

COIL SPRING

内径 (mm)	ばね定数 N/mm(kgf/mm)		自由長×40% 100万回		自由長×45% 50万回		自由長×50% 30万回		Catalog No.	外径 D (mm)	自由長 L (mm)
			たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)			
	N/mm(kgf/mm)	たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)				
9.0	18.52	{1.89}	8.0		9.0		10.0		TY	14.5	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
	6.74	{0.69}	22.0		24.8		27.5				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				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			
9.08	{0.93}	24.0		27.0		30.0		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 -
TY 14.5 - 20

内径 (mm)	ばね定数 N/mm(kgf/mm)		自由長×40% 100万回		自由長×45% 50万回		自由長×50% 30万回		Catalog No.	外径 D (mm)	自由長 L (mm)
			たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)			
	N/mm(kgf/mm)	たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)				
13.0	23.24	{2.37}	12.0		13.5		15.0		TY	21	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
	10.73	{1.09}	26.0		29.3		32.5				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				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			
14.94	{1.52}	28.0		31.5		35.0		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)

圧力容器用鋼線ばね

高たわみ用

TY HIGH DEFLECTION-HIGH LOADS

COIL SPRING

内径 (mm)	ばね定数 N/mm(kgf/mm)	自由長×40% 100万回		自由長×45% 50万回		自由長×50% 30万回		Catalog No.	外径 D (mm)	自由長 L (mm)
		たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)	たわみ (mm)	荷重 N(kgf)			
	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		40.5		45.0				90
21.0	13.95 {1.42}	40.0	559.0	45.0	627.6	50.0	696.3	32		100
	12.68 {1.29}	44.0	{57.0}	49.5	{64.0}	55.0	{71.0}			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
26.0	20.34 {2.07}	36.0	725.7	40.5	823.8	45.0	912.0	TY		90
	18.31 {1.87}	40.0	{74.0}	45.0	{84.0}	50.0	{93.0}	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
32.0	24.41 {2.49}	40.0	970.9	45.0	1,098	50.0	1,216			100
	22.19 {2.26}	44.0	{99.0}	49.5	{112.0}	55.0	{124.0}	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/mm) × たわみ(mm)



Order

Catalog No. **TY** D **32** - L **40**

圧力油圧機器部品