内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×25.6% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×28.8% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×32% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	42.57 {4.34}	2.6		2.9		3.2				10
	28.38 {2.89}	3.8		4.3		4.8				15
	21.28 {2.17}	5.1		5.8		6.4				20
	17.03 {1.74}	6.4		7.2		8.0				25
	14.19 {1.45}	7.7		8.6		9.6				30
	12.16 {1.24}	9.0		10.1		11.2				35
	10.64 {1.09}	10.2	108 {11.0}	11.5	123 {12.5}	12.8	137 {14.0}			40
4	9.46 {0.96}	11.5		13.0		14.4			8	45
	8.51 {0.87}	12.8		14.4		16.0				50
	7.74 {0.79}	14.1		15.8		17.6				55
	7.09 {0.72}	15.4		17.3		19.2				60
	6.55 {0.67}	16.6		18.7		20.8				65
	6.08 {0.62}	17.9		20.2		22.4				70
	5.68 {0.58}	19.2		21.6		24.0				75
	5.32 {0.54}	20.5		23.0		25.6				80
	30.64 {3.12}	5.1		5.8		6.4				20
	24.51 {2.50}	6.4		7.2		8.0				25
	20.43 {2.08}	7.7		8.6		9.6				30
	17.51 {1.79}	9.0		10.1		11.2				35
	15.32 {1.56}	10.2		11.5		12.8				40
	13.62 {1.39}	11.5	157 {16.0}	13.0	177 {18.0}	14.4	196 {20.0}			45
5	12.26 {1.25}	12.8		14.4		16.0		TM	10	50
	11.14 {1.14}	14.1		15.8		17.6				55
	10.21 {1.04}	15.4		17.3		19.2				60
	9.43 {0.96}	16.6		18.7		20.8				65
	8.75 {0.89}	17.9		20.2		22.4				70
	8.17 {0.83}	19.2		21.6		24.0				75
	7.66 {0.78}	20.5		23.0		25.6				80
	6.81 {0.69}	23.0		25.9		28.8				90
	44.27 {4.51}	5.1		5.8		6.4				20
	35.42 {3.61}	6.4		7.2		8.0				25
	29.51 {3.01}	7.7		8.6		9.6				30
	25.30 {2.58}	9.0		10.1		11.2				35
	22.14 {2.26}	10.2		11.5		12.8				40
	19.68 {2.01}	11.5		13.0		14.4				45
6	17.71 {1.81}	12.8	226 {23.0}	14.4	255 {26.0}	16.0	284 {29.0}		12	50
	16.10 {1.64}	14.1		15.8		17.6				55
	14.76 {1.50}	15.4		17.3		19.2				60
	13.62 {1.39}	16.6		18.7		20.8				65
	12.65 {1.29}	17.9		20.2		22.4				70
	11.81 {1.20}	19.2		21.6		24.0				75
	11.07 {1.13}	20.5		23.0		25.6				80
	9.84 {1.00}	23.0		25.9		28.8				90

⚠ 自由長 ×32%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
TM	8	–	10

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×25.6% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×28.8% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×32% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	47.64 {4.86}	6.4		7.2		8.0				25
	39.70 {4.05}	7.7		8.6		9.6				30
	34.03 {3.47}	9.0		10.1		11.2				35
	29.77 {3.04}	10.2		11.5		12.8				40
	26.47 {2.70}	11.5		13.0		14.4				45
	23.82 {2.43}	12.8	304 {31.0}	14.4	343 {35.0}	16.0	383 {39.1}			50
7	21.65 {2.21}	14.1		15.8		17.6			14	55
	19.85 {2.02}	15.4		17.3		19.2				60
	18.32 {1.87}	16.6		18.7		20.8				65
	17.01 {1.73}	17.9		20.2		22.4				70
	15.88 {1.62}	19.2		21.6		24.0				75
	14.89 {1.52}	20.5		23.0		25.6				80
	13.23 {1.35}	23.0		25.9		28.8				90
	11.91 {1.21}	25.6		28.8		32.0				100
	62.64 {6.39}	6.4		7.2		8.0				25
	52.20 {5.32}	7.7		8.6		9.6				30
	44.74 {4.56}	9.0		10.1		11.2				35
	39.15 {3.99}	10.2		11.5		12.8				40
	34.80 {3.55}	11.5		13.0		14.4				45
	31.32 {3.19}	12.8		14.4		16.0				50
	28.47 {2.90}	14.1		15.8		17.6				55
8	26.10 {2.66}	15.4	402 {41.0}	17.3	451 {46.0}	19.2	500 {51.0}	TM	16	60
	24.09 {2.46}	16.6		18.7		20.8				65
	22.37 {2.28}	17.9		20.2		22.4				70
	20.88 {2.13}	19.2		21.6		24.0				75
	19.57 {2.00}	20.5		23.0		25.6				80
	17.40 {1.77}	23.0		25.9		28.8				90
	15.66 {1.60}	25.6		28.8		32.0				100
	12.53 {1.28}	32.0		36.0		40.0				125
	79.03 {8.06}	6.4		7.2		8.0				25
	65.86 {6.72}	7.7		8.6		9.6				30
	56.45 {5.76}	9.0		10.1		11.2				35
	49.39 {5.04}	10.2		11.5		12.8				40
	43.90 {4.48}	11.5		13.0		14.4				45
	39.51 {4.03}	12.8		14.4		16.0				50
	35.92 {3.66}	14.1	510 {52.0}	15.8	569 {58.0}	17.6	637 {65.0}			55
9	32.93 {3.36}	15.4		17.3		19.2			18	60
	30.40 {3.10}	16.6		18.7		20.8				65
	28.22 {2.88}	17.9		20.2		22.4				70
	26.34 {2.69}	19.2		21.6		24.0				75
	24.70 {2.52}	20.5		23.0		25.6				80
	21.95 {2.24}	23.0		25.9		28.8				90
	19.76 {2.01}	25.6		28.8		32.0				100
	15.81 {1.61}	32.0		36.0		40.0				125

⚠ 自由長 ×32%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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中荷重
TM MIDDLE RANGE LOADS

COIL SPRING

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×25.6% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×28.8% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×32% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	98.06 {10.00}	6.4		7.2		8.0				25
	81.71 {8.33}	7.7		8.6		9.6				30
	70.04 {7.14}	9.0		10.1		11.2				35
	61.28 {6.25}	10.2		11.5		12.8				40
	54.48 {5.55}	11.5		13.0		14.4				45
	49.03 {5.00}	12.8		14.4		16.0				50
	44.57 {4.54}	14.1	628 {64.0}	15.8	706 {72.0}	17.6	785 {80.0}			55
10	40.86 {4.17}	15.4		17.3		19.2			20	60
	37.71 {3.85}	16.6		18.7		20.8				65
	35.02 {3.57}	17.9		20.2		22.4				70
	32.69 {3.33}	19.2		21.6		24.0				75
	30.64 {3.12}	20.5		23.0		25.6				80
	27.24 {2.78}	23.0		25.9		28.8				90
	24.51 {2.50}	25.6		28.8		32.0				100
	19.61 {2.00}	32.0		36.0		40.0				125
	16.34 {1.67}	38.4		43.2		48.0				150
	118.47 {12.08}	6.4		7.2		8.0		TM		25
	98.73 {10.07}	7.7		8.6		9.6				30
	84.62 {8.63}	9.0		10.1		11.2				35
	74.05 {7.55}	10.2		11.5		12.8				40
	65.82 {6.71}	11.5		13.0		14.4				45
	59.24 {6.04}	12.8		14.4		16.0				50
	53.85 {5.49}	14.1	765 {78.0}	15.8	853 {87.0}	17.6	951 {97.0}			55
11	49.36 {5.03}	15.4		17.3		19.2			22	60
	45.57 {4.65}	16.6		18.7		20.8				65
	42.31 {4.31}	17.9		20.2		22.4				70
	39.49 {4.03}	19.2		21.6		24.0				75
	37.02 {3.78}	20.5		23.0		25.6				80
	32.91 {3.36}	23.0		25.9		28.8				90
	29.62 {3.02}	25.6		28.8		32.0				100
	23.69 {2.42}	32.0		36.0		40.0				125
	19.75 {2.01}	38.4		43.2		48.0				150

⚠ 自由長 ×32%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
TM	20	–	25

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×25.6% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×28.8% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×32% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	152.50 {15.55}	6.4		7.2		8.0				25
	127.08 {12.96}	7.7		8.6		9.6				30
	108.93 {11.11}	9.0		10.1		11.2				35
	95.31 {9.72}	10.2		11.5		12.8				40
	84.72 {8.64}	11.5		13.0		14.4				45
	76.25 {7.78}	12.8		14.4		16.0				50
	69.32 {7.07}	14.1		15.8		17.6				55
	63.54 {6.48}	15.4		17.3		19.2				60
	58.65 {5.98}	16.6		18.7		20.8				65
12.5	54.46 {5.55}	17.9	981 {100.0}	20.2	1,098 {112.0}	22.4	1,226 {125.0}		25	70
	50.83 {5.18}	19.2		21.6		24.0				75
	47.66 {4.86}	20.5		23.0		25.6				80
	42.36 {4.32}	23.0		25.9		28.8				90
	38.13 {3.89}	25.6		28.8		32.0				100
	30.50 {3.11}	32.0		36.0		40.0				125
	25.42 {2.59}	38.4		43.2		48.0				150
	21.79 {2.22}	44.8		50.4		56.0				175
	19.06 {1.94}	51.2		57.6		64.0				200
	178.47 {18.20}	6.4		7.2		8.0		TM		25
	148.73 {15.17}	7.7		8.6		9.6				30
	127.48 {13.00}	9.0		10.1		11.2				35
	111.55 {11.37}	10.2		11.5		12.8				40
	99.15 {10.11}	11.5		13.0		14.4				45
	89.24 {9.10}	12.8		14.4		16.0				50
	81.12 {8.27}	14.1		15.8		17.6				55
	74.36 {7.58}	15.4		17.3		19.2				60
	68.64 {7.00}	16.6	1,147 {117.0}	18.7	1,285 {131.0}	20.8	1,432 {146.0}			65
13.5	63.74 {6.50}	17.9		20.2		22.4			27	70
	59.49 {6.07}	19.2		21.6		24.0				75
	55.77 {5.69}	20.5		23.0		25.6				80
	49.58 {5.06}	23.0		25.9		28.8				90
	44.62 {4.55}	25.6		28.8		32.0				100
	35.69 {3.64}	32.0		36.0		40.0				125
	29.75 {3.03}	38.4		43.2		48.0				150
	25.50 {2.60}	44.8		50.4		56.0				175
	22.31 {2.27}	51.2		57.6		64.0				200

⚠ 自由長 ×32%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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中荷重
TM MIDDLE RANGE LOADS

COIL SPRING

内径 (mm)	ばね定数 N／mm{kgf／mm}	自由長 ×25.6% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×28.8% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×32% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	219.31 {22.36}	6.4		7.2		8.0				25
	182.75 {18.64}	7.7		8.6		9.6				30
	156.65 {15.97}	9.0		10.1		11.2				35
	137.07 {13.98}	10.2		11.5		12.8				40
	121.84 {12.42}	11.5		13.0		14.4				45
	109.65 {11.18}	12.8		14.4		16.0				50
	99.68 {10.16}	14.1		15.8		17.6				55
	91.38 {9.32}	15.4	1,412 {144.0}	17.3	1,579 {161.0}	19.2	1,765 {180.0}			60
15	84.35 {8.60}	16.6		18.7		20.8			30	65
	78.32 {7.99}	17.9		20.2		22.4				70
	73.10 {7.45}	19.2		21.6		24.0				75
	68.53 {6.99}	20.5		23.0		25.6				80
	60.92 {6.21}	23.0		25.9		28.8				90
	54.83 {5.59}	25.6		28.8		32.0				100
	43.86 {4.47}	32.0		36.0		40.0				125
	36.55 {3.73}	38.4		43.2		48.0				150
	31.33 {3.19}	44.8		50.4		56.0		TM		175
	27.41 {2.80}	51.2		57.6		64.0				200
	187.50 {19.12}	10.2		11.5		12.8				40
	166.67 {17.00}	11.5		13.0		14.4				45
	150.00 {15.30}	12.8		14.4		16.0				50
	136.36 {13.91}	14.1		15.8		17.6				55
	125.00 {12.75}	15.4		17.3		19.2				60
	115.38 {11.77}	16.6		18.7		20.8				65
	107.14 {10.93}	17.9	1,912 {195.0}	20.2	2,160 {220.3}	22.4	2,400 {244.7}			70
17.5	100.00 {10.20}	19.2		21.6		24.0			35	75
	93.75 {9.56}	20.5		23.0		25.6				80
	83.33 {8.50}	23.0		25.9		28.8				90
	75.00 {7.65}	25.6		28.8		32.0				100
	60.00 {6.12}	32.0		36.0		40.0				125
	50.00 {5.10}	38.4		43.2		48.0				150
	42.86 {4.37}	44.8		50.4		56.0				175
	37.50 {3.82}	51.2		57.6		64.0				200

⚠ 自由長 ×32%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
TM	30	–	25

内径 (mm)	ばね定数 N／mm{kgf／mm}	自由長 ×25.6% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×28.8% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×32% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	244.79 {24.96}	10.2		11.5		12.8				40
	217.59 {22.19}	11.5		13.0		14.4				45
	195.83 {19.97}	12.8		14.4		16.0				50
	178.03 {18.15}	14.1		15.8		17.6				55
	163.19 {16.64}	15.4		17.3		19.2				60
	150.64 {15.36}	16.6		18.7		20.8				65
	139.88 {14.26}	17.9		20.2		22.4				70
	130.56 {13.31}	19.2		21.6		24.0				75
	122.40 {12.48}	20.5		23.0		25.6				80
20	108.80 {11.09}	23.0	2,510 {256.0}	25.9	2,820 {287.6}	28.8	3,140 {320.2}		40	90
	97.92 {9.98}	25.6		28.8		32.0				100
	78.33 {7.99}	32.0		36.0		40.0				125
	65.28 {6.66}	38.4		43.2		48.0				150
	55.95 {5.71}	44.8		50.4		56.0				175
	48.96 {4.99}	51.2		57.6		64.0				200
	43.52 {4.44}	57.6		64.8		72.0				225
	39.17 {3.99}	64.0		72.0		80.0				250
	35.61 {3.63}	70.4		79.2		88.0				275
	32.64 {3.33}	76.8		86.4		96.0		TM		300
	306.25 {31.23}	12.8		14.4		16.0				50
	278.41 {28.39}	14.1		15.8		17.6				55
	255.21 {26.02}	15.4		17.3		19.2				60
	235.58 {24.02}	16.6		18.7		20.8				65
	218.75 {22.31}	17.9		20.2		22.4				70
	204.17 {20.82}	19.2		21.6		24.0				75
	191.41 {19.52}	20.5		23.0		25.6				80
	170.14 {17.35}	23.0		25.9		28.8				90
25	153.13 {15.61}	25.6	3,920 {399.7}	28.8	4,410 {449.7}	32.0	4,900 {499.7}		50	100
	122.50 {12.49}	32.0		36.0		40.0				125
	102.08 {10.41}	38.4		43.2		48.0				150
	87.50 {8.92}	44.8		50.4		56.0				175
	76.56 {7.81}	51.2		57.6		64.0				200
	68.06 {6.94}	57.6		64.8		72.0				225
	61.25 {6.25}	64.0		72.0		80.0				250
	55.68 {5.68}	70.4		79.2		88.0				275
	51.04 {5.20}	76.8		86.4		96.0				300
	43.75 {4.46}	89.6		100.8		112.0				350

⚠ 自由長 ×32%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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中荷重
TM MIDDLE RANGE LOADS

COIL SPRING

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×25.6% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×28.8% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×32% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	367.48 {37.47}	15.4		17.3		19.2				60
	314.98 {32.12}	17.9		20.2		22.4				70
	275.61 {28.10}	20.5		23.0		25.6				80
	244.98 {24.98}	23.0		25.9		28.8				90
	220.49 {22.48}	25.6		28.8		32.0				100
	176.39 {17.99}	32.0	5,640 {575.1}	36.0	6,350 {647.5}	40.0	7,060 {719.9}			125
30	146.99 {14.99}	38.4		43.2		48.0			60	150
	125.99 {12.85}	44.8		50.4		56.0				175
	110.24 {11.24}	51.2		57.6		64.0				200
	97.99 {9.99}	57.6		64.8		72.0				225
	88.19 {8.99}	64.0		72.0		80.0				250
	80.18 {8.18}	70.4		79.2		88.0				275
	73.50 {7.49}	76.8		86.4		96.0				300
	63.00 {6.42}	89.6		100.8		112.0		TM		350
	379.46 {38.69}	17.9		20.2		22.4				70
	332.03 {33.86}	20.5		23.0		25.6				80
	295.14 {30.10}	23.0		25.9		28.8				90
	265.63 {27.09}	25.6		28.8		32.0				100
	212.50 {21.67}	32.0		36.0		40.0				125
	177.08 {18.06}	38.4	6,800 {693.4}	43.2	7,650 {780.1}	48.0	8,500 {866.8}			150
38.5	151.79 {15.48}	44.8		50.4		56.0			70	175
	132.81 {13.54}	51.2		57.6		64.0				200
	118.06 {12.04}	57.6		64.8		72.0				225
	106.25 {10.83}	64.0		72.0		80.0				250
	96.59 {9.85}	70.4		79.2		88.0				275
	88.54 {9.03}	76.8		86.4		96.0				300
	75.89 {7.74}	89.6		100.8		112.0				350

⚠ 自由長 ×32%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
TM	60	–	60

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