Light Load Coil Springs
DSWF

Helical spring

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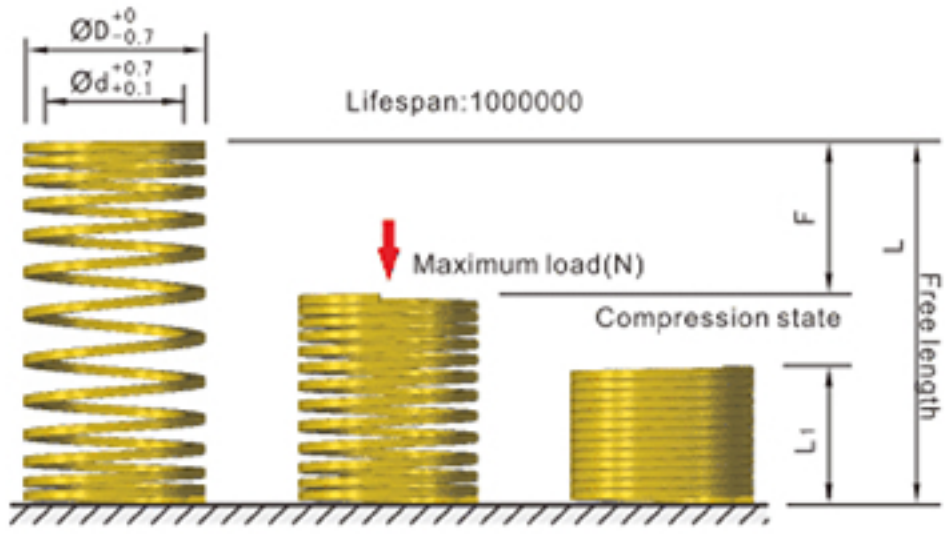

Maximum lload calculate method:

Maximum lload=compression×spring constant

N=Fmm×N/mm (kgf=N×0.101972)

Maximum lload Deviation:±10%

If D=70, Tolerance D: $^{+0}_{-1}$

If D≤50, Tolerance L±0.5

If D≥55, ToleranceL±1%×L

☎Order DSWF-D-L

D	L	d			F=L×40%		F=L×45%		F=L×50%		@¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
6	15	3	7.85	7.1	6	47.1	6.8	53	7.5	58.5	
	20		5.88	9.5	8		9		10		
	25		4.71	11.9	10		11.3		12.5		
	30		3.92	14.2	12		13.5		15		
	35		3.33	16.6	14		15.8		17.5		
	40		2.94	19	16		18		20		
8	15	4	10.8	6.8	6	58.8	6.8	68.6	7.5	78.5	
	20		7.8	9	8		9		10		
	25		6.28	11.3	10		11.2		12.5		
	30		5.2	13.5	12		13.5		15		
	35		4.51	15.8	14		15.7		17.5		
	40		3.92	18	16		18		20		
	45		3.53	20.3	18		20.2		22.5		
	50		3.14	22.5	20		22.5		25		
	55		2.84	24.8	22		24.7		27.5		
	60		2.26	27	24		27		30		
	65			30.8	26		29.3		32.5		
	70		2.1	33.2	28		31.5		35		
	75		1.96	35.6	30		33.8		37.5		
	80		1.84	37.9	32		36		40		
10	15	5	13.1	6.8	6	78.5	6.8	88.3	7.5	98.1	
	20		9.8	9	8		9		10		
	25		7.8	11.3	10		11.2		12.5		
	30		6.9	13.5	12		13.5		15		
	35		5.9	15.8	14		15.7		17.5		
	40		4.9	18	16		18		20		
	45		3.9	20.3	18		20.2		22.5		
	50			22.5	20		22.5		25		
	55			24.8	22		24.7		27.5		
	60			27	24		27		30		
	65			29.3	26		29.3		32.5		
	70		2.9	31.5	28		31.5		35		
	75			33.8	30		33.7		37.5		
	80			36	32		36		40		
	90		2.2	40.5	36		40.5		40.5		
12	20	6	13.7	9	8	107.9	9	127.5	10	137.3	
	25		10.8	11.3	10		11.2		12.5		
	30		8.8	13.5	12		13.5		15		
	35		7.8	15.8	14		15.7		17.5		
	40		6.9	18	16		18		20		

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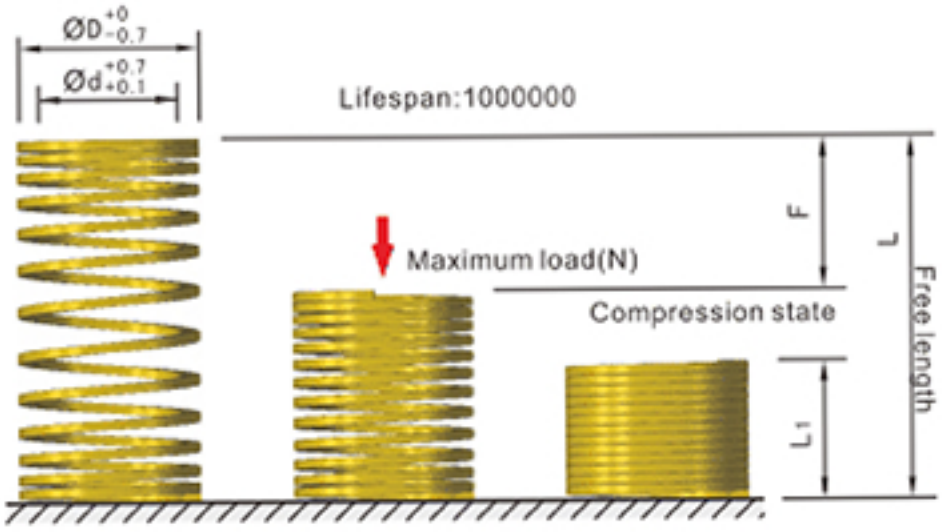

Order DSWF-D-L

D	L	d			F=L×40%		F=L×45%		F=L×50%		@¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
12	45	6	5.9	20.3	18	107.9	20.2	127.5	22.5	137.3	
	50			22.5	20		22.5		25		
	55		4.9	24.8	22		24.7		27.5		
	60			27	24		27		30		
	65			29.3	26		29.2		32.5		
	70		3.9	31.5	28		31.5		35		
	75			33.8	30		33.7		37.5		
	80		2.9	36	32		36		40		
	90		3.1	40.5	36		40.5		45		
14	25	7	13.7	11.3	10	137.3	11.2	156.9	12.5	176.5	
	30		11.8	13.5	12		13.5		15		
	35		9.8	15.8	14		15.7		17.5		
	40		8.8	18	16		18		20		
	45		7.8	20.3	18		20.2		22.5		
	50		6.9	22.5	20		22.5		25		
	55			24.8	22		24.7		27.5		
	60		5.9	27	24		27		30		
	65			29.3	26		29.2		32.5		
	70		4.9	31.5	28		31.5		35		
	75			33.8	30		33.7		37.5		
	80		3.9	36	32		36		40		
	90			40.5	36		40.5		45		
	100		3.5	45	40		45		50		
16	25	8	16.7	11.3	10	166.7	11.2	186.3	12.5	205.9	
	30		13.7	13.5	12		13.5		15		
	35		11.8	15.8	14		15.7		17.5		
	40		10.8	18	16		18		20		
	45		8.8	20.3	18		20.2		22.5		
	50		7.8	22.5	20		22.5		25		
	55			24.8	22		24.7		27.5		
	60		6.9	27	24		27		30		
	65			29.3	26		29.2		32.5		
	70		5.9	31.5	28		31.5		35		
	75			33.8	30		33.7		37.5		
	80		4.9	36	32		36		40		
	90			40.5	36		40.5		45		
	100		3.9	45	40		45		50		
	125		3.3	56.3	50		56.3		62.5		
18	25	9	20.6	11.3	10	205.9	11.2	225.6	12.5	255	
	30		16.7	13.5	12		13.5		15		
	35		14.7	15.8	14		15.7		17.5		
	40		12.7	18	16		18		20		
	45		11.8	20.3	18		20.2		22.5		
	50		9.8	22.5	20		22.5		25		
	55		8.8	24.8	22		24.7		27.5		
	60			27	24		27		30		
	65		7.8	29.3	26		29.2		32.5		
	70			31.5	28		31.5		35		
	75		6.9	33.8	30		33.7		37.5		
	80			36	32		36		40		
	90		5.9	40.5	36		40.5		45		
	100		4.9	45	40		45		50		
	125		3.9	56.3	50		56.3		62.5		
20	25	11	25.5	11.3	10	255	11.2	284.4	12.5	313.8	
	30		21.6	13.5	12		13.5		15		
	35		18.6	15.8	14		15.7		17.5		
	40		15.7	18	16		18		20		
	45		13.7	20.3	18		20.2		22.5		
	50		12.7	22.5	20		22.5		25		

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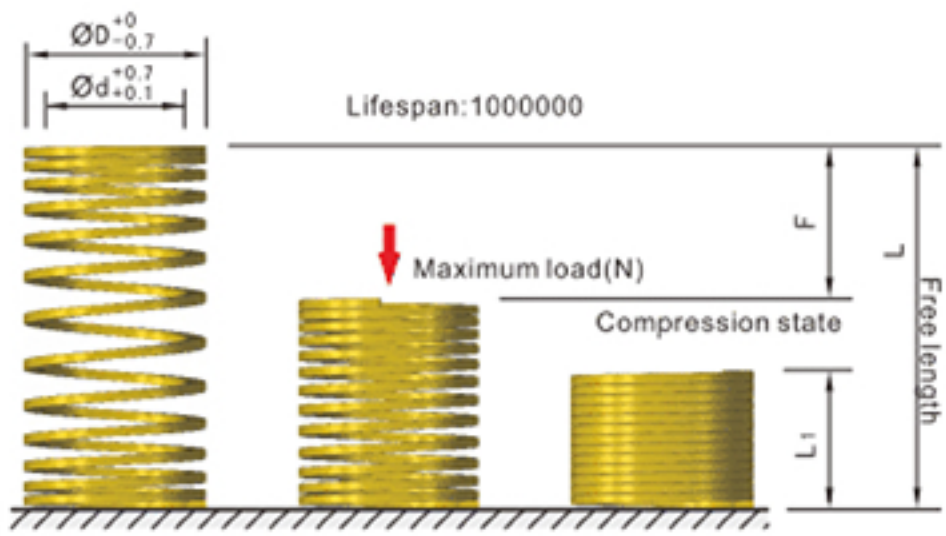

Order DSWF-D-L

D	L	d			F=L×40%		F=L×45%		F=L×50%		@¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
20	55	11	11.8	24.8	22	255	24.7	284.4	27.5	313.8	
	60		10.8	27	24		27		30		
	65		9.8	29.3	26		29.2		32.5		
	70		8.8	31.5	28		31.5		35		
	75			33.8	30		33.7		37.5		
	80		7.8	36	32		36		40		
	90		6.9	40.5	36		40.5		45		
	100		5.9	45	40		45		50		
	125		4.9	56.3	50		56.2		62.5		
	150		3.9	67.5	60		67.5		75		
22	25		31.4	11.3	10	313.8	11.2	353	12.5	392.3	
	30		26.5	13.5	12		13.5		15		
	35		22.6	15.8	14		15.7		17.5		
	40		19.6	18	16		18		20		
	45		17.7	20.3	18		20.2		22.5		
	50		15.7	22.5	20		22.5		25		
	55		14.7	24.8	22		24.7		27.5		
	60		12.7	27	24		27		30		
	65		11.8	29.3	26		29.2		32.5		
	70		10.8	31.5	28		31.5		35		
	75			33.8	30		33.7		37.5		
	80		9.8	36	32		36		40		
	90		8.8	40.5	36		40.5		45		
	100		7.8	45	40		45		50		
	125		5.9	56.3	50		56.2		62.5		
	150		4.9	67.5	60		67.5		75		
25	25	13.5	39.2	11.3	10	392.3	11.2	441.3	12.5	490.3	
	30		32.4	13.5	12		13.5		15		
	35		28.4	15.8	14		15.7		17.5		
	40		24.5	18	16		18		20		
	45		21.6	20.3	18		20.2		22.5		
	50		19.6	22.5	20		22.5		25		
	55		17.7	24.8	22		24.7		27.5		
	60		16.7	27	24		27		30		
	65		14.7	29.3	26		29.2		32.5		
	70		13.7	31.5	28		31.5		35		
	75		12.7	33.8	30		33.7		37.5		
	80		11.8	36	32		36		40		
	90		10.8	40.5	36		40.5		45		
	100		9.8	45	40		45		50		
	125		8.8	56.3	50		56.2		62.5		
	150		7.8	67.5	60		67.5		75		
	175		5.9	78.8	70		78.7		87.5		
	200		4.9	90	80		90		100		
27	25		47.1	11.3	10	470.7	11.2	529.6	12.5	588.4	
	30		39.2	13.5	12		13.5		15		
	35		33.3	15.8	14		15.7		17.5		
	40		29.4	18	16		18		20		
	45		26.5	20.3	18		20.2		22.5		
	50		23.5	22.5	20		22.5		25		
	55		21.6	24.8	22		24.7		27.5		
	60		19.6	27	24		27		30		
	65		17.7	29.3	26		29.2		32.5		
	70		16.7	31.5	28		31.5		35		
	75		15.7	33.8	30		33.7		37.5		
	80		14.7	36	32		36		40		
	90		12.7	40.5	36		40.5		45		
	100		11.8	45	40		45		50		
	125		9.8	56.3	50		56.2		62.5		

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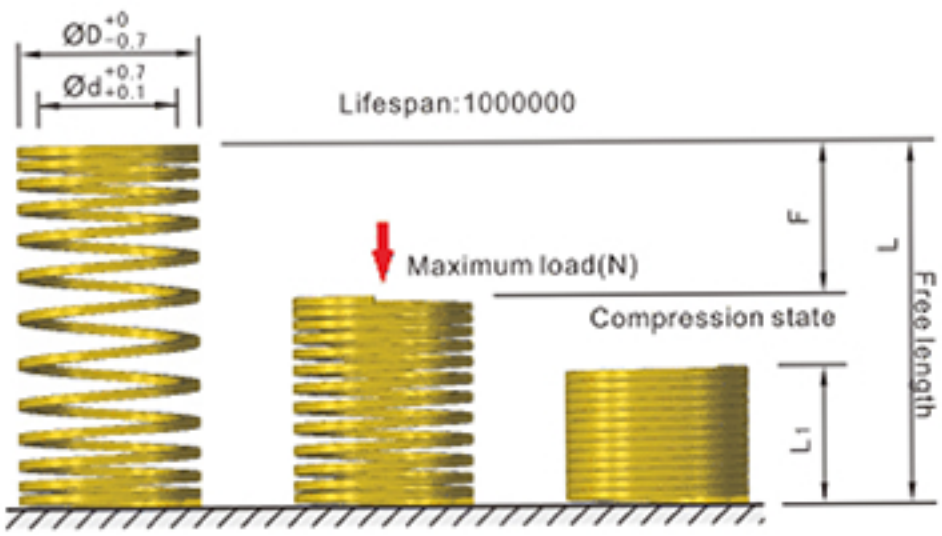

Order DSWF-D-L

D	L	d			F=L×40%		F=L×45%		F=L×50%		@¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
27	150	13.5	7.8	67.5	60	470.7	67.5	529.6	75	588.4	
	175		6.9	78.8	70		78.7		87.5		
	200		5.9	90	80		90		100		
30	25	16	56.9	11.3	10	568.8	11.2	637.4	12.5	706.1	
	30		47.1	13.5	12		13.5		15		
	35		40.2	15.8	14		15.7		17.5		
	40		35.3	18	16		18		20		
	45		31.4	20.3	18		20.2		22.5		
	50		28.4	22.5	20		22.5		25		
	55		25.5	24.8	22		24.7		27.5		
	60		23.5	27	24		27		30		
	65		21.6	29.3	26		29.2		32.5		
	70		20.6	31.5	28		31.5		35		
	75		18.6	33.8	30		33.7		37.5		
	80		17.7	36	32		36		40		
	90		15.7	40.5	36		40.5		45		
	100		13.7	45	40		45		50		
	125		11.8	56.3	50		56.2		62.5		
	150		9.8	67.5	60		67.5		75		
	175		7.8	78.8	70		78.7		87.5		
	200		6.9	90	80		90		100		
35	40	19	48.1	18	16	764.9	18	863	20	961.1	
	45		42.2	20.3	18		20.2		22.5		
	50		38.2	22.5	20		22.5		25		
	55		34.3	24.8	22		24.7		27.5		
	60		32.3	27	24		27		30		
	65		29.4	29.3	26		29.2		32.5		
	70		27.5	31.5	28		31.5		35		
	75		25.5	33.8	30		33.7		37.5		
	80		24.5	36	32		36		40		
	90		21.6	40.5	36		40.5		45		
	100		19.6	45	40		45		50		
	125		14.7	56.3	50		56.2		62.5		
	150		12.7	67.5	60		67.5		75		
	175		10.8	78.8	70		78.7		87.5		
	200		9.8	90	80		90		100		
40	40	22	62.8	18	16	1000.3	18	1127.8	20	1255.3	
	45		55.6	21.3	18		20.2		22.5		
	50		50	22.5	20		22.5		25		
	55		45.5	26.1	22		24.8		27.5		
	60		42.2	27	24		27		30		
	65		38.5	30.8	26		29.3		32.5		
	70		36.3	31.5	28		31.5		35		
	75		33.3	35.6	30		33.8		37.5		
	80		31.4	36	32		36		40		
	90		27.5	40.5	36		40.5		45		
	100		25.5	45	40		45		50		
	125		19.6	56.3	50		56.2		62.5		
	150		16.7	67.5	60		67.5		75		
	175		14.7	78.8	70		78.7		87.5		
	200		12.4	90	80		90		100		
	225		11.2	101	90		101.3		112.5		
	250		9.8	112.5	100		112.5		125		
	275		9.1	124	110		123.8		137.5		
	300		8.3	142.2	120		135		150		
50	50	27.5	78.5	22.5	20	1569.1	22.5	1765.2	25	1961.3	
	55		71.3	24.8	22		24.8		27.5		
	60		65.7	27	24		27		30		
	65		60.3	29.3	26		29.3		32.5		

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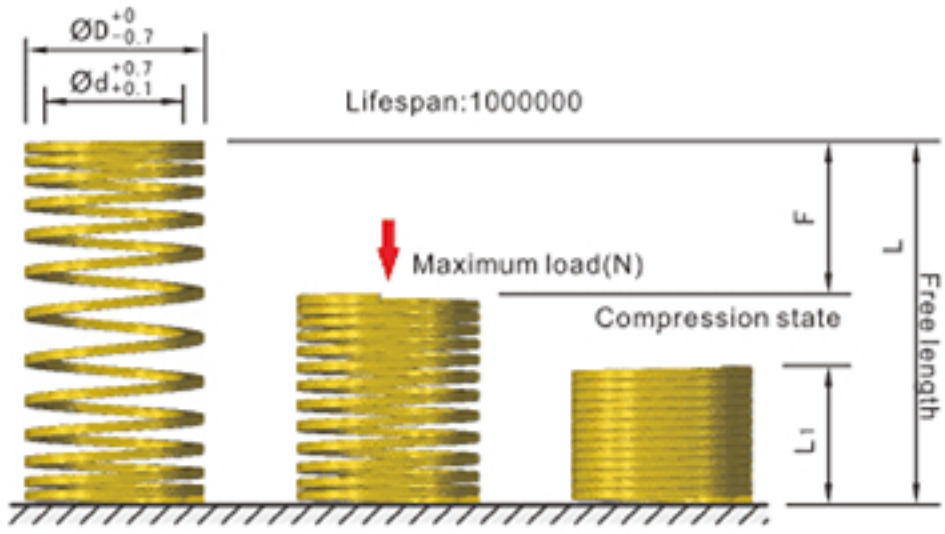

Order DSWF-D-L

D	L	d			F=L×40%		F=L×45%		F=L×50%		@¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
50	70	27.5	11.8	31.5	28	1569.1	31.5	1765.2	35	1961.3	
	75		10.8	33.8	30		33.8		37.5		
	80		9.8	36	32		36		40		
	90		8.8	40.5	36		40.5		45		
	100			45	40		45		50		
	125		7.8	56.3	50		56.2		62.5		
	150		6.9	67.5	60		67.5		75		
	175		5.9	78.8	70		78.7		87.5		
	200		4.9	90	80		90		100		
	225		3.9	101	90		101.3		112.5		
	250		31.4	112.5	100		112.5		125		
	275		26.5	124	110		123.8		137.5		
	300		22.6	135	120		135		150		
	350		19.6	165.9	140		157.5		175		
	400		17.7	189.6	160		180		200		
	450		15.7	213.3	180		202.5		225		
	500		14.7	237	200		225		250		
60	60	33	12.7	27	24	2255.5	27	2539.9	30	2824.3	
	70		11.8	31.5	28		31.5		35		
	80		10.8	36	32		36		40		
	90			40.5	36		40		45		
	100		9.8	45	40		45		50		
	125		8.8	56.3	50		56.2		62.5		
	150		7.8	67.5	60		67.5		75		
	175		5.9	78.8	70		78.7		87.5		
	200		4.9	90	80		90		100		
	250		39.2	112.5	100		112.5		125		
	300		32.4	135	120		135		150		
	350		28.4	165.9	140		157.5		175		
	400		24.5	189.6	160		180		200		
	450		21.6	213.3	180		202.5		225		
	500		19.6	237	200		225		250		
70	70	38.5	17.7	33.2	28	3138.1	31.5	3530.4	35	3922.6	
	80		16.7	37.9	32		36		40		
	90		14.7	42.7	36		40		45		
	100		13.7	47.4	40		45		50		
	125		12.7	59.3	50		56.2		62.5		
	150		11.8	71.1	60		67.5		75		
	175		10.8	83	70		78.7		87.5		
	200		9.8	94.8	80		90		100		
	250		8.8	118.5	100		112.5		125		
	300		7.8	142.2	120		135		150		
	350		5.9	165.9	140		157.5		175		