DSWL

Lifespan:1000000

Maximum load(N)

Compression state

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, Tolerance L±1%×L

☎ Order   DSWL-D-L

D	L	d	N/mm	(mm)	F=L×32% Fmm	F=L×32% N	F=L×36% Fmm	F=L×36% N	F=L×40% Fmm	F=L×40% N	@¥/P
6	15	3	13.04	8.6	4.8	62.8	5.4	70.6	6	78.5	
	20		9.81	11.5	6.4		7.2		8		
	25		7.85	14.4	8		9		10		
	30		6.57	17.2	9.6		10.8		12		
	35		5.59	20.1	11.2		12.6		14		
	40		4.9	23	12.8		14.4		16		
8	15	4	16.7	8.1	4.8	78.5	5.4	88.3	6	98.1	
	20		12.7	10.8	6.4		7.2		8		
	25		9.8	13.5	8		9		10		
	30		7.8	16.2	9.6		10.8		12		
	35		6.9	18.9	11.2		12.6		14		
	40		5.9	21.6	12.8		14.4		16		
	45		4.9	24.3	14.4		16.2		18		
	50			27	16		18		20		
	55		3.9	29.7	17.6		19.8		22		
	60			32.4	19.2		21.6		24		
	65		3.77	37.3	20.8		23.4		26		
	70		3.5	40.2	22.4		25.2		28		
	75		3.3	43.1	24		27		30		
	80		3.1	45.9	25.6		28.8		32		
10	15	5	22.9	8.1	4.8	107.9	5.4	127.5	6	137.3	
	20		17.7	10.8	6.4		7.2		8		
	25		13.7	13.5	8		9		10		
	30		11.8	16.2	9.6		10.8		12		
	35		9.8	18.9	11.2		12.6		14		
	40		8.8	21.6	12.8		14.4		16		
	45		7.8	24.3	14.4		16.2		18		
	50		6.8	27	16		18		20		
	55		5.9	29.7	17.6		19.8		22		
	60			32.4	19.2		21.6		24		
	65			35.1	20.8		23.4		26		
	70		4.9	37.8	22.4		25.2		28		
	75			40.5	24		27		30		
	80		3.9	43.2	25.6		28.8		32		
	90		3.8	48.6	28.8		32.4		36		
12	20	6	25.5	6.4	6.4	166.7	7.2	186.3	8	205.9	
	25		20.6	8	8		9		10		
	30		17.7	9.6	9.6		10.8		12		
	35		14.7	11.2	11.2		12.6		14		
	40		12.7	12.8	12.8		14.4		16		

DSWL

ØD +0 −0.7
Ød +0.7 +0.1
Lifespan:1000000
Maximum load(N)
Compression state
F L Free length L₁
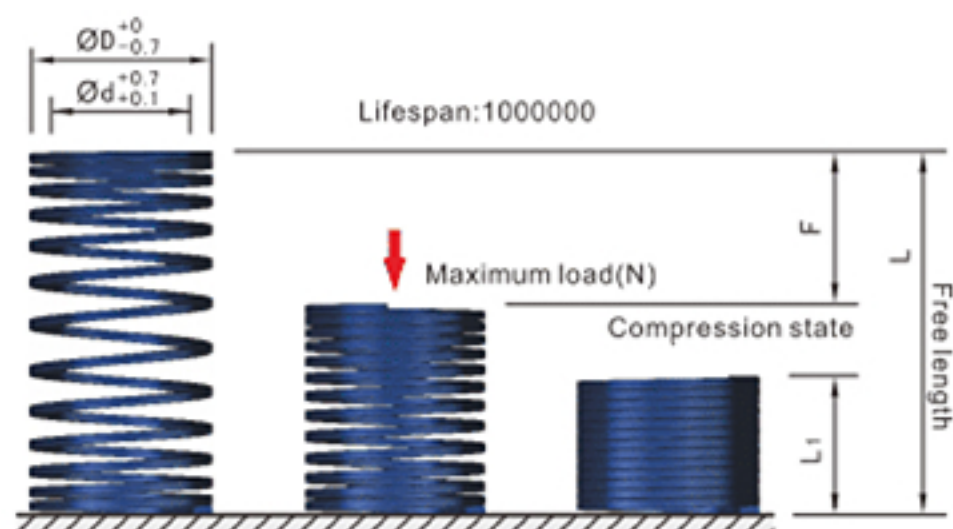
☎ Order   DSWL-D-L

D	L	d	N/mm	(mm)	F=L×32% Fmm	F=L×32% N	F=L×36% Fmm	F=L×36% N	F=L×40% Fmm	F=L×40% N	@¥/P
12	45	6	11.8	24.3	14.4		16.2		18		
	50		10.8	27	16		18		20		
	55		9.8	29.7	17.6		19.8		22		
	60		8.8	32.4	19.2		21.6		24		
	65		7.8	35.1	20.8	166.7	23.4	186.3	26	205.9	
	70		7.8	37.8	22.4		25.2		28		
	75		6.8	40.5	24		27		30		
	80		6.8	43.2	25.6		28.8		32		
	90		5.7	48.6	28.8		32.4		36		
14	25	7	27.5	13.5	8		9		10		
	30		22.6	16.2	9.6		10.8		12		
	35		19.6	18.9	11.2		12.6		14		
	40		17.7	21.6	12.8		14.4		16		
	45		15.7	24.3	14.4		16.2		18		
	50		13.7	27	16		18		20		
	55		12.7	29.7	17.6		19.8		22		
	60		11.8	32.4	19.2	215.7	21.6	245.2	24	274.6	
	65		10.8	35.1	20.8		23.4		26		
	70		9.8	37.8	22.4		25.2		28		
	75		8.8	40.5	24		27		30		
	80		8.8	43.2	25.6		28.8		32		
	90		7.8	48.6	28.8		32.4		36		
	100		6.9	54	32		36		40		
16	25	8	34.3	13.5	8		9		10		
	30		28.4	16.2	9.6		10.8		12		
	35		24.5	18.9	11.2		12.6		14		
	40		21.6	21.6	12.8		14.4		16		
	45		18.6	24.3	14.4		16.2		18		
	50		17.7	27	16		18		20		
	55		15.7	29.7	17.6		19.8		22		
	60		14.7	32.4	19.2	274.6	21.6	313.8	24	343.2	
	65		12.7	35.1	20.8		23.4		26		
	70		12.7	37.8	22.4		25.2		28		
	75		11.8	40.5	24		27		30		
	80		10.8	43.2	25.6		28.8		32		
	90		9.8	48.6	28.8		32.4		36		
	100		8.8	54	32		36		40		
	125		6.9	67.5	40		32.4		50		
18	25	9	42.2	13.5	8		9		10		
	30		35.3	16.2	9.6		10.8		12		
	35		30.4	18.9	11.2		12.6		14		
	40		26.5	21.6	12.8		14.4		16		
	45		23.5	24.3	14.4		16.2		18		
	50		21.6	27	16		18		20		
	55		19.6	29.7	17.6		19.8		22		
	60		17.7	32.4	19.2	333.4	21.6	382.5	24	421.7	
	65		16.7	35.1	20.8		23.4		26		
	70		14.7	37.8	22.4		25.2		28		
	75		13.7	40.5	24		27		30		
	80		12.7	43.2	25.6		28.8		32		
	90		11.8	48.6	28.8		32.4		36		
	100		9.8	54	32		36		40		
	125		8.4	67.5	40		45		50		
20	25	10	53	13.5	8		9		10		
	30		44.1	16.2	9.6		10.8		12		
	35		37.3	18.9	11.2	421.7	12.6	407.7	14	529.6	
	40		33.3	21.6	12.8		14.4		16		
	45		29.4	24.3	14.4		16.2		18		
	50		26.5	27	16		18		20		
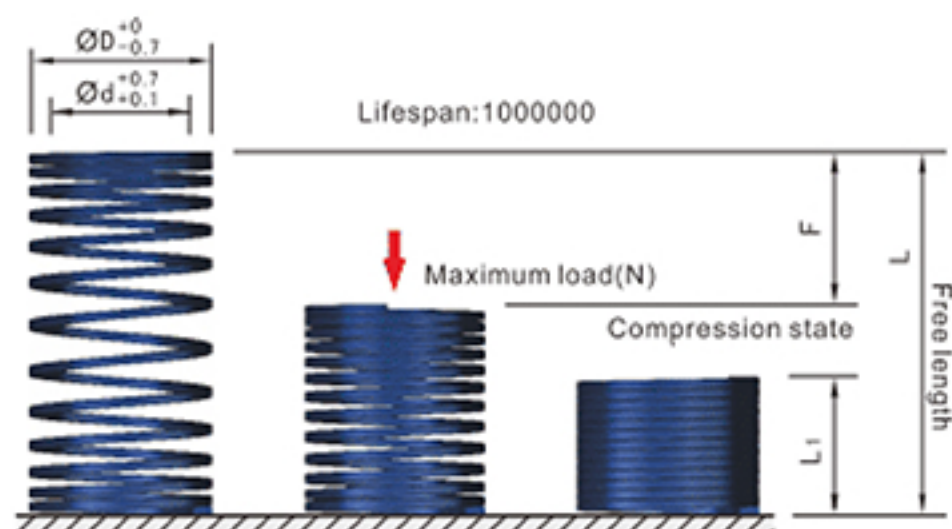
Lifespan:1000000 | Maximum load(N) | Compression state | Free length | DSWL

Order DSWL-D-L

D	L	d	N/mm	(mm)	F=L×32% Fmm	N	F=L×36% Fmm	N	F=L×40% Fmm	N	@¥/P
20	55	10	23.5	29.7	17.6		19.8		22		
	60		21.6	32.4	19.2		21.6		24		
	65		20.6	35.1	20.8		23.4		26		
	70		18.6	37.8	22.4		25.2		28		
	75		17.7	40.5	24	421.7	27	470.7	30	529.6	
	80		16.7	43.2	25.6		28.8		32		
	90		14.7	48.6	28.8		32.4		36		
	100		12.7	54	32		36		40		
	125		10.8	67.5	40		45		50		
	150		8.8	81	48		54		60		
22	25	11	66.7	13.5	8		9		10		
	30		54.9	16.2	9.6		10.8		12		
	35		47.1	18.9	11.2		12.6		14		
	40		41.2	21.6	12.8		14.4		16		
	45		37.3	24.3	14.4		16.2		18		
	50		33.3	27	16		18		20		
	55		30.4	29.7	17.6		19.8		22		
	60		27.5	32.4	19.2	529.6	21.6	588.4	24	657	
	65		25.5	35.1	20.8		23.4		26		
	70		23.5	37.8	22.4		25.2		28		
	75		21.6	40.5	24		27		30		
	80		20.6	43.2	25.6		28.8		32		
	90		18.6	48.6	28.8		32.4		36		
	100		16.7	54	32		36		40		
	125		12.7	67.5	40		45		50		
	150		10.8	81	48		54		60		
25	25	12.5	82.4	13.5	8		9		10		
	30		68.6	16.2	9.6		10.8		12		
	35		58.8	18.9	11.2		12.6		14		
	40		51	21.6	12.8		14.4		16		
	45		46.1	24.3	14.4		16.2		18		
	50		41.2	27	16		18		20		
	55		37.3	29.7	17.6		19.8		22		
	60		34.3	32.4	19.2		21.6		24		
	65		31.4	35.1	20.8	657	23.4	735.5	26	823.8	
	70		29.4	37.8	22.4		25.2		28		
	75		27.5	40.5	24		27		30		
	80		25.5	43.2	25.6		28.8		32		
	90		22.6	48.6	28.8		32.4		36		
	100		20.6	54	32		36		40		
	125		16.7	67.5	40		45		50		
	150		13.7	81	48		54		60		
	175		11.8	94.5	56		63		70		
	200		10.3	108	64		72		80		
27	25	13.5	98.1	13.5	8		9		10		
	30		81.4	16.2	9.6		10.8		12		
	35		69.6	18.9	11.2		12.6		14		
	40		61.8	21.6	12.8		14.4		16		
	45		54.9	24.3	14.4		16.2		18		
	50		49	27	16		18		20		
	55		44.1	29.7	17.6		19.8		22		
	60		41.2	32.4	19.2	784.5	21.6	882.6	24	980.7	
	65		37.3	35.1	20.8		23.4		26		
	70		35.3	37.8	22.4		25.2		28		
	75		32.4	40.5	24		27		30		
	80		30.4	43.2	25.6		28.8		32		
	90		27.5	48.6	28.8		32.4		36		
	100		24.5	54	32		36		40		
	125		19.6	67.5	40		45		50		
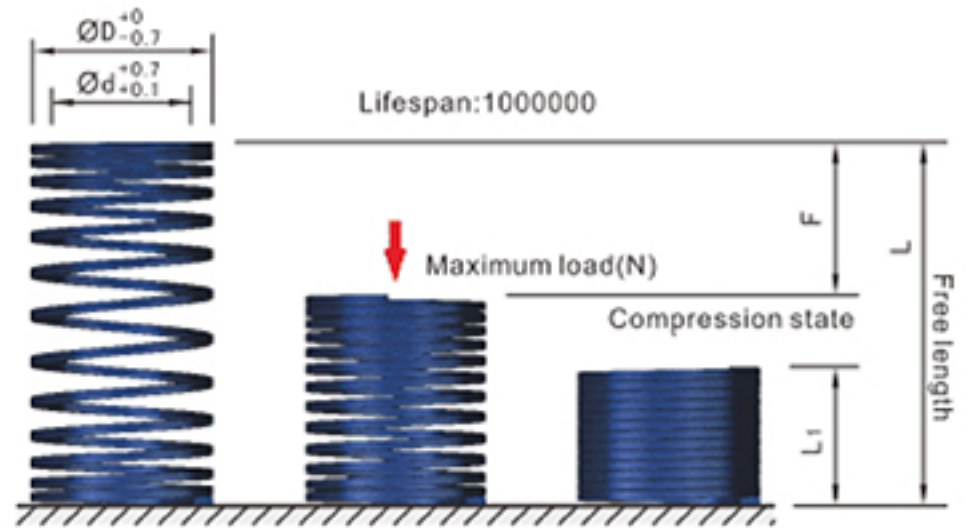
☎ Order   DSWL-D-L

D	L	d	N/mm	(mm)	F=L×32%		F=L×36%		F=L×40%		@¥/P
					Fmm	N	Fmm	N	Fmm	N	
27	150	13.5	16.7	81	48		54		22		
	175		13.7	94.5	56	784.5	63	882.6	24	980.7	
	200		12.3	108	64		72		26		
30	25	15	118.7	13.5	8		9		28		
	30		99	16.2	9.6		10.8		30		
	35		85.3	18.9	11.2		12.6		32		
	40		74.5	21.6	12.8		14.4		36		
	45		65.7	24.3	14.4		16.2		40		
	50		59.8	27	16		18		50		
	55		53.9	29.7	17.6		19.8		60		
	60		49	32.4	19.2		21.6		10		
	65		46.1	35.1	20.8	951.2	23.4	1068.9	12	1186.6	
	70		42.2	37.8	22.4		25.2		14		
	75		39.2	40.5	24		27		16		
	80		37.3	43.2	25.6		28.8		18		
	90		33.3	48.6	28.8		32.4		20		
	100		29.4	54	32		36		22		
	125		23.5	67.5	40		45		24		
	150		19.6	81	48		54		26		
	175		16.7	94.5	56		63		28		
	200		14.7	108	64		72		30		
35	40	17.5	101	21.6	12.8		14.4		32		
	45		90.2	24.3	14.4		16.2		36		
	50		81.4	27	16		18		40		
	55		73.5	29.7	17.6		19.8		50		
	60		67.7	32.4	19.2		21.6		60		
	65		61.8	35.1	20.8		23.4		10		
	70		57.9	37.8	22.4		25.2		12		
	75		53.9	40.5	24	1294.5	27	1461.2	14	1618.1	
	80		51	43.2	25.6		28.8		16		
	90		45.1	48.6	28.8		32.4		18		
	100		40.2	54	32		36		20		
	125		32.4	67.5	40		45		22		
	150		27.5	81	48		54		24		
	175		23.5	94.5	56		63		26		
	200		20.6	108	64		72		28		
40	40	20	132.4	21.6	12.8		14.4		30		
	45		117.8	24.3	14.4		16.2		32		
	50		105.9	27	16		18		36		
	55		96.4	29.7	17.6		19.8		40		
	60		88.3	32.4	19.2		21.6		50		
	65		81.6	35.1	20.8		23.4		60		
	70		75.5	37.8	22.4		25.2		70		
	75		70.7	40.5	24		27		80		
	80		66.7	43.2	25.6		28.8		10		
	90		58.8	48.6	28.8	1696.6	32.4	1902.5	12	2118.2	
	100		53	54	32		36		14		
	125		42.2	67.5	40		45		16		
	150		35.3	81	48		54		18		
	175		30.4	94.5	56		63		20		
	200		26.5	108	64		72		22		
	225		23.5	122	72		81		24		
	250		21.6	135	80		90		26		
	275		19.3	149	88		99		28		
	300		17.7	172.2	96		108		30		
50	50	25	165.7	27	16		18		32		
	55		150.7	29.7	17.6	2647.8	19.8	2981.2	36	3314.6	
	60		138.3	32.4	19.2		21.6		40		
	65		127.5	35.1	20.8		23.4		50		

DSWL

Lifespan:1000000

Maximum load(N)

Compression state

Free length
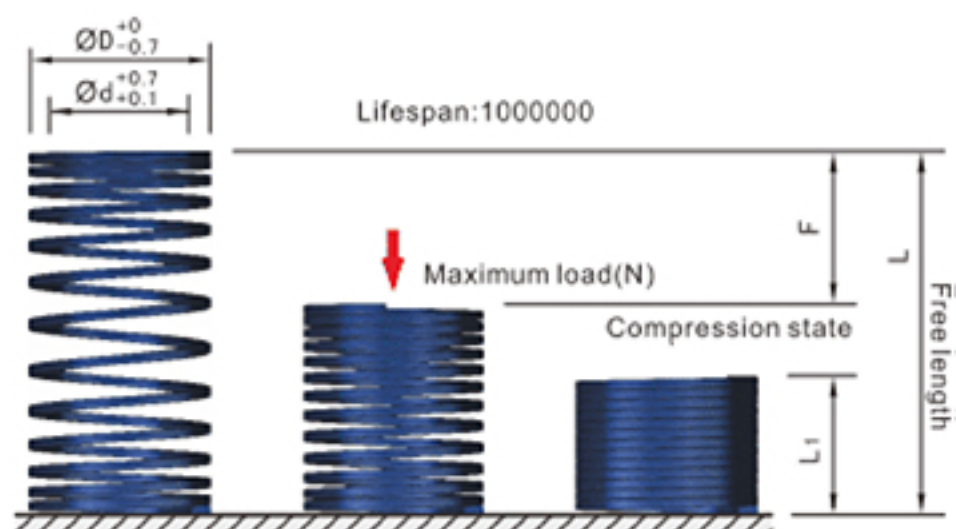
☎ Order   DSWL-D-L

D	L	d	N/mm	(mm)	F=L×32%		F=L×36%		F=L×40%		@¥/P
					Fmm	N	Fmm	N	Fmm	N	
50	70	25	118.7	37.8	22.4	2647.8	25.2	2981.2	28	3314.6	
	75		110.5	40.5	24		27		30		
	80		104	43.2	25.6		28.8		32		
	90		92.2	48.6	28.8		32.4		36		
	100		83.4	54	32		36		40		
	125		66.7	67.5	40		45		50		
	150		54.9	81	48		54		60		
	175		47.1	94.5	56		63		70		
	200		41.2	108	64		72		80		
	225		26.8	122	72		81		90		
	250		33.3	135	80		90		100		
	275		30.1	149	88		99		110		
	300		27.5	162	96		108		120		
	350		23.6	200.9	112		126		140		
60	60	30	199.1	32.4	19.2	3814.8	21.6	4285.5	24	4766	
	70		170.6	37.8	22.4		25.2		28		
	80		149.1	43.2	25.6		28.8		32		
	90		132.4	48.6	28.8		32.4		36		
	100		119.6	54	32		36		40		
	125		95.1	67.5	40		45		50		
	150		79.4	81	48		54		60		
	175		67.7	94.5	56		63		70		
	200		59.8	108	64		72		80		
	250		48.1	135	80		90		100		
	300		40.2	162	96		108		120		
	350		34.1	200.9	112		126		140		
70	70	38.5	213.7	40.2	22.4	4785.6	25.2	5383.8	28	5982	
	80		186.9	45.9	25.6		28.8		32		
	90		166.2	51.7	28.8		32.4		36		
	100		149.6	57.4	32		36		40		
	125		119.6	71.8	40		45		50		
	150		99.7	86.1	48		54		60		
	175		85.5	100.5	56		63		70		
	200		74.8	114.8	64		72		80		
	250		59.8	143.5	80		90		100		
	300		49.9	172.2	96		108		120		
	350		42.7	200.9	112		126		140		

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