高たわみ用
TY HIGH DEFLECTION-LIGH LOADS

COIL SPRING

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×40% 100 万回 たわみ (mm)	荷 重 N {kgf}	自由長 ×45% 50 万回 たわみ (mm)	荷 重 N {kgf}	自由長 ×50% 30 万回 たわみ (mm)	荷 重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	18.52 {1.89}	8.0		9.0		10.0				20
	14.82 {1.51}	10.0		11.3		12.5				25
	12.35 {1.26}	12.0		13.5		15.0				30
	10.58 {1.08}	14.0		15.8		17.5				35
	9.26 {0.94}	16.0		18.0		20.0				40
	8.23 {0.84}	18.0		20.3		22.5				45
	7.41 {0.76}	20.0	147.1 {15.0}	22.5	166.7 {17.0}	25.0	186.3 {19.0}			50
9.0	6.74 {0.69}	22.0		24.8		27.5			14.5	55
	6.17 {0.63}	24.0		27.0		30.0				60
	5.70 {0.58}	26.0		29.3		32.5				65
	5.29 {0.54}	28.0		31.5		35.0				70
	4.94 {0.50}	30.0		33.8		37.5				75
	4.63 {0.47}	32.0		36.0		40.0				80
	4.12 {0.42}	36.0		40.5		45.0				90
	3.70 {0.38}	40.0		45.0		50.0				100
	2.96 {0.30}	50.0		56.3		62.5				125
	21.80 {2.22}	10.0		11.3		12.5		TY		25
	18.16 {1.85}	12.0		13.5		15.0				30
	15.57 {1.59}	14.0		15.8		17.5				35
	13.62 {1.39}	16.0		18.0		20.0				40
	12.11 {1.23}	18.0		20.3		22.5				45
	10.90 {1.11}	20.0		22.5		25.0				50
	9.91 {1.01}	22.0	215.7 {22.0}	24.8	245.2 {25.0}	27.5	274.6 {28.0}			55
11.0	9.08 {0.93}	24.0		27.0		30.0			17	60
	8.38 {0.85}	26.0		29.3		32.5				65
	7.78 {0.79}	28.0		31.5		35.0				70
	7.27 {0.74}	30.0		33.8		37.5				75
	6.81 {0.69}	32.0		36.0		40.0				80
	6.05 {0.62}	36.0		40.5		45.0				90
	5.45 {0.56}	40.0		45.0		50.0				100
	4.36 {0.44}	50.0		56.3		62.5				125
	3.63 {0.37}	60.0		67.5		75.0				150

⚠ 自由長 ×50%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
TY	14.5	–	20

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×40% 100 万回 たわみ (mm)	荷 重 N {kgf}	自由長 ×45% 50 万回 たわみ (mm)	荷 重 N {kgf}	自由長 ×50% 30 万回 たわみ (mm)	荷 重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	23.24 {2.37}	12.0		13.5		15.0				30
	19.92 {2.03}	14.0		15.8		17.5				35
	17.43 {1.78}	16.0		18.0		20.0				40
	15.50 {1.58}	18.0		20.3		22.5				45
	13.95 {1.42}	20.0		22.5		25.0				50
	12.68 {1.29}	22.0		24.8		27.5				55
	11.62 {1.19}	24.0	284.4 {29.0}	27.0	313.8 {32.0}	30.0	353.0 {36.0}			60
13.0	10.73 {1.09}	26.0		29.3		32.5			21	65
	9.96 {1.02}	28.0		31.5		35.0				70
	9.30 {0.95}	30.0		33.8		37.5				75
	8.72 {0.89}	32.0		36.0		40.0				80
	7.75 {0.79}	36.0		40.5		45.0				90
	6.97 {0.71}	40.0		45.0		50.0				100
	5.58 {0.57}	50.0		56.3		62.5				125
	4.65 {0.47}	60.0		67.5		75.0				150
	34.87 {3.56}	12.0		13.5		15.0				30
	29.89 {3.05}	14.0		15.8		17.5		TY		35
	26.15 {2.67}	16.0		18.0		20.0				40
	23.24 {2.37}	18.0		20.3		22.5				45
	20.92 {2.13}	20.0		22.5		25.0				50
	19.02 {1.94}	22.0		24.8		27.5				55
	17.43 {1.78}	24.0		27.0		30.0				60
	16.09 {1.64}	26.0	411.9 {42.0}	29.3	470.7 {48.0}	32.5	519.8 {53.0}			65
16.5	14.94 {1.52}	28.0		31.5		35.0			26	70
	13.95 {1.42}	30.0		33.8		37.5				75
	13.08 {1.33}	32.0		36.0		40.0				80
	11.62 {1.19}	36.0		40.5		45.0				90
	10.46 {1.07}	40.0		45.0		50.0				100
	9.51 {0.97}	44.0		49.5		55.0				110
	8.37 {0.85}	50.0		56.3		62.5				125
	6.97 {0.71}	60.0		67.5		75.0				150
	5.98 {0.61}	70.0		78.8		87.5				175
	5.23 {0.53}	80.0		90.0		100.0				200

⚠ 自由長 ×50%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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高たわみ用
TY HIGH DEFLECTION-LIGH LOADS

COIL SPRING

内径 (mm)	ばね定数 N／mm(kgf／mm)	自由長 ×40% 100 万回 たわみ (mm)	荷 重 N {kgf}	自由長 ×45% 50 万回 たわみ (mm)	荷 重 N {kgf}	自由長 ×50% 30 万回 たわみ (mm)	荷 重 N {kgf}	Catalog No.	外径 D (mm)	自由長 L (mm)
	34.87 {3.56}	16.0		18.0		20.0				40
	30.99 {3.16}	18.0		20.3		22.5				45
	27.89 {2.84}	20.0		22.5		25.0				50
	23.24 {2.37}	24.0		27.0		30.0				60
	19.92 {2.03}	28.0		31.5		35.0				70
	17.43 {1.78}	32.0		36.0		40.0				80
	15.50 {1.58}	36.0	559.0 {57.0}	40.5	627.6 {64.0}	45.0	696.3 {71.0}			90
21.0	13.95 {1.42}	40.0		45.0		50.0			32	100
	12.68 {1.29}	44.0		49.5		55.0				110
	11.16 {1.14}	50.0		56.3		62.5				125
	9.30 {0.95}	60.0		67.5		75.0				150
	7.97 {0.81}	70.0		78.8		87.5				175
	6.97 {0.71}	80.0		90.0		100.0				200
	5.58 {0.57}	100.0		112.5		125.0				250
	4.65 {0.47}	120.0		135.0		150.0				300
	45.77 {4.67}	16.0		18.0		20.0				40
	40.68 {4.15}	18.0		20.3		22.5				45
	36.61 {3.73}	20.0		22.5		25.0				50
	30.51 {3.11}	24.0		27.0		30.0				60
	26.15 {2.67}	28.0		31.5		35.0				70
	22.88 {2.33}	32.0		36.0		40.0				80
	20.34 {2.07}	36.0	725.7 {74.0}	40.5	823.8 {84.0}	45.0	912.0 {93.0}	TY		90
26.0	18.31 {1.87}	40.0		45.0		50.0			39	100
	16.64 {1.70}	44.0		49.5		55.0				110
	14.65 {1.49}	50.0		56.3		62.5				125
	12.20 {1.24}	60.0		67.5		75.0				150
	10.46 {1.07}	70.0		78.8		87.5				175
	9.15 {0.93}	80.0		90.0		100.0				200
	7.32 {0.75}	100.0		112.5		125.0				250
	6.10 {0.62}	120.0		135.0		150.0				300
	48.81 {4.98}	20.0		22.5		25.0				50
	40.68 {4.15}	24.0		27.0		30.0				60
	34.87 {3.56}	28.0		31.5		35.0				70
	30.51 {3.11}	32.0		36.0		40.0				80
	27.12 {2.77}	36.0		40.5		45.0				90
	24.41 {2.49}	40.0	970.9 {99.0}	45.0	1,098 {112.0}	50.0	1,216 {124.0}			100
32.0	22.19 {2.26}	44.0		49.5		55.0			46	110
	19.53 {1.99}	50.0		56.3		62.5				125
	16.27 {1.66}	60.0		67.5		75.0				150
	13.95 {1.42}	70.0		78.8		87.5				175
	12.20 {1.24}	80.0		90.0		100.0				200
	9.76 {1.00}	100.0		112.5		125.0				250
	8.14 {0.83}	120.0		135.0		150.0				300

⚠ 自由長 ×50%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／㎜）× たわみ（㎜）

Order

Catalog No.	D	–	L
TY	32	–	40

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