



Medium load 中等负荷

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Table of standards
 规格表
 中等负荷
TM

Model 型号	Outside Diameter 外径 (mm)	Inside Diameter 内径 (mm)	Free length 自由长 (mm)	Spring Constant 弹簧常数		Free length × 25.6% 1,000,000 cycles 自由长 × 25.6% 100万次		Free length × 28.8% 500,000 cycles 自由长 × 28.8% 50万次		Free length × 32.0% 300,000 cycles 自由长 × 32.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TM 8 × 10	8	4	10	42.57	{ 4.34 }	2.6	107.9 { 11.0 }	2.9	122.6 { 12.5 }	3.2	137.3 { 14.0 }
15			15	28.38	{ 2.89 }	3.8		4.3			
20			20	21.28	{ 2.17 }	5.1		5.8			
25			25	17.03	{ 1.74 }	6.4		7.2			
30			30	14.19	{ 1.45 }	7.7		8.6			
35			35	12.16	{ 1.24 }	9.0		10.1			
40			40	10.64	{ 1.09 }	10.2		11.5			
45			45	9.46	{ 0.96 }	11.5		13.0			
50			50	8.51	{ 0.87 }	12.8		14.4			
55			55	7.74	{ 0.79 }	14.1		15.8			
60			60	7.09	{ 0.72 }	15.4		17.3			
65			65	6.55	{ 0.67 }	16.6		18.7			
70			70	6.08	{ 0.62 }	17.9		20.2			
75			75	5.68	{ 0.58 }	19.2		21.6			
80			80	5.32	{ 0.54 }	20.5		23.0			
TM 10 × 20			10	5	20	30.64		{ 3.12 }		5.1	
25	25	24.51			{ 2.50 }	6.4	7.2				
30	30	20.43			{ 2.08 }	7.7	8.6				
35	35	17.51			{ 1.79 }	9.0	10.1				
40	40	15.32			{ 1.56 }	10.2	11.5				
45	45	13.62			{ 1.39 }	11.5	13.0				
50	50	12.26			{ 1.25 }	12.8	14.4				
55	55	11.14			{ 1.14 }	14.1	15.8				
60	60	10.21			{ 1.04 }	15.4	17.3				
65	65	9.43			{ 0.96 }	16.6	18.7				
70	70	8.75			{ 0.89 }	17.9	20.2				
75	75	8.17			{ 0.83 }	19.2	21.6				
80	80	7.66			{ 0.78 }	20.5	23.0				
90	90	6.81			{ 0.69 }	23.0	25.9				
TM 12 × 20	12	6	20	44.27	{ 4.51 }	5.1	226 { 23.0 }	5.8	255 { 26.0 }	6.4	284 { 29.0 }
25			25	35.42	{ 3.61 }	6.4		7.2			
30			30	29.51	{ 3.01 }	7.7		8.6			
35			35	25.30	{ 2.58 }	9.0		10.1			
40			40	22.14	{ 2.26 }	10.2		11.5			
45			45	19.68	{ 2.01 }	11.5		13.0			
50			50	17.71	{ 1.81 }	12.8		14.4			
55			55	16.10	{ 1.64 }	14.1		15.8			
60			60	14.76	{ 1.50 }	15.4		17.3			
65			65	13.62	{ 1.39 }	16.6		18.7			
70			70	12.65	{ 1.29 }	17.9		20.2			
75			75	11.81	{ 1.20 }	19.2		21.6			
80			80	11.07	{ 1.13 }	20.5		23.0			
90			90	9.84	{ 1.00 }	23.0		25.9			

1N = 0.102 Kgf
 1N (牛顿) = 0.102 Kgf (千克)

Load (N) = Spring Constant (N/mm) × Deflection (mm)
 负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)



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				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TM 14 × 25	14	7	25	47.64	{ 4.86 }	6.4	304 { 31.0 }	7.2	343 { 35.0 }	8.0	383 { 39.1 }
30			39.70	{ 4.05 }	7.7	8.6		9.6			
35			34.03	{ 3.47 }	9.0	10.1		11.2			
40			29.77	{ 3.04 }	10.2	11.5		12.8			
45			26.47	{ 2.70 }	11.5	13.0		14.4			
50			23.82	{ 2.43 }	12.8	14.4		16.0			
55			21.65	{ 2.21 }	14.1	15.8		17.6			
60			19.85	{ 2.02 }	15.4	17.3		19.2			
65			18.32	{ 1.87 }	16.6	18.7		20.8			
70			17.01	{ 1.73 }	17.9	20.2		22.4			
75			15.88	{ 1.62 }	19.2	21.6		24.0			
80			14.89	{ 1.52 }	20.5	23.0		25.6			
90			13.23	{ 1.35 }	23.0	25.9		28.8			
100			11.91	{ 1.21 }	25.6	28.8		32.0			
TM 16 × 25	16	8	25	62.64	{ 6.39 }	6.4	402 { 41.0 }	7.2	451 { 46.0 }	8.0	500 { 51.0 }
30			52.20	{ 5.32 }	7.7	8.6		9.6			
35			44.74	{ 4.56 }	9.0	10.1		11.2			
40			39.15	{ 3.99 }	10.2	11.5		12.8			
45			34.80	{ 3.55 }	11.5	13.0		14.4			
50			31.32	{ 3.19 }	12.8	14.4		16.0			
55			28.47	{ 2.90 }	14.1	15.8		17.6			
60			26.10	{ 2.66 }	15.4	17.3		19.2			
65			24.09	{ 2.46 }	16.6	18.7		20.8			
70			22.37	{ 2.28 }	17.9	20.2		22.4			
75			20.88	{ 2.13 }	19.2	21.6		24.0			
80			19.57	{ 2.00 }	20.5	23.0		25.6			
90			17.40	{ 1.77 }	23.0	25.9		28.8			
100			15.66	{ 1.60 }	25.6	28.8		32.0			
125	12.53	{ 1.28 }	32.0	36.0	40.0						
TM 18 × 25	18	9	25	79.03	{ 8.06 }	6.4	510 { 52.0 }	7.2	569 { 58.0 }	8.0	637 { 65.0 }
30			65.86	{ 6.72 }	7.7	8.6		9.6			
35			56.45	{ 5.76 }	9.0	10.1		11.2			
40			49.39	{ 5.04 }	10.2	11.5		12.8			
45			43.90	{ 4.48 }	11.5	13.0		14.4			
50			39.51	{ 4.03 }	12.8	14.4		16.0			
55			35.92	{ 3.66 }	14.1	15.8		17.6			
60			32.93	{ 3.36 }	15.4	17.3		19.2			
65			30.40	{ 3.10 }	16.6	18.7		20.8			
70			28.22	{ 2.88 }	17.9	20.2		22.4			
75			26.34	{ 2.69 }	19.2	21.6		24.0			
80			24.70	{ 2.52 }	20.5	23.0		25.6			
90			21.95	{ 2.24 }	23.0	25.9		28.8			
100			19.76	{ 2.01 }	25.6	28.8		32.0			
125	15.81	{ 1.61 }	32.0	36.0	40.0						

1N = 0.102 Kgf
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TM 20 × 25	20	10	25	98.06	{10.00}	6.4	628 {64.0}	7.2	706 {72.0}	8.0	785 {80.0}
30			81.71	{8.33}	7.7	8.6		9.6			
35			70.04	{7.14}	9.0	10.1		11.2			
40			61.28	{6.25}	10.2	11.5		12.8			
45			54.48	{5.55}	11.5	13.0		14.4			
50			49.03	{5.00}	12.8	14.4		16.0			
55			44.57	{4.54}	14.1	15.8		17.6			
60			40.86	{4.17}	15.4	17.3		19.2			
65			37.71	{3.85}	16.6	18.7		20.8			
70			35.02	{3.57}	17.9	20.2		22.4			
75			32.69	{3.33}	19.2	21.6		24.0			
80			30.64	{3.12}	20.5	23.0		25.6			
90			27.24	{2.78}	23.0	25.9		28.8			
100			24.51	{2.50}	25.6	28.8		32.0			
125			19.61	{2.00}	32.0	36.0		40.0			
150	16.34	{1.67}	38.4	43.2	48.0						
TM 22 × 25	22	11	25	118.47	{12.08}	6.4	765 {78.0}	7.2	853 {87.0}	8.0	951 {97.0}
30			98.73	{10.07}	7.7	8.6		9.6			
35			84.62	{8.63}	9.0	10.1		11.2			
40			74.05	{7.55}	10.2	11.5		12.8			
45			65.82	{6.71}	11.5	13.0		14.4			
50			59.24	{6.04}	12.8	14.4		16.0			
55			53.85	{5.49}	14.1	15.8		17.6			
60			49.36	{5.03}	15.4	17.3		19.2			
65			45.57	{4.65}	16.6	18.7		20.8			
70			42.31	{4.31}	17.9	20.2		22.4			
75			39.49	{4.03}	19.2	21.6		24.0			
80			37.02	{3.78}	20.5	23.0		25.6			
90			32.91	{3.36}	23.0	25.9		28.8			
100			29.62	{3.02}	25.6	28.8		32.0			
125			23.69	{2.42}	32.0	36.0		40.0			
150	19.75	{2.01}	38.4	43.2	48.0						
TM 25 × 25	25	12.5	25	152.50	{15.55}	6.4	981 {100.0}	7.2	1,098 {112.0}	8.0	1,226 {125.0}
30			127.08	{12.96}	7.7	8.6		9.6			
35			108.93	{11.11}	9.0	10.1		11.2			
40			95.31	{9.72}	10.2	11.5		12.8			
45			84.72	{8.64}	11.5	13.0		14.4			
50			76.25	{7.78}	12.8	14.4		16.0			
55			69.32	{7.07}	14.1	15.8		17.6			
60			63.54	{6.48}	15.4	17.3		19.2			
65			58.65	{5.98}	16.6	18.7		20.8			
70			54.46	{5.55}	17.9	20.2		22.4			
75			50.83	{5.18}	19.2	21.6		24.0			
80			47.66	{4.86}	20.5	23.0		25.6			
90			42.36	{4.32}	23.0	25.9		28.8			
100			38.13	{3.89}	25.6	28.8		32.0			
125			30.50	{3.11}	32.0	36.0		40.0			
150	25.42	{2.59}	38.4	43.2	48.0						
175	21.79	{2.22}	44.8	50.4	56.0						
200	19.06	{1.94}	51.2	57.6	64.0						

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				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TM 27 × 25	27	13.5	25	178.47	{18.20}	6.4	1,147 {117.0}	7.2	1,285 {131.0}	8.0	1,432 {146.0}
30			30	148.73	{15.17}	7.7		8.6			
35			35	127.48	{13.00}	9.0		10.1			
40			40	111.55	{11.37}	10.2		11.5			
45			45	99.15	{10.11}	11.5		13.0			
50			50	89.24	{9.10}	12.8		14.4			
55			55	81.12	{8.27}	14.1		15.8			
60			60	74.36	{7.58}	15.4		17.3			
65			65	68.64	{7.00}	16.6		18.7			
70			70	63.74	{6.50}	17.9		20.2			
75			75	59.49	{6.07}	19.2		21.6			
80			80	55.77	{5.69}	20.5		23.0			
90			90	49.58	{5.06}	23.0		25.9			
100			100	44.62	{4.55}	25.6		28.8			
125			125	35.69	{3.64}	32.0		36.0			
150			150	29.75	{3.03}	38.4		43.2			
175			175	25.50	{2.60}	44.8		50.4			
200	200	22.31	{2.27}	51.2	57.6						
TM 30 × 25	30	15	25	219.31	{22.36}	6.4	1,412 {144.0}	7.2	1,579 {161.0}	8.0	1,765 {180.0}
30			30	182.75	{18.64}	7.7		8.6			
35			35	156.65	{15.97}	9.0		10.1			
40			40	137.07	{13.98}	10.2		11.5			
45			45	121.84	{12.42}	11.5		13.0			
50			50	109.65	{11.18}	12.8		14.4			
55			55	99.68	{10.16}	14.1		15.8			
60			60	91.38	{9.32}	15.4		17.3			
65			65	84.35	{8.60}	16.6		18.7			
70			70	78.32	{7.99}	17.9		20.2			
75			75	73.10	{7.45}	19.2		21.6			
80			80	68.53	{6.99}	20.5		23.0			
90			90	60.92	{6.21}	23.0		25.9			
100			100	54.83	{5.59}	25.6		28.8			
125			125	43.86	{4.47}	32.0		36.0			
150			150	36.55	{3.73}	38.4		43.2			
175			175	31.33	{3.19}	44.8		50.4			
200	200	27.41	{2.80}	51.2	57.6						
TM 35 × 40	35	17.5	40	187.50	{19.12}	10.2	1,912 {195.0}	11.5	2,160 {220.3}	12.8	2,400 {244.7}
45			45	166.67	{17.00}	11.5		13.0			
50			50	150.00	{15.30}	12.8		14.4			
55			55	136.36	{13.91}	14.1		15.8			
60			60	125.00	{12.75}	15.4		17.3			
65			65	115.38	{11.77}	16.6		18.7			
70			70	107.14	{10.93}	17.9		20.2			
75			75	100.00	{10.20}	19.2		21.6			
80			80	93.75	{9.56}	20.5		23.0			
90			90	83.33	{8.50}	23.0		25.9			
100			100	75.00	{7.65}	25.6		28.8			
125			125	60.00	{6.12}	32.0		36.0			
150			150	50.00	{5.10}	38.4		43.2			
175			175	42.86	{4.37}	44.8		50.4			
200	200	37.50	{3.82}	51.2	57.6						

1N = 0.102 Kgf

1N (牛顿) = 0.102 Kgf (千克)

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TM 40 × 40	40	20	40	244.79	{24.96}	10.2	{256.0}	11.5	{287.6}	12.8	{320.2}
45			45	217.59	{22.19}	11.5		13.0			
50			50	195.83	{19.97}	12.8		14.4			
55			55	178.03	{18.15}	14.1		15.8			
60			60	163.19	{16.64}	15.4		17.3			
65			65	150.64	{15.36}	16.6		18.7			
70			70	139.88	{14.26}	17.9		20.2			
75			75	130.56	{13.31}	19.2		21.6			
80			80	122.40	{12.48}	20.5		23.0			
90			90	108.80	{11.09}	23.0		25.9			
100			100	97.92	{9.98}	25.6		28.8			
125			125	78.33	{7.99}	32.0		36.0			
150			150	65.28	{6.66}	38.4		43.2			
175			175	55.95	{5.71}	44.8		50.4			
200			200	48.96	{4.99}	51.2		57.6			
225			225	43.52	{4.44}	57.6		64.8			
250			250	39.17	{3.99}	64.0		72.0			
275	275	35.61	{3.63}	70.4	79.2						
300	300	32.64	{3.33}	76.8	86.4						
TM 50 × 50	50	25	50	306.25	{31.23}	12.8	{399.7}	14.4	{449.7}	16.0	{499.7}
55			55	278.41	{28.39}	14.1		15.8			
60			60	255.21	{26.02}	15.4		17.3			
65			65	235.58	{24.02}	16.6		18.7			
70			70	218.75	{22.31}	17.9		20.2			
75			75	204.17	{20.82}	19.2		21.6			
80			80	191.41	{19.52}	20.5		23.0			
90			90	170.14	{17.35}	23.0		25.9			
100			100	153.13	{15.61}	25.6		28.8			
125			125	122.50	{12.49}	32.0		36.0			
150			150	102.08	{10.41}	38.4		43.2			
175			175	87.50	{8.92}	44.8		50.4			
200			200	76.56	{7.81}	51.2		57.6			
225			225	68.06	{6.94}	57.6		64.8			
250			250	61.25	{6.25}	64.0		72.0			
275			275	55.68	{5.68}	70.4		79.2			
300			300	51.04	{5.20}	76.8		86.4			
350	350	43.75	{4.46}	89.6	100.8						
TM 60 × 60	60	30	60	367.48	{37.47}	15.4	{575.1}	17.3	{647.5}	19.2	{719.9}
70			70	314.98	{32.12}	17.9		20.2			
80			80	275.61	{28.10}	20.5		23.0			
90			90	244.98	{24.98}	23.0		25.9			
100			100	220.49	{22.48}	25.6		28.8			
125			125	176.39	{17.99}	32.0		36.0			
150			150	146.99	{14.99}	38.4		43.2			
175			175	125.99	{12.85}	44.8		50.4			
200			200	110.24	{11.24}	51.2		57.6			
225			225	97.99	{9.99}	57.6		64.8			
250			250	88.19	{8.99}	64.0		72.0			
275			275	80.18	{8.18}	70.4		79.2			
300			300	73.50	{7.49}	76.8		86.4			
350			350	63.00	{6.42}	89.6		100.8			

Table of standards
规格表
中等负荷
TM

1N = 0.102 Kgf
 1N (牛顿) = 0.102 Kgf (千克)

Load (N) = Spring Constant (N/mm) × Deflection (mm)
 负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)



NEW 新产品 TM70

Medium load 中等负荷

Model 型号	Outside Diameter 外径 (mm)	Inside Diameter 内径 (mm)	Free length 自由长 (mm)	Spring Constant 弹簧常数		Free length × 25.6% 1,000,000 cycles 自由长 × 25.6% 100万次		Free length × 28.8% 500,000 cycles 自由长 × 28.8% 50万次		Free length × 32.0% 300,000 cycles 自由长 × 32.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TM 70 × 70	70	38.5	70	379.46	{ 38.69 }	17.9	6,800 {693.4}	20.2	7,650 {780.1}	22.4	8,500 {866.8}
80			80	332.03	{ 33.86 }	20.5		23.0		25.6	
90			90	295.14	{ 30.10 }	23.0		25.9		28.8	
100			100	265.63	{ 27.09 }	25.6		28.8		32.0	
125			125	212.50	{ 21.67 }	32.0		36.0		40.0	
150			150	177.08	{ 18.06 }	38.4		43.2		48.0	
175			175	151.79	{ 15.48 }	44.8		50.4		56.0	
200			200	132.81	{ 13.54 }	51.2		57.6		64.0	
225			225	118.06	{ 12.04 }	57.6		64.8		72.0	
250			250	106.25	{ 10.83 }	64.0		72.0		80.0	
275			275	96.59	{ 9.85 }	70.4		79.2		88.0	
300			300	88.54	{ 9.03 }	76.8		86.4		96.0	
350			350	75.89	{ 7.74 }	89.6		100.8		112.0	

1N = 0.102 Kgf

1N (牛顿) = 0.102 Kgf (千克)

Load (N) = Spring Constant (N/mm) × Deflection (mm)

负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)

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