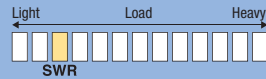
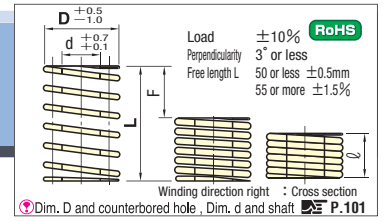


COIL SPRINGS

HIGH DEFLECTION SWR



Printed in Red



The volume discount rate is also applicable to alteration cost.
All price & lead time are to be quoted.

D	d	L	Spring constant		Solid height mm	F=L×50%		Catalog No.	U/Price	
			N/mm(kg/mm)	N/mm(kg/mm)		Fmm	Load (N/kgf)			
10.5	6.0	15	10.46	[1.07]	6.0	7.5	SWR 10.5-15	Type D-L	Q'ty: 1~19	
		20	7.85	[0.80]	8.0	10.0				20
		25	6.28	[0.64]	10.0	12.5				25
		30	5.23	[0.53]	12.0	15.0				30
		35	4.48	[0.46]	14.0	17.5				35
		40	3.92	[0.40]	16.0	20.0				40
		45	3.49	[0.36]	18.0	22.5				45
		50	3.14	[0.32]	20.0	25.0				50
		55	2.85	[0.29]	22.0	27.5				55
		60	2.62	[0.27]	24.0	30.0				60
		65	2.41	[0.25]	26.0	32.5				65
		70	2.24	[0.23]	28.0	35.0				70
		75	2.09	[0.21]	30.0	37.5				75
		80	1.96	[0.20]	32.0	40.0				80
		12.5	7.0	15	11.77	[1.20]				6.0
20	8.83			[0.90]	8.0	10.0	20			
25	7.06			[0.72]	10.0	12.5	25			
30	5.88			[0.60]	12.0	15.0	30			
35	5.04			[0.51]	14.0	17.5	35			
40	4.41			[0.45]	16.0	20.0	40			
45	3.92			[0.40]	18.0	22.5	45			
50	3.53			[0.36]	20.0	25.0	50			
55	3.21			[0.33]	22.0	27.5	55			
60	2.94			[0.30]	24.0	30.0	60			
65	2.72			[0.28]	26.0	32.5	65			
70	2.52			[0.26]	28.0	35.0	70			
75	2.35			[0.24]	30.0	37.5	75			
80	2.21			[0.23]	32.0	40.0	80			
90	1.96			[0.20]	36.0	45.0	90			
100	1.77	[0.18]	40.0	50.0	100					
14.5	8.5	15	17.00	[1.73]	6.0	7.5	SWR 14.5-15	Type D-L	Q'ty: 1~19	
		20	12.75	[1.30]	8.0	10.0				20
		25	10.20	[1.04]	10.0	12.5				25
		30	8.50	[0.87]	12.0	15.0				30
		35	7.28	[0.74]	14.0	17.5				35
		40	6.37	[0.65]	16.0	20.0				40
		45	5.67	[0.58]	18.0	22.5				45
		50	5.10	[0.52]	20.0	25.0				50
		55	4.64	[0.47]	22.0	27.5				55
		60	4.25	[0.43]	24.0	30.0				60
		65	3.92	[0.40]	26.0	32.5				65
		70	3.64	[0.37]	28.0	35.0				70
		75	3.40	[0.35]	30.0	37.5				75
		80	3.19	[0.33]	32.0	40.0				80
		90	2.83	[0.29]	36.0	45.0				90
100	2.55	[0.26]	40.0	50.0	100					
125	2.04	[0.21]	50.0	62.5	125					
150	1.70	[0.17]	60.0	75.0	150					

D	d	L	Spring constant		Solid height mm	F=L×50%		Catalog No.	U/Price	
			N/mm(kg/mm)	N/mm(kg/mm)		Fmm	Load (N/kgf)			
17	10.5	20	19.61	[2.00]	8.0	10.0	SWR 17-20	Type D-L	Q'ty: 1~19	
		25	15.69	[1.60]	10.0	12.5				25
		30	13.08	[1.33]	12.0	15.0				30
		35	11.21	[1.14]	14.0	17.5				35
		40	9.81	[1.00]	16.0	20.0				40
		45	8.72	[0.89]	18.0	22.5				45
		50	7.85	[0.80]	20.0	25.0				50
		55	7.13	[0.73]	22.0	27.5				55
		60	6.54	[0.67]	24.0	30.0				60
		65	6.03	[0.62]	26.0	32.5				65
		70	5.60	[0.57]	28.0	35.0				70
		75	5.23	[0.53]	30.0	37.5				75
		80	4.90	[0.50]	32.0	40.0				80
		90	4.36	[0.44]	36.0	45.0				90
		100	3.92	[0.40]	40.0	50.0				100
21	13.5	25	23.54	[2.40]	10.0	12.5	SWR 21-25	Type D-L	Q'ty: 1~19	
		30	19.61	[2.00]	12.0	15.0				30
		35	16.81	[1.71]	14.0	17.5				35
		40	14.71	[1.50]	16.0	20.0				40
		45	13.08	[1.33]	18.0	22.5				45
		50	11.77	[1.20]	20.0	25.0				50
		55	10.70	[1.09]	22.0	27.5				55
		60	9.81	[1.00]	24.0	30.0				60
		65	9.05	[0.92]	26.0	32.5				65
		70	8.41	[0.86]	28.0	35.0				70
		75	7.85	[0.80]	30.0	37.5				75
		80	7.35	[0.75]	32.0	40.0				80
		90	6.54	[0.67]	36.0	45.0				90
		100	5.88	[0.60]	40.0	50.0				100
		110	5.35	[0.55]	44.0	55.0				110
120	4.90	[0.50]	48.0	60.0	120					
125	4.71	[0.48]	50.0	62.5	125					
130	4.53	[0.46]	52.0	65.0	130					
140	4.20	[0.43]	56.0	70.0	140					
150	3.92	[0.40]	60.0	75.0	150					
175	3.36	[0.34]	70.0	87.5	175					
200	2.94	[0.30]	80.0	100.0	200					
26	16.5	25	31.38	[3.20]	10.0	12.5	SWR 26-25	Type D-L	Q'ty: 1~19	
		30	26.15	[2.67]	12.0	15.0				30
		35	22.42	[2.29]	14.0	17.5				35
		40	19.61	[2.00]	16.0	20.0				40
		45	17.43	[1.78]	18.0	22.5				45
		50	15.69	[1.60]	20.0	25.0				50
		55	14.26	[1.45]	22.0	27.5				55
		60	13.08	[1.33]	24.0	30.0				60
		65	12.07	[1.23]	26.0	32.5				65
		70	11.21	[1.14]	28.0	35.0				70
		75	10.46	[1.07]	30.0	37.5				75
		80	9.81	[1.00]	32.0	40.0				80
		90	8.72	[0.89]	36.0	45.0				90
		100	7.85	[0.80]	40.0	50.0				100
		110	7.13	[0.73]	44.0	55.0				110
120	6.54	[0.67]	48.0	60.0	120					
125	6.28	[0.64]	50.0	62.5	125					
130	6.03	[0.62]	52.0	65.0	130					
140	5.60	[0.57]	56.0	70.0	140					
150	5.23	[0.53]	60.0	75.0	150					
175	4.48	[0.46]	70.0	87.5	175					
200	3.92	[0.40]	80.0	100.0	200					
225	3.49	[0.36]	90.0	112.5	225					
250	3.14	[0.32]	100.0	125.0	250					

D	d	L	Spring constant		Solid height mm	F=L×50%		Catalog No.	U/Price	
			N/mm(kg/mm)	N/mm(kg/mm)		Fmm	Load (N/kgf)			
31	21	35	28.02	[2.86]	14.0	17.5	SWR 31-35	Type D-L	Q'ty: 1~19	
		40	24.52	[2.50]	16.0	20.0				40
		45	21.79	[2.22]	18.0	22.5				45
		50	19.61	[2.00]	20.0	25.0				50
		55	17.83	[1.82]	22.0	27.5				55
		60	16.34	[1.67]	24.0	30.0				60
		65	15.09	[1.54]	26.0	32.5				65
		70	14.01	[1.43]	28.0	35.0				70
		75	13.08	[1.33]	30.0	37.5				75
		80	12.26	[1.25]	32.0	40.0				80
		90	10.90	[1.11]	36.0	45.0				90
		100	9.81	[1.00]	40.0	50.0				100
		110	8.92	[0.91]	44.0	55.0				110
		120	8.17	[0.83]	48.0	60.0				120
		125	7.85	[0.80]	50.0	62.5				125
130	7.54	[0.77]	52.0	65.0	130					
140	7.00	[0.71]	56.0	70.0	140					
150	6.54	[0.67]	60.0	75.0	150					
160	6.13	[0.63]	67.0	80.0	160					
170	5.77	[0.59]	70.0	85.0	170					
175	5.60	[0.57]	70.0	87.5	175					
180	5.45	[0.56]	72.0	90.0	180					
190	5.16	[0.53]	76.0	95.0	190					
200	4.90	[0.50]	80.0	100.0	200					
250	3.92	[0.40]	100.0	125.0	250					
300	3.27	[0.33]	120.0	150.0	300					
37	26	35	33.62	[3.43]	14.0	17.5	SWR 37-35	Type D-L	Q'ty: 1~19	
		40	29.42	[3.00]	16.0	20.0				40
		45	26.15	[2.67]	18.0	22.5				45
		50	23.54	[2.40]	20.0	25.0				50
		55	21.40	[2.18]	22.0	27.5				55
		60	19.61	[2.00]	24.0	30.0				60
		65	18.10	[1.85]	26.0	32.5				65
		70	16.81	[1.71]	28.0	35.0				70
		75	15.69	[1.60]	30.0	37.5				75
		80	14.71	[1.50]	32.0	40.0				80
		90	13.08	[1.33]	36.0	45.0				90
		100	11.77	[1.20]	40.0	50.0				100
		110	10.70	[1.09]	44.0	55.0				110
		120	9.81	[1.00]	48.0	60.0				120
		125	9.41	[0.96]	50.0	62.5				125
130	9.05	[0.92]	52.0	65.0	130					
140	8.41	[0.86]	56.0	70.0	140					
150	7.85	[0.80]	60.0	75.0	150					
160	7.35	[0.75]	64.0	80.0	160					
170	6.92	[0.71]	68.0	85.0	170					
175	6.72	[0.69]	70.0	87.5	175					
180	6.54	[0.67]	72.0	90.0	180					
190	6.19	[0.63]	76.0	95.0	190					
200	5.88	[0.60]	80.0	100.0	200					
250	4.71	[0.48]	100.0	125.0	250					
300	3.92	[0.40]	120.0	150.0	300					

D	d	L	Spring constant		Solid height mm	F=L×50%		Catalog No.	U/Price	
			N/mm(kg/mm)	N/mm(kg/mm)		Fmm	Load (N/kgf)			
43	31	50	33.34	[3.40]	20.0	25.0	SWR 43-50	Type D-L	Q'ty: 1~19	
		60	27.79	[2.83]	24.0	30.0				60
		70	23.82	[2.43]	28.0	35.0				70
		80	20.84	[2.13]	32.0	40.0				80
		90	18.52	[1.89]	36.0	45.0				90
		100	16.67	[1.70]	40.0	50.0				100
		110	15.16	[1.55]	44.0	55.0				110
		120	13.89	[1.42]	48.0	60.0				120
		130	12.82	[1.31]	52.0	65.0				130
		140	11.91	[1.21]	56.0	70.0				140
		150	11.11	[1.11]	60.0	75.0				150
		160	10.42	[1.06]	64.0	80.0				160
		170	9.81	[1.00]	68.0	85.0				170
		180	9.26	[0.94]	72.0	90.0				180
		190	8.77	[0.89]	76.0	95.0				190
200	8.34	[0.85]	80.0	100.0	200					
225	7.41	[0.76]	90.0	112.5	225					
250	6.67	[0.68]	100.0	125.0	250					
275	6.06	[0.62]	110.0	137.5	275					
300	5.56	[0.57]	120.0	150.0	300					
46	33	50	43.15	[4.40]	20.0	25.0	SWR 46-50	Type D-L	Q'ty: 1~19	
		60	35.96	[3.67]	24.0	30.0				60
		70	30.82	[3.14]	28.0	35.0				70
		80	26.97	[2.75]	32.0	40.0				80
		90	23.97</							