

COIL SPRING

内径 (mm)	ばね定数		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)
	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)			
	10.90	{1.11}	8.0		9.0		10.0				20
	8.72	{0.89}	10.0		11.3		12.5				25
	7.27	{0.74}	12.0		13.5		15.0				30
	6.23	{0.64}	14.0		15.8		17.5				35
	5.45	{0.56}	16.0		18.0		20.0				40
	4.84	{0.49}	18.0		20.3		22.5				45
	4.36	{0.44}	20.0		22.5		25.0				50
	3.96	{0.40}	22.0		24.8		27.5				55
9.0	3.63	{0.37}	24.0	88.3 {9.0}	27.0	98.1 {10.0}	30.0	107.9 {11.0}		14.5	60
	3.35	{0.34}	26.0		29.3		32.5				65
	3.11	{0.32}	28.0		31.5		35.0				70
	2.91	{0.30}	30.0		33.8		37.5				75
	2.73	{0.28}	32.0		36.0		40.0				80
	2.42	{0.25}	36.0		40.5		45.0				90
	2.18	{0.22}	40.0		45.0		50.0				100
	1.74	{0.18}	50.0		56.3		62.5				125
	14.82	{1.51}	10.0		11.3		12.5		TR		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		22.5		25.0				50
	6.74	{0.69}	22.0		24.8		27.5				55
11.0	6.17	{0.63}	24.0	147.1 {15.0}	27.0	166.7 {17.0}	30.0	186.3 {19.0}		17	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
	2.47	{0.25}	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 -
 TR 14.5 - 20

内径 (mm)	ばね定数		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)
	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)			
	13.80	{1.41}	12.0		13.5		15.0				30
	11.83	{1.21}	14.0		15.8		17.5				35
	10.35	{1.06}	16.0		18.0		20.0				40
	9.20	{0.94}	18.0		20.3		22.5				45
	8.28	{0.84}	20.0		22.5		25.0				50
	7.53	{0.77}	22.0		24.8		27.5				55
	6.90	{0.70}	24.0		27.0		30.0				60
13.0	6.37	{0.65}	26.0	166.7 {17.0}	29.3	186.3 {19.0}	32.5	205.9 {21.0}		21	65
	5.91	{0.60}	28.0		31.5		35.0				70
	5.52	{0.56}	30.0		33.8		37.5				75
	5.18	{0.53}	32.0		36.0		40.0				80
	4.60	{0.47}	36.0		40.5		45.0				90
	4.14	{0.42}	40.0		45.0		50.0				100
	3.31	{0.34}	50.0		56.3		62.5				125
	2.76	{0.28}	60.0		67.5		75.0				150
	26.87	{2.74}	12.0		13.5		15.0				30
	23.03	{2.35}	14.0		15.8		17.5		TR		35
	20.16	{2.06}	16.0		18.0		20.0				40
	17.92	{1.83}	18.0		20.3		22.5				45
	16.12	{1.64}	20.0		22.5		25.0				50
	14.66	{1.49}	22.0		24.8		27.5				55
	13.44	{1.37}	24.0		27.0		30.0				60
	12.40	{1.26}	26.0		29.3		32.5				65
16.5	11.52	{1.17}	28.0	323.6 {33.0}	31.5	362.8 {37.0}	35.0	402.1 {41.0}		26	70
	10.75	{1.10}	30.0		33.8		37.5				75
	10.08	{1.03}	32.0		36.0		40.0				80
	8.96	{0.91}	36.0		40.5		45.0				90
	8.06	{0.82}	40.0		45.0		50.0				100
	7.33	{0.75}	44.0		49.5		55.0				110
	6.45	{0.66}	50.0		56.3		62.5				125
	5.37	{0.55}	60.0		67.5		75.0				150
	4.61	{0.47}	70.0		78.8		87.5				175
	4.03	{0.41}	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)

圧入部

COIL SPRING

内径 (mm)	ばね定数		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)
	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)				
	25.06	{2.56}	16.0		18.0		20.0				40
	22.28	{2.27}	18.0		20.3		22.5				45
	20.05	{2.04}	20.0		22.5		25.0				50
	16.71	{1.70}	24.0		27.0		30.0				60
	14.32	{1.46}	28.0		31.5		35.0				70
	12.53	{1.28}	32.0		36.0		40.0				80
	11.14	{1.14}	36.0		40.5		45.0	500.1			90
21.0	10.02	{1.02}	40.0	402.1 {41.0}	45.0	451.1 {46.0}	50.0	{51.0}		32	100
	9.11	{0.93}	44.0		49.5		55.0				110
	8.02	{0.82}	50.0		56.3		62.5				125
	6.68	{0.68}	60.0		67.5		75.0				150
	5.73	{0.58}	70.0		78.8		87.5				175
	5.01	{0.51}	80.0		90.0		100.0				200
	4.01	{0.41}	100.0		112.5		125.0				250
	3.34	{0.34}	120.0		135.0		150.0				300
	27.24	{2.78}	16.0		18.0		20.0				40
	24.21	{2.47}	18.0		20.3		22.5				45
	21.79	{2.22}	20.0		22.5		25.0				50
	18.16	{1.85}	24.0		27.0		30.0				60
	15.57	{1.59}	28.0		31.5		35.0				70
	13.62	{1.39}	32.0		36.0		40.0				80
	12.11	{1.23}	36.0		40.5		45.0	539.4	TR		90
26.0	10.90	{1.11}	40.0	431.5 {44.0}	45.0	490.3 {50.0}	50.0	{55.0}		39	100
	9.91	{1.01}	44.0		49.5		55.0				110
	8.72	{0.89}	50.0		56.3		62.5				125
	7.26	{0.74}	60.0		67.5		75.0				150
	6.23	{0.63}	70.0		78.8		87.5				175
	5.45	{0.56}	80.0		90.0		100.0				200
	4.36	{0.44}	100.0		112.5		125.0				250
	3.63	{0.37}	120.0		135.0		150.0				300
	24.41	{2.49}	20.0		22.5		25.0				50
	20.34	{2.07}	24.0		27.0		30.0				60
	17.43	{1.78}	28.0		31.5		35.0				70
	15.26	{1.56}	32.0		36.0		40.0				80
	13.56	{1.38}	36.0		40.5		45.0				90
	12.20	{1.24}	40.0		45.0		50.0	608.0			100
32.0	11.09	{1.13}	44.0	490.3 {50.0}	49.5	549.2 {56.0}	55.0	{62.0}		46	110
	9.76	{1.00}	50.0		56.3		62.5				125
	8.14	{0.83}	60.0		67.5		75.0				150
	6.97	{0.71}	70.0		78.8		87.5				175
	6.10	{0.62}	80.0		90.0		100.0				200
	4.88	{0.50}	100.0		112.5		125.0				250
	4.07	{0.41}	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. **TR** D **32** - L **40**

圧力油圧機器