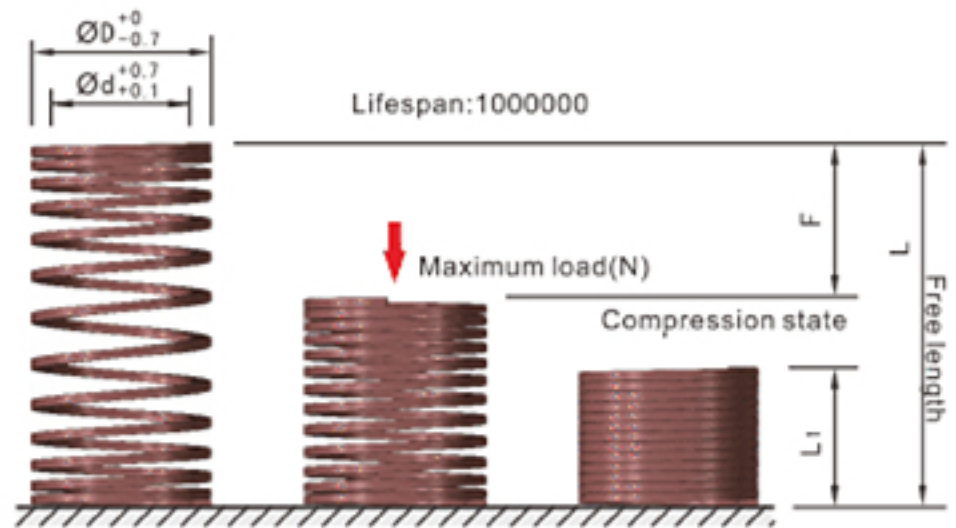
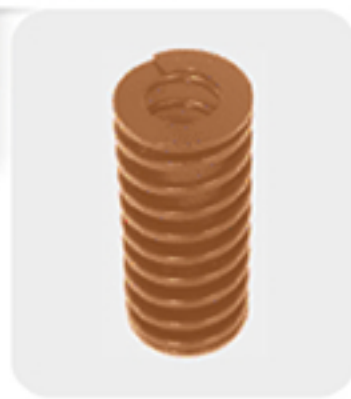


DSWB



**Maximum load calculate method:**

Maximum load=compression×spring constant

$N = F_{mm} \times N/mm$  (kgf= $N \times 0.101972$ )

Maximum load Deviation:  $\pm 10\%$

If  $D \leq 70$ , Tolerance  $D: \begin{smallmatrix} +0 \\ -1 \end{smallmatrix}$

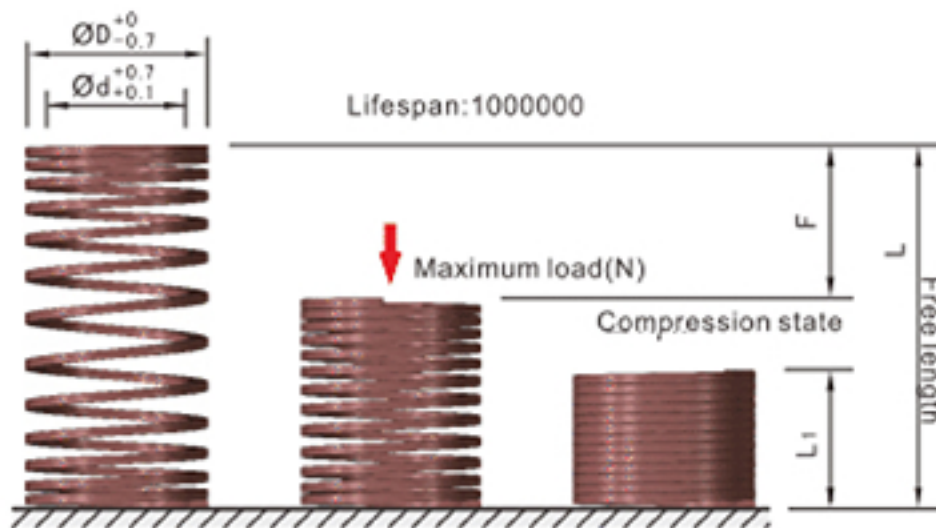
If  $D \leq 50$ , Tolerance  $L \pm 0.5$

If  $D \geq 55$ , Tolerance  $L \pm 1\% \times L$

Order DSWB-D-L

D	L	d			F=L×16%		F=L×18%		F=L×20%		@ ¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
6	15	3	58.84	11.6	2.4	141.2	2.7	158.9	3	176.5	
	20		44.13	15.5	3.2		3.6		4		
	25		35.3	19.4	4		4.5		5		
	30		29.42	23.2	4.8		5.4		6		
	35		25.2	27.1	5.6		6.3		7		
	40		22.06	31	6.4		7.2		8		
	45		19.61	34.8	7.2		8.1		9		
	50		17.65	38.7	8		9		10		
	55		16.08	42.6	8.8		9.9		11		
	60		14.71	46.4	9.6		10.8		12		
8	10	4	161.8	7.7	1.6	255	1.8	294.2	2	323.6	
	15		105.9	11.4	2.4		2.7		3		
	20		79.4	15.2	3.2		3.6		4		
	25		63.7	19	4		4.5		5		
	30		53	22.8	4.8		5.4		6		
	35		45.1	26.6	5.6		6.3		7		
	40		40.2	30.4	6.4		7.2		8		
	45		35.3	34.2	7.2		8.1		9		
	50		32.4	38	8		9		10		
	55		29.4	41.8	8.8		9.9		11		
	60		26.5	45.6	9.6		10.8		12		
	65		24.5	50.3	10.4		11.7		13		
	70		22.8	54.2	11.2		12.6		14		
	75		21.2	58.1	12		13.5		15		
10	80	5	19.9	61.9	12.8	353	14.4	402.1	16	441.3	
	10		220.6	7.7	1.6		1.8		2		
	15		147.1	11.6	2.4		2.7		3		
	20		110.8	15.2	3.2		3.6		4		
	25		88.3	19	4		4.5		5		
	30		73.6	22.8	4.8		5.4		6		
	35		62.8	26.6	5.6		6.3		7		
	40		54.9	30.4	6.4		7.2		8		
	45		49	34.2	7.2		8.1		9		
	50		44.1	38	8		9		10		
	55		40.2	41.8	8.8		9.9		11		
	60		37.3	45.6	9.6		10.8		12		
	65		34.3	49.4	10.4		11.7		13		
	70		31.4	53.2	11.2		12.6		14		
	75		29.4	57	12		13.5		15		
	80		27.5	60.8	12.8		14.4		16		



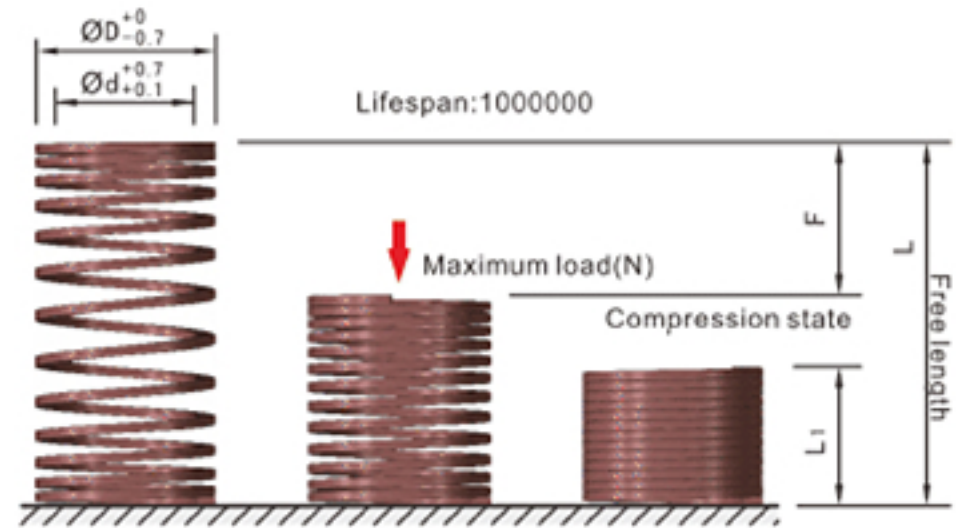


Order DSWB-D-L

D	L	d			F=L×16%		F=L×18%		F=L×20%		@ ¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
10	90	5	24.5	68.4	14.4	353	16.2	402.1	18	441.3	
	15		189.3	11.6	2.4		2.7		3		
	20		142.2	15.2	3.2		3.6		4		
	25		113.8	19	4		4.5		5		
	30		95.1	22.8	4.8		5.4		6		
	35		81.4	26.6	5.6		6.3		7		
12	40	6	71.6	30.4	6.4		7.2		8		
	45		62.8	34.2	7.2		8.1		9		
	50		56.9	38	8	451.1	9	509.9	10	568.8	
	55		52	41.8	8.8		9.9		11		
	60		47.1	45.6	9.6		10.8		12		
	65		43.1	49.4	10.4		11.7		13		
14	70	7	40.2	53.2	11.2		12.6		14		
	75		38.2	57	12		13.5		15		
	80		35.3	60.8	12.8		14.4		16		
	90		31.6	68.4	14.4		16.2		18		
	20		183.9	15.5	3.2		3.6		4		
	25		142.2	19	4		4.5		5		
16	30	8	122.6	22.8	4.8		5.4		6		
	35		104.9	26.6	5.6		6.3		7		
	40		92.2	30.4	6.4		7.2		8		
	45		81.4	34.2	7.2		8.1		9		
	50		73.5	38	8		9		10		
	55		66.7	41.8	8.8	588.4	9.9	666.9	11	735.5	
18	60	9	61.8	45.6	9.6		10.8		12		
	65		56.9	49.4	10.4		11.7		13		
	70		53	53.2	11.2		12.6		14		
	75		49	57	12		13.5		15		
	80		46.1	60.8	12.8		14.4		16		
	90		41.2	68.4	14.4		16.2		18		
20	100	10	36.8	76	16		18		20		
	20		245.2	15.5	3.2		3.6		4		
	25		196.1	19	4		4.5		5		
	30		163.7	22.8	4.8		5.4		6		
	35		140.2	26.6	5.6		6.3		7		
	40		122.6	30.4	6.4		7.2		8		
22	45	11	108.9	34.2	7.2		8.1		9		
	50		98.1	38	8		9		10		
	55		89.2	41.8	8.8	784.5	9.9	882.6	11	980.7	
	60		81.4	45.6	9.6		10.8		12		
	65		75.5	49.4	10.4		11.7		13		
	70		69.6	53.2	11.2		12.6		14		
24	75	12	65.7	57	12		13.5		15		
	80		61.8	60.8	12.8		14.4		16		
	90		54.9	68.4	14.4		16.2		18		
	100		49	76	16		18		20		
	20		306.5	15.5	3.2		3.6		4		
	25		245.2	19	4		4.5		5		
26	30	13	204	22.8	4.8		5.4		6		
	35		175.5	26.6	5.6		6.3		7		
	40		153	30.4	6.4		7.2		8		
	45		136.3	34.2	7.2		8.1		9		
	50		122.6	38	8	980.7	9	1108.2	10	1225.8	
	55		111.8	41.8	8.8		9.9		11		
28	60	14	102	45.6	9.6		10.8		12		
	65		94.1	49.4	10.4		11.7		13		
	70		87.3	53.2	11.2		12.6		14		
	75		81.4	57	12		13.5		15		
	80		76.5	60.8	12.8		14.4		16		



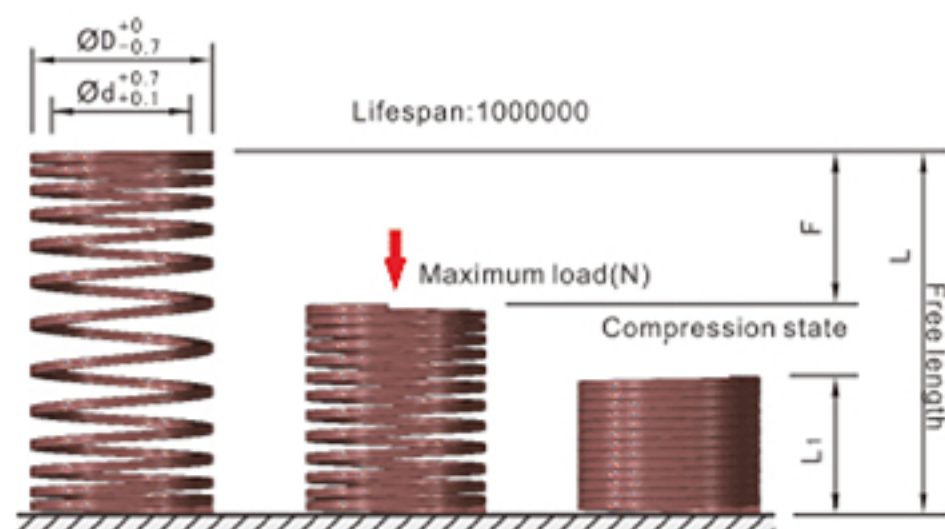




Order DSWB-D-L

D	L	d			F=L×16%		F=L×18%		F=L×20%		@ ¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
18	90	9	67.7	68.4	14.4	980.7	16.2	1108.2	18	1225.8	
	100		61.8	11.6	16		18		20		
	20		392.3	15.5	3.2		3.6		4		
	25		313.8	19	4		4.5		5		
	30		261.8	22.8	4.8		5.4		6		
	35		224.6	26.6	5.6		6.3		7		
	40		196.1	30.4	6.4		7.2		8		
	45		174.6	34.2	7.2		8.1		9		
	50		156.9	38	8		9		10		
	55		142.2	41.8	8.8		9.9		11		
20	60	10	130.4	45.6	9.6	1255.3	10.8	1412.2	12	1569.1	
	65		120.6	49.4	10.4		11.7		13		
	70		111.8	53.2	11.2		12.6		14		
	75		104.9	57	12		13.5		15		
	80		98.1	60.8	12.8		14.4		16		
	90		87.3	68.4	14.4		16.2		18		
	100		78.5	76	16		18		20		
	125		62.8	95	20		22.5		25		
	150		52	114	24		27		30		
	25		382.5	19	4		4.5		5		
22	30	11	318.7	22.8	4.8	1529.8	5.4	1726	6	1912.3	
	35		273.6	26.6	5.6		6.3		7		
	40		239.3	30.4	6.4		7.2		8		
	45		212.8	34.2	7.2		8.1		9		
	50		191.2	38	8		9		10		
	55		173.6	41.8	8.8		9.9		11		
	60		159.8	45.6	9.6		10.8		12		
	65		147.1	49.4	10.4		11.7		13		
	70		136.3	53.2	11.2		12.6		14		
	75		127.5	57	12		13.5		15		
25	80	12.5	119.6	60.8	12.8	1922.1	14.4	2167.3	16	2402.6	
	90		105.9	68.4	14.4		16.2		18		
	100		96.1	76	16		18		20		
	125		76.5	95	20		22.5		25		
	150		63.7	114	24		27		30		
	25		480.6	19	4		4.5		5		
	30		400.1	22.8	4.8		5.4		6		
	35		343.2	26.6	5.6		6.3		7		
	40		300.1	30.4	6.4		7.2		8		
	45		266.7	34.2	7.2		8.1		9		
27	50	13.5	240.3	38	8	2275.1	9	2559.5	10	2843.9	
	55		218.7	41.8	8.8		9.9		11		
	60		200.1	45.6	9.6		10.8		12		
	65		184.4	49.4	10.4		11.7		13		
	70		171.6	53.2	11.2		12.6		14		
	75		159.8	57	12		13.5		15		
	80		150	60.8	12.8		14.4		16		
	90		133.4	68.4	14.4		16.2		18		
	100		120.6	76	16		18		20		
	125		96.1	95	20		22.5		25		
27	150	13.5	80.4	114	24	2275.1	27	2559.5	30	2843.9	
	175		68.6	133	28		31.5		35		
	25		568.8	19	4		4.5		5		
	30		473.7	22.8	4.8		5.4		6		
	35		406	26.6	5.6		6.3		7		
	40		356	30.4	6.4		7.2		8		
27	45	13.5	315.8	34.2	7.2	2275.1	8.1	2559.5	9	2843.9	
	50		284.4	38	8		9		10		
	55		258.9	41.8	8.8		9.9		11		



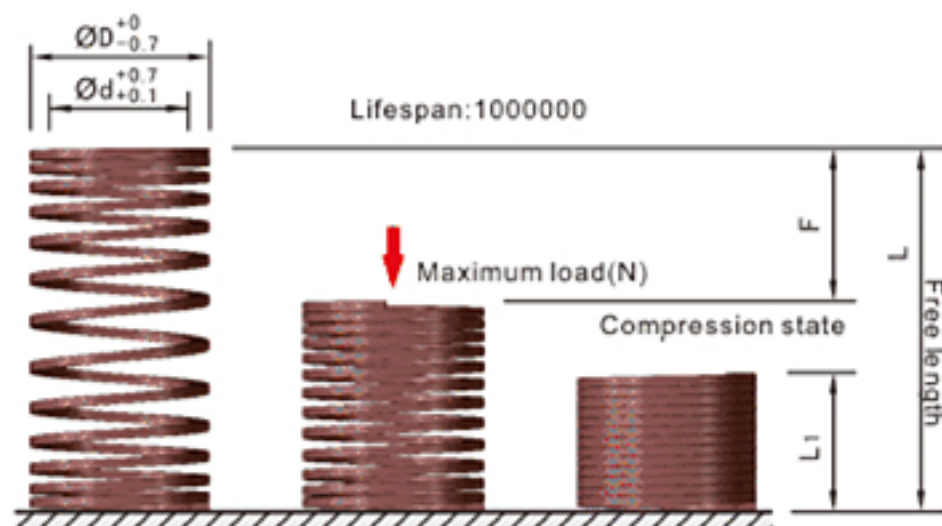
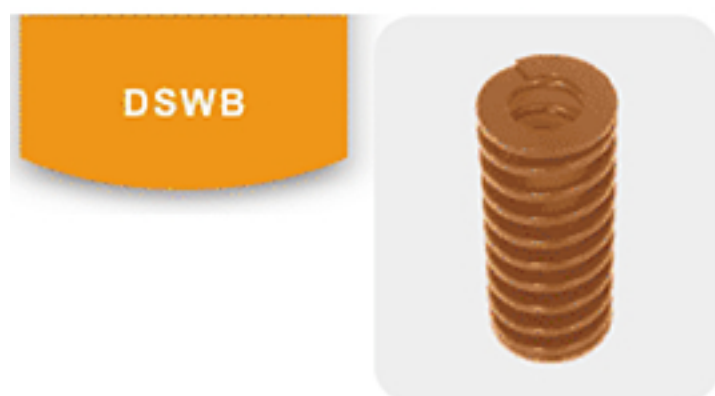


Order DSWB-D-L

D	L	d			F=L×16%		F=L×18%		F=L×20%		@ ¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
27	60	13.5	237.3	45.6	9.6	2275.1	10.8	2559.5	12	2843.9	
	65		218.7	49.4	10.4		11.7		13		
	70		203	53.2	11.2		12.6		14		
	75		189.3	57	12		13.5		15		
	80		177.5	60.8	12.8		14.4		16		
	90		157.9	68.4	14.4		16.2		18		
	100		142.2	76	16		18		20		
	125		113.8	95	20		22.5		25		
	150		95.1	114	24		27		30		
	175		81.4	133	28		31.5		35		
30	25	15	706.1	19	4	2624.3	4.5	3177.4	5	3530.4	
	30		588.4	22.8	4.8		5.4		6		
	35		504.1	26.6	5.6		6.3		7		
	40		441.3	30.4	6.4		7.2		8		
	45		392.3	34.2	7.2		8.1		9		
	50		353	38	8		9		10		
	55		320.7	41.8	8.8		9.9		11		
	60		294.2	45.6	9.6		10.8		12		
	65		271.6	49.4	10.4		11.7		13		
	70		252	53.2	11.2		12.6		14		
	75		235.4	57	12		13.5		15		
	80		220.6	60.8	12.8		14.4		16		
	90		196.1	68.4	14.4		16.2		18		
	100		176.5	76	16		18		20		
35	125	17.5	141.2	95	20	3844.2	22.5	4324.7	25	4805.3	
	150		117.7	114	24		27		30		
	175		101	133	28		31.5		35		
	200		88.3	152	32		36		40		
	40		601.1	30.4	6.4		7.2		8		
	45		533.5	34.2	7.2		8.1		9		
	50		480.5	38	8		9		10		
	55		436.4	41.8	8.8		9.9		11		
	60		400.1	45.6	9.6		10.8		12		
	65		369.7	49.4	10.4		11.7		13		
	70		343.2	53.2	11.2		12.6		14		
	75		320.7	57	12		13.5		15		
40	80	20	300.1	60.8	12.8	5021	14.4	5648.6	16	6276.3	
	90		266.7	68.4	14.4		16.2		18		
	100		240.3	76	16		18		20		
	125		192.2	95	20		22.5		25		
	150		159.8	114	24		27		30		
	175		137.3	133	28		31.5		35		
	200		120.6	152	32		36		40		
	40		784.5	30.4	6.4		7.2		8		
	45		697.4	34.2	7.2		8.1		9		
	50		627.6	38	8		9		10		
	55		570.6	41.8	8.8		9.9		11		
	60		522.7	45.6	9.6		10.8		12		
	65		482.3	49.4	10.4		11.7		13		
	70		448.2	53.2	11.2		12.6		14		
	75		418.4	57	12		13.5		15		
	80		392.3	60.8	12.8		14.4		16		
	90		349.1	68.4	14.4		16.2		18		
	100		313.8	76	16		18		20		
	125		251.1	95	20		22.5		25		
	150		208.9	114	24		27		30		
	175		179.5	133	28		31.5		35		
	200		156.9	152	32		36		40		
	225		139.5	171	36		40.5		45		







Order DSWB-D-L

D	L	d			F=L×16%		F=L×18%		F=L×20%		@ ¥/P
			N/mm	(mm)	Fmm	N	Fmm	N	Fmm	N	
40	250	20	125.5	190	40	5021	45	5648.6	50	6276.3	
	275		115.9	209	44		49.5		55		
	300		104.6	232.2	48		54		60		
	50		980.7	38	8		9		10		
50	55	25	891.5	41.8	8.8	7845.3	9.9	8826	11	9806.7	
	60		816.9	45.6	9.6		10.8		12		
	65		754.4	49.4	10.4		11.7		13		
	70		700.2	53.2	11.2		12.6		14		
	75		653.8	57	12		13.5		15		
	80		612.9	60.8	12.8		14.4		16		
	90		545.2	68.4	14.4		16.2		18		
	100		490.3	76	16		18		20		
	125		392.3	95	20		22.5		25		
	150		326.6	114	24		27		30		
	175		280.4	133	28		31.5		35		
	200		245.2	152	32		36		40		
	225		217.9	171	36		40.5		45		
	250		196.1	190	40		45		50		
	275		178.3	209	44		49.5		55		
	300		163.8	228	48		54		60		
	350		140.1	270.9	56		63		70		
60	60	30	1176.8	45.6	9.6	11297.3	10.8	12709.4	12	14121.6	
	70		1009.1	53.2	11.2		12.6		14		
	80		882.6	60.8	12.8		14.4		16		
	90		784.5	68.4	14.4		16.2		18		
	100		706.1	76	16		18		20		
	125		564.9	95	20		22.5		25		
	150		470.7	114	24		27		30		
	175		403.1	133	28		31.5		35		
	200		353	152	32		36		40		
	250		282.4	190	40		45		50		
	300		235.4	228	48		54		60		
	350		201.7	270.9	56		63		70		
70	70	38.5	1218.9	54.2	11.2	14122	12.6	15887	14	17652	
	80		1066.5	61.9	12.8		14.4		16		
	90		948	69.7	14.4		16.2		18		
	100		882.6	76	16		18		20		
	125		706.1	95	20		22.5		25		
	150		588.4	114	24		27		30		
	175		504.3	133	28		31.5		35		
	200		441.3	152	32		36		40		
	250		353	190	40		45		50		
	300		294.2	228	48		54		60		
	350		252.2	266	56		63		70		

