

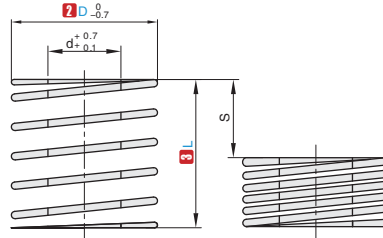
中轻载荷型

JIS标准矩形模具弹簧

J2
弹簧

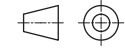


①代号	类型	材料
DSWK	中轻载荷型	SWOSC-V相当



载荷 ±10%
 垂直度 2° 以下
 自由长度 L 50 以下 ±0.5mm
 55 以上 ±1%
 0
 φ70的D公差为 -1.0

旋向: 右旋



视角标准: 第一视角



①代号 - ②D - ③L
DSWK - D6 - L15

①代号	φD	φL	d	弹簧系数 N/mm (kgf/mm)	压紧长度 L1 (mm)	S=L×25.6%		S=L×28.8%		S=L×32%	
						S	载荷N	S	载荷N	S	载荷N
						(mm)	(kgf)	(mm)	(kgf)	(mm)	(kgf)
DSWK	6	3	15	20.4(2.08)	9.8	3.8	4.3	4.8	98	(10)	
			20	15.3(1.56)	13.1	5.1	5.8	6.4			
			25	12.3(1.25)	16.4	6.4	7.2	8			
			30	10.2(1.04)	19.6	7.7	8.6	9.6			
			35	8.8(0.89)	22.9	9	10.1	11.2			
			40	7.7(0.78)	26.2	10.2	11.5	12.8			
			45	6.8(0.69)	29.4	11.5	13	14.4			
			50	6.1(0.63)	32.7	12.8	14.4	16			
			55	5.6(0.57)	36	14.1	15.8	17.6			
	60	5.1(0.52)	39.2	15.4	17.3	19.2					
	8	4	10	42.9(4.37)	6.6	2.6	2.9	3.2			
			15	28.6(2.91)	9.4	3.8	4.3	4.8			
			20	21.5(2.18)	12.5	5.1	5.8	6.4			
			25	17.2(1.75)	15.7	6.4	7.2	8			
			30	14.3(1.46)	18.8	7.7	8.6	9.6			
			35	12.2(1.25)	21.9	9	10.1	11.2			
			40	10.7(1.09)	25	10.2	11.5	12.8			
			45	9.5(0.97)	28.2	11.5	13	14.4			
50			8.6(0.87)	31.3	12.8	14.4	16				
55			7.8(0.79)	34.4	14.1	15.8	17.6				
10	5	10	61.3(6.25)	6.6	2.6	2.9	3.2				
		15	40.9(4.17)	9.8	3.8	4.3	4.8				
		20	30.6(3.13)	12.5	5.1	5.8	6.4				
		25	24.5(2.50)	15.7	6.4	7.2	8				
		30	20.4(2.08)	18.8	7.7	8.6	9.6				
		35	17.5(1.79)	21.9	9	10.1	11.2				
		40	15.3(1.56)	25	10.2	11.5	12.8				
		45	13.6(1.39)	28.2	11.5	13	14.4				
		50	12.3(1.25)	31.3	12.8	14.4	16				
		55	11.1(1.14)	34.4	14.1	15.8	17.6				

①代号	φD	φL	d	弹簧系数 N/mm (kgf/mm)	压紧长度 L1 (mm)	S=L×25.6%		S=L×28.8%		S=L×32%	
						S	载荷N	S	载荷N	S	载荷N
						(mm)	(kgf)	(mm)	(kgf)	(mm)	(kgf)
DSWK	12	6	15	59.2(6.04)	9.8	3.8	4.3	4.8	284	(29)	
			20	44.4(4.53)	12.5	5.1	5.8	6.4			
			25	35.5(3.63)	15.7	6.4	7.2	8			
			30	29.6(3.02)	18.8	7.7	8.6	9.6			
			35	25.4(2.59)	21.9	9	10.1	11.2			
			40	22.2(2.27)	25	10.2	11.5	12.8			
			45	19.7(2.01)	28.2	11.5	13	14.4			
			50	17.8(1.81)	31.3	12.8	14.4	16			
			55	16.2(1.65)	34.4	14.1	15.8	17.6			
			60	14.8(1.51)	37.6	15.4	17.3	19.2			
			65	13.7(1.39)	40.7	16.6	18.7	20.8			
			70	12.7(1.29)	43.8	17.9	20.2	22.4			
	14	7	75	11.8(1.21)	47	19.2	21.6	24			
			80	11.1(1.13)	50.1	20.5	23	25.6			
			90	9.9(1.01)	56.3	23	25.9	28.8			
			20	59.8(6.09)	13.1	5.1	5.8	6.4			
			25	47.9(4.88)	15.7	6.4	7.2	8			
			30	39.9(4.08)	18.8	7.7	8.6	9.6			
			35	34.2(3.48)	21.9	9	10.1	11.2			
			40	29.9(3.05)	25	10.2	11.5	12.8			
			45	26.8(2.71)	28.2	11.5	13	14.4			
			50	23.9(2.44)	31.3	12.8	14.4	16			
	16	8	55	21.8(2.22)	34.4	14.1	15.8	17.6			
			60	19.9(2.03)	37.6	15.4	17.3	19.2			
			65	18.4(1.88)	40.7	16.6	18.7	20.8			
			70	17.1(1.74)	43.8	17.9	20.2	22.4			
			75	16.0(1.63)	47	19.2	21.6	24			
			80	15.0(1.52)	50.1	20.5	23	25.6			
			90	13.3(1.35)	56.3	23	25.9	28.8			
			100	12.0(1.22)	62.6	25.6	28.8	32			
20			78.1(7.97)	13.1	5.1	5.8	6.4				
25			62.5(6.38)	15.7	6.4	7.2	8				
30	52.1(5.31)	18.8	7.7	8.6	9.6						
35	44.7(4.55)	21.9	9	10.1	11.2						
40	39.1(3.98)	25	10.2	11.5	12.8						
45	34.7(3.54)	28.2	11.5	13	14.4						
50	31.3(3.19)	31.3	12.8	14.4	16						
55	28.4(2.90)	34.4	14.1	15.8	17.6						
60	26.0(2.66)	37.6	15.4	17.3	19.2						
65	24.0(2.45)	40.7	16.6	18.7	20.8						
70	22.3(2.28)	43.8	17.9	20.2	22.4						

中轻载荷型

JIS标准矩形模具弹簧

代号	D	L	d	弹簧系数 N/mm (kgf/mm)	压紧长度 L1 (mm)	S=L×25.6%		S=L×28.8%		S=L×32%	
						S (mm)	载荷N (kgf)	S (mm)	载荷N (kgf)	S (mm)	载荷N (kgf)
						100万次		50万次		30万次	
16	75	8		20.8(2.13)	47	19.2		21.6		24	500 (51)
	80			19.5(1.99)	50.1	20.5	400	23	450	25.6	
	90			17.4(1.77)	56.3	23	(41)	25.9	(46)	28.8	
	100			15.6(1.59)	62.6	25.6		28.8		32	
	20			99.6(10.2)	13.1	5.1		5.8		6.4	
	25	9		79.7(8.13)	15.7	6.4		7.2		8	637 (65)
	30			66.4(6.77)	18.8	7.7		8.6		9.6	
	35			56.9(5.80)	21.9	9		10.1		11.2	
	40			49.8(5.08)	25	10.2		11.5		12.8	
	45			44.3(4.51)	28.2	11.5		13		14.4	
	50			39.8(4.06)	31.3	12.8		14.4		16	
	55			36.2(3.69)	34.4	14.1	510 (52)	15.8	574 (59)	17.6	
	60			33.2(3.39)	37.6	15.4		17.3		19.2	
	65			30.6(3.13)	40.7	16.6		18.7		20.8	
	70			28.5(2.90)	43.8	17.9		20.2		22.4	
75	26.6(2.71)	47	19.2		21.6		24				
80	24.9(2.54)	50.1	20.5		23		25.6				
90	22.1(2.26)	56.3	23		25.9		28.8				
100	19.9(2.03)	62.6	25.6		28.8		32				
20	123(12.5)	13.1	5.1		5.8		6.4				
25	10		98.0(10.0)	15.7	6.4		7.2		8	784 (80)	
30			81.7(8.33)	18.8	7.7		8.6		9.6		
35			70.0(7.14)	21.9	9		10.1		11.2		
40			61.3(6.25)	25	10.2		11.5		12.8		
45			54.4(5.55)	28.2	11.5		13		14.4		
50			49.0(5.00)	31.3	12.8		14.4		16		
55			44.5(4.55)	34.4	14.1		15.8		17.6		
60			40.8(4.17)	37.6	15.4	628 (64)	17.3	706 (72)	19.2		
65			37.7(3.85)	40.7	16.6		18.7		20.8		
70			35.0(3.57)	43.8	17.9		20.2		22.4		
75	32.7(3.33)	47	19.2		21.6		24				
80	30.6(3.13)	50.1	20.5		23		25.6				
90	27.2(2.78)	56.3	23		25.9		28.8				
100	24.5(2.50)	62.6	25.6		28.8		32				
125	19.6(2.00)	78.3	32		36		40				
150	16.3(1.67)	93.9	38.4		43.2		48				
25	11		119(12.1)	15.7	6.4		7.2		8	951 (97)	
30			99.1(10.1)	18.8	7.7		8.6		9.6		
35			84.9(8.66)	21.9	9		10.1		11.2		
40			74.3(7.58)	25	10.2		11.5		12.8		
45			66.1(6.74)	28.2	11.5		13		14.4		
50			59.5(6.06)	31.3	12.8		14.4		16		
55			54.0(5.51)	34.4	14.1		15.8		17.6		
60			49.5(5.05)	37.6	15.4	761 (78)	17.3	856 (87)	19.2		
65			45.7(4.66)	40.7	16.6		18.7		20.8		
70			42.5(4.33)	43.8	17.9		20.2		22.4		
75			39.6(4.04)	47	19.2		21.6		24		
80			37.2(3.79)	50.1	20.5		23		25.6		
90			33.0(3.37)	56.3	23		25.9		28.8		
100			29.7(3.03)	62.6	25.6		28.8		32		
125			23.8(2.43)	78.3	32		36		40		
150	19.8(2.02)	93.9	38.4		43.2		48				
25	12.5		153(15.6)	15.7	6.4		7.2		8	1225 (125)	
30			128(13.0)	18.8	7.7		8.6		9.6		
35			109(11.2)	21.9	9		10.1		11.2		
40			95.7(9.77)	25	10.2		11.5		12.8		
45			85.1(8.68)	28.2	11.5		13		14.4		
50			76.6(7.81)	31.3	12.8		14.4		16		
55			69.6(7.10)	34.4	14.1		15.8		17.6		
60			63.8(6.51)	37.6	15.4		17.3		19.2		
65			58.9(6.01)	40.7	16.6	981 (100)	18.7	1103 (113)	20.8		
70			54.7(5.58)	43.8	17.9		20.2		22.4		
75			51.0(5.21)	47	19.2		21.6		24		
80			47.9(4.88)	50.1	20.5		23		25.6		
90			42.5(4.34)	56.3	23		25.9		28.8		
100			38.3(3.91)	62.6	25.6		28.8		32		
125			30.6(3.13)	78.3	32		36		40		
150	25.5(2.60)	93.9	38.4		43.2		48				
175	21.9(2.23)	109.6	44.8		50.4		56				

代号	D	L	d	弹簧系数 N/mm (kgf/mm)	压紧长度 L1 (mm)	S=L×25.6%		S=L×28.8%		S=L×32%	
						S (mm)	载荷N (kgf)	S (mm)	载荷N (kgf)	S (mm)	载荷N (kgf)
						100万次		50万次		30万次	
27	25	13.5		179(18.3)	15.7	6.4		7.2		8	1431 (146)
	30			149(15.2)	18.8	7.7		8.6		9.6	
	35			128(13.0)	21.9	9		10.1		11.2	
	40			112(11.4)	25	10.2		11.5		12.8	
	45			99.4(10.1)	28.2	11.5		13		14.4	
	50	89.4(9.13)	31.3	12.8		14.4		16			
	55	81.3(8.30)	34.4	14.1		15.8		17.6			
	60	74.5(7.60)	37.6	15.4		17.3		19.2			
	65	68.8(7.02)	40.7	16.6	1145 (117)	18.7	1288 (131)	20.8			
	70	63.9(6.52)	43.8	17.9		20.2		22.4			
	75	59.6(6.08)	47	19.2		21.6		24			
	80	55.9(5.70)	50.1	20.5		23		25.6			
	90	49.7(5.07)	56.3	23		25.9		28.8			
	100	44.7(4.56)	62.6	25.6		28.8		32			
	125	35.8(3.65)	78.3	32		36		40			
150	29.8(3.04)	93.9	38.4		43.2		48				
175	25.6(2.61)	109.6	44.8		50.4		56				
25	15		221(22.5)	15.7	6.4		7.2		8	1765 (180)	
30			184(18.8)	18.8	7.7		8.6		9.6		
35			158(16.1)	21.9	9		10.1		11.2		
40			138(14.1)	25	10.2		11.5		12.8		
45			123(12.5)	28.2	11.5		13		14.4		
50			110(11.3)	31.3	12.8		14.4		16		
55			100(10.2)	34.4	14.1		15.8		17.6		
60			91.9(9.38)	37.6	15.4		17.3		19.2		
65			84.9(8.65)	40.7	16.6	1412 (144)	18.7	1589 (162)	20.8		
70			78.8(8.04)	43.8	17.9		20.2		22.4		
75	73.5(7.50)	47	19.2		21.6		24				
80	69.0(7.03)	50.1	20.5		23		25.6				
90	61.3(6.25)	56.3	23		25.9		28.8				
100	55.2(5.63)	62.6	25.6		28.8		32				
125	44.1(4.50)	78.3	32		36		40				
150	36.8(3.75)	93.9	38.4		43.2		48				
175	31.5(3.21)	109.6	44.8		50.4		56				
200	27.6(2.81)	125.2	51.2		57.6		64				
40	17.5		188(19.1)	25	10.2		11.5		12.8	2401 (245)	
45			167(17.0)	28.2	11.5		12.9		14.4		
50			150(15.3)	31.3	12.8		14.4		16		
55			136(13.9)	34.4	14.1		15.8		17.6		
60			125(12.8)	37.6	15.4		17.3		19.2		
65			115(11.8)	40.7	16.6		18.7		20.8		
70			107(10.9)	43.8	17.9		20.2		22.4		
75			100(10.2)	47	19.2	1921 (196)	21.6	2161 (220)	24		
80			93.8(9.57)	50.1	20.5		23		25.6		
90			83.4(8.51)	56.3	23		25.9		28.8		
100			75.0(7.66)	62.6	25.6		28.8		32		
125			60.0(6.13)	78.3	32		36		40		
150			50.0(5.10)	93.9	38.4		43.2		48		
175			42.9(4.38)	109.6	44.8		50.4		56		
200			37.5(3.83)	125.5	51.2		57.6		64		
40	20		245(25.0)	25	10.2		11.5		12.8	3138 (320)	
45			218(22.2)	29.4	11.5		13		14.4		
50			196(20.0)	31.3	12.8		14.4		16		
55			178(18.2)	36	14.1		15.8		17.6		
60			163(16.7)	37.6	15.4		17.3		19.2		
65			151(15.4)	42.5	16.6		18.7		20.8		
70			140(14.3)	43.8	17.9		20.2		22.4		
75			131(13.3)	49.1	19.2		21.6		24		
80			123(12.5)	50.1	20.5		23		25.6		
90			109(11.1)	56.3	23	2510 (256)	25.9	2824 (288)	28.8		
100			98.1(10.0)	62.6	25.6		28.8		32		
125			78.5(8.00)	78.3	32		36		40		
150			65.4(6.67)	93.9	38.4		43.2		48		
175			56.0(5.71)	109.6	44.8		50.4		56		
200			49.0(5.00)	125.5	51.2		57.6		64		
225	43.6(4.44)	141	57.6		64.8		72				
250	39.2(4.00)	156.5	64		72		80				
275	35.7(3.64)	172	70.4		79.2		88				
300	32.7(3.33)	196.2	76.8		86.4		96				

J2
弹簧

中轻载荷型

JIS标准矩形模具弹簧

J2
弹簧

①代号	②D	③L	d	弹簧系数 N/mm (kgf/mm)	压紧长度 L1 (mm)	S=L×25.6%		S=L×28.8%		S=L×32%	
						S (mm)	载荷N (kgf)	S (mm)	载荷N (kgf)	S (mm)	载荷N (kgf)
						100万次		50万次		30万次	
DSWK	50	25		50	306(31.2)	31.3	12.8		14.4		16
				55	278(28.4)	34.4	14.1		15.8		17.6
				60	255(26.0)	37.6	15.4		17.3		19.2
				65	236(24.0)	40.7	16.6		18.7		20.8
				70	219(22.3)	43.8	17.9		20.2		22.4
				75	204(20.8)	47	19.2		21.6		24
				80	191(19.5)	50.1	20.5		23		25.6
				90	170(17.3)	56.3	23		25.9		28.8
				100	153(15.6)	62.6	25.6	3920	28.8	4410	32
				125	123(12.5)	78.3	32	(400)	36	(450)	40
				150	102(10.4)	93.9	38.4		43.2		48
				175	87.5(8.92)	109.6	44.8		50.4		56
				200	76.6(7.81)	125.2	51.2		57.6		64
				225	68.1(6.94)	141	57.6		64.8		72
				250	61.3(6.25)	156.5	64		72		80
	275	55.7(5.68)	172	70.4		79.2		88			
	300	51.0(5.20)	187.8	76.8		86.4		96			
	350	43.8(4.46)	228.9	89.6		100.8		112			
	60	30	60	368(37.5)	37.6	15.4		17.3		19.2	
			70	315(32.1)	43.8	17.9		20.2		22.4	
			80	276(28.1)	50.1	20.5		23		25.6	
			90	245(25.0)	56.3	23		25.9		28.8	
			100	221(22.5)	62.6	25.6		28.8		32	
			125	176(18.0)	78.3	32		36		40	
			150	147(15.0)	93.9	38.4	5645	43.2	6350	48	
			175	126(12.8)	109.6	44.8	(576)	50.4	(648)	56	
			200	110(11.2)	125.2	51.2		57.6		64	
			225	98.0(10.0)	141	57.6		64.8		72	
	70	38.5	70	372(37.9)	45.8	17.9		20.2		22.4	
			80	325(33.2)	52.3	20.5		23		25.6	
			90	289(29.5)	58.9	23		25.9		28.8	
			100	260(26.5)	65.4	25.6		28.8		32	
			125	208(21.2)	81.8	32		36		40	
			150	174(17.7)	98.1	38.4	6664	43.2	7497	48	
			175	149(15.2)	114.5	44.8	(680)	50.4	(764)	56	
200			130(13.3)	130.8	51.2		57.6		64		
250			104(10.6)	163.5	64		72		80		
300			86.8(8.85)	196.2	76.8		86.4		96		
350	74.4(7.58)	228.9	89.6		100.8		112				

载荷计算方法

载荷=弹簧系数×压缩量
(国际单位) $N=N/mm \times Smm$
 $kgf=kgf/mm \times Fmm$
($kgf=N \times 0.101972$)

- ▲ 压紧长度为参考值，且因生产批次不同会稍有偏差。
- ▲ 弹簧颜色与圈数可能会因为生产批次不同而异，但规格均符合目录标准，请放心使用



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