内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×32% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×36% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	24.53 {2.50}	3.2		3.6		4.0				10
	16.35 {1.67}	4.8		5.4		6.0				15
	12.26 {1.25}	6.4		7.2		8.0				20
	9.81 {1.00}	8.0		9.0		10.0				25
	8.18 {0.83}	9.6		10.8		12.0				30
	7.01 {0.71}	11.2		12.6		14.0				35
	6.13 {0.63}	12.8	78.5 {8.0}	14.4	88.3 {9.0}	16.0	98.1 {10.0}			40
4	5.45 {0.56}	14.4		16.2		18.0			8	45
	4.91 {0.50}	16.0		18.0		20.0				50
	4.46 {0.45}	17.6		19.8		22.0				55
	4.09 {0.42}	19.2		21.6		24.0				60
	3.77 {0.38}	20.8		23.4		26.0				65
	3.50 {0.36}	22.4		25.2		28.0				70
	3.27 {0.33}	24.0		27.0		30.0				75
	3.07 {0.31}	25.6		28.8		32.0				80
	17.71 {1.81}	6.4		7.2		8.0				20
	14.17 {1.44}	8.0		9.0		10.0				25
	11.81 {1.20}	9.6		10.8		12.0				30
	10.12 {1.03}	11.2		12.6		14.0				35
	8.85 {0.90}	12.8		14.4		16.0				40
	7.87 {0.80}	14.4		16.2		18.0				45
	7.08 {0.72}	16.0	112.8 {11.5}	18.0	127.5 {13.0}	20.0	142.2 {14.5}			50
5	6.44 {0.66}	17.6		19.8		22.0		TL	10	55
	5.90 {0.60}	19.2		21.6		24.0				60
	5.45 {0.56}	20.8		23.4		26.0				65
	5.06 {0.52}	22.4		25.2		28.0				70
	4.72 {0.48}	24.0		27.0		30.0				75
	4.43 {0.45}	25.6		28.8		32.0				80
	3.94 {0.40}	28.8		32.4		36.0				90
	25.88 {2.64}	6.4		7.2		8.0				20
	20.70 {2.11}	8.0		9.0		10.0				25
	17.25 {1.76}	9.6		10.8		12.0				30
	14.79 {1.51}	11.2		12.6		14.0				35
	12.94 {1.32}	12.8		14.4		16.0				40
	11.50 {1.17}	14.4		16.2		18.0				45
6	10.35 {1.06}	16.0	166.7 {17.0}	18.0	186.3 {19.0}	20.0	206.0 {21.0}		12	50
	9.41 {0.96}	17.6		19.8		22.0				55
	8.63 {0.88}	19.2		21.6		24.0				60
	7.96 {0.81}	20.8		23.4		26.0				65
	7.39 {0.75}	22.4		25.2		28.0				70
	6.90 {0.70}	24.0		27.0		30.0				75
	6.47 {0.66}	25.6		28.8		32.0				80
	5.75 {0.59}	28.8		32.4		36.0				90

⚠ 自由長 ×40%を超えるたわみでは使用しないでください。　荷重（N）＝ばね定数（N／mm）× たわみ（mm）

Order

Catalog No.	D	–	L
TL	8	–	10

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×32% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×36% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	27.22 {2.78}	8.0		9.0		10.0				25
	22.69 {2.31}	9.6		10.8		12.0				30
	19.44 {1.98}	11.2		12.6		14.0				35
	17.01 {1.73}	12.8		14.4		16.0				40
	15.12 {1.54}	14.4		16.2		18.0				45
	13.61 {1.39}	16.0		18.0		20.0				50
	12.37 {1.26}	17.6	216 {22.0}	19.8	245 {25.0}	22.0	275 {28.0}			55
7	11.34 {1.16}	19.2		21.6		24.0			14	60
	10.47 {1.07}	20.8		23.4		26.0				65
	9.72 {0.99}	22.4		25.2		28.0				70
	9.07 {0.93}	24.0		27.0		30.0				75
	8.51 {0.87}	25.6		28.8		32.0				80
	7.56 {0.77}	28.8		32.4		36.0				90
	6.81 {0.69}	32.0		36.0		40.0				100
	34.89 {3.56}	8.0		9.0		10.0				25
	29.07 {2.96}	9.6		10.8		12.0				30
	24.92 {2.54}	11.2		12.6		14.0				35
	21.81 {2.22}	12.8		14.4		16.0				40
	19.38 {1.98}	14.4		16.2		18.0				45
	17.44 {1.78}	16.0		18.0		20.0				50
	15.86 {1.62}	17.6		19.8		22.0				55
	14.54 {1.48}	19.2	275 {28.0}	21.6	314 {32.0}	24.0	343 {35.0}			60
8	13.42 {1.37}	20.8		23.4		26.0		TL	16	65
	12.46 {1.27}	22.4		25.2		28.0				70
	11.63 {1.19}	24.0		27.0		30.0				75
	10.90 {1.11}	25.6		28.8		32.0				80
	9.69 {0.99}	28.8		32.4		36.0				90
	8.72 {0.89}	32.0		36.0		40.0				100
	6.98 {0.71}	40.0		45.0		50.0				125
	42.44 {4.33}	8.0		9.0		10.0				25
	35.37 {3.61}	9.6		10.8		12.0				30
	30.32 {3.09}	11.2		12.6		14.0				35
	26.53 {2.71}	12.8		14.4		16.0				40
	23.58 {2.40}	14.4		16.2		18.0				45
	21.22 {2.16}	16.0		18.0		20.0				50
	19.29 {1.97}	17.6	333 {34.0}	19.8	382 {39.0}	22.0	422 {43.0}			55
9	17.69 {1.80}	19.2		21.6		24.0			18	60
	16.32 {1.66}	20.8		23.4		26.0				65
	15.16 {1.55}	22.4		25.2		28.0				70
	14.15 {1.44}	24.0		27.0		30.0				75
	13.26 {1.35}	25.6		28.8		32.0				80
	11.79 {1.20}	28.8		32.4		36.0				90
	10.61 {1.08}	32.0		36.0		40.0				100
	8.49 {0.87}	40.0		45.0		50.0				125

⚠ 自由長 ×40%を超えるたわみでは使用しないでください。　荷重（N）＝ばね定数（N／mm）× たわみ（mm）

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COIL SPRING

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×32% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×36% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	53.44 {5.45}	8.0		9.0		10.0				25
	44.54 {4.54}	9.6		10.8		12.0				30
	38.17 {3.89}	11.2		12.6		14.0				35
	33.40 {3.41}	12.8		14.4		16.0				40
	29.69 {3.03}	14.4		16.2		18.0				45
	26.72 {2.72}	16.0		18.0		20.0				50
	24.29 {2.48}	17.6	422 {43.0}	19.8	481 {49.0}	22.0	530 {54.0}			55
10	22.27 {2.27}	19.2		21.6		24.0			20	60
	20.56 {2.10}	20.8		23.4		26.0				65
	19.09 {1.95}	22.4		25.2		28.0				70
	17.81 {1.82}	24.0		27.0		30.0				75
	16.70 {1.70}	25.6		28.8		32.0				80
	14.85 {1.51}	28.8		32.4		36.0				90
	13.36 {1.36}	32.0		36.0		40.0				100
	10.69 {1.09}	40.0		45.0		50.0				125
	8.91 {0.91}	48.0		54.0		60.0				150
	65.33 {6.66}	8.0		9.0		10.0				25
	54.44 {5.55}	9.6		10.8		12.0		TL		30
	46.67 {4.76}	11.2		12.6		14.0				35
	40.83 {4.16}	12.8		14.4		16.0				40
	36.30 {3.70}	14.4		16.2		18.0				45
	32.67 {3.33}	16.0	530 {54.0}	18.0	588 {60.0}	20.0	657 {67.0}			50
11	29.70 {3.03}	17.6		19.8		22.0			22	55
	27.22 {2.78}	19.2		21.6		24.0				60
	25.13 {2.56}	20.8		23.4		26.0				65
	23.33 {2.38}	22.4		25.2		28.0				70
	21.78 {2.22}	24.0		27.0		30.0				75
	20.42 {2.08}	25.6		28.8		32.0				80
	18.15 {1.85}	28.8		32.4		36.0				90
	16.33 {1.67}	32.0		36.0		40.0				100
	13.07 {1.33}	40.0		45.0		50.0				125
	10.89 {1.11}	48.0		54.0		60.0				150

⚠ 自由長 ×40%を超えるたわみでは使用しないでください。　荷重（N）＝ばね定数（N／mm）× たわみ（mm）

Order

Catalog No.	D	–	L
TL	20	–	25

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×32% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×36% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	82.78 {8.44}	8.0		9.0		10.0				25
	68.98 {7.03}	9.6		10.8		12.0				30
	59.13 {6.03}	11.2		12.6		14.0				35
	51.74 {5.28}	12.8		14.4		16.0				40
	45.99 {4.69}	14.4		16.2		18.0				45
	41.39 {4.22}	16.0		18.0		20.0				50
	37.63 {3.84}	17.6		19.8		22.0				55
	34.49 {3.52}	19.2	657 {67.0}	21.6	745 {76.0}	24.0	824 {84.0}			60
12.5	31.84 {3.25}	20.8		23.4		26.0			25	65
	29.56 {3.01}	22.4		25.2		28.0				70
	27.59 {2.81}	24.0		27.0		30.0				75
	25.87 {2.64}	25.6		28.8		32.0				80
	22.99 {2.34}	28.8		32.4		36.0				90
	20.69 {2.11}	32.0		36.0		40.0				100
	16.56 {1.69}	40.0		45.0		50.0				125
	13.80 {1.41}	48.0		54.0		60.0				150
	11.83 {1.21}	56.0		63.0		70.0				175
	10.35 {1.06}	64.0		72.0		80.0				200
	98.11 {10.00}	8.0		9.0		10.0		TL		25
	81.76 {8.34}	9.6		10.8		12.0				30
	70.08 {7.15}	11.2		12.6		14.0				35
	61.32 {6.25}	12.8		14.4		16.0				40
	54.51 {5.56}	14.4		16.2		18.0				45
	49.06 {5.00}	16.0		18.0		20.0				50
	44.60 {4.55}	17.6	785 {80.0}	19.8	883 {90.0}	22.0	981 {100.0}			55
13.5	40.88 {4.17}	19.2		21.6		24.0			27	60
	37.74 {3.85}	20.8		23.4		26.0				65
	35.04 {3.57}	22.4		25.2		28.0				70
	32.70 {3.33}	24.0		27.0		30.0				75
	30.66 {3.13}	25.6		28.8		32.0				80
	27.25 {2.78}	28.8		32.4		36.0				90
	24.53 {2.50}	32.0		36.0		40.0				100
	19.62 {2.00}	40.0		45.0		50.0				125
	16.35 {1.67}	48.0		54.0		60.0				150
	14.02 {1.43}	56.0		63.0		70.0				175
	12.26 {1.25}	64.0		72.0		80.0				200

⚠ 自由長 ×40%を超えるたわみでは使用しないでください。　荷重（N）＝ばね定数（N／mm）× たわみ（mm）

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COIL SPRING

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×32% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×36% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	118.78 {12.11}	8.0		9.0		10.0				25
	98.98 {10.09}	9.6		10.8		12.0				30
	84.84 {8.65}	11.2		12.6		14.0				35
	74.24 {7.57}	12.8		14.4		16.0				40
	65.99 {6.73}	14.4		16.2		18.0				45
	59.39 {6.06}	16.0		18.0		20.0				50
	53.99 {5.51}	17.6		19.8		22.0				55
	49.49 {5.05}	19.2	951 {97.0}	21.6	1,069 {109.0}	24.0	1,187 {121.0}			60
15	45.68 {4.66}	20.8		23.4		26.0			30	65
	42.42 {4.33}	22.4		25.2		28.0				70
	39.59 {4.04}	24.0		27.0		30.0				75
	37.12 {3.78}	25.6		28.8		32.0				80
	32.99 {3.36}	28.8		32.4		36.0				90
	29.69 {3.03}	32.0		36.0		40.0				100
	23.76 {2.42}	40.0		45.0		50.0				125
	19.80 {2.02}	48.0		54.0		60.0				150
	16.97 {1.73}	56.0		63.0		70.0				175
	14.85 {1.51}	64.0		72.0		80.0		TL		200
	101.46 {10.35}	12.8		14.4		16.0				40
	90.19 {9.20}	14.4		16.2		18.0				45
	81.17 {8.28}	16.0		18.0		20.0				50
	73.79 {7.52}	17.6		19.8		22.0				55
	67.64 {6.90}	19.2		21.6		24.0				60
	62.44 {6.37}	20.8		23.4		26.0				65
	57.98 {5.91}	22.4	1,295 {132.1}	25.2	1,461 {149.0}	28.0	1,618 {165.0}			70
17.5	54.11 {5.52}	24.0		27.0		30.0			35	75
	50.73 {5.17}	25.6		28.8		32.0				80
	45.09 {4.60}	28.8		32.4		36.0				90
	40.58 {4.14}	32.0		36.0		40.0				100
	32.47 {3.31}	40.0		45.0		50.0				125
	27.06 {2.76}	48.0		54.0		60.0				150
	23.19 {2.36}	56.0		63.0		70.0				175
	20.29 {2.07}	64.0		72.0		80.0				200

⚠ 自由長 ×40%を超えるたわみでは使用しないでください。　荷重（N）＝ばね定数（N／mm）× たわみ（mm）

Order

Catalog No.	D	−	L
TL	30	−	25

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×32% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×36% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×40% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	132.15 {13.48}	12.8		14.4		16.0				40
	117.47 {11.98}	14.4		16.2		18.0				45
	105.72 {10.78}	16.0		18.0		20.0				50
	96.11 {9.80}	17.6		19.8		22.0				55
	88.10 {8.98}	19.2		21.6		24.0				60
	81.32 {8.29}	20.8		23.4		26.0				65
	75.52 {7.70}	22.4		25.2		28.0				70
	70.48 {7.19}	24.0		27.0		30.0				75
	66.08 {6.74}	25.6		28.8		32.0				80
20	58.73 {5.99}	28.8	1,697 {173.0}	32.4	1,903 {194.1}	36.0	2,120 {216.2}		40	90
	52.86 {5.39}	32.0		36.0		40.0				100
	42.29 {4.31}	40.0		45.0		50.0				125
	35.24 {3.59}	48.0		54.0		60.0				150
	30.21 {3.08}	56.0		63.0		70.0				175
	26.43 {2.70}	64.0		72.0		80.0				200
	23.49 {2.40}	72.0		81.0		90.0				225
	21.14 {2.16}	80.0		90.0		100.0				250
	19.22 {1.96}	88.0		99.0		110.0				275
	17.62 {1.80}	96.0		108.0		120.0				300
	165.56 {16.88}	16.0		18.0		20.0				50
	150.51 {15.35}	17.6		19.8		22.0		TL		55
	137.96 {14.07}	19.2		21.6		24.0				60
	127.35 {12.99}	20.8		23.4		26.0				65
	118.25 {12.06}	22.4		25.2		28.0				70
	110.37 {11.25}	24.0		27.0		30.0				75
	103.47 {10.55}	25.6		28.8		32.0				80
	91.98 {9.38}	28.8		32.4		36.0				90
	82.78 {8.44}	32.0		36.0		40.0				100
	66.22 {6.75}	40.0	2,650 {270.2}	45.0	2,980 {303.9}	50.0	3,310 {337.5}			125
25	55.19 {5.63}	48.0		54.0		60.0			50	150
	47.30 {4.82}	56.0		63.0		70.0				175
	41.39 {4.22}	64.0		72.0		80.0				200
	36.79 {3.75}	72.0		81.0		90.0				225
	33.11 {3.38}	80.0		90.0		100.0				250
	30.10 {3.07}	88.0		99.0		110.0				275
	27.59 {2.81}	96.0		108.0		120.0				300
	23.65 {2.41}	112.0		126.0		140.0				350
	20.69 {2.11}	128.0		144.0		160.0				400
	18.40 {1.88}	144.0		162.0		180.0				450
	16.56 {1.69}	160.0		180.0		200.0				500

⚠ 自由長 ×40%を超えるたわみでは使用しないでください。　荷重（N）＝ばね定数（N／mm）× たわみ（mm）

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COIL SPRING

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×32% 100 万回 たわみ (mm)	荷 重 N {kgf}	自由長 ×36% 50 万回 たわみ (mm)	荷 重 N {kgf}	自由長 ×40% 30 万回 たわみ (mm)	荷 重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	198.61 {20.25}	19.2		21.6		24.0				60
	170.24 {17.36}	22.4		25.2		28.0				70
	148.96 {15.19}	25.6		28.8		32.0				80
	132.41 {13.50}	28.8		32.4		36.0				90
	119.17 {12.15}	32.0		36.0		40.0				100
	95.33 {9.72}	40.0		45.0		50.0				125
	79.44 {8.10}	48.0		54.0		60.0				150
	68.10 {6.94}	56.0	3,810 {388.5}	63.0	4,290 {437.5}	70.0	4,770 {486.4}			175
30	59.58 {6.08}	64.0		72.0		80.0			60	200
	52.96 {5.40}	72.0		81.0		90.0				225
	47.67 {4.86}	80.0		90.0		100.0				250
	43.33 {4.42}	88.0		99.0		110.0				275
	39.72 {4.05}	96.0		108.0		120.0				300
	34.05 {3.47}	112.0		126.0		140.0				350
	29.79 {3.04}	128.0		144.0		160.0				400
	26.48 {2.70}	144.0		162.0		180.0		TL		450
	23.83 {2.43}	160.0		180.0		200.0				500
	217.86 {22.22}	22.4		25.2		28.0				70
	190.63 {19.44}	25.6		28.8		32.0				80
	169.44 {17.28}	28.8		32.4		36.0				90
	152.50 {15.55}	32.0		36.0		40.0				100
	122.00 {12.44}	40.0		45.0		50.0				125
	101.67 {10.37}	48.0		54.0		60.0				150
38.5	87.14 {8.89}	56.0	4,880 {497.6}	63.0	5,490 {559.8}	70.0	6,100 {622.0}		70	175
	76.25 {7.78}	64.0		72.0		80.0				200
	67.78 {6.91}	72.0		81.0		90.0				225
	61.00 {6.22}	80.0		90.0		100.0				250
	55.45 {5.65}	88.0		99.0		110.0				275
	50.83 {5.18}	96.0		108.0		120.0				300
	43.57 {4.44}	112.0		126.0		140.0				350

⚠ 自由長 ×40%を超えるたわみでは使用しないでください。　荷重（N）＝ばね定数（N／mm）× たわみ（mm）

Order

Catalog No.	D	–	L
TL	60	–	60

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