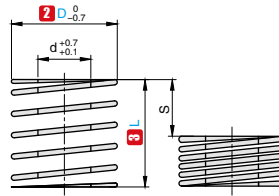


## 重载荷型



载荷  $\pm 10\%$   
 垂直度  $2^\circ$  以下  
 自由长度L 50以下  $\pm 0.5\text{mm}$   
 55以上  $\pm 1\%$

$\Delta \varnothing 70$ 的D公差为  $\pm 0.05$

旋向: 右旋

**DSJPPG**  
重载荷型

订购编号示例

**1** 代号 - **2** D - **3** L  
DSJPPG - 10 - 50

1 代号	2 D	3 L	d	劲度系数 N/mm (kgf/mm)	压紧长度 L <sub>1</sub> (mm)	S=L×16%		S=L×18%		S=L×20%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
						S	载荷 N (kgf)	S	载荷 N (kgf)	S	载荷 N (kgf)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						100 万次		50 万次		30 万次																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
DSJPPG	10	5	15	163 (16.7)	11.4	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	19.8	20.1	20.4	20.7	21.0	21.3	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.7	27.0	27.3	27.6	27.9	28.2	28.5	28.8	29.1	29.4	29.7	30.0	30.3	30.6	30.9	31.2	31.5	31.8	32.1	32.4	32.7	33.0	33.3	33.6	33.9	34.2	34.5	34.8	35.1	35.4	35.7	36.0	36.3	36.6	36.9	37.2	37.5	37.8	38.1	38.4	38.7	39.0	39.3	39.6	39.9	40.2	40.5	40.8	41.1	41.4	41.7	42.0	42.3	42.6	42.9	43.2	43.5	43.8	44.1	44.4	44.7	45.0	45.3	45.6	45.9	46.2	46.5	46.8	47.1	47.4	47.7	48.0	48.3	48.6	48.9	49.2	49.5	49.8	50.1	50.4	50.7	51.0	51.3	51.6	51.9	52.2	52.5	52.8	53.1	53.4	53.7	54.0	54.3	54.6	54.9	55.2	55.5	55.8	56.1	56.4	56.7	57.0	57.3	57.6	57.9	58.2	58.5	58.8	59.1	59.4	59.7	60.0	60.3	60.6	60.9	61.2	61.5	61.8	62.1	62.4	62.7	63.0	63.3	63.6	63.9	64.2	64.5	64.8	65.1	65.4	65.7	66.0	66.3	66.6	66.9	67.2	67.5	67.8	68.1	68.4	68.7	69.0	69.3	69.6	69.9	70.2	70.5	70.8	71.1	71.4	71.7	72.0	72.3	72.6	72.9	73.2	73.5	73.8	74.1	74.4	74.7	75.0	75.3	75.6	75.9	76.2	76.5	76.8	77.1	77.4	77.7	78.0	78.3	78.6	78.9	79.2	79.5	79.8	80.1	80.4	80.7	81.0	81.3	81.6	81.9	82.2	82.5	82.8	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.4	86.7	87.0	87.3	87.6	87.9	88.2	88.5	88.8	89.1	89.4	89.7	90.0	90.3	90.6	90.9	91.2	91.5	91.8	92.1	92.4	92.7	93.0	93.3	93.6	93.9	94.2	94.5	94.8	95.1	95.4	95.7	96.0	96.3	96.6	96.9	97.2	97.5	97.8	98.1	98.4	98.7	99.0	99.3	99.6	99.9	100.2	100.5	100.8	101.1	101.4	101.7	102.0	102.3	102.6	102.9	103.2	103.5	103.8	104.1	104.4	104.7	105.0	105.3	105.6	105.9	106.2	106.5	106.8	107.1	107.4	107.7	108.0	108.3	108.6	108.9	109.2	109.5	109.8	110.1	110.4	110.7	111.0	111.3	111.6	111.9	112.2	112.5	112.8	113.1	113.4	113.7	114.0	114.3	114.6	114.9	115.2	115.5	115.8	116.1	116.4	116.7	117.0	117.3	117.6	117.9	118.2	118.5	118.8	119.1	119.4	119.7	120.0	120.3	120.6	120.9	121.2	121.5	121.8	122.1	122.4	122.7	123.0	123.3	123.6	123.9	124.2	124.5	124.8	125.1	125.4	125.7	126.0	126.3	126.6	126.9	127.2	127.5	127.8	128.1	128.4	128.7	129.0	129.3	129.6	129.9	130.2	130.5	130.8	131.1	131.4	131.7	132.0	132.3	132.6	132.9	133.2	133.5	133.8	134.1	134.4	134.7	135.0	135.3	135.6	135.9	136.2	136.5	136.8	137.1	137.4	137.7	138.0	138.3	138.6	138.9	139.2	139.5	139.8	140.1	140.4	140.7	141.0	141.3	141.6	141.9	142.2	142.5	142.8	143.1	143.4	143.7	144.0	144.3	144.6	144.9	145.2	145.5	145.8	146.1	146.4	146.7	147.0	147.3	147.6	147.9	148.2	148.5	148.8	149.1	149.4	149.7	150.0	150.3	150.6	150.9	151.2	151.5	151.8	152.1	152.4	152.7	153.0	153.3	153.6	153.9	154.2	154.5	154.8	155.1	155.4	155.7	156.0	156.3	156.6	156.9	157.2	157.5	157.8	158.1	158.4	158.7	159.0	159.3	159.6	159.9	160.2	160.5	160.8	161.1	161.4	161.7	162.0	162.3	162.6	162.9	163.2	163.5	163.8	164.1	164.4	164.7	165.0	165.3	165.6	165.9	166.2	166.5	166.8	167.1	167.4	167.7	168.0	168.3	168.6	168.9	169.2	169.5	169.8	170.1	170.4	170.7	171.0	171.3	171.6	171.9	172.2	172.5	172.8	173.1	173.4	173.7	174.0	174.3	174.6	174.9	175.2	175.5	175.8	176.1	176.4	176.7	177.0	177.3	177.6	177.9	178.2	178.5	178.8	179.1	179.4	179.7	180.0	180.3	180.6	180.9	181.2	181.5	181.8	182.1	182.4	182.7	183.0	183.3	183.6	183.9	184.2	184.5	184.8	185.1	185.4	185.7	186.0	186.3	186.6	186.9	187.2	187.5	187.8	188.1	188.4	188.7	189.0	189.3	189.6	189.9	190.2	190.5	190.8	191.1	191.4	191.7	192.0	192.3	192.6	192.9	193.2	193.5	193.8	194.1	194.4	194.7	195.0	195.3	195.6	195.9	196.2	196.5	196.8	197.1	197.4	197.7	198.0	198.3	198.6	198.9	199.2	199.5	199.8	200.1	200.4	200.7	201.0	201.3	201.6	201.9	202.2	202.5	202.8	203.1	203.4	203.7	204.0	204.3	204.6	204.9	205.2	205.5	205.8	206.1	206.4	206.7	207.0	207.3	207.6	207.9	208.2	208.5	208.8	209.1	209.4	209.7	210.0	210.3	210.6	210.9	211.2	211.5	211.8	212.1	212.4	212.7	213.0	213.3	213.6	213.9	214.2	214.5	214.8	215.1	215.4	215.7	216.0	216.3	216.6	216.9	217.2	217.5	217.8	218.1	218.4	218.7	219.0	219.3	219.6	219.9	220.2	220.5	220.8	221.1	221.4	221.7	222.0	222.3	222.6	222.9	223.2	223.5	223.8	224.1	224.4	224.7	225.0	225.3	225.6	225.9	226.2	226.5	226.8	227.1	227.4	227.7	228.0	228.3	228.6	228.9	229.2	229.5	229.8	230.1	230.4	230.7	231.0	231.3	231.6	231.9	232.2	232.5	232.8	233.1	233.4	233.7	234.0	234.3	234.6	234.9	235.2	235.5	235.8	236.1	236.4	236.7	237.0	237.3	237.6	237.9	238.2	238.5	238.8	239.1	239.4	239.7	240.0	240.3	240.6	240.9	241.2	241.5	241.8	242.1	242.4	242.7	243.0	243.3	243.6	243.9	244.2	244.5	244.8	245.1	245.4	245.7	246.0	246.3	246.6	246.9	247.2	247.5	247.8	248.1	248.4	248.7	249.0	249.3	249.6	249.9	250.2	250.5	250.8	251.1	251.4	251.7	252.0	252.3	252.6	252.9	253.2	253.5	253.8	254.1	254.4	254.7	255.0	255.3	255.6	255.9	256.2	256.5	256.8	257.1	257.4	257.7	258.0	258.3	258.6	258.9	259.2	259.5	259.8	260.1	260.4	260.7	261.0	261.3	261.6	261.9	262.2	262.5	262.8	263.1	263.4	263.7	264.0	264.3	264.6	264.9	265.2	265.5	265.8	266.1	266.4	266.7	267.0	267.3	267.6	267.9	268.2	268.5	268.8	269.1	269.4	269.7	270.0	270.3	270.6	270.9	271.2	271.5	271.8	272.1	272.4	272.7	273.0	273.3	273.6	273.9	274.2	274.5	274.8	275.1	275.4	275.7	276.0	276.3	276.6	276.9	277.2	277.5	277.8	278.1	278.4	278.7	279.0	279.3	279.6	279.9	280.2	280.5	280.8	281.1	281.4	281.7	282.0	282.3	282.6	282.9	283.2	283.5	283.8	284.1	284.4	284.7	285.0	285.3	285.6	285.9	286.2	286.5	286.8	287.1	287.4	287.7	288.0	288.3	288.6	288.9	289.2	289.5	289.8	290.1	290.4	290.7	291.0	291.3	291.6	291.9	292.2	292.5	292.8	293.1	293.4	293.7	294.0	294.3	294.6	294.9	295.2	295.5	295.8	296.1	296.4	296.7	297.0	297.3	297.6	297.9	298.2	298.5	298.8	299.1	299.4	299.7	300.0	300.3	300.6	300.9	301.2	301.5	301.8	302.1	302.4	302.7	303.0	303.3	303.6	303.9	304.2	304.5	304.8	305.1	305.4	305.7	306.0	306.3	306.6	306.9	307.2	307.5	307.8	308.1	308.4	308.7	309.0	309.3	309.6	309.9	310.2	310.5	310.8	311.1	311.4	311.7	312.0	312.3	312.6	312.9	313.2	313.5	313.8	314.1	314.4	314.7	315.0	315.3	315.6	315.9	316.2	316.5	316.8	317.1	317.4	317.7	318.0	318.3	318.6	318.9	319.2	319.5	319.8	320.1	

## 重载荷型

1 代号	2 D	3 L	d	刚度系数 N/mm (kgf/mm)	压紧长度 L <sub>1</sub> (mm)	S=L×16%		S=L×18%		S=L×20%	
						S (mm)	载荷 N (kgf)	S (mm)	载荷 N (kgf)	S (mm)	载荷 N (kgf)
使用次数						100 万次	50 万次	30 万次			
DSJPPG	20	10	20	515 (52.5)	15.2	3.2	3.6	许用范围以外			
				412 (42.0)	19	4	4.5	5			
				343 (35.0)	22.8	4.8	5.4	6			
				294 (30.0)	26.6	5.6	6.3	7			
				257 (26.3)	30.4	6.4	7.2	8			
				229 (23.3)	34.2	7.2	8.1	9			
				206 (21.0)	38	8	9	10			
				187 (19.1)	41.8	8.8	9.9	11			
				172 (17.5)	45.6	9.6	10.8	12			
				158 (16.2)	49.4	10.4	11.7	13			
				147 (15.0)	53.2	11.2	12.6	14			
				137 (14.0)	57	12	13.5	15			
				129 (13.1)	60.8	12.8	14.4	16			
				114 (11.7)	68.4	14.4	16.2	18			
				103 (10.5)	76	16	18	20			
82.4 (8.4)	95	20	22.5	25							
DSJPPG	22	11	20	588 (60.0)	15.2	3.2	3.6	许用范围以外			
				471 (48.0)	19	4	4.5	5			
				392 (40.0)	22.8	4.8	5.4	6			
				336 (34.3)	26.6	5.6	6.3	7			
				294 (30.0)	30.4	6.4	7.2	8			
				262 (26.7)	34.2	7.2	8.1	9			
				235 (24.0)	38	8	9	10			
				214 (21.8)	41.8	8.8	9.9	11			
				196 (20.0)	45.6	9.6	10.8	12			
				181 (18.5)	49.4	10.4	11.7	13			
				168 (17.1)	53.2	11.2	12.6	14			
				157 (16.0)	57	12	13.5	15			
				147 (15.0)	60.8	12.8	14.4	16			
				131 (13.3)	68.4	14.4	16.2	18			
				118 (12.0)	76	16	18	20			
94.1 (9.6)	95	20	22.5	25							
DSJPPG	25	12.5	20	760 (77.5)	15.2	3.2	3.6	许用范围以外			
				608 (62.0)	19	4	4.5	5			
				507 (51.7)	22.8	4.8	5.4	6			
				434 (44.3)	26.6	5.6	6.3	7			
				380 (38.8)	30.4	6.4	7.2	8			
				338 (34.4)	34.2	7.2	8.1	9			
				304 (31.0)	38	8	9	10			
				276 (28.2)	41.8	8.8	9.9	11			
				253 (25.8)	45.6	9.6	10.8	12			
				234 (23.8)	49.4	10.4	11.7	13			
				217 (22.1)	53.2	11.2	12.6	14			
				203 (20.7)	57	12	13.5	15			
				190 (19.4)	60.8	12.8	14.4	16			
				169 (17.2)	68.4	14.4	16.2	18			
				152 (15.5)	76	16	18	20			
121.6 (12.4)	95	20	22.5	25							

1 代号	2 D	3 L	d	刚度系数 N/mm (kgf/mm)	压紧长度 L <sub>1</sub> (mm)	S=L×16%		S=L×18%		S=L×20%	
						S (mm)	载荷 N (kgf)	S (mm)	载荷 N (kgf)	S (mm)	载荷 N (kgf)
使用次数						100 万次	50 万次	30 万次			
DSJPPG	27	13.5	20	907 (92.5)	15.2	3.2	3.6	许用范围以外			
				726 (74.0)	19	4	4.5	5			
				605 (61.7)	22.8	4.8	5.4	6			
				518 (52.9)	26.6	5.6	6.3	7			
				454 (46.3)	30.4	6.4	7.2	8			
				403 (41.1)	34.2	7.2	8.1	9			
				363 (37.0)	38	8	9	10			
				330 (33.6)	41.8	8.8	9.9	11			
				302 (30.8)	45.6	9.6	10.8	12			
				279 (28.5)	49.4	10.4	11.7	13			
				259 (26.4)	53.2	11.2	12.6	14			
				242 (24.7)	57	12	13.5	15			
				227 (23.1)	60.8	12.8	14.4	16			
				202 (20.6)	68.4	14.4	16.2	18			
				181 (18.5)	76	16	18	20			
145 (14.8)	95	20	22.5	25							
121 (12.3)	114	24	27	30							
DSJPPG	30	15	20	1177 (120.0)	15.2	3.2	3.6	许用范围以外			
				941 (96.0)	19	4	4.5	5			
				785 (80.0)	22.8	4.8	5.4	6			
				672 (68.6)	26.6	5.6	6.3	7			
				588 (60.0)	30.4	6.4	7.2	8			
				523 (53.3)	34.2	7.2	8.1	9			
				471 (48.0)	38	8	9	10			
				428 (43.6)	41.8	8.8	9.9	11			
				392 (40.0)	45.6	9.6	10.8	12			
				362 (36.9)	49.4	10.4	11.7	13			
				336 (34.3)	53.2	11.2	12.6	14			
				314 (32.0)	57	12	13.5	15			
				294 (30.0)	60.8	12.8	14.4	16			
				262 (26.7)	68.4	14.4	16.2	18			
				235 (24.0)	76	16	18	20			
188 (19.2)	95	20	22.5	25							
157 (16.0)	114	24	27	30							
134 (13.7)	133	28	31.5	35							
118 (12.0)	152	32	36	40							
DSJPPG	35	17.5	20	1030 (105.0)	22.8	4.8	5.4	许用范围以外			
				883 (90.0)	26.6	5.6	6.3	7			
				772 (78.8)	30.4	6.4	7.2	8			
				686 (70.0)	34.2	7.2	8.1	9			
				618 (63.0)	38	8	9	10			
				562 (57.3)	41.8	8.8	9.9	11			
				515 (52.5)	45.6	9.6	10.8	12			
				475 (48.5)	49.4	10.4	11.7	13			
				441 (45.0)	53.2	11.2	12.6	14			
				412 (42.0)	57	12	13.5	15			
				386 (39.4)	60.8	12.8	14.4	16			
				343 (35.0)	68.4	14.4	16.2	18			
				309 (31.5)	76	16	18	20			
				247 (25.2)	95	20	22.5	25			
				206 (21.0)	114	24	27	30			
177 (18.0)	133	28	31.5	35							
154 (15.8)	152	32	36	40							

弹簧

## 重载荷型

1 代号	2 D	3 L	d	刚度系数 N/mm (kgf/mm)	压紧长度 L1 (mm)	S=L×16%		S=L×18%		S=L×20%	
						S (mm)	载荷 N (kgf)	S (mm)	载荷 N (kgf)	S (mm)	载荷 N (kgf)
						使用次数			100 万次	50 万次	30 万次
DSJPPG	40	20	35	1149(117.1)	26.6	5.6	6.3	7			
			40	1005(102.5)	30.4	6.4	7.2	8			
			45	893(91.1)	34.2	7.2	8.1	9			
			50	804(82.0)	38	8	9	10			
			55	731(74.5)	41.8	8.8	9.9	11			
			60	670(68.3)	45.6	9.6	10.8	12			
			65	619(63.1)	49.4	10.4	11.7	13			
			70	574(58.6)	53.2	11.2	12.6	14			
			75	536(54.7)	57	12	13.5	15			
			80	503(51.3)	60.8	12.8	14.4	16			
			90	447(45.6)	68.4	14.4	16.2	18			
			100	402(41.0)	76	16	18	20			
			125	322(32.8)	95	20	22.5	25			
			150	268(27.3)	114	24	27	30			
			175	230(23.4)	133	28	31.5	35			
			200	201(20.5)	152	32	36	40			
			50	25	50	1226(125.0)	39	8	9	10	
					55	1114(113.6)	43	8.8	9.9	11	
					60	1022(104.2)	47	9.6	10.8	12	
					65	943(96.2)	51	10.4	11.7	13	
70	876(89.3)	54			11.2	12.6	14				
75	817(83.3)	58			12	13.5	15				
80	766(78.1)	61			12.8	14.4	16				
90	681(69.4)	66			14.4	16.2	18				
100	613(62.5)	74			16	18	20				
125	490(50.0)	89			20	22.5	25				
150	409(41.7)	105			24	27	30				
175	350(35.7)	133			28	31.5	35				
200	306(31.3)	152	32	36	40						

▲ 标有“许用范围以外”型号的最大压缩量为 18%。请勿超过 18% 的压缩量使用。

### ■ 载荷的计算方法

载荷 = 刚度系数 × 压缩量

(国际单位)  $N = N/mm \times Smm$

(kgf)  $kgf = kgf/mm \times Smm$

(kgf)  $kgf = N \times 0.101972$

▲ 压紧长度为参考值，且因生产批次不同会稍有偏差。

特长 与 DSJPH 相同压缩量的条件下，载荷约为其 1.1~1.3 倍。节省模具空间，并可削减弹簧的使用个数。

特长 DSJPPG 进行了电沉积涂装，耐腐蚀性优于一般涂装。并且比一般涂装更难剥离。

代号	类型	材质
DSJPPG	重载荷型	SWOSC-V 相当