

TD

② Table of standards 规格表

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		1,000,000cycles 100万次		500,000cycles 50万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TD 340 × 50	41.5	26.0	50	131.6	{ 13.42 }	13.8	1815 {185.1}	14.3	1884 {192.1}
75			73.7	{ 7.52 }	24.6	25.6			
100			52.6	{ 5.36 }	34.5	35.8			
125			40.9	{ 4.17 }	44.4	46.1			
150			32.9	{ 3.35 }	55.2	57.3			
200			24.2	{ 2.47 }	74.9	77.8			
250			19.2	{ 1.96 }	94.6	98.3			
TD 440 × 50	42.0	23.0	50	265.0	{ 27.02 }	10.7	2835 {289.1}	11.1	2943 {300.1}
75			158.3	{ 16.14 }	17.9	18.6			
100			110.3	{ 11.25 }	25.7	26.7			
125			86.2	{ 8.79 }	32.9	34.1			
150			70.8	{ 7.22 }	40.0	41.6			
200			52.2	{ 5.32 }	54.3	56.4			
250			41.4	{ 4.22 }	68.3	71.3			
TD 447 × 50	49.0	30.0	50	180.1	{ 18.37 }	13.7	2472 {252.1}	14.3	2570 {262.1}
100			77.2	{ 7.87 }	32.0	33.3			
150			48.1	{ 4.90 }	51.4	53.5			
200			34.3	{ 3.50 }	72.0	74.8			
250			27.0	{ 2.75 }	91.5	95.0			
300			22.1	{ 2.25 }	112.0	116.4			
TD 550 × 50	51.7	27.0	50	547.5	{ 55.83 }	8.8	4807 {490.2}	9.1	4993 {509.1}
100			223.7	{ 22.81 }	21.5	22.3			
150			137.3	{ 14.00 }	35.0	36.4			
200			100.6	{ 10.26 }	47.8	49.6			
250			79.4	{ 8.10 }	60.5	62.9			
300			65.6	{ 6.69 }	73.3	76.1			
TD 457 × 100	58.8	40.0	100	47.1	{ 4.80 }	44.0	2070 {211.1}	45.7	2158 {220.0}
150			31.0	{ 3.16 }	66.9	69.5			
200			22.6	{ 2.30 }	91.8	95.4			
250			18.4	{ 1.88 }	112.8	117.2			
300			14.7	{ 1.50 }	141.0	146.9			
TD 560 × 100	61.7	37.0	100	148.8	{ 15.17 }	27.8	4140 {422.1}	28.9	4297 {438.2}
150			87.5	{ 8.92 }	47.3	49.1			
200			63.3	{ 6.45 }	65.3	67.9			
250			50.5	{ 5.15 }	82.0	85.2			
300			41.3	{ 4.21 }	100.1	104.0			
TD 467 × 100	68.8	50.0	100	36.4	{ 3.71 }	49.6	1805 {184.1}	51.5	1874 {191.1}
150			22.9	{ 2.34 }	78.8	81.9			
200			17.2	{ 1.75 }	105.0	109.1			
250			13.4	{ 1.37 }	134.2	139.5			
300			11.0	{ 1.12 }	163.4	169.8			
TD 570 × 100	71.5	47.0	100	99.3	{ 10.13 }	36.5	3620 {369.1}	37.9	3767 {384.1}
150			60.3	{ 6.15 }	60.1	62.5			
200			44.5	{ 4.54 }	81.6	84.5			
250			35.1	{ 3.58 }	103.1	107.1			
300			28.6	{ 2.92 }	126.7	131.6			

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)

Table of
standards
规格表
TD



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TE

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		1,000,000cycles 100万次		500,000cycles 50万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TE 440 × 50	43.0	23.0	50	423.2	{ 43.15 }	8.4	3571 {364.1}	8.8	3708 {378.1}
75			75	239.4	{ 24.41 }	14.9		15.5	
100			100	166.9	{ 17.02 }	21.4		22.2	
125			125	125.3	{ 12.78 }	28.5		29.6	
150			150	101.9	{ 10.39 }	35.0		36.4	
200			200	74.4	{ 7.59 }	48.0		49.9	
250			250	65.5	{ 6.68 }	54.5		56.6	
TE 447 × 50	50.5	30.0	50	274.0	{ 27.94 }	11.4	3120 {318.1}	11.8	3237 {330.1}
100			100	111.7	{ 11.39 }	27.9		29.0	
150			150	67.1	{ 6.84 }	46.5		48.3	
200			200	48.7	{ 4.97 }	64.0		66.5	
250			250	38.2	{ 3.90 }	81.6		84.7	
300			300	30.8	{ 3.14 }	101.2		105.1	
TE 550 × 100	53.0	27.0	100	344.8	{ 35.16 }	18.4	6337 {646.2}	19.1	6592 {672.2}
150			150	213.4	{ 21.76 }	29.7		30.9	
200			200	149.5	{ 15.24 }	42.4		44.1	
250			250	118.1	{ 12.04 }	53.7		55.8	
300			300	97.4	{ 9.93 }	65.1		67.6	
TE 457 × 100	60.5	40.0	100	68.9	{ 7.03 }	38.1	2629 {268.1}	39.6	2727 {278.1}
150			150	42.1	{ 4.29 }	62.4		64.9	
200			200	30.3	{ 3.09 }	86.7		90.1	
250			250	24.1	{ 2.46 }	109.2		113.5	
300			300	19.7	{ 2.01 }	133.5		138.7	
TE 560 × 100	62.5	37.0	100	206.0	{ 21.01 }	26.4	5445 {555.2}	27.5	5660 {577.1}
150			150	124.9	{ 12.74 }	43.6		45.3	
200			200	89.7	{ 9.15 }	60.7		63.1	
250			250	69.9	{ 7.13 }	77.9		80.9	
300			300	57.6	{ 5.87 }	94.5		98.2	
TE 570 × 100	73.0	47.0	100	140.4	{ 14.32 }	33.9	4758 {485.2}	35.2	4944 {504.1}
150			150	84.4	{ 8.61 }	56.4		58.6	
200			200	61.7	{ 6.29 }	77.1		80.1	
250			250	47.7	{ 4.86 }	99.7		103.6	
300			300	38.9	{ 3.97 }	122.3		127.0	

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)

Caution
注意

Names do not coincide with outer diameters. Please refer to the table of standard outer diameters.
弹簧型号里不包含弹簧外径。弹簧外径请从规格表中确认。



Please adhere to the following items when using our products. Due to their condition of use, springs can scatter upon breaking and be a cause of injury.

- Please do not employ TD or TE with a usage exceeding 500 thousand.
 - Please install the spring in a slightly compressed condition (state of initial pressure).
- 使用时请遵守以下事项。使用方法不当，有可能因断裂弹簧的飞散等导致人身伤害。
- TD、TE 系列弹簧的使用压缩量不可超过50万次寿命时的压缩量。
 - 在设置弹簧时，应使弹簧在受压缩的状态(有预压的状态)下使用。