6		24.3		27		30.6	
70	94.14	25.2		28.4		31.5		35.7	
80	82.38	28.8		32.4		36		40.8	
90	73.22	32.4		36.5		40.5		45.9	
100	65.9	36	2372.4	40.5	2669	45	2965.5	51	3360.9
125	52.72	45		50.6		56.3		63.8	
150	43.93	54		60.8		67.5		76.5	
175	37.66	63		70.9		78.8		89.3	
200	32.95	72		81		90		102	
250	26.36	90		101.3		112.5		127.5	
300	21.97	108		121.5		135		153	
TF70x38.5x70	111.96	25.2		28.4		31.5		35.7	
80	97.97	28.8		32.4		36		40.8	
90	87.08	32.4		36.5		40.5		45.9	
100	78.38	36		40.5		45		51	
125	62.7	45	2821.5	50.6	3174.2	56.3	3526.9	63.8	3997.2
150	52.25	54		60.8		67.5		76.5	
175	44.79	63		70.9		78.8		89.3	
200	39.19	72		81		90		102	
250	31.35	90		101.3		112.5		127.5	
300	26.13	108		121.5		135		153	

TL 轻负荷 LIGHT LOAD		蓝色 BLUE							
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TL6x3x10	19.62	2.9	56.5	3.2	63.6	3.6	70.7	4.1	80.1
15	13.04	4.3		4.9		5.4		6.1	
20	9.81	5.8		6.5		7.2		8.2	
25	7.85	7.2		8.1		9		10.2	
30	6.57	8.6		9.7		10.8		12.2	
35	5.59	10.1		11.3		12.6		14.3	
40	4.9	11.5		13		14.4		16.3	
45	4.36	13		14.6		16.2		18.4	
50	3.93	14.4		16.2		18		20.4	
55	3.57	15.8		17.8		19.8		22.4	
60	3.27	17.3		19.4		21.6		24.5	
TL8x4x10	24.53	2.9		70.7		3.2		79.5	
15	16.53	4.3	4.9		5.4	6.1			
20	12.26	5.8	6.5		7.2	8.2			
25	9.81	7.2	8.1		9	10.2			
30	8.18	8.6	9.7		10.8	12.2			
35	7.01	10.1	11.3		12.6	14.3			
40	6.13	11.5	13		14.4	16.3			
45	5.45	13	14.6		16.2	18.4			
50	4.91	14.4	16.2		18	20.4			
55	4.46	15.8	17.8		19.8	22.4			
60	4.09	17.3	19.4		21.6	24.5			
70	3.5	20.2	22.7		25.2	28.6			
80	3.07	23	25.9	28.8	32.6				
TL10x5x15	23.61	4.3	101.5	4.9	114.8	5.4	128	6.1	145
20	17.75	5.8		6.5		7.2		8.2	
25	14.22	7.2		8.1		9		10.2	
30	11.87	8.6		9.7		10.8		12.2	
35	10.1	10.1		11.3		12.6		14.3	
40	8.83	11.5		13		14.4		16.3	
45	7.85	13		14.6		16.2		18.4	
50	7.16	14.4		16.2		18		20.4	

TL 轻负荷 LIGHT LOAD			蓝色 BLUE						
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TL10X5X55	6.47	15.8		17.8		19.8		22.4	
60	5.88	17.3		19.4		21.6		24.5	
65	5.39	18.7		21.1		23.4		26.5	
70	5	20.2		22.7		25.2		28.6	
75	4.71	21.6		24.3		27		30.6	
80	4.41	23		25.9		28.8		32.6	
90	3.94	25.9		29.2		32.4		36.7	
100	3.54	28.8		32.4		36		40.8	
300	1.18	86.4		97.2		108		122.4	
TL12x6x20	25.79	5.8		6.5		7.2		8.2	
25	20.59	7.2		8.1		9		10.2	
30	17.16	8.6		9.7		10.8		12.2	
35	14.71	10.1		11.3		12.6		14.3	
40	12.94	11.5		13		14.4		16.3	
45	11.47	13		14.6		16.2		18.4	
50	10.3	14.4		16.2		18		20.4	
55	9.41	15.8	150	17.8	167.7	19.8	185.4	22.4	210.1
60	8.63	17.3		19.4		21.6		24.5	
65	7.94	18.7		21.1		23.4		26.5	
70	7.35	20.2		22.7		25.2		28.6	
70	6.86	21.6		24.3		27		30.6	
80	6.47	23		25.9		28.8		32.6	
90	5.75	25.9		29.2		32.4		36.7	
100	5.18	28.8		32.4		36		40.8	
300	1.73	86.4		97.2		108		122.4	
TL14x7x20	34.1	5.8	194.4	6.5	221	7.2	247.5	8.2	280.5
x25	27.46	7.2		8.1		9		10.2	
30	22.95	8.6		9.7		10.8		12.2	
35	19.61	10.1		11.3		12.6		14.3	
40	17.16	11.5		13		14.4		16.3	
45	15.3	13		14.6		16.2		18.4	
50	13.73	14.4		16.2		18		20.4	

TL 轻负荷 LIGHT LOAD			蓝色 BLUE						
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TL14X7X55	12.45	15.8	194.4	17.8	221	19.8	247.5	22.4	280.5
60	11.47	17.3		19.4		21.6		24.5	
65	10.59	18.7		21.1		23.4		26.5	
70	9.81	20.2		22.7		25.5		28.6	
75	9.12	21.6		24.3		27		30.6	
80	8.53	23		25.9		28.8		32.6	
90	7.55	25.9		29.2		32.4		36.7	
100	6.82	28.8		32.4		36		40.8	
300	2.27	86.4		97.2		108		122.4	
TL16x8x25	34.32	7.2		247.5		8.1		282.6	
30	28.64	8.6	9.7		10.8	12.2			
35	24.52	10.1	11.3		12.6	14.3			
40	21.48	11.5	13		14.4	16.3			
45	19.12	13	14.6		16.2	18.4			
50	17.16	14.4	16.2		18	20.4			
55	15.69	15.8	17.8		19.8	22.4			
60	14.32	17.3	19.4		21.6	24.5			
65	13.24	18.7	21.1		23.4	26.5			
70	12.26	20.2	22.7		25.5	28.6			
75	11.47	21.6	24.3		27	30.6			
80	10.79	23	25.9		28.8	32.6			
90	9.61	25.9	29.2		32.4	36.7			
100	8.63	28.8	32.4		36	40.8			
300	2.87	86.4	97.2	108	122.4				
TL18x9x25	42.17	7.2	299.7	8.1	343.8	9	379.8	10.2	430.4
30	35.11	8.6		9.7		10.8		12.2	
35	30.11	10.1		11.3		12.6		14.3	
40	26.38	11.5		13		14.4		16.3	
45	23.44	13		14.6		16.2		18.4	
50	21.08	14.4		16.2		18		20.4	
55	19.22	15.8		17.8		19.8		22.4	
60	17.55	17.3		19.4		21.6		24.5	

TL 轻负荷 LIGHT LOAD		蓝色 BLUE							
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TL18X9X65	16.28	18.7		21.1		23.4		26.5	
70	15.1	20.2		22.7		25.5		28.6	
75	14.12	21.6		24.3		27		30.6	
80	13.24	23		25.9		28.8		32.6	
90	11.77	25.9		29.2		32.4		36.7	
100	10.49	28.8		32.4		36		40.8	
300	3.5	86.4		97.2		108		122.4	
TL20x10x25	52.96	7.2		8.1		9		10.2	
30	44.13	8.6		9.7		10.8		12.2	
35	37.85	10.1		11.3		12.6		14.3	
40	33.15	11.5		13		14.4		16.3	
45	29.42	13		14.6		16.2		18.4	
50	26.48	14.4		16.2		18		20.4	
55	24.03	15.8	379.5	17.8	428.1	19.8	476.6	22.4	540.2
60	22.06	17.3		19.4		21.6		24.5	
65	20.4	18.7		21.1		23.4		26.5	
70	18.93	20.2		22.7		25.5		28.6	
75	17.65	21.6		24.3		27		30.6	
80	16.57	23		25.9		28.8		32.6	
90	14.71	25.9		29.2		32.4		36.7	
TL20x10x100	13.24	28.8		32.4		36		40.8	
125	10.59	36		40.5		45		51	
150	8.73	43.2	379.5	48.6	428.1	54	476.6	61.2	540.2
300	4.41	86.4		97.2		108		122.4	
TL22x11x25	65.7	7.2		8.1		9		10.2	
30	54.92	8.6		9.7		10.8		12.2	
35	47.07	10.1		11.3		12.6		14.3	
40	41.19	11.5		13		14.4		16.3	
45	36.48	13		14.6		16.2		18.4	
50	32.85	14.4		16.2		18		20.4	
55	29.91	15.8		17.8		19.8		22.4	
60	27.46	17.3	476.6	19.4	529.8	21.6	591.3	24.5	670.14

TL 轻负荷 LIGHT LOAD		蓝色 BLUE							
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TL22X11X70	23.54	20.2		22.7		25.2		28.6	
80	20.59	23		25.9		28.8		32.6	
90	18.24	25.9		29.2		32.4		36.7	
100	16.48	28.8		32.4		36		40.8	
125	13.14	36		40.5		45		51	
150	10.98	43.2		48.6		54		61.2	
300	5.52	86.4		97.2		108		122.4	
TL25x12.5x25	82.38	7.2		8.1		9		10.2	
30	68.65	8.6		9.7		10.8		12.2	
35	58.84	10.1		11.3		12.6		14.3	
40	51.48	11.5		13		14.4		16.3	
45	45.8	13		14.6		16.2		18.4	
50	41.19	14.4		16.2		18		20.4	
55	37.46	15.8		17.8		19.8		22.4	
60	34.32	17.3		19.4		21.6		24.5	
65	31.68	18.7		21.1		23.4		26.5	
70	29.42	20.2	591.4	22.7	666.4	25.2	741.4	28.6	840.3
70	27.46	21.6		24.3		27		30.6	
80	25.79	23		25.9		28.8		32.6	
90	22.85	25.9		29.2		32.4		36.7	
100	20.59	28.8		32.4		36		40.8	
125	16.48	36		40.5		45		51	
150	13.73	43.2		48.6		54		61.2	
175	11.77	50.4		56.7		63		71.4	
200	10.3	57.6		64.8		72		81.6	
250	8.24	72		81		90		102	
300	6.86	86.4		97.2		108		122.4	
TL27x13.5x25	98.1	7.2		8.1		9		10.2	
30	81.69	8.6		9.7		10.8		12.2	
35	70.02	10.1		11.3		12.6		14.3	
40	61.29	11.5		13		14.4		16.3	
45	54.52	13		14.6		16.2		18.4	

TL 轻负荷 LIGHT LOAD		蓝色 BLUE											
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)					
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N				
TL27X13.5X50	49.03	14.4	706.1	16.2	794.3	18	882.6	20.4	1000.3				
60	40.89	17.3		19.4		21.6		24.5					
70	35.01	20.2		22.7		25.2		28.6					
80	30.69	23		25.9		28.8		32.6					
90	27.26	25.9		29.2		32.4		36.7					
100	24.52	28.8		32.4		36		40.8					
125	19.61	36		40.5		45		51					
150	16.38	43.2		48.6		54		61.2					
175	14.02	50.4		56.7		63		71.4					
200	12.26	57.6		64.8		72		81.6					
250	9.81	72		91		90		102					
300	8.17	86.4		97.2		108		122.4					
TL30x15x25	109.93	7.2		856.2		8.1		962		9	1067.9	10.2	1210.3
30	98.85	8.6				9.7				10.8		12.2	
35	84.83	10.1	856.2	11.3	962	12.6	1067.9	14.3	1210.3				
40	74.14	11.5		13		14.4		16.3					
45	66	13		14.6		16.2		18.4					
50	59.33	14.4		16.2		18		20.4					
55	53.94	15.8		17.8		19.8		22.4					
60	49.43	17.3		19.4		21.6		24.5					
65	45.6	18.7		21.1		23.4		26.5					
70	42.36	20.2		22.7		25.2		28.6					
75	43.15	21.6		24.3		27		30.6					
80	37.07	23		25.9		28.8		32.6					
90	32.95	25.9		29.2		32.4		36.7					
100	24.62	28.8		32.4		36		40.8					
125	23.73	36		40.5		45		51					
150	19.71	43.2		48.6		54		61.2					
175	16.87	50.4	56.7	63	71.4								
200	14.81	57.6	64.8	72	81.6								
250	11.87	72	81	90	102								
300	9.9	86.4	97.2	108	122.4								

TL 轻负荷 LIGHT LOAD

蓝色 BLUE

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)				
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N			
TL35x17.5x40	101.11	11.5	1165.1	13	1310.7	14.4	1456.3	16.3	1650.5			
45	89.93	13		14.6		16.2		18		19.8	20.4	
50	80.9	14.4		17.8		21.6		23.4		25.2	22.4	24.5
55	73.55	15.8		19.4		27		28.8		30.6	26.5	28.6
60	67.37	17.3		21.1		32.4		32.4		36	32.6	36.7
65	62.27	18.7		22.7		40.5		36		45	40.8	51
70	57.76	20.2		24.3		48.6		45		54	51	61.2
75	53.94	21.6		25.9		56.7		54		63	61.2	71.4
80	50.5	23		29.2		64.8		63		72	71.4	81.6
90	44.91	25.9		32.4		81		72		90	81.6	102
100	40.4	28.8		36		97.2		90		108	102	122.4
125	32.36	36		40.5								
150	26.97	43.2		48.6								
175	23.05	50.4		56.7								
200	20.2	57.6		64.8								
250	16.18	72		81								
300	13.48	86.4		97.2								
TL40x20x40	132.4	11.5	1527.2	13	1716.8	14.4	1906.4	16.3	2160.6			
50	105.9	14.4		16.2		18		20.4				
60	88.26	17.3		19.4		21.6		24.5				
70	75.61	20.2		22.7		25.2		28.6				
80	66.19	23		25.9		28.8		32.6				
90	58.84	25.9		29.2		32.4		36.7				
100	52.96	28.8		32.4		396		40.8		40.8	51	
125	42.36	36		40.5		45		51		61.2	61.2	71.4
150	35.3	43.2		48.6		54		61.2		71.4	81.6	81.6
175	30.2	50.4		56.7		63		71.4		81.6	102	102
200	26.48	57.6		64.8		72		81.6		102	122.4	122.4
250	21.18	72		81								
300	17.65	86.4		97.2								

TL 轻负荷 LIGHT LOAD			蓝色 BLUE						
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TL45x25.5x50	133.7	14.4	1925.3	16.2	2165.9	18	2406.6	20.4	2727.5
60	111.42	17.3		19.4		21.6		24.5	
70	95.5	20.2		22.7		25.2		28.6	
80	83.56	23		25.9		28.8		32.6	
90	74.28	25.9		29.2		32.4		36.7	
100	66.85	28.8		32.4		36		40.8	
125	53.48	36		40.5		45		51	
150	44.57	43.2		48.6		54		61.2	
175	38.2	50.4		56.7		63		71.4	
200	33.43	57.6		64.8		72		81.6	
TL45x25.5x250	26.74	72		1925.3		81		2165.9	
300	22.28	86.4		97.2		108		122.4	
TL500x25x50	165.6	14.4	2383.02	16.2	2683.1	18	2983.2	20.4	3381
60	138.1	17.3		19.4		21.6		24.5	
70	118.4	20.2		22.7		25.2		28.6	
80	103.6	23		25.9		28.8		32.6	
90	91.97	25.9		29.2		32.4		36.7	
100	82.87	28.8		32.4		36		40.8	
125	66.29	36		40.5		45		51	
150	55.21	43.2		48.6		54		61.2	
175	47.27	50.4		56.7		63		71.4	
200	41.38	57.6		64.8		72		81.6	
250	33.15	72		81		90		102	
300	27.56	86.4	97.2	108	122.4				
TL55x30.5x50	185.86	14.4	2676.4	16.2	3011	18	3345.5	20.4	3791.5
60	154.89	17.3		19.4		21.6		24.5	
70	132.76	20.2		22.7		25.2		28.6	
80	116.16	23		25.9		28.8		32.6	
90	103.26	25.9		29.2		32.4		36.7	
100	92.93	28.8		32.4		36		40.8	
125	74.35	36		40.5		45		51	

TL 轻负荷 LIGHT LOAD			蓝色 BLUE						
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TL55X30.5X150	61.95	43.2		48.6		54		61.2	
175	53.1	50.4		56.7		63		71.4	
200	46.47	57.6		64.8		72		81.6	
250	37.17	72		81		90		102	
300	30.98	86.4		97.2		108		122.4	
TL60x30x60	198.6	17.3		19.4		21.6		24.5	
70	170.15	20.2		22.7		25.2		28.6	
80	148.9	23		25.9		28.8		32.6	
90	132.4	25.9		29.2		32.4		36.7	
100	119.2	28.8		32.4		36		40.8	
125	95.32	36	3433.3	40.5	3861.4	45	4289.4	51	4861.3
150	79.43	43.2		48.6		54		61.2	
175	63.15	50.4		56.7		63		71.4	
200	59.53	57.6		64.8		72		81.6	
250	47.66	72		81		90		102	
300	39.72	86.4		97.2		108		122.4	
TL65x35.5x60	218.73	17.3		19.4		21.6		24.5	
70	187.49	20.2		22.7		25.2		28.6	
80	164.05	23		25.9		28.8		32.6	
90	145.82	25.9		29.2		32.4		36.7	
100	131.24	28.8		32.4		36		40.8	
125	104.99	36	3779.4	40.5	4252.1	45	4724.6	51	5354.6
150	87.49	43.2		48.6		54		61.2	
175	74.99	50.4		56.7		63		71.4	
200	65.62	57.6		64.8		72		81.6	
250	52.5	72		81		90		102	
300	43.75	86.4		97.2		108		122.4	
TL70x38.5x70	213.5	20.2		22.7		25.2		28.6	
80	186.8	23		25.9		28.8		32.6	
90	166.04	25.9		29.2		32.4		36.7	
100	149.44	28.8		32.4		36		40.8	
125	119.55	36	4303.8	40.5	4841.8	45	5379.8	51	6097.1
150	99.63	43.2		48.6		54		61.2	
175	85.39	50.4		56.7		63		71.4	
200	74.72	57.6		64.8		72		81.6	
250	59.78	72		81		90		102	
300	49.81	86.4		97.2		108		122.4	

TM 中负荷 MEDIUM LOAD		红色 RED							
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TM6x3x10	30.66	2.3	70.7	2.6	79.5	2.9	88.3	3.3	100
15	20.4	3.5		3.9		4.3		4.9	
20	15.3	4.6		5.2		5.8		6.5	
25	12.26	5.8		6.5		7.2		8.2	
30	10.2	6.9		7.8		8.6		9.8	
35	8.73	8.1		9.1		10.1		11.4	
40	7.65	9.2		10.4		11.5		13.1	
45	6.77	10.4		11.7		13		14.7	
50	6.18	11.5		13		14.4		16.3	
55	5.59	12.7		14.3		15.8		18	
60	5.1	13.8		15.6		17.3		19.6	
TM8x4x10	42.91	2.3		98.8		2.6		111.2	
15	28.6	3.5	3.9		4.3	4.9			
20	21.45	4.6	5.2		5.8	6.5			
25	17.16	5.8	6.5		7.2	8.2			
30	14.3	6.9	7.8		8.6	9.8			
35	12.26	8.1	9.1		10.1	11.4			
40	10.73	9.2	10.4		11.5	13.1			
45	9.53	10.4	11.7		13	14.7			
50	8.58	11.5	13		14.4	16.3			
55	7.8	12.7	14.3		15.8	18			
60	7.15	13.8	15.6		17.3	19.6			
70	6.13	16.1	18.1		20.2	22.8			
80	5.36	18.4	20.7	23	26.1				
TM10x5x15	40.86	3.5	141.2	3.9	158.9	4.3		4.9	
20	30.69	4.6		5.2		5.8		6.5	
25	24.52	5.8		6.5		7.2		8.2	
30	20.4	6.9		7.8		8.6		9.8	
35	17.46	8.1		9.1		10.1		11.4	
40	15.3	9.2		10.4		11.5		13.1	
45	13.53	10.4		11.7		13		14.7	

TM 中负荷 MEDIUM LOAD				红色 RED					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TM10X5X50	12.26	11.5	1411.2	13	158.9	14.4	176.4	16.3	199.9
55	11.08	12.7		14.3		15.8		18	
60	10.2	13.8		15.6		17.3		19.6	
65	9.41	15		16.8		18.7		21.2	
70	8.73	16.1		18.1		20.2		22.8	
75	8.14	17.3		19.4		21.6		24.5	
80	7.65	18.4		20.7		23		26.1	
90	6.77	20.7		23.3		25.9		29.4	
100	6.13	23		25.9		28.8		32.6	
300	2.06	69.1		77.8		86.4		97.9	
TM12x6x20	44.42	4.6		203		5.2		229.5	
25	35.5	5.8	6.5		7.2	8.2			
30	29.62	6.9	7.8		8.6	9.8			
35	25.3	8.1	9.1		10.1	11.4			
40	21.57	9.2	10.4		11.5	13.1			
45	19.71	10.4	11.7		13	14.7			
50	17.75	11.5	13		14.4	16.3			
55	16.08	12.7	14.3		15.8	18			
60	14.81	13.8	15.6		17.3	19.6			
65	13.63	15	16.8		18.7	21.2			
70	12.65	16.1	18.1		20.2	22.8			
75	11.77	17.3	19.4	21.6	24.5				
80	11.08	18.4	20.7	23	26.1				
90	9.9	20.7	23.3	25.9	29.4				
100	8.83	23	25.9	28.8	32.6				
300	2.94	69.1	77.8	86.4	97.9				
TM14x7x20	59.58	4.6	273.6	5.2	308.9	5.8	344.3	6.5	390.2

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TM18x9x30	66.39	6.9	459	7.8	511.9	8.6	573.7	9.8	650.1
35	56.88	8.1		9.1		10.1		11.4	
40	49.72	9.2		10.4		11.5		13.1	
45	44.23	10.4		11.7		13		14.7	
50	39.81	11.5		13		14.4		16.3	
55	36.19	12.7		14.3		15.8		18	
60	33.15	13.8		15.6		17.3		19.6	
65	30.6	15		16.8		18.7		21.2	
70	28.44	16.1		18.1		20.2		22.8	
75	25.5	17.3		19.4		21.6		24.5	
80	24.81	18.4		20.7		23		26.1	
90	22.56	20.7		23.3		25.9		29.4	
100	19.91	23		25.9		28.8		32.6	
300	6.67	69.1		77.8		86.4		97.9	
TM20x10x25	98.1	5.8		564.8		6.5		635.5	
30	81.69	6.9	7.8		8.6	9.8			
35	70.02	8.1	9.1		10.1	11.4			
40	61.29	9.2	10.4		11.5	13.1			
45	54.43	10.4	11.7		13	14.7			
50	49.03	11.5	13		14.4	16.3			
55	44.52	12.7	14.3		15.8	18			
60	40.8	13.8	15.6		17.3	19.6			
65	37.66	15	16.8		18.7	21.2			
70	35.01	16.1	18.1		20.2	22.8			
75	32.36	17.3	19.4		21.6	24.5			
80	30.6	18.4	20.7	23	26.1				
90	27.16	20.7	23.3	25.9	29.4				
TM20x10x100	24.52	23	564.8	25.9	635.5	28.8	706.1	32.6	800.2
125	19.61	28.8		32.4		36		40.8	
150	16.38	34.6		38.9		43.2		49	
300	8.14	69.1		77.8		86.4		97.9	

TM 中负荷 MEDIUM LOAD		红色 RED							
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
30	99.05	6.9	679.6	7.8	767.9	8.6	856.2	9.8	970.3
35	85.32	8.1		9.1		10.1		11.4	
40	74.24	9.2		10.4		11.5		13.1	
45	64.72	10.4		11.7		13		14.7	
50	59.43	11.5		13		14.4		16.3	
55	53.94	12.7		14.3		15.8		18	
60	49.52	13.8		15.6		17.3		19.6	
70	42.46	16.1		18.1		20.2		22.8	
80	37.06	18.4		20.7		23		26.1	
90	32.95	20.7		23.3		25.9		29.4	
100	29.71	23		25.9		28.8		32.6	
125	23.73	28.8		32.4		36		40.8	
150	19.81	34.6		38.9		43.2		49	
300	9.9	69.1		77.8		86.4		97.9	
TM25x12.5x25	152	5.8		882.6		6.5		988.5	
30	127.7	6.9	7.8		8.6	9.8			
35	109.8	8.1	9.1		10.1	11.4			
40	95.71	9.2	10.4		11.5	13.1			
45	84.34	10.4	11.7		13	14.7			
50	76.59	11.5	13		14.4	16.3			
55	68.65	12.7	14.3		15.8	18			
60	63.84	13.8	15.6		17.3	19.6			
65	57.86	15	16.8		18.7	21.2			
70	54.72	16.1	18.1		20.2	22.8			
75	50.01	17.3	19.4		21.6	24.5			
80	47.86	18.4	20.7		23	26.1			
90	42.56	20.7	23.3		25.9	29.4			
100	38.25	23	25.9		28.8	32.6			
125	30.6	28.8	32.4		36	40.8			
150	25.5	34.6	38.9	43.2	49				
175	21.87	40.3	45.4	50.4	57.1				

TM 中负荷 MEDIUM LOAD				红色 RED					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TM25X12.5X250	15.3	57.6		64.8		72		81.6	
300	12.75	69.1		77.8		86.4		97.9	
TM27x13.5x25	177.5	5.8	1032.3	6.5	1156.2	7.2	1288.6	8.2	1460.4
30	149.1	6.9		7.8		8.6		9.8	
35	128.5	8.1		9.1		10.1		11.4	
40	111.8	9.2		10.4		11.5		13.1	
45	98.1	10.4		11.7		13		14.7	
50	89.44	11.5		13		14.4		16.3	
60	74.53	13.8		15.6		17.3		19.6	
70	63.84	16.1		18.1		20.2		22.8	
80	55.9	18.4		20.7		23		26.1	
90	49.62	20.7		23.3		25.9		29.4	
100	44.72	23		25.9		28.8		32.6	
125	35.79	28.8		32.4		36		40.8	
150	29.81	34.6		38.9		43.2		49	
175	25.6	40.3		45.4		50.4		57.1	
200	22.36	46.1		51.8		57.6		65.3	
250	17.65	57.6		64.8		72		81.6	
300	19.41	69.1	77.8	86.4	97.9				
TM30x15x25	281.7	5.8	1271	6.5	1421	7.2	1588.7	8.2	1800.5
30	183.9	6.9		7.8		8.6		9.8	
35	157.9	8.1	1271	9.1	1421	10.1	1588.7	11.4	1800.5
40	137.9	9.2		10.4		11.5		13.1	
45	120.6	10.4		11.7		13		14.7	
50	110.3	11.5		13		14.4		16.3	
55	99.05	12.7		14.3		15.8		18	
60	91.89	13.8		15.6		17.3		19.6	
65	84.34	15		16.8		18.7		21.2	
70	78.75	16.1		18.1		20.2		22.8	
75	72.57	17.3		19.4		21.6		24.5	
80	68.94	18.4		20.7		23		26.1	

TM 中负荷 MEDIUM LOAD				红色 RED					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TM30X15X100	55.11	23		25.9		28.8		32.6	
125	44.13	28.8		32.4		36		40.8	
150	36.77	34.6		38.9		43.2		49	
175	31.48	40.3		45.4		50.4		57.1	
200	27.56	46.1		51.8		57.6		65.3	
250	22.06	57.6		64.8		72		81.6	
300	18.44	69.1		77.8		86.4		97.9	
TM35x17.5x40	187.7	9.2		10.4		11.5		13.1	
45	166.8	10.4		11.7		13		14.7	
50	150.14	11.5		13		14.4		16.3	
55	136.5	12.7		14.3		15.8		18	
60	125.1	13.8		15.6		17.3		19.6	
65	115.4	15		16.8		18.7		21.2	
70	107.2	16.1		18.1		20.2		22.8	
75	100	17.3		19.4		21.6		24.5	
80	93.85	18.4	1721.1	20.7	1941.8	23	2162.3	26.1	2450.7
90	83.36	20.7		23.3		25.9		29.4	
100	75.02	23		25.9		28.8		32.6	
125	60.11	28.8		32.4		36		40.8	
150	50.01	34.6		38.9		43.2		49	
175	42.86	40.3		45.4		50.4		57.1	
200	37.46	46.1		51.8		57.6		65.3	
250	29.91	57.6		64.8		72		81.6	
300	25.01	69.1		77.8		86.4		97.9	
TM40x20x40	245.4	9.2		10.4		11.5		13.1	
50	196.1	11.5		13		14.4		16.3	
60	162.8	13.8		15.6		17.3		19.6	
70	140	16.1		18.1		20.2		22.8	
80	122.6	18.4		20.7		23		26.1	
900	109	20.7	2259.5	23.3	2541.9	25.9	2824.3	29.4	3200.9
100	98.1	23		25.9		28.8		32.6	

TM 中负荷 MEDIUM LOAD		红色 RED							
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
150	65.31	34.6		38.9		43.2		49	
175	56	40.3		45.4		50.4		57.1	
200	49.03	46.1		51.8		57.6		65.3	
250	39.23	57.6		64.8		72		81.6	
300	32.66	69.1		77.8		86.4		97.9	
TM45x22.5x50	234.68	11.5		13		14.4		16.3	
60	195.57	13.8		15.6		17.3		19.6	
70	167.63	16.1		18.1		20.2		22.8	
80	146.67	18.4		20.7		23		26.1	
90	130.38	20.7	2703.5	23.3	3041.5	25.9	3379.4	29.4	3830
100	117.34	23		25.9		28.8		32.6	
125	93.87	28.8		32.4		36		40.8	
150	78.23	34.6		38.9		43.2		49	
175	67.05	40.3		45.4		50.4		57.1	
200	58.67	46.1		51.8		57.6		65.3	
TM45x22.5x250	46.94	57.6		64.8		72		81.6	
300	39.11	69.1		77.8		86.4		97.9	
TM50x25x50	306.5	11.5		13		14.4		16.3	
60	255.4	13.8		15.6		17.3		19.6	
70	218.9	16.1		18.1		20.2		22.8	
80	191.5	18.4		20.7		23		26.1	
90	170.2	20.7		23.3		25.9		29.4	
100	153.2	23		25.9		28.8		32.6	
125	122.6	28.8	3530.4	32.4	3971.7	36	4413	40.8	5001.4
150	102.1	34.6		38.9		43.2		49	
175	87.48	40.3		45.4		50.4		57.1	
200	76.59	46.1		51.8		57.6		65.3	
250	61.29	57.6		64.8		72		81.6	
300	50.99	69.1		77.8		86.4		97.9	
TM55x27.5x50	350.44	11.5		13		14.4		16.3	
60	292.03	13.8		15.6		17.3		19.6	
70	250.31	16.1		18.1		20.2		22.8	

TM 中负荷 MEDIUM LOAD		红色 RED							
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TM55x27.5x80	219.02	18.4	4037	20.7	4541.7	23	5046.3	26.1	5719
90	194.69	20.7		23.3		25.9		29.4	
100	175.22	23		25.9		28.8		32.6	
125	140.18	28.8		32.4		36		40.8	
150	116.81	34.6		38.9		43.2		49	
175	100.13	40.3		45.4		50.4		57.1	
200	87.61	46.1		51.8		57.6		65.3	
250	70.09	57.6		64.8		72		81.6	
300	58.41	69.1		77.8		86.4		97.9	
TM60x30x60	366.8	13.8		5074.9		15.6		5719.2	
70	314.8	16.1	18.1		20.2	22.8			
80	275.8	18.4	20.7		23	26.1			
90	245.2	20.7	23.3		25.9	29.4			
100	220.6	23	25.9		28.8	32.6			
125	176.5	28.8	32.4		36	40.8			
150	147.1	34.6	38.9		43.2	49			
175	126	40.3	45.4		50.4	57.1			
200	110.3	46.1	51.8		57.6	65.3			
250	88.26	57.6	64.8		72	81.6			
300	73.55	69.1	77.8	86.4	97.9				
TM65x32.5x60	399.17	13.8	5518.1	15.6	6207.8	17.3	689.6	19.6	7817.3
70	342.14	16.1		18.1		20.2		22.8	
80	299.38	18.4		20.7		23		26.1	
90	266.11	20.7		23.3		25.9		29.4	
100	239.5	23		25.9		28.8		32.6	
125	191.6	28.8		32.4		36		40.8	
150	159.67	34.6		38.9		43.2		49	
175	136.86	40.3		45.4		50.4		57.1	
200	119.75	46.1		51.8		57.6		65.3	
250	95.8	57.6		64.8		72		81.6	
300	79.83	69.1	77.8	86.4	97.9				

TM 中负荷 MEDIUM LOAD				红色 RED					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TM70x38.5x70	371.65	16.1	5994	18.1	6743.3	20.2	7492.5	22.8	8491.5
80	325.2	18.4		20.7		23		26.1	
90	289.06	20.7		23.3		25.9		29.4	
100	260.16	23		25.9		28.8		32.6	
125	208.13	28.8		32.4		36		40.8	
150	173.44	34.6		38.9		43.2		49	
175	148.66	40.3		45.4		50.4		57.1	
200	130.08	46.1		51.8		57.6		65.3	
250	104.06	57.6		64.8		72		81.6	
300	86.72	69.1		77.8		86.4		97.9	

TH 重负荷 HEAVY LOAD				绿色 GREEN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TH6x3x10	57.2	1.7	98.8	1.9	111.2	2.2	123.6	2.4	140
15	38.15	2.6		2.9		3.2		3.7	
20	28.64	3.5		3.9		4.3		4.9	
25	22.85	4.3		4.9		5.4		6.1	
30	19.02	5.2		5.8		6.5		7.3	
35	16.38	6		6.8		7.6		8.6	
40	14.32	6.9		7.8		8.7		9.8	
45	12.75	7.8		8.7		9.7		11	
50	11.47	8.6		9.7		10.8		12.2	
55	10.4	9.5		10.7		11.9		13.5	
60	9.51	10.4		11.7		13		14.7	
TH8x4x10	86.25	1.7		150		1.9		167.7	
15	57.5	2.6	2.9		3.2	3.7			
20	43.13	3.5	3.9		4.3	4.9			
25	34.5	4.3	4.9		5.4	6.1			
30	28.75	5.2	5.8		6.5	7.3			
35	24.64	6	6.8		7.6	8.6			
40	21.56	6.9	7.8		8.7	9.8			
45	19.17	7.8	8.7		9.7	11			
50	17.25	8.6	9.7		10.8	12.2			
55	15.68	9.5	10.7		11.9	13.5			
60	14.38	10.4	11.7		13	14.7			
70	12.32	12.1	13.6		15.1	17.1			
80	10.78	13.8	15.6	17.3	19.6				
TH10x5x15	81.74	2.6	211.9	2.9	238.3	3.2	264.8	3.7	300.1
20	61.29	3.4		3.9		4.3		4.9	
25	49.03	4.3		4.9		5.4		6.1	
30	40.8	5.2		5.8		6.5		7.3	
35	35.01	6		6.8		7.6		8.6	
40	30.89	6.9		7.8		8.7		9.8	
45	27.16	7.8		8.7		9.7		11	
50	24.52	8.6		9.7		10.8		12.2	

TH 重负荷 HEAVY LOAD				绿色 GREEN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TH10x5x55	22.26	9.5		10.7		11.9		13.5	
60	20.4	10.4		11.7		13		14.7	
65	18.83	11.2		12.6		14		15.9	
70	17.55	12.1		13.6		15.1		17.1	
75	16.38	13		14.6		16.2		18.4	
80	15.3	13.8		15.6		17.3		19.6	
90	13.63	15.6		17.5		19.4		22	
100	12.26	17.3		19.4		21.6		24.5	
300	4.12	51.8		58.3		64.8		73.4	
TH12x6x20	87.28	3.4		3.9		4.3		4.9	
25	69.63	4.3		4.9		5.4		6.1	
30	58.55	5.2		5.8		6.5		7.3	
35	50.11	6		6.8		7.6		8.6	
40	43.84	6.9		7.8		8.7		9.8	
45	39.03	7.8		8.7		9.7		11	
50	35.11	8.6		9.7		10.8		12.2	
55	31.87	9.5	300.1	10.7	335.4	11.9	379.5	13.5	430.1
60	29.22	10.4		11.7		13		14.7	
65	26.87	11.2		12.6		14		15.9	
70	24.91	12.1		13.6		15.1		17.1	
75	23.24	13		14.6		16.2		18.4	
80	21.57	13.8		15.6		17.3		19.6	
90	19.22	15.6		17.5		19.4		22	
100	17.26	17.3		19.4		21.6		24.5	
300	5.79	51.8		58.3		64.8		73.4	
TH14x7x20	120.32	3.4	414.8	3.9	46.7	4.3	520.7	4.9	590.2
25	96.4	4.3		4.9		5.4		6.1	
30	80.32	5.2		5.8		6.5		7.3	
35	68.84	6		6.8		7.6		8.6	
40	60.21	6.9		7.8		8.6		9.8	
45	53.54	7.8		8.7		9.7		11	
50	48.15	8.6		9.7		10.8		12.2	

TH 重负荷 HEAVY LOAD				绿色 GREEN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TH14x7x55	43.74	9.5	414.8	10.7	467.8	11.9	520.7	13.5	590.2
60	40.11	10.4		11.7		13		14.7	
65	37.07	11.2		12.6		14		15.9	
70	34.42	12.1		13.6		15.1		17.1	
75	32.07	13		14.6		16.2		18.4	
80	30.01	13.8		15.6		17.3		19.6	
90	26.67	15.6		17.5		19.4		22	
100	24.03	17.3		19.4		21.6		24.5	
300	8.04	51.8		58.3		64.8		73.4	
TH16x8x25	125.8	4.3		547.2		4.9		609	
30	104.8	5.2	5.8		6.5	7.3			
35	89.83	6	6.8		7.6	8.6			
40	78.65	6.9	7.8		8.6	9.8			
45	69.82	7.8	8.7		9.7	11			
50	62.86	8.6	9.7		10.8	12.2			
55	57.17	9.5	10.7		11.9	13.5			
60	52.37	10.4	11.7		13	14.7			
65	48.35	11.2	12.6		14	15.9			
70	44.91	12.1	13.6		15.1	17.1			
75	41.19	13	14.6		16.2	18.4			
80	39.32	13.8	15.6		17.3	19.6			
90	35.01	15.6	17.5		19.4	22			
100	31.28	17.3	19.4		21.6	24.5			
300	10.4	51.8	58.3	64.8	73.4				
TH18x9x25	158.5	4.3	688.4	4.9	767.9	5.4	856.2	6.1	970.3
30	132.1	5.2		5.8		6.5		7.3	
35	113.2	6		6.8		7.6		8.6	
40	99.05	6.9		7.8		8.6		9.8	
45	88.06	7.8		8.7		9.7		11	
50	79.24	8.6		9.7		10.8		12.2	
55	71.98	9.5		10.7		11.9		13.5	
60	66	10.4		11.7		13		14.7	

TH 重负荷 HEAVY LOAD				绿色 GREEN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TH18x9x65	60.9	11.2		12.6		14		15.9	
70	56.58	12.1		13.6		15.1		17.1	
75	51.98	13		14.6		16.2		18.4	
80	49.52	13.8		15.6		17.3		19.6	
90	44.13	15.6		17.5		19.4		22	
100	39.52	17.3		19.4		21.6		24.5	
300	13.24	51.8		58.3		64.8		73.4	
TH20x10x25	196.1	4.3		847.3		4.9		953.2	
30	163.4	5.2	5.8		6.5	7.3			
35	140	6	6.8		7.6	8.6			
40	122.6	6.9	7.8		8.6	9.8			
45	109	7.8	8.7		9.7	11			
50	98.1	8.6	9.7		10.8	12.2			
55	89.14	9.5	10.7		11.9	13.5			
60	81.69	10.4	11.7		13	14.7			
65	75.41	11.2	12.6		14	15.9			
70	70.02	12.1	13.6		15.1	17.1			
75	64.72	13	14.6		16.2	18.4			
80	61.29	13.8	15.6		17.3	19.6			
90	54.43	15.6	17.5	19.4	22				
TH20x10x100	49.03	17.3	847.3	19.4	953.2	21.6	1059.1	24.5	1200.3
125	39.23	21.6		24.3		27		30.6	
150	32.66	25.9		29.2		32.4		36.7	
300	16.38	51.8		58.3		64.8		73.4	
TH22x11x25	235.4	4.3	1023.8	4.9	1147.4	5.4	1279.8	6.1	1450.4
30	197.4	5.2		5.8		6.5		7.3	
35	169.7	6		6.8		7.6		8.6	
40	148.1	6.9		7.8		8.6		9.8	
45	131.4	7.8		8.7		9.7		11	
50	118.5	8.6		9.7		10.8		12.2	
55	106.9	9.5		10.7		11.9		13.5	
60	98.65	10.4		11.7		13		14.7	

TH 重负荷 HEAVY LOAD				绿色 GREEN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TH22x11x70	84.63	12.1		13.6		15.1		17.1	
80	74.04	13.8		15.6		17.3		19.6	
90	65.08	15.6		17.5		19.4		22	
100	59.23	17.3		19.4		21.6		24.5	
125	47.37	21.6		24.3		27		30.6	
150	39.52	25.9		29.2		32.4		36.7	
300	19.71	51.8		58.3		64.8		73.4	
TH25x12.5x25	306	4.3		4.9		5.4		6.1	
30	254.7	5.2		5.8		6.5		7.3	
35	220.6	6		6.8		7.6		8.6	
40	190.9	6.9		7.8		8.6		9.8	
45	170.6	7.8		8.7		9.7		11	
50	152.8	8.6		9.7		10.8		12.2	
55	139.3	9.5		10.7		11.9		13.5	
60	127.3	10.4		11.7		13		14.7	
65	117.7	11.2		12.6		14		15.9	
70	109.1	12.1	1323.9	13.6	1491.6	15.1	1650.4	17.1	1870.5
75	102	13		14.6		16.2		18.4	
80	95.42	13.8		15.6		17.3		19.6	
90	84.83	15.6		17.5		19.4		22	
100	76.39	17.3		19.4		21.6		24.5	
125	61.1	21.6		24.3		27		30.6	
150	51.19	25.9		29.2		32.4		36.7	
175	43.84	30.2		34		37.8		42.8	
200	38.34	34.6		38.9		43.2		49	
250	30.69	43.2		48.6		54		61.2	
300	25.6	51.8		58.3		64.8		73.4	
TH27x13.5x25	357	4.3		4.9		5.4		6.1	
30	298.2	5.2	1544.6	5.8	1738.7	6.5		7.3	
35	256.9	6		6.8		7.6		8.6	
40	223.7	6.9		7.8		8.6		9.8	
45	199.1	7.8		8.7		9.7		11	

TH 重负荷 HEAVY LOAD

绿色 GREEN

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)					
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N				
TH27x13.5x50	179	8.6	1544.6	9.7	1738.7	10.8	1932.9	12.2	2190.7				
60	149.1	10.4		11.7		13		14.7					
70	127.8	12.1		13.6		15.1		17.1					
80	111.8	13.8		15.6		17.3		19.6					
90	99.34	15.6		17.5		19.4		22					
100	89.44	17.3		19.4		21.6		24.5					
125	71.59	21.6		24.3		27		30.6					
150	59.62	25.9		29.2		32.4		36.7					
175	51.09	30.2		34		37.8		42.8					
200	44.72	34.6		38.9		43.2		49					
250	35.79	43.2		48.6		54		61.2					
300	29.81	51.8		58.3		64.8		73.4					
TH30x15x25	441.3	4.3		1906.4		4.9		2144.7		5.4	238.3	6.1	2700.8
30	367.7	5.2				5.8				6.5		7.3	
TH30x15x35	317.7	6	1906.4	6.8	2144.7	7.6	2383	8.6	2700.8				
40	275.8	6.9		7.8		8.6		9.8					
45	245.2	7.8		8.7		9.7		11					
50	220.6	8.6		9.7		10.8		12.2					
55	200.1	9.5		10.7		11.9		13.5					
60	183.9	10.4		11.7		13		14.7					
65	169.7	11.2		12.6		14		15.9					
70	157.6	12.1		13.6		15.1		17.1					
75	147.1	13		14.6		16.2		18.4					
80	137.9	13.8		15.6		17.3		19.6					
90	122.6	15.6		17.5		19.4		22					
100	110.3	17.3		19.4		21.6		24.5					
125	88.3	21.6		24.3		27		30.6					
150	73.55	25.9		29.2		32.4		36.7					
175	62.96	30.2	34	37.8	42.8								
200	55.21	34.6	38.9	43.2	49								
250	44.13	43.2	48.6	54	61.2								
300	36.77	51.8	58.3	64.8	73.4								

TH 重负荷 HEAVY LOAD				绿色 GREEN						
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)		
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	
TH35x17.5x40	374.8	6.9	2586.1	7.8	2912.6	5.4	3239.1	9.8	3671	
45	332.4	7.8		7.8		9.7		10.8		11
50	299.9	8.6		9.7		10.7		13		14.7
55	272.6	9.5		11.7		12.6		14		15.9
60	249.9	10.4		12.6		13.6		15.1		17.1
65	230.8	11.2		13.6		14.6		16.2		18.4
70	214.2	12.1		14.6		15.6		17.3		19.6
75	200	13		15.6		17.5		19.4		22
80	187.4	13.8		17.5		19.4		21.6		24.5
90	166.6	15.6		19.4		24.3		27		30.6
100	149.9	17.3		24.3		29.2		32.4		36.7
125	119.9	21.6		29.2		34		37.8		42.8
150	99.93	25.9		34		38.9		43.2		49
175	85.61	30.2		38.9		48.6		54		61.2
200	74.92	34.6		48.6		58.3		64.8		73.4
250	59.92	43.2		58.3		7.8		5.4		9.8
TH40x20x40	490.3	6.9	3389.2	7.8	3812.9	5.4	4236.5	9.8	4801.3	
50	392.3	8.6		9.7		10.8		12.2		
60	326.9	10.4		11.7		13		14.7		
70	280.2	12.1		13.6		15.1		17.1		
80	245.2	13.8		15.6		17.3		19.6		
90	217.9	15.6		17.5		19.4		22		
100	196.1	17.3		19.4		21.6		24.5		
125	156.9	21.6		24.3		27		30.6		
150	130.7	25.9		29.2		32.4		36.7		
175	112	30.2		34		37.8		42.8		
200	98.1	34.6		38.9		43.2		49		
250	78.5	43.2		48.6		54		61.2		
300	65.41	51.8	58.3	64.8	73.4					
TH45x22.5x50	477.29	8.6		9.7		10.8		12.2		
60	397.74	10.4		11.7		13		14.7		

TH 重负荷 HEAVY LOAD				绿色 GREEN									
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)					
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N				
TH45x22.5x70	340.92	12.1	4123.7	13.6	4639.4	15.1	5154.6	17.1	5841.9				
80	298.31	13.8		15.6		17.3		19.6					
90	265.16	15.6		17.5		19.4		22					
100	238.65	17.3		19.4		21.6		24.5					
125	190.92	21.6		24.3		27		30.6					
150	159.1	25.9		29.2		32.4		36.7					
175	136.37	30.2		34		37.8		42.8					
200	119.32	34.6		38.9		43.2		49					
TH45x22.5x250	477.29	43.2		4123.7		48.6		4639.4		54	5154.6	61.2	5841.9
300	79.55	51.8		58.3		64.8		73.4					
TH50x25x50	612.9	8.6	5295.6	9.7	5957.6	10.8	6619.5	12.2	7502.1				
60	510.7	10.4		11.7		13		14.7					
70	437.8	12.1		13.6		15.1		17.1					
80	383	13.8		15.6		17.3		19.6					
90	340.5	15.6		17.5		19.4		22					
100	306.5	17.3		19.4		21.6		24.5					
125	245.2	21.6		24.3		27		30.6					
150	204.3	25.9		29.2		32.4		36.7					
175	175	30.2		34		37.8		42.8					
200	153.2	34.6		38.9		43.2		49					
250	122.6	43.2		48.6		54		61.2					
300	102.1	51.8		58.3		64.8		73.4					
TH55x27.5x50	735.52	8.6		6354.9		9.7		7149.2		10.8	7946.3	12.2	9002.7
60	612.93	10.4				11.7				13		14.7	
70	525.37	12.1	13.6		15.1	17.1							
80	459.7	13.8	15.6		17.3	19.6							
90	408.62	15.6	17.5		19.4	22							
100	367.76	17.3	19.4		21.6	24.5							
125	394.21	21.6	24.3		27	30.6							
150	245.17	25.9	29.2		32.4	36.7							
175	210.15	30.2	34		37.8	42.8							
200	183.88	34.6	38.9		43.2	49							

TH 重负荷 HEAVY LOAD			绿色 GREEN						
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TH55x27.5x250	147.1	43.2		48.6		54		61.2	
300	122.59	51.8		58.3		64.8		73.4	
TH60x30x60	735.5	10.4	7625.7	11.7	8587.7	13	9532.1	14.7	10803
70	630.4	12.1		13.6		15.1		17.1	
80	551.6	13.8		15.6		17.3		19.6	
90	490.3	15.6		17.5		19.4		22	
100	441.3	17.3		19.4		21.6		24.5	
125	353	21.6		24.3		27		30.6	
150	294.2	25.9		29.2		32.4		36.7	
175	252.1	30.2		34		37.8		42.8	
200	220.6	34.6		38.9		43.2		49	
250	176.5	43.2		48.6		54		61.2	
300	147.1	51.8		58.3		64.8		73.4	
TH65x32.5x60	785.33	10.4		8142		11.7		9160	
70	673.14	12.1	13.6		15.1	17.1			
80	589	13.8	15.6		17.3	19.6			
90	523.55	15.6	17.5		19.4	22			
100	471.2	17.3	19.4		21.6	24.5			
125	376.96	21.6	24.3		27	30.6			
150	314.13	25.9	29.2		32.4	36.7			
175	269.26	30.2	34		37.8	42.8			
200	235.6	34.6	38.9		43.2	49			
250	188.48	43.2	48.6		54	61.2			
300	157.07	51.8	58.3		64.8	73.4			
TH70x38.5x70	758.18	12.1	9171		13.6	10318	15.1		11464
80	663.41	13.8		15.6	17.3		19.6		
90	589.7	15.6		17.5	19.4		22		
100	530.73	17.3		19.4	21.6		24.5		
125	424.58	21.6		24.3	27		30.6		
150	353.82	25.9		29.2	32.4		36.7		
175	303.27	30.2		34	37.8		42.8		
200	265.36	34.6		38.9	43.2		49		
250	212.29	43.2		48.6	54		61.2		
300	176.91	51.8		58.3	64.8		73.4		

TB 超重负荷 SUPER LOAD				棕色 BROWN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB6x3x10	88.25	1.4	127.1	1.6	143	1.8	158.9	2	180
15	58.84	2.2		2.4		2.7		3.1	
20	44.13	2.9		3.2		3.6		4.1	
25	35.3	3.6		4.1		4.5		5.1	
30	29.42	4.3		4.9		5.4		6.1	
35	25.2	5		5.7		6.3		7.1	
40	22.06	5.8		6.5		7.2		8.2	
45	19.61	6.5		7.3		8.1		9.2	
50	17.65	7.2		8.1		9		10.2	
55	16.08	7.9		8.9		9.9		11.2	
60	14.71	8.6		9.7		10.8		12.2	
TB8x4x10	161.8	1.4		229.5		1.6		264.8	
15	105.8	2.2	2.4		2.7	3.1			
20	79.4	2.9	3.2		3.6	4.1			
25	63.7	3.6	4.1		4.5	5.1			
30	53	4.3	4.9		5.4	6.1			
35	45.1	5	5.7		6.3	7.1			
40	40.2	5.8	6.5		7.2	8.2			
45	35.3	6.5	7.3		8.1	9.2			
50	32.4	7.2	8.1		9	10.2			
55	29.4	7.9	8.9		9.9	11.2			
60	26.5	8.6	9.7		10.8	12.2			
70	22.8	10.1	11.3		12.6	14.3			
80	19.9	11.5	13	14.44	16.3				
TB10x5x15	147.08	2.2		2.4		2.7		3.1	
20	111	2.9		3.2		3.6		4.1	
25	88.26	3.6		4.1		4.5		5.1	
30	73.55	4.3		4.9		5.4		6.1	
35	63.06	5		5.7		6.3		7.1	
40	55.21	5.8		6.5		7.2		8.2	
45	49.03	6.5		7.3		8.1		9.2	

TB 超重负荷 SUPER LOAD				棕色 BROWN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB10x5x50	44.13	7.2	317.7	8.1	361.8	9	396.9	10.2	449.8
55	40.11	7.9		8.9		9.9		11.2	
60	36.77	8.6		9.7		10.8		12.2	
65	34.03	9.4		10.5		11.7		13.3	
70	31.48	10.1		11.3		12.6		14.3	
75	29.42	10.8		12.2		13.5		15.3	
80	27.65	11.5		13		14.4		16.3	
90	24.51	13		14.6		16.2		18.4	
100	22.06	14.4		16.2		18		20.4	
300	7.35	43.2		48.6		54		61.2	
TB12x6x20	142.2	2.9		405.9		3.2		459	
25	113.8	3.6	4.1		4.5	5.1			
30	94.83	4.3	4.9		5.4	6.1			
35	81.3	5	5.7		6.3	7.1			
40	71.1	5.8	6.5		7.2	8.2			
45	63.15	6.5	7.3		8.1	9.2			
50	56.88	7.2	8.1		9	10.2			
55	51.68	7.9	8.9		9.9	11.2			
60	47.37	8.6	9.7		10.8	12.2			
65	43.54	9.4	10.5		11.7	13.3			
70	40.5	10.1	11.3		12.6	14.3			
75	37.76	10.8	12.2		13.5	15.3			
80	35.4	11.5	13		14.4	16.3			
90	31.48	13	14.6		16.2	18.4			
100	28.33	14.4	16.2	18	20.4				
300	9.44	43.2	48.6	54	61.2				
TB14x7x20	183.75	2.9	529.2	3.2	600.3	3.6	662.2	4.1	750.7

TB 超重负荷 SUPER LOAD				棕色 BROWN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB14x7x25	147.1	3.6	529.2	4.1	600.3	4.5	662.4	5.1	750.7
30	122.6	4.3		4.9		5.4		6.1	
35	105.1	5		5.7		6.3		7.1	
40	91.99	5.8		6.5		7.2		8.2	
45	81.79	6.5		7.3		8.1		9.2	
50	73.55	7.2		8.1		9		10.2	
55	66.88	7.9		8.9		9.9		11.2	
60	61.29	8.6		9.7		10.8		12.2	
65	56.58	9.4		10.5		11.7		13.3	
70	52.56	10.1		11.3		12.6		14.3	
75	49.03	10.8		12.2		13.5		15.3	
80	45.99	11.5		13		14.4		16.3	
90	40.8	13		14.6		16.2		18.4	
100	36.75	14.4		16.2		18		20.4	
300	12.25	43.2		48.6		54		61.2	
TB16x8x25	196.1	3.6	706.5	4.1	794.7	4.5	882.9	5.1	1000.6
30	163.5	4.3		4.9		5.4		6.1	
35	140.1	5		5.7		6.3		7.1	
40	122.6	5.8		6.5		7.2		8.2	
45	109	6.5		7.3		8.1		9.2	
50	98.1	7.2		8.1		9		10.2	
55	89.14	7.9		8.9		9.9		11.2	
60	81.79	8.6		9.7		10.8		12.2	
65	75.41	9.4		10.5		11.7		13.3	
70	70.02	10.1		11.3		12.6		14.3	
75	65.41	10.8		12.2		13.5		15.3	
80	61.29	11.5		13		14.4		16.3	
90	54.52	13		14.6		16.2		18.4	
100	49.03	14.4		16.2		18		20.4	
300	12.25	43.2		48.6		54		61.2	

TB 超重负荷 SUPER LOAD				棕色 BROWN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB18x9x25	245.2	3.6	882.9	4.1	997.2	4.5	1103.4	5.1	1250.5
30	204.4	4.3		4.9		5.4		6.1	
35	173.4	5		5.7		6.3		7.1	
40	153.3	5.8		6.5		7.2		8.2	
45	136.2	6.5		7.3		8.1		9.2	
50	122.6	7.2		8.1		9		10.2	
55	111.5	7.9		8.9		9.9		11.2	
60	102.2	8.6		9.7		10.8		12.2	
65	94.34	9.4		10.5		11.7		13.3	
70	87.57	10.1		11.3		12.6		14.3	
75	81.79	10.8		12.2		13.5		15.3	
80	76.69	11.5		13		14.4		16.3	
90	68.16	13		14.6		16.2		18.4	
100	61.39	14.4		16.2		18		20.4	
300	20.44	43.2		48.6		54		61.2	
TB20x10x25	313.8	3.6	1129.8	4.1	1271	4.5	1412.2	5.1	1600.5
30	261.5	4.3		4.9		5.4		6.1	
35	224.2	5		5.7		6.3		7.1	
40	196.1	5.8		6.5		7.2		8.2	
45	174.4	6.5		7.3		8.1		9.2	
50	156.9	7.2		8.1		9		10.2	
55	142.7	7.9		8.9		9.9		11.2	
60	130.7	8.6		9.7		10.8		12.2	
65	120.7	9.4		10.5		11.7		13.3	
70	112.1	10.1		11.3		12.6		14.3	
75	104.6	10.8		12.2		13.5		15.3	
80	98.1	11.5		13		14.4		16.3	
90	87.18	13	14.6	16.2	18.4				

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB20x10x100	78.45	14.4	1129.8	16.2	1271	18	1412.2	20.4	1600.5
125	62.72	18		20.3		22.5		25.5	
150	52.27	21.6		24.3		27		30.6	
300	26.15	43.2		48.6		54		61.2	
TB22x10x25	382.5	3.6	1376.8	4.1	1553.4	4.5	1721.1	5.1	1950.5
30	318.7	4.3		4.9		5.4		6.1	
35	273.2	5		5.7		6.3		7.1	
40	239.1	5.8		6.5		7.2		8.2	
45	212.5	6.5		7.3		8.1		9.2	
50	191.2	7.2		8.1		9		10.2	
55	173.9	7.9		8.9		9.9		11.2	
60	159.4	8.6		9.7		10.8		12.2	
70	136.6	10.1		11.3		12.6		14.3	
80	119.5	11.5		13		14.4		16.3	
90	106.2	13		14.6		16.2		18.4	
100	95.61	14.4		16.2		18		20.4	
125	76.49	18		20.3		22.5		25.5	
150	63.74	21.6		24.3		27		30.6	
300	31.87	43.2	48.6	54	61.2				
TB25x12.5x25	480.5	3.6	1729.9	4.1	1950.6	4.5	2162.3	5.1	2450.7
30	400.1	4.3		4.9		5.4		6.1	
35	343.2	5		5.7		6.3		7.1	
40	300.1	5.8		6.5		7.2		8.2	
45	266.7	6.5		7.3		8.1		9.2	
50	240.3	7.2		8.1		9		10.2	
55	218.7	7.9		8.9		9.9		11.2	
60	200.1	8.6		9.7		10.8		12.2	
65	184.4	9.4		10.5		11.7		13.3	
70	171.6	10.1		11.3		12.6		14.3	
75	159.8	10.8		12.2		13.5		15.3	

TB 超重负荷 SUPER LOAD				棕色 BROWN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB25x12.5x80	150	11.5		13		14.4		16.3	
90	133.4	13		14.6		16.2		18.4	
100	120.6	14.4		16.2		18		20.4	
125	96.11	18		20.3		22.5		25.5	
150	80.12	21.6		24.3		27		30.6	
175	68.65	25.2		28.4		31.5		35.7	
200	60.11	28.8		32.4		36		40.8	
250	48.05	36		40.5		45		51	
300	40.01	43.2		48.6		54		61.2	
TB27x13.5x25	572.7	3.6		4.1		4.5		5.1	
30	477.3	4.3		4.9		5.4		6.1	
35	409	5		5.7		6.3		7.1	
40	357.9	5.8		6.5		7.2		8.2	
45	318.1	6.5		7.3		8.1		9.2	
50	286.4	7.2		8.1		9		10.2	
60	238.6	8.6		9.7		10.8		12.2	
70	204.6	10.1	2047.6	11.3	2303.6	12.6	2559.5	14.3	2900.8
80	179	11.5		13		14.4		16.3	
90	159.1	13		14.6		16.2		18.4	
100	143.2	14.4		16.2		18		20.4	
125	114.5	18		20.3		22.5		25.5	
150	95.42	21.6		24.3		27		30.6	
175	81.79	25.2		28.4		31.5		35.7	
200	71.59	28.8		32.4		36		40.8	
250	57.27	36		40.5		45		51	
300	47.76	43.2		48.6		54		61.2	
TB30x15x25	706.1	3.6	2541.9	4.1	2858.7	4.5	3177.4	5.1	3601
30	588.4	4.3		4.9		5.4		6.1	

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB30x15x35	504.4	5	2541.9	5.7	2859.7	6.3	3177.4	7.1	3601
40	441.3	5.8		6.5		7.2		8.2	
45	392.3	6.5		7.3		8.1		9.2	
50	353	7.2		8.1		9		10.2	
55	320.9	7.9		8.9		9.9		11.2	
60	294.2	8.6		9.7		10.8		12.2	
65	271.5	9.4		10.5		11.7		13.3	
70	252.1	10.1		11.3		12.6		14.3	
75	235.4	10.8		12.2		13.5		15.3	
80	220.6	11.5		13		14.4		16.3	
90	196.1	13		14.6		16.2		18.4	
100	176.5	14.4		16.2		18		20.4	
125	137.3	18		20.3		22.5		25.5	
150	117.7	21.6		24.3		27		30.6	
175	100.8	25.2		28.4		31.5		35.7	
200	88.3	28.8		32.4		36		40.8	
250	70.61	36		40.5		45		51	
300	58.8	43.2		48.6		54		61.2	
TB35x17.5x40	600.7	5.8	3459.8	6.5	3892.2	7.2	4324.8	8.2	4901.4
45	533.9	6.5		7.3		8.1		9.2	
50	480.5	7.2		8.1		9		10.2	
55	436.8	7.9		8.9		9.9		11.2	
60	400.4	8.6		9.7		10.8		12.2	
65	369.6	9.4		10.5		11.7		13.3	
70	343.2	10.1		11.3		12.6		14.3	
75	320.4	10.8		12.2		13.5		15.3	
80	300.3	11.5		13		14.4		16.3	
90	266.9	13		14.6		16.2		18.4	
100	240.3	14.4		16.2		18		20.4	

TB 超重负荷 SUPER LOAD				棕色 BROWN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB35x17.5x125	192.2	18		20.3		22.5		25.5	
150	160.1	21.6		24.3		27		30.6	
175	137.3	25.2		28.4		31.5		35.7	
200	120.1	28.8		32.4		36		40.8	
250	96.11	36		40.5		45		51	
300	80.12	43.2		48.6		54		61.2	
TB40x20x40	784.5	5.8		6.5		7.2		8.2	
50	627.6	7.2		8.1		9		10.2	
60	523	8.6		9.7		10.8		12.2	
70	448.3	10.1		11.3		12.6		14.3	
80	392.3	11.5		13		14.4		16.3	
90	348.6	13		14.6		16.2		18.4	
100	313.8	14.4	4518.9	16.2	5083.7	18	5648.7	20.4	6401.8
125	251.1	18		20.3		22.5		25.5	
150	209.2	21.6		24.3		27		30.6	
175	179.3	25.2		28.4		31.5		35.7	
200	156.9	28.8		32.4		36		40.8	
250	125.5	36		40.5		45		51	
300	104.6	43.2		48.6		54		61.2	
TB45x22.5x50	790.79	7.2		8.1		9		10.2	
60	650.66	8.6		9.7		10.8		12.2	
70	557.71	10.1		11.3		12.6		14.3	
80	487.99	11.5		13		14.4		16.3	
90	433.777	13	5621.8	14.6	6324.5	16.2	7027.2	18.4	7964.2
100	390.39	14.4		16.2		18		20.4	
125	312.32	18		20.3		22.5		25.5	
150	260.26	21.6		24.3		27		30.6	
175	223.08	25.2		28.4		31.5		35.7	
200	195.2	28.8		32.4		36		40.8	

尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)					
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N				
TB45x22.5x250	156.16	36		40.5		45		51.1					
300	130.13	43.2		48.6		54		61.2					
TB50x25x50	980.7	7.2	7060.8	8.1	7943.4	9	8826	10.2	10002.8				
60	817.2	8.6		9.7		10.8		12.2					
70	700.4	10.1		11.3		12.6		14.3					
80	612.9	11.5		13		14.4		16.3					
90	544.8	13		14.6		16.2		18.4					
100	490.3	14.4		16.2		18		20.4					
125	392.3	18		20.3		22.5		25.5					
150	326.9	21.6		24.3		27		30.6					
175	280.2	25.2		28.4		31.5		35.7					
200	245.2	28.8		32.4		36		40.8					
250	196.1	36		40.5		45		51					
300	163.4	43.2		48.6		54		61.2					
TB55x27.5x50	1104	7.2		7948.8		8.1		8942.4		9	9936	10.2	11260.8
60	920	8.6				9.7				10.8		12.2	
70	788.6	10.1	11.3		12.6	14.3							
80	690	11.5	13		14.4	16.3							
90	613.3	13	14.6		16.2	18.4							
100	552	14.4	16.2		18	20.4							
125	441.6	18	20.3		22.5	25.5							
150	368	21.6	24.3		27	30.6							
175	315.4	25.2	28.4		31.5	35.7							
200	276	28.8	32.4		36	40.8							
250	220.8	36	40.5		45	51							
300	184	43.2	48.6		54	61.2							
TB60x30x60	1177	8.6			9.7		10.8			12.2			
70	1009	10.1			11.3		12.6			14.3			
80	883	11.5		13		14.4		16.3					

TB 超重负荷 SUPER LOAD				棕色 BROWN					
尺寸 外径x内径x高度 ODxIDxLength mm	刚度 Spring Constant N/mm	100万次 (1 milion)		50万次 (0.5 milion)		30万次 (0.3 milion)		15万次 (0.15 milion)	
		压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N	压缩量 Deflection mm	力值 Load N
TB60x30x90	784.5	13	10167.6	14.6	11438.5	16.2	12709.4	18.4	14404
100	706.1	14.4		16.2		18		20.4	
125	564.87	18		20.3		22.5		25.5	
150	470.7	21.6		24.3		27		30.6	
175	403.4	25.2		28.4		31.5		35.7	
200	353	28.8		32.4		36		40.8	
250	282.4	36		40.5		45		51	
300	235.4	43.2		48.6		54		61.2	
TB65x32.5x60	1268.3	8.6	10958.4	9.7	12328.2	10.8	13968	12.2	15524.4
70	1087.1	10.1		11.3		12.6		14.3	
80	951.3	11.5		13		14.4		16.3	
90	845.6	13		14.6		16.2		18.4	
100	761	14.4		16.2		18		20.4	
125	608.8	18		20.3		22.5		25.5	
150	507.3	21.6		24.3		27		30.6	
175	434.9	25.2		28.4		31.5		35.7	
200	380.5	28.8		32.4		36		40.8	
250	304.4	36		40.5		45		51	
300	253.7	43.2	48.6	54	61.2				
TB70x38.5x70	1258.9	10.1	12690	11.3	14277	12.6	15863	14.3	17978
80	1101.6	11.5		13		14.4		16.3	
90	979.2	13		14.6		16.2		18.4	
100	881.3	14.4		16.2		18		20.4	
125	705	18		20.3		22.5		25.5	
150	587.5	21.6		24.3		27		30.6	
175	503.6	25.2		28.4		31.5		35.7	
200	440.6	28.8		32.4		36		40.8	
250	352.5	36		40.5		45		51	
300	293.8	43.2		48.6		54		61.2	