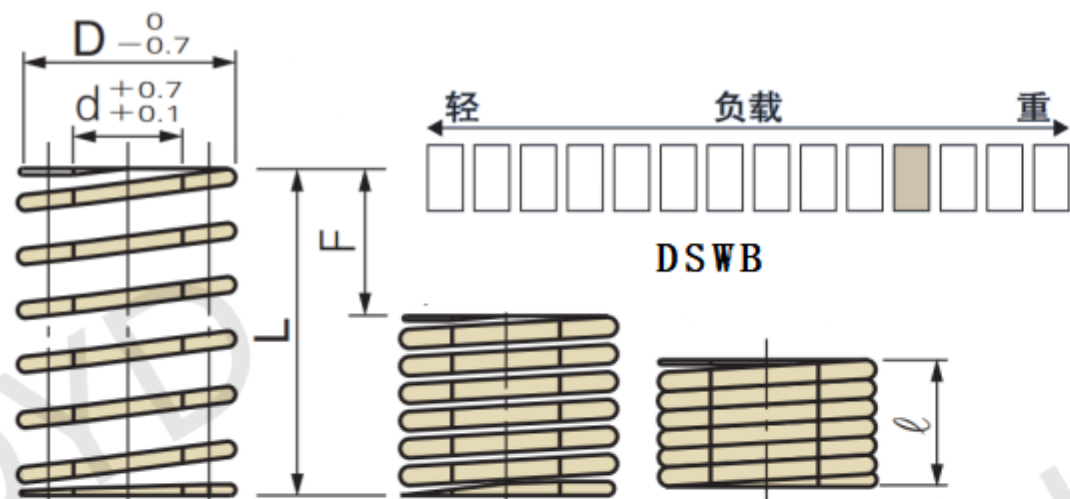




Outer diameter tolerance: $-0.7 \sim 0$ mm when $D \leq 70$

$D=70, -1.0 \sim 0$ mm

Inner diameter tolerance: $d+0.1 \sim +0.7$ mm

Load tolerance: $\pm 10\%$

Verticality: below 2°

Free length tolerance: ± 0.5 mm when $L \leq 50$

Winding direction: Right winding

Type: DSW B 25 - 50

Rectangular spring length "L"

Outer diameter of rectangular spring "D"

Rectangular spring color code

Rectangular helical spring

D	d	L	Spring constant	Limit deformation	F=L*40%		F=L*45%		F=L*50%		Catalog No.								
			N/mm (kgf/mm)	Q min	Fmm	N (kgf)	Fmm	N (kgf)	Fmm	N (kgf)	Type	D	-	L					
Frequency of use:					1000000	times	500,000	times	300,000	times									
6	3	15	59.0 {6.0}	11.6	2.4	142 {14}	2.7	159 {16}	3	177 {18}	DSWB	6	-	15					
		20	44.3 {4.5}	15.5	3.2		3.6		4				20						
		25	35.4 {3.6}	19.4	4.0		4.5		5				25						
		30	29.5 {3.0}	23.2	4.8		5.4		6				30						
		35	25.3 {2.6}	27.1	5.6		6.3		7				35						
		40	22.1 {2.3}	31.0	6.4		7.2		8				40						
		45	19.7 {2.0}	34.8	7.2		8.1		9				45						
		50	17.7 {1.8}	38.7	8.0		9		10				50						
		55	16.1 {1.6}	42.6	8.8		9.9		11				55						
		60	14.8 {1.5}	46.4	9.6		10.4		12					60					
		10	162 {16.5}	7.7	1.6		1.8		2		DSWB	8	-	10					
		15	108 {11.0}	11.6	2.4		2.7		3					15					
		20	80.8 {8.2}	15.9	3.2		3.6		4					20					
		25	64.6 {6.6}	19.4	4.0		4.5		5					25					
		30	53.8 {5.5}	23.2	4.8		5.4		6					30					
		35	46.1 {4.7}	27.1	5.6		6.3		7					35					
		40	40.4 {4.1}	31.0	6.4		7.2		8					40					
		45	35.9 {3.7}	34.8	7.2		8.1		9					45					
8	4	50	32.3 {3.3}	38.7	8.0	258 {26}	9	291 {30}	10	323 {33}				50					
		55	29.4 {3.0}	42.6	8.8		9.9		11					55					
		60	26.9 {2.7}	46.4	9.6		10.8		12					60					
		65	24.8 {2.5}	50.3	10.4		11.7		13					65					
		70	23.1 {2.4}	54.2	11.2		12.6		14					70					
		75	21.5 {2.2}	58.1	12.0		13.5		15					75					
		80	20.2 {2.1}	61.9	12.8		14.4		16					80					
		10	221 {22.5}	7.7	1.6		1.8		2		DSWB	10	-	10					
		15	147 {15.0}	11.6	2.4		2.7		3					15					
		20	110 {11.2}	15.5	3.2	353 {36}	3.6	397 {41}	4	441 {45}				20					
		25	88.2 {9.0}	19.4	4.0		4.5		5					25					
		30	73.5 {7.5}	23.2	4.8		5.4		6					30					
		35	63.0 {6.4}	27.1	5.6		6.3		7					35					
		40	55.1 {5.6}	31.0	6.4		7.2		8					40					
		45	49.0 {5.0}	34.8	7.2		8.1		9					45					
		50	44.1 {4.5}	38.7	8.0		9		10					50					
		55	40.1 {4.1}	42.6	8.8		9.9		11					55					
		60	36.8 {3.7}	46.4	9.6		10.8		12					60					
		65	33.9 {3.5}	50.3	10.4		11.7		13					65					
		70	31.5 {3.2}	54.2	11.2		12.6		14					70					
		75	29.4 {3.0}	58.1	12.0		13.5		15					75					
		80	27.6 {2.8}	61.9	12.8		14.4		16					80					
		90	24.5 {2.5}	69.7	14.4		16.2		18					90					
				15	190 {19.3}		11.6		2.4		455 {46}	2.7	512 {52}	3	569 {58}	DSWB	12	-	15
				20	142 {14.5}		15.5		3.2			3.6		4					20
				25	114 {11.6}		19.4		4.0			4.5		5					25
				30	94.8 {9.7}		23.2		4.8			5.4		6					30
35	81.3 {8.3}			27.1	5.6	6.3	7					35							
40	71.1 {7.3}			31.0	6.4	7.2	8					40							
45	63.2 {6.4}			34.8	7.2	8.1	9					45							
50	56.9 {5.8}			38.7	8.0	9	10					50							
55	51.7 {5.3}			42.6	8.8	9.9	11					55							
		60	47.4 {4.8}	46.4	9.6		10.8		12					60					
		65	43.8 {4.5}	50.3	10.4		11.7		13					65					
		70	40.6 {4.1}	54.2	11.2		12.6		14					70					
		75	37.9 {3.9}	58.1	12.0		13.5		15					75					
		80	35.6 {3.6}	61.9	12.8		14.4		16					80					
		90	31.6 {3.2}	69.7	14.4		16.2		18					90					
				20	184 {18.8}		15.5		3.2		589 {60}	3.6	662 {68}	4	736 {75}	DSWB	14	-	20
				25	147 {15.0}		19.4		4.0			4.5		5					25
				30	123 {12.5}		23.2		4.8			5.4		6					30
35	105 {10.7}			27.1	5.6	6.3	7					35							
40	92.0 {9.4}			31.0	6.4	7.2	8					40							
45	81.8 {8.3}			34.8	7.2	8.1	9					45							
50	73.6 {7.5}			38.7	8.0	9	10					50							
55	66.9 {6.8}			42.6	8.8	9.9	11					55							
60	61.3 {6.3}			46.4	9.6	10.8	12					60							
		65	56.6 {5.8}	50.3	10.4		11.7		13					65					
		70	52.6 {5.4}	54.2	11.2		12.6		14					70					
		75	49.1 {5.0}	58.1	12.0		13.5		15					75					
		80	46.0 {4.7}	61.9	12.8		14.4		16					80					
		90	40.9 {4.2}	69.7	14.4		16.2		18					90					
		100	36.8 {3.8}	77.4	16.0		18		20					100					
				20	245 {25.0}		15.5		3.2		784 {80}	3.6	882 {90}	4	980 {100}	DSWB	16	-	20
				25	196 {20.0}		19.4		4.0			4.5		5					25
				30	163 {16.7}		23.2		4.8			5.4		6					30
35	140 {14.3}			27.1	5.6	6.3	7					35							
40	123 {12.5}			31.0	6.4	7.2	8					40							
45	109 {11.1}			34.8	7.2	8.1	9					45							
50	98.0 {10.0}			38.7	8.0	9	10					50							
55	89.1 { 9.1}			42.6	8.8	9.9	11					55							
60	81.7 { 8.3}			46.4	9.6	10.8	12					60							
		65	75.4 { 7.7}	50.3	10.4		11.7		13					65					
		70	70.0 { 7.1}	54.2	11.2		12.6		14					70					
		75	65.3 { 6.7}	58.1	12.0		13.5		15					75					
		80	61.3 { 6.3}	61.9	12.8		14.4		16					80					
		90	54.4 { 5.6}	69.7	14.4		16.2		18					90					
		100	49.0 { 5.0}	77.4	16.0		18		20					100					
				20	306 {31.2}		15.5		3.2		980 {100}	3.6	1103 {113}	4	1225 {125}	DSWB	18	-	20
				25	245 {25.0}		19.4		4.0			4.5		5					25
				30	204 {20.8}		23.2		4.8			5.4		6					30
35	175 {17.8}			27.1	5.6	6.3	7					35							
40	153 {15.6}			31.0	6.4	7.2	8					40							
45	136 {13.9}			34.8	7.2	8.1	9					45							
50	123 {12.5}			38.7	8.0	9	10					50							
55	111 {11.4}			42.6	8.8	9.9	11					55							
60	102 {10.4}			46.4	9.6	10.8	12					60							
		65	94.2 {9.6}	50.3	10.4		11.7		13					65					
		70	87.5 {8.9}	54.2	11.2		12.6		14					70					
		75	81.7 {8.3}	58.1	12.0		13.5		15					75					
		80	76.6 {7.8}	61.9	12.8		14.4		16					80					
		90	68.1 {6.9}	69.7	14.4		16.2		18					90					
		100	61.3 {6.2}	77.4	16.0		18		20					100					
				20	392 {40.0}		15.5		3.2		1254 {128}	3.6	1411 {144}	4	1568 {160}	DSWB	20	-	20
				25	314 {32.0}		19.4		4.0			4.5		5					25
				30	261 {26.6}		23.2		4.8			5.4		6					30
35	224 {22.8}			27.1	5.6	6.3	7					35							
40	196 {20.0}			31.0	6.4	7.2	8					40							
45	174 {17.8}			34.8	7.2	8.1	9					45							
50	157 {16.0}			38.7	8.0	9	10					50							
55	143 {14.5}			42.6	8.8	9.9	11					55							
60	131 {13.3}			46.4	9.6	10.8	12					60							
		65	121 {12.3}	50.3	10.4		11.7		13					65					
		70	112 {11.4}	54.2	11.2		12.6		14					70					
		75	105 {10.7}	58.1	12.0		13.5		15					75					
		80	98.0 {10.0}	61.9	12.8		14.4		16					80					
		90	87.1 { 8.9}	69.7	14.4		16.2		18					90					
		100	78.4 { 8.0}	77.4	16.0		18		20					100					
		125	62.7 { 6.4}	96.8	20.0		22.5		25					125					
		150	52.3 { 5.3}	116.1	24.0		27		30					150					
				25	382 {39.0}		19.4		4.0		1530 {156}	4.5	1721 {175}	5	1912 {195}	DSWB	22	-	25
30	319 {32.5}			23.2	4.8	5.4	6					30							
35	273 {27.9}			27.1	5.6	6.3	7					35							
40	239 {24.4}			31.0	6.4	7.2													