

SM



使用回数	100万回	50万回	30万回	外径	外径(φ70)	内径	自由長	荷重	直角度
種類				+0	+0	+0.1	自由長50mm以下±0.5mm	±10%	2度以下
SM	自由長×25.6%	自由長×28.8%	自由長×32%	-0.7	-1.0	+0.7	自由長55mm以上±1%		

密着長は参考値です、ロットによって多少のバラツキがあります。

品番 Catalog No. 番号	外径 Outer-Dia 外径 (mm)	内径 Inner-Dia 内径 (mm)	自由長 Free Length 自由長 (mm)	ばね定数 Spring Constant 弾簧定数 (N/mm) (kgf/mm)		密着長 Min.Length 貼緊長 (mm)	100万回		50万回		30万回	
							たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf){N}	たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf){N}	たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf){N}
SM6-15	6	3	15	20.4	2.08	9.8	3.8	8 {79}	4.3	9 {88}	4.8	10 {98}
20			20	15.3	1.56	13.1	5.1		5.8		6.4	
25			25	12.3	1.25	16.4	6.4		7.2		8.0	
30			30	10.2	1.04	19.6	7.7		8.6		9.6	
35			35	8.8	0.89	22.9	9.0		10.1		11.2	
40			40	7.7	0.78	26.2	10.2		11.5		12.8	
45			45	6.8	0.69	29.4	11.5		13.0		14.4	
50			50	6.1	0.63	32.7	12.8		14.4		16.0	
55			55	5.6	0.57	36.0	14.1		15.8		17.6	
60			60	5.1	0.52	39.2	15.4		17.3		19.2	
SM8-10	8	4	10	42.9	4.37	6.6	2.6	11 {110}	2.9	13 {123}	3.2	14 {137}
15			15	28.6	2.91	9.4	3.8		4.3		4.8	
20			20	21.5	2.18	12.5	5.1		5.8		6.4	
25			25	17.2	1.75	15.7	6.4		7.2		8.0	
30			30	14.3	1.46	18.8	7.7		8.6		9.6	
35			35	12.2	1.25	21.9	9.0		10.1		11.2	
40			40	10.7	1.09	25.0	10.2		11.5		12.8	
45			45	9.5	0.97	28.2	11.5		13.0		14.4	
50			50	8.6	0.87	31.3	12.8		14.4		16.0	
55			55	7.8	0.79	34.4	14.1		15.8		17.6	
60			60	7.1	0.73	37.6	15.4		17.3		19.2	
65			65	6.6	0.67	42.5	16.6		18.7		20.8	
70			70	6.1	0.62	45.8	17.9		20.2		22.4	
75			75	5.7	0.58	49.1	19.2		21.6		24.0	
80			80	5.4	0.55	52.3	20.5		23.0		25.6	
SM10-10	10	5	10	61.3	6.25	6.6	2.6	16 {157}	2.9	18 {176}	3.2	20 {196}
15			15	40.9	4.17	9.8	3.8		4.3		4.8	
20			20	30.6	3.13	12.5	5.1		5.8		6.4	
25			25	24.5	2.50	15.7	6.4		7.2		8.0	
30			30	20.4	2.08	18.8	7.7		8.6		9.6	
35			35	17.5	1.79	21.9	9.0		10.1		11.2	
40			40	15.3	1.56	25.0	10.2		11.5		12.8	
45			45	13.6	1.39	28.2	11.5		13.0		14.4	
50			50	12.3	1.25	31.3	12.8		14.4		16.0	
55			55	11.1	1.14	34.4	14.1		15.8		17.6	
60			60	10.2	1.04	37.6	15.4		17.3		19.2	
65			65	9.4	0.96	40.7	16.6		18.7		20.8	
70			70	8.8	0.89	43.8	17.9		20.2		22.4	
75			75	8.2	0.83	47.0	19.2		21.6		24.0	
80			80	7.7	0.78	50.1	20.5		23.0		25.6	
90			90	6.8	0.69	56.3	23.0		25.9		28.8	

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							たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf)(N)	たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf)(N)	たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf)(N)
SM12-15	12	6	15	59.2	6.04	9.8	3.8	23 {227}	4.3	26 {256}	4.8	29 {284}
20			20	44.4	4.53	12.5	5.1		5.8		6.4	
25			25	35.5	3.63	15.7	6.4		7.2		8.0	
30			30	29.6	3.02	18.8	7.7		8.6		9.6	
35			35	25.4	2.59	21.9	9.0		10.1		11.2	
40			40	22.2	2.27	25.0	10.2		11.5		12.8	
45			45	19.7	2.01	28.2	11.5		13.0		14.4	
50			50	17.8	1.81	31.3	12.8		14.4		16.0	
55			55	16.2	1.65	34.4	14.1		15.8		17.6	
60			60	14.8	1.51	37.6	15.4		17.3		19.2	
65			65	13.7	1.39	40.7	16.6		18.7		20.8	
70			70	12.7	1.29	43.8	17.9		20.2		22.4	
75			75	11.8	1.21	47.0	19.2		21.6		24.0	
80			80	11.1	1.13	50.1	20.5		23.0		25.6	
90			90	9.9	1.01	56.3	23.0		25.9		28.8	
SM14-20	14	7	20	59.8	6.09	13.1	5.1	31 {306}	5.8	35 {345}	6.4	39 {383}
25			25	47.9	4.88	15.7	6.4		7.2		8.0	
30			30	39.9	4.08	18.8	7.7		8.6		9.6	
35			35	34.2	3.48	21.9	9.0		10.1		11.2	
40			40	29.9	3.05	25.0	10.2		11.5		12.8	
45			45	26.6	2.71	28.2	11.5		13.0		14.4	
50			50	23.9	2.44	31.3	12.8		14.4		16.0	
55			55	21.8	2.22	34.4	14.1		15.8		17.6	
60			60	19.9	2.03	37.6	15.4		17.3		19.2	
65			65	18.4	1.88	40.7	16.6		18.7		20.8	
70			70	17.1	1.74	43.8	17.9		20.2		22.4	
75			75	16.0	1.63	47.0	19.2		21.6		24.0	
80			80	15.0	1.52	50.1	20.5		23.0		25.6	
90			90	13.3	1.35	56.3	23.0		25.9		28.8	
100			100	12.0	1.22	62.6	25.6		28.8		32.0	
SM16-20	16	8	20	78.1	7.97	13.1	5.1	41 {400}	5.8	46 {450}	6.4	51 {500}
25			25	62.5	6.38	15.7	6.4		7.2		8.0	
30			30	52.1	5.31	18.8	7.7		8.6		9.6	
35			35	44.7	4.55	21.9	9.0		10.1		11.2	
40			40	39.1	3.98	25.0	10.2		11.5		12.8	
45			45	34.7	3.54	28.2	11.5		13.0		14.4	
50			50	31.3	3.19	31.3	12.8		14.4		16.0	
55			55	28.4	2.90	34.4	14.1		15.8		17.6	
60			60	26.0	2.66	37.6	15.4		17.3		19.2	
65			65	24.0	2.45	40.7	16.6		18.7		20.8	
70			70	22.3	2.28	43.8	17.9		20.2		22.4	
75			75	20.8	2.13	47.0	19.2		21.6		24.0	
80			80	19.5	1.99	50.1	20.5		23.0		25.6	
90			90	17.4	1.77	56.3	23.0		25.9		28.8	
100			100	15.6	1.59	62.6	25.6		28.8		32.0	
SM18-20	18	9	20	99.6	10.20	13.1	5.1	52 {510}	5.8	59 {574}	6.4	65 {637}
25			25	79.7	8.13	15.7	6.4		7.2		8.0	
30			30	66.4	6.77	18.8	7.7		8.6		9.6	
35			35	56.9	5.80	21.9	9.0		10.1		11.2	
40			40	49.8	5.08	25.0	10.2		11.5		12.8	
45			45	44.3	4.51	28.2	11.5		13.0		14.4	
50			50	39.8	4.06	31.3	12.8		14.4		16.0	
55			55	36.2	3.69	34.4	14.1		15.8		17.6	
60			60	33.2	3.39	37.6	15.4		17.3		19.2	
65			65	30.6	3.13	40.7	16.6		18.7		20.8	
70			70	28.5	2.90	43.8	17.9		20.2		22.4	
75			75	26.6	2.71	47.0	19.2		21.6		24.0	
80			80	24.9	2.54	50.1	20.5		23.0		25.6	
90			90	22.1	2.26	56.3	23.0		25.9		28.8	
100			100	19.9	2.03	62.6	25.6		28.8		32.0	

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							たわみ Deflection 弯曲 (mm)	荷重 Load 负荷 (kgf)(N)	たわみ Deflection 弯曲 (mm)	荷重 Load 负荷 (kgf)(N)	たわみ Deflection 弯曲 (mm)	荷重 Load 负荷 (kgf)(N)
SM20-20	20	10	20	123.0	12.50	13.1	5.1	64 {628}	5.8	72 {706}	6.4	80 {784}
25			25	98.0	10.00	15.7	6.4		7.2		8.0	
30			30	81.7	8.33	18.8	7.7		8.6		9.6	
35			35	70.0	7.14	21.9	9.0		10.1		11.2	
40			40	61.3	6.25	25.0	10.2		11.5		12.8	
45			45	54.4	5.55	28.2	11.5		13.0		14.4	
50			50	49.0	5.00	31.3	12.8		14.4		16.0	
55			55	44.5	4.55	34.4	14.1		15.8		17.6	
60			60	40.8	4.17	37.6	15.4		17.3		19.2	
65			65	37.7	3.85	40.7	16.6		18.7		20.8	
70			70	35.0	3.57	43.8	17.9		20.2		22.4	
75			75	32.7	3.33	47.0	19.2		21.6		24.0	
80			80	30.6	3.13	50.1	20.5		23.0		25.6	
90			90	27.2	2.78	56.3	23.0		25.9		28.8	
100			100	24.5	2.50	62.6	25.6		28.8		32.0	
125			125	19.6	2.00	78.3	32.0		36.0		40.0	
150			150	16.3	1.67	93.9	38.4		43.2		48.0	
SM22-25	22	11	25	119.0	12.10	15.7	6.4	78 {761}	7.2	87 {856}	8.0	97 {951}
30			30	99.1	10.10	18.8	7.7		8.6		9.6	
35			35	84.9	8.66	21.9	9.0		10.1		11.2	
40			40	74.3	7.58	25.0	10.2		11.5		12.8	
45			45	66.1	6.74	28.2	11.5		13.0		14.4	
50			50	59.5	6.06	31.3	12.8		14.4		16.0	
55			55	54.0	5.51	34.4	14.1		15.8		17.6	
60			60	49.5	5.05	37.6	15.4		17.3		19.2	
65			65	45.7	4.66	40.7	16.6		18.7		20.8	
70			70	42.5	4.33	43.8	17.9		20.2		22.4	
75			75	39.6	4.04	47.0	19.2		21.6		24.0	
80			80	37.2	3.79	50.1	20.5		23.0		25.6	
90			90	33.0	3.37	56.3	23.0		25.9		28.8	
100			100	29.7	3.03	62.6	25.6		28.8		32.0	
125			125	23.8	2.43	78.3	32.0		36.0		40.0	
150			150	19.8	2.02	93.9	38.4		43.2		48.0	
SM25-25	25	12.5	25	153.0	15.60	15.7	6.4	100 {981}	7.2	113 {1103}	8.0	125 {1225}
30			30	128.0	13.00	18.8	7.7		8.6		9.6	
35			35	109.0	11.20	21.9	9.0		10.1		11.2	
40			40	95.7	9.77	25.0	10.2		11.5		12.8	
45			45	85.1	8.68	28.2	11.5		13.0		14.4	
50			50	76.6	7.81	31.3	12.8		14.4		16.0	
55			55	69.6	7.10	34.4	14.1		15.8		17.6	
60			60	63.8	6.51	37.6	15.4		17.3		19.2	
65			65	58.9	6.01	40.7	16.6		18.7		20.8	
70			70	54.7	5.58	43.8	17.9		20.2		22.4	
75			75	51.0	5.21	47.0	19.2		21.6		24.0	
80			80	47.9	4.88	50.1	20.5		23.0		25.6	
90			90	42.5	4.34	56.3	23.0		25.9		28.8	
100			100	38.3	3.91	62.6	25.6		28.8		32.0	
125			125	30.6	3.13	78.3	32.0		36.0		40.0	
150			150	25.5	2.60	93.9	38.4		43.2		48.0	
175			175	21.9	2.23	109.6	44.8		50.4		56.0	

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SM27-25	27	13.5	25	179.0	18.30	15.7	6.4	117 {1145}	7.2	131 {1288}	8.0	146 {1431}
30			30	149.0	15.20	18.8	7.7		8.6		9.6	
35			35	128.0	13.00	21.9	9.0		10.1		11.2	
40			40	112.0	11.40	25.0	10.2		11.5		12.8	
45			45	99.4	10.10	28.2	11.5		13.0		14.4	
50			50	89.4	9.13	31.3	12.8		14.4		16.0	
55			55	81.3	8.30	34.4	14.1		15.8		17.6	
60			60	74.5	7.60	37.6	15.4		17.3		19.2	
65			65	68.8	7.02	40.7	16.6		18.7		20.8	
70			70	63.9	6.52	43.8	17.9		20.2		22.4	
75			75	59.6	6.08	47.0	19.2		21.6		24.0	
80			80	55.9	5.70	50.1	20.5		23.0		25.6	
90			90	49.7	5.07	56.3	23.0		25.9		28.8	
100			100	44.7	4.56	62.6	25.6		28.8		32.0	
125			125	35.8	3.65	78.3	32.0		36.0		40.0	
150			150	29.8	3.04	93.9	38.4		43.2		48.0	
175			175	25.6	2.61	109.6	44.8		50.4		56.0	
SM30-25	30	15	25	221.0	22.50	15.7	6.4	144 {1412}	7.2	162 {1589}	8.0	180 {1765}
30			30	184.0	18.80	18.8	7.7		8.6		9.6	
35			35	158.0	16.10	21.9	9.0		10.1		11.2	
40			40	138.0	14.10	25.0	10.2		11.5		12.8	
45			45	123.0	12.50	28.2	11.5		13.0		14.4	
50			50	110.0	11.30	31.3	12.8		14.4		16.0	
55			55	100.0	10.20	34.4	14.1		15.8		17.6	
60			60	91.9	9.38	37.6	15.4		17.3		19.2	
65			65	84.9	8.65	40.7	16.6		18.7		20.8	
70			70	78.8	8.04	43.8	17.9		20.2		22.4	
75			75	73.5	7.50	47.0	19.2		21.6		24.0	
80			80	69.0	7.03	50.1	20.5		23.0		25.6	
90			90	61.3	6.25	56.3	23.0		25.9		28.8	
100			100	55.2	5.63	62.6	25.6		28.8		32.0	
125			125	44.1	4.50	78.3	32.0		36.0		40.0	
150			150	36.8	3.75	93.9	38.4		43.2		48.0	
175			175	31.5	3.21	109.6	44.8		50.4		56.0	
200			200	27.6	2.81	125.2	51.2		57.6		64.0	
SM35-40	35	17.5	40	188.0	19.10	25.0	10.2	196 {1921}	11.5	220 {2161}	12.8	245 {2401}
45			45	167.0	17.00	28.2	11.5		13.0		14.4	
50			50	150.0	15.30	31.3	12.8		14.4		16.0	
55			55	136.0	13.90	34.4	14.1		15.8		17.6	
60			60	125.0	12.80	37.6	15.4		17.3		19.2	
65			65	115.0	11.80	40.7	16.6		18.7		20.8	
70			70	107.0	10.90	43.8	17.9		20.2		22.4	
75			75	100.0	10.20	47.0	19.2		21.6		24.0	
80			80	93.8	9.57	50.1	20.5		23.0		25.6	
90			90	83.4	8.51	56.3	23.0		25.9		28.8	
100			100	75.0	7.66	62.6	25.6		28.8		32.0	
125			125	60.0	6.13	78.3	32.0		36.0		40.0	
150			150	50.0	5.10	93.9	38.4		43.2		48.0	
175			175	42.9	4.38	109.6	44.8		50.4		56.0	
200			200	37.5	3.83	125.5	51.2		57.6		64.0	

品番 Catalog No. 编号	外径 Outer-Dia 外径 (mm)	内径 Inner-Dia 内径 (mm)	自由長 Free Length 自由長 (mm)	ばね定数 Spring Constant 弾簧定数 (N/mm) (kgf/mm)		密着長 Min.Length 貼着長 (mm)	100万回		50万回		30万回	
							たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf)(N)	たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf)(N)	たわみ Deflection 弯曲 (mm)	荷重 Load 負荷 (kgf)(N)
SM40-40	40	20	40	245.0	25.00	25.0	10.2	256 {2510}	11.5	288 {2824}	12.8	320 {3138}
45			45	218.0	22.20	29.4	11.5		13.0		14.4	
50			50	196.0	20.00	31.3	12.8		14.4		16.0	
55			55	178.0	18.20	36.0	14.1		15.8		17.6	
60			60	163.0	16.70	37.6	15.4		17.3		19.2	
65			65	151.0	15.40	42.5	16.6		18.7		20.8	
70			70	140.0	14.30	43.8	17.9		20.2		22.4	
75			75	131.0	13.30	49.1	19.2		21.6		24.0	
80			80	123.0	12.50	50.1	20.5		23.0		25.6	
90			90	109.0	11.10	56.3	23.0		25.9		28.8	
100			100	98.1	10.00	62.6	25.6		28.8		32.0	
125			125	78.5	8.00	78.3	32.0		36.0		40.0	
150			150	65.4	6.67	93.9	38.4		43.2		48.0	
175			175	56.0	5.71	109.6	44.8		50.4		56.0	
200			200	49.0	5.00	125.5	51.2		57.6		64.0	
225			225	43.6	4.44	141.0	57.6		64.8		72.0	
250			250	39.2	4.00	156.5	64.0		72.0		80.0	
275			275	35.7	3.64	172.0	70.4		79.2		88.0	
300			300	32.7	3.33	196.2	76.8		86.4		96.0	
SM50-50	50	25	50	306.0	31.20	31.3	12.8	400 {3920}	14.4	450 {4410}	16.0	500 {4900}
55			55	278.0	28.40	34.4	14.1		15.8		17.6	
60			60	255.0	26.00	37.6	15.4		17.3		19.2	
65			65	236.0	24.00	40.7	16.6		18.7		20.8	
70			70	219.0	22.30	43.8	17.9		20.2		22.4	
75			75	204.0	20.80	47.0	19.2		21.6		24.0	
80			80	191.0	19.50	50.1	20.5		23.0		25.6	
90			90	170.0	17.30	56.3	23.0		25.9		28.8	
100			100	153.0	15.60	62.6	25.6		28.8		32.0	
125			125	123.0	12.50	78.3	32.0		36.0		40.0	
150			150	102.0	10.40	93.9	38.4		43.2		48.0	
175			175	87.5	8.92	109.6	44.8		50.4		56.0	
200			200	76.6	7.81	125.2	51.2		57.6		64.0	
225			225	68.1	6.95	141.0	57.6		64.8		72.0	
250			250	61.3	6.25	156.5	64.0		72.0		80.0	
275			275	55.7	5.68	172.0	70.4		79.2		88.0	
300			300	51.0	5.20	187.8	76.8		86.4		96.0	
350			350	43.8	4.46	228.9	89.6		100.8		112.0	
SM60-60	60	30	60	368.0	37.50	37.6	15.4	576 {5645}	17.3	648 {6350}	19.2	720 {7056}
70			70	315.0	32.10	43.8	17.9		20.2		22.4	
80			80	276.0	28.10	50.1	20.5		23.0		25.6	
90			90	245.0	25.00	56.3	23.0		25.9		28.8	
100			100	221.0	22.50	62.6	25.6		28.8		32.0	
125			125	176.0	18.00	78.3	32.0		36.0		40.0	
150			150	147.0	15.00	93.9	38.4		43.2		48.0	
175			175	126.0	12.80	109.6	44.8		50.4		56.0	
200			200	110.0	11.20	125.2	51.2		57.6		64.0	
225			225	98.0	10.00	141.0	57.6		64.8		72.0	
250			250	88.2	8.99	156.5	64.0		72.0		80.0	
275			275	80.2	8.18	172.0	70.4		79.2		88.0	
300			300	73.5	7.49	187.8	76.8		86.4		96.0	
350			350	63.0	6.42	228.9	89.6		100.8		112.0	
SM70-70	70	38.5	70	372.0	37.90	45.8	17.9	680 {6664}	20.2	764 {7497}	22.4	850 {8330}
80			80	325.0	33.20	52.3	20.5		23.0		25.6	
90			90	289.0	29.50	58.9	23.0		25.9		28.8	
100			100	260.0	26.50	65.4	25.6		28.8		32.0	
125			125	208.0	21.20	81.8	32.0		36.0		40.0	
150			150	174.0	17.70	98.1	38.4		43.2		48.0	
175			175	149.0	15.20	114.5	44.8		50.4		56.0	
200			200	130.0	13.30	130.8	51.2		57.6		64.0	
250			250	104.0	10.60	163.5	64.0		72.0		80.0	
300			300	86.8	8.85	196.2	76.8		86.4		96.0	
350			350	74.4	7.58	228.9	89.6		100.8		112.0	