COIL SPRING

内径 (mm)	ばね定数 N／mm (kgf／mm)	自由長 ×19.2% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×21.6% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×24% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	86.25 {8.80}	1.9		2.2		2.4				10
	57.50 {5.86}	2.9		3.2		3.6				15
	43.13 {4.40}	3.8		4.3		4.8				20
	34.50 {3.52}	4.8		5.4		6.0				25
	28.75 {2.93}	5.8		6.5		7.2				30
	24.64 {2.51}	6.7		7.6		8.4				35
	21.56 {2.20}	7.7	167 {17.0}	8.6	186 {19.0}	9.6	206 {21.0}			40
4	19.17 {1.95}	8.6		9.7		10.8			8	45
	17.25 {1.76}	9.6		10.8		12.0				50
	15.68 {1.60}	10.6		11.9		13.2				55
	14.38 {1.47}	11.5		13.0		14.4				60
	13.27 {1.35}	12.5		14.0		15.6				65
	12.32 {1.26}	13.4		15.1		16.8				70
	11.50 {1.17}	14.4		16.2		18.0				75
	10.78 {1.10}	15.4		17.3		19.2				80
	61.34 {6.26}	3.8		4.3		4.8				20
	49.07 {5.00}	4.8		5.4		6.0				25
	40.90 {4.17}	5.8		6.5		7.2				30
	35.05 {3.57}	6.7		7.6		8.4				35
	30.67 {3.13}	7.7		8.6		9.6				40
	27.26 {2.78}	8.6		9.7		10.8				45
5	24.54 {2.50}	9.6	235 {24.0}	10.8	265 {27.0}	12.0	294 {30.0}	TH	10	50
	22.31 {2.27}	10.6		11.9		13.2				55
	20.45 {2.09}	11.5		13.0		14.4				60
	18.87 {1.92}	12.5		14.0		15.6				65
	17.53 {1.79}	13.4		15.1		16.8				70
	16.36 {1.67}	14.4		16.2		18.0				75
	15.34 {1.56}	15.4		17.3		19.2				80
	13.63 {1.39}	17.3		19.4		21.6				90
	86.34 {8.80}	3.8		4.3		4.8				20
	69.07 {7.04}	4.8		5.4		6.0				25
	57.56 {5.87}	5.8		6.5		7.2				30
	49.34 {5.03}	6.7		7.6		8.4				35
	43.17 {4.40}	7.7		8.6		9.6				40
	38.37 {3.91}	8.6		9.7		10.8				45
6	34.54 {3.52}	9.6	333 {34.0}	10.8	373 {38.0}	12.0	422 {43.0}		12	50
	31.40 {3.20}	10.6		11.9		13.2				55
	28.78 {2.93}	11.5		13.0		14.4				60
	26.57 {2.71}	12.5		14.0		15.6				65
	24.67 {2.52}	13.4		15.1		16.8				70
	23.02 {2.35}	14.4		16.2		18.0				75
	21.59 {2.20}	15.4		17.3		19.2				80
	19.19 {1.96}	17.3		19.4		21.6				90

⚠ 自由長 ×24%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
TH	8	−	10

内径 (mm)	ばね定数 N／mm (kgf／mm)	自由長 ×19.2% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×21.6% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×24% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	96.30 {9.82}	4.8		5.4		6.0				25
	80.25 {8.18}	5.8		6.5		7.2				30
	68.78 {7.01}	6.7		7.6		8.4				35
	60.19 {6.14}	7.7		8.6		9.6				40
	53.50 {5.46}	8.6		9.7		10.8				45
	48.15 {4.91}	9.6	461 {47.0}	10.8	520 {53.0}	12.0	579 {59.0}			50
7	43.77 {4.46}	10.6		11.9		13.2			14	55
	40.12 {4.09}	11.5		13.0		14.4				60
	37.04 {3.78}	12.5		14.0		15.6				65
	34.39 {3.51}	13.4		15.1		16.8				70
	32.10 {3.27}	14.4		16.2		18.0				75
	30.09 {3.07}	15.4		17.3		19.2				80
	26.75 {2.73}	17.3		19.4		21.6				90
	24.07 {2.45}	19.2		21.6		24.0				100
	125.37 {12.78}	4.8		5.4		6.0				25
	104.48 {10.65}	5.8		6.5		7.2				30
	89.55 {9.13}	6.7		7.6		8.4				35
	78.36 {7.99}	7.7		8.6		9.6				40
	69.65 {7.10}	8.6		9.7		10.8				45
	62.69 {6.39}	9.6		10.8		12.0				50
	56.99 {5.81}	10.6		11.9		13.2				55
8	52.24 {5.33}	11.5	608 {62.0}	13.0	677 {69.0}	14.4	755 {77.0}	TH	16	60
	48.22 {4.92}	12.5		14.0		15.6				65
	44.78 {4.57}	13.4		15.1		16.8				70
	41.79 {4.26}	14.4		16.2		18.0				75
	39.18 {4.00}	15.4		17.3		19.2				80
	34.83 {3.55}	17.3		19.4		21.6				90
	31.34 {3.20}	19.2		21.6		24.0				100
	25.07 {2.56}	24.0		27.0		30.0				125
	157.96 {16.11}	4.8		5.4		6.0				25
	131.64 {13.42}	5.8		6.5		7.2				30
	112.83 {11.51}	6.7		7.6		8.4				35
	98.73 {10.07}	7.7		8.6		9.6				40
	87.76 {8.95}	8.6		9.7		10.8				45
	78.98 {8.05}	9.6		10.8		12.0				50
9	71.80 {7.32}	10.6	765 {78.0}	11.9	853 {87.0}	13.2	951 {97.0}		18	55
	65.82 {6.71}	11.5		13.0		14.4				60
	60.75 {6.20}	12.5		14.0		15.6				65
	56.42 {5.75}	13.4		15.1		16.8				70
	52.65 {5.37}	14.4		16.2		18.0				75
	49.36 {5.03}	15.4		17.3		19.2				80
	43.88 {4.47}	17.3		19.4		21.6				90
	39.49 {4.03}	19.2		21.6		24.0				100
	31.59 {3.22}	24.0		27.0		30.0				125

⚠ 自由長 ×24%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 ×19.2% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×21.6% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×24% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	196.11 {20.00}	4.8		5.4		6.0				25
	163.43 {16.66}	5.8		6.5		7.2				30
	140.08 {14.28}	6.7		7.6		8.4				35
	122.57 {12.50}	7.7		8.6		9.6				40
	108.95 {11.11}	8.6		9.7		10.8				45
	98.06 {10.00}	9.6		10.8		12.0				50
	89.14 {9.09}	10.6	941 {96.0}	11.9	1,059 {108.0}	13.2	1,177 {120.0}			55
10	81.71 {8.33}	11.5		13.0		14.4			20	60
	75.43 {7.69}	12.5		14.0		15.6				65
	70.04 {7.14}	13.4		15.1		16.8				70
	65.37 {6.67}	14.4		16.2		18.0				75
	61.28 {6.25}	15.4		17.3		19.2				80
	54.48 {5.55}	17.3		19.4		21.6				90
	49.03 {5.00}	19.2		21.6		24.0				100
	39.22 {4.00}	24.0		27.0		30.0				125
	32.69 {3.33}	28.8		32.4		36.0				150
	236.11 {24.08}	4.8		5.4		6.0		TH		25
	196.76 {20.06}	5.8		6.5		7.2				30
	168.65 {17.20}	6.7		7.6		8.4				35
	147.57 {15.05}	7.7		8.6		9.6				40
	131.17 {13.38}	8.6		9.7		10.8				45
	118.06 {12.04}	9.6	1,138 {116.0}	10.8	1,275 {130.0}	12.0	1,422 {145.0}			50
11	107.32 {10.94}	10.6		11.9		13.2			22	55
	98.38 {10.03}	11.5		13.0		14.4				60
	90.81 {9.26}	12.5		14.0		15.6				65
	84.33 {8.60}	13.4		15.1		16.8				70
	78.70 {8.03}	14.4		16.2		18.0				75
	73.78 {7.52}	15.4		17.3		19.2				80
	65.59 {6.69}	17.3		19.4		21.6				90
	59.03 {6.02}	19.2		21.6		24.0				100
	47.22 {4.82}	24.0		27.0		30.0				125
	39.35 {4.01}	28.8		32.4		36.0				150

⚠ 自由長 ×24%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
TH	20	−	25

内径 (mm)	ばね定数 N／mm (kgf／mm)	自由長 ×19.2% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×21.6% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×24% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	306.85 {31.29}	4.8		5.4		6.0				25
	255.71 {26.08}	5.8		6.5		7.2				30
	219.18 {22.35}	6.7		7.6		8.4				35
	191.78 {19.56}	7.7		8.6		9.6				40
	170.47 {17.38}	8.6		9.7		10.8				45
	153.43 {15.65}	9.6		10.8		12.0				50
	139.48 {14.22}	10.6		11.9		13.2				55
	127.85 {13.04}	11.5	1,471 {150.0}	13.0	1,657 {169.0}	14.4	1,834 {187.0}			60
12.5	118.02 {12.03}	12.5		14.0		15.6			25	65
	109.59 {11.18}	13.4		15.1		16.8				70
	102.28 {10.43}	14.4		16.2		18.0				75
	95.89 {9.78}	15.4		17.3		19.2				80
	85.24 {8.69}	17.3		19.4		21.6				90
	76.71 {7.82}	19.2		21.6		24.0				100
	61.37 {6.26}	24.0		27.0		30.0				125
	51.14 {5.22}	28.8		32.4		36.0				150
	43.84 {4.47}	33.6		37.8		42.0				175
	38.36 {3.91}	38.4		43.2		48.0				200
	357.78 {36.48}	4.8		5.4		6.0		TH		25
	298.15 {30.40}	5.8		6.5		7.2				30
	255.56 {26.06}	6.7		7.6		8.4				35
	223.61 {22.80}	7.7		8.6		9.6				40
	198.77 {20.27}	8.6		9.7		10.8				45
	178.89 {18.24}	9.6		10.8		12.0				50
	162.63 {16.58}	10.6		11.9		13.2				55
	149.07 {15.20}	11.5	1,716 {175.0}	13.0	1,932 {197.0}	14.4	2,150 {219.2}			60
13.5	137.61 {14.03}	12.5		14.0		15.6			27	65
	127.78 {13.03}	13.4		15.1		16.8				70
	119.26 {12.16}	14.4		16.2		18.0				75
	111.81 {11.40}	15.4		17.3		19.2				80
	99.38 {10.13}	17.3		19.4		21.6				90
	89.44 {9.12}	19.2		21.6		24.0				100
	71.56 {7.30}	24.0		27.0		30.0				125
	59.63 {6.08}	28.8		32.4		36.0				150
	51.11 {5.21}	33.6		37.8		42.0				175
	44.72 {4.56}	38.4		43.2		48.0				200

⚠ 自由長 ×24%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 ×19.2% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×21.6% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×24% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	440.74 {44.94}	4.8		5.4		6.0				25
	367.28 {37.45}	5.8		6.5		7.2				30
	314.81 {32.10}	6.7		7.6		8.4				35
	275.46 {28.09}	7.7		8.6		9.6				40
	244.86 {24.97}	8.6		9.7		10.8				45
	220.37 {22.47}	9.6		10.8		12.0				50
	200.34 {20.43}	10.6		11.9		13.2				55
	183.64 {18.73}	11.5	2,120 {216.2}	13.0	2,380 {242.7}	14.4	2,648 {270.0}			60
15	169.52 {17.29}	12.5		14.0		15.6			30	65
	157.41 {16.05}	13.4		15.1		16.8				70
	146.91 {14.98}	14.4		16.2		18.0				75
	137.73 {14.04}	15.4		17.3		19.2				80
	122.43 {12.48}	17.3		19.4		21.6				90
	110.19 {11.24}	19.2		21.6		24.0				100
	88.15 {8.99}	24.0		27.0		30.0				125
	73.46 {7.49}	28.8		32.4		36.0				150
	62.96 {6.42}	33.6		37.8		42.0		TH		175
	55.09 {5.62}	38.4		43.2		48.0				200
	375.00 {38.24}	7.7		8.6		9.6				40
	333.33 {33.99}	8.6		9.7		10.8				45
	300.00 {30.59}	9.6		10.8		12.0				50
	272.73 {27.81}	10.6		11.9		13.2				55
	250.00 {25.49}	11.5		13.0		14.4				60
	230.77 {23.53}	12.5		14.0		15.6				65
	214.29 {21.85}	13.4	2,870 {292.7}	15.1	3,240 {330.4}	16.8	3,600 {367.1}			70
17.5	200.00 {20.39}	14.4		16.2		18.0			35	75
	187.50 {19.12}	15.4		17.3		19.2				80
	166.67 {17.00}	17.3		19.4		21.6				90
	150.00 {15.30}	19.2		21.6		24.0				100
	120.00 {12.24}	24.0		27.0		30.0				125
	100.00 {10.20}	28.8		32.4		36.0				150
	85.71 {8.74}	33.6		37.8		42.0				175
	75.00 {7.65}	38.4		43.2		48.0				200

⚠ 自由長 ×24%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
TH	30	–	25

内径 (mm)	ばね定数 N／mm (kgf／mm)	自由長 ×19.2% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×21.6% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×24% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	490.74 {50.04}	7.7		8.6		9.6				40
	436.21 {44.48}	8.6		9.7		10.8				45
	392.59 {40.03}	9.6		10.8		12.0				50
	356.90 {36.39}	10.6		11.9		13.2				55
	327.16 {33.36}	11.5		13.0		14.4				60
	301.99 {30.79}	12.5		14.0		15.6				65
	280.42 {28.60}	13.4		15.1		16.8				70
	261.73 {26.69}	14.4		16.2		18.0				75
	245.37 {25.02}	15.4		17.3		19.2				80
20	218.11 {22.24}	17.3	3,770 {384.4}	19.4	4,240 {432.4}	21.6	4,710 {480.3}		40	90
	196.30 {20.02}	19.2		21.6		24.0				100
	157.04 {16.01}	24.0		27.0		30.0				125
	130.86 {13.34}	28.8		32.4		36.0				150
	112.17 {11.44}	33.6		37.8		42.0				175
	98.15 {10.01}	38.4		43.2		48.0				200
	87.24 {8.90}	43.2		48.6		54.0				225
	78.52 {8.01}	48.0		54.0		60.0				250
	71.38 {7.28}	52.8		59.4		66.0				275
	65.43 {6.67}	57.6		64.8		72.0		TH		300
	612.96 {62.50}	9.6		10.8		12.0				50
	557.24 {56.82}	10.6		11.9		13.2				55
	510.80 {52.09}	11.5		13.0		14.4				60
	471.51 {48.08}	12.5		14.0		15.6				65
	437.83 {44.65}	13.4		15.1		16.8				70
	408.64 {41.67}	14.4		16.2		18.0				75
	383.10 {39.07}	15.4		17.3		19.2				80
	340.53 {34.72}	17.3		19.4		21.6				90
25	306.48 {31.25}	19.2	5,880 {599.6}	21.6	6,620 {675.1}	24.0	7,360 {750.5}		50	100
	245.19 {25.00}	24.0		27.0		30.0				125
	204.32 {20.83}	28.8		32.4		36.0				150
	175.13 {17.86}	33.6		37.8		42.0				175
	153.24 {15.63}	38.4		43.2		48.0				200
	136.21 {13.89}	43.2		48.6		54.0				225
	122.59 {12.50}	48.0		54.0		60.0				250
	111.45 {11.36}	52.8		59.4		66.0				275
	102.16 {10.42}	57.6		64.8		72.0				300
	87.57 {8.93}	67.2		75.6		84.0				350

⚠ 自由長 ×24%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 ×19.2% 100万回 たわみ (mm)	荷重 N {kgf}	自由長 ×21.6% 50万回 たわみ (mm)	荷重 N {kgf}	自由長 ×24% 30万回 たわみ (mm)	荷重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	736.11 {75.06}	11.5		13.0		14.4				60
	630.95 {64.34}	13.4		15.1		16.8				70
	552.08 {56.30}	15.4		17.3		19.2				80
	490.74 {50.04}	17.3		19.4		21.6				90
	441.67 {45.04}	19.2		21.6		24.0				100
	353.33 {36.03}	24.0	8,470 {863.7}	27.0	9,540 {972.8}	30.0	10,590 {1080}			125
30	294.44 {30.02}	28.8		32.4		36.0			60	150
	252.38 {25.74}	33.6		37.8		42.0				175
	220.83 {22.52}	38.4		43.2		48.0				200
	196.30 {20.02}	43.2		48.6		54.0				225
	176.67 {18.01}	48.0		54.0		60.0				250
	160.61 {16.38}	52.8		59.4		66.0				275
	147.22 {15.01}	57.6		64.8		72.0				300
	126.19 {12.87}	67.2		75.6		84.0		TH		350
	773.81 {78.91}	13.4		15.1		16.8				70
	677.08 {69.04}	15.4		17.3		19.2				80
	601.85 {61.37}	17.3		19.4		21.6				90
	541.67 {55.23}	19.2		21.6		24.0				100
	433.33 {44.19}	24.0		27.0		30.0				125
	361.11 {36.82}	28.8	10,400 {1061}	32.4	11,700 {1193}	36.0	13,000 {1326}		70	150
38.5	309.52 {31.56}	33.6		37.8		42.0				175
	270.83 {27.62}	38.4		43.2		48.0				200
	240.74 {24.55}	43.2		48.6		54.0				225
	216.67 {22.09}	48.0		54.0		60.0				250
	196.97 {20.09}	52.8		59.4		66.0				275
	180.56 {18.41}	57.6		64.8		72.0				300
	154.76 {15.78}	67.2		75.6		84.0				350

⚠ 自由長 ×24%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
TH	60	–	60

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