

SB



種類	使用回数			外径	外径(φ70)	内径	自由長	荷重	直角度
	100万回	50万回	30万回						
SB	自由長×16%	自由長×18%	自由長×20%	+0	+0	+0.1	自由長50mm以下±0.5mm 自由長55mm以上±1%	±10%	2度以下

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. 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 弹簧定数 (N/mm) (kgf/mm)		密着長 Min.Length 貼紧長 (mm)	100万回		50万回		30万回	
							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]
SB6-15	6	3	15	59.0	6.0	11.6	2.4	14 {142}	2.7	16 {159}	3.0	18 {177}
20			20	44.3	4.5	15.5	3.2		3.6			
25			25	35.4	3.6	19.4	4.0		4.5			
30			30	29.5	3.0	23.2	4.8		5.4			
35			35	25.3	2.6	27.1	5.6		6.3			
40			40	22.1	2.3	31.0	6.4		7.2			
45			45	19.7	2.0	34.8	7.2		8.1			
50			50	17.7	1.8	38.7	8.0		9.0			
55			55	16.1	1.6	42.6	8.8		9.9			
60			60	14.8	1.5	46.4	9.6		10.8			
SB8-10			8	4	10	162.0	16.5		7.7		1.6	
15	15	108.0			11.0	11.6	2.4	2.7				
20	20	80.8			8.2	15.9	3.2	3.6				
25	25	64.6			6.6	19.4	4.0	4.5				
30	30	53.8			5.5	23.2	4.8	5.4				
35	35	46.1			4.7	27.1	5.6	6.3				
40	40	40.4			4.1	31.0	6.4	7.2				
45	45	35.9			3.7	34.8	7.2	8.1				
50	50	32.3			3.3	38.7	8.0	9.0				
55	55	29.4			3.0	42.6	8.8	9.9				
60	60	26.9			2.7	46.4	9.6	10.8				
65	65	24.8			2.5	50.3	10.4	11.7				
70	70	23.1			2.4	54.2	11.2	12.6				
75	75	21.5			2.2	58.1	12.0	13.5				
80	80	20.2			2.1	61.9	12.8	14.4				
SB10-10	10	5			10	221.0	22.5	7.7	1.6	36 {353}	1.8	41 {397}
15			15	147.0	15.0	11.6	2.4	2.7				
20			20	110.0	11.2	15.5	3.2	3.6				
25			25	88.2	9.0	19.4	4.0	4.5				
30			30	73.5	7.5	23.2	4.8	5.4				
35			35	63.0	6.4	27.1	5.6	6.3				
40			40	55.1	5.6	31.0	6.4	7.2				
45			45	49.0	5.0	34.8	7.2	8.1				
50			50	44.1	4.5	38.7	8.0	9.0				
55			55	40.1	4.1	42.6	8.8	9.9				
60			60	36.8	3.7	46.4	9.6	10.8				
65			65	33.9	3.5	50.3	10.4	11.7				
70			70	31.5	3.2	54.2	11.2	12.6				
75			75	29.4	3.0	58.1	12.0	13.5				
80			80	27.6	2.8	61.9	12.8	14.4				
90			90	24.5	2.5	69.7	14.4	16.2				

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 自由长 (mm)	ばね定数 Spring Constant 弹簧定数 (N/mm) (kgf/mm)		密着長 Min.Length 贴紧长 (mm)	100万回		50万回		30万回	
				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}		
SB12-15	12	6	15	190.0	19.3	11.6	2.4	46 {455}	52 {512}	58 {569}	2.7	3.0
20			142.0	14.5	15.5	3.2	3.6				4.0	
25			114.0	11.6	19.4	4.0	4.5				5.0	
30			94.8	9.7	23.2	4.8	5.4				6.0	
35			81.3	8.3	27.1	5.6	6.3				7.0	
40			71.1	7.3	31.0	6.4	7.2				8.0	
45			63.2	6.4	34.8	7.2	8.1				9.0	
50			56.9	5.8	38.7	8.0	9.0				10.0	
55			51.7	5.3	42.6	8.8	9.9				11.0	
60			47.4	4.8	46.4	9.6	10.8				12.0	
65			43.8	4.5	50.3	10.4	11.7				13.0	
70			40.6	4.1	54.2	11.2	12.6				14.0	
75			37.9	3.9	58.1	12.0	13.5				15.0	
80			35.6	3.6	61.9	12.8	14.4				16.0	
90			31.6	3.2	69.7	14.4	16.2				18.0	
SB14-20	14	7	20	184.0	18.8	15.5	3.2	60 {589}	68 {662}	75 {736}	3.6	4.0
25			147.0	15.0	19.4	4.0	4.5				5.0	
30			123.0	12.5	23.2	4.8	5.4				6.0	
35			105.0	10.7	27.1	5.6	6.3				7.0	
40			92.0	9.4	31.0	6.4	7.2				8.0	
45			81.8	8.3	34.8	7.2	8.1				9.0	
50			73.6	7.5	38.7	8.0	9.0				10.0	
55			66.9	6.8	42.6	8.8	9.9				11.0	
60			61.3	6.3	46.4	9.6	10.8				12.0	
65			56.6	5.8	50.3	10.4	11.7				13.0	
70			52.6	5.4	54.2	11.2	12.6				14.0	
75			49.1	5.0	58.1	12.0	13.5				15.0	
80			46.0	4.7	61.9	12.8	14.4				16.0	
90			40.9	4.2	69.7	14.4	16.2				18.0	
100			36.8	3.8	77.4	16.0	18.0				20.0	
SB16-20	16	8	20	245.0	25.0	15.5	3.2	80 {784}	90 {882}	100 {980}	3.6	4.0
25			196.0	20.0	19.4	4.0	4.5				5.0	
30			163.0	16.7	23.2	4.8	5.4				6.0	
35			140.0	14.3	27.1	5.6	6.3				7.0	
40			123.0	12.5	31.0	6.4	7.2				8.0	
45			109.0	11.1	34.8	7.2	8.1				9.0	
50			98.0	10.0	38.7	8.0	9.0				10.0	
55			89.1	9.1	42.6	8.8	9.9				11.0	
60			81.7	8.3	46.4	9.6	10.8				12.0	
65			75.4	7.7	50.3	10.4	11.7				13.0	
70			70.0	7.1	54.2	11.2	12.6				14.0	
75			65.3	6.7	58.1	12.0	13.5				15.0	
80			61.3	6.3	61.9	12.8	14.4				16.0	
90			54.4	5.6	69.7	14.4	16.2				18.0	
100			49.0	5.0	77.4	16.0	18.0				20.0	
SB18-20	18	9	20	306.0	31.2	15.5	3.2	100 {980}	113 {1103}	125 {1225}	3.6	4.0
25			245.0	25.0	19.4	4.0	4.5				5.0	
30			204.0	20.8	23.2	4.8	5.4				6.0	
35			175.0	17.8	27.1	5.6	6.3				7.0	
40			153.0	15.6	31.0	6.4	7.2				8.0	
45			136.0	13.9	34.8	7.2	8.1				9.0	
50			123.0	12.5	38.7	8.0	9.0				10.0	
55			111.0	11.4	42.6	8.8	9.9				11.0	
60			102.0	10.4	46.4	9.6	10.8				12.0	
65			94.2	9.6	50.3	10.4	11.7				13.0	
70			87.5	8.9	54.2	11.2	12.6				14.0	
75			81.7	8.3	58.1	12.0	13.5				15.0	
80			76.6	7.8	61.9	12.8	14.4				16.0	
90			68.1	6.9	69.7	14.4	16.2				18.0	
100			61.3	6.2	77.4	16.0	18.0				20.0	

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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]		
SB20-20	20	10	20	392.0	40.0	15.5	3.2	128 {1254}	3.6	144 {1411}	4.0	160 {1568}
25			25	314.0	32.0	19.4	4.0		4.5		5.0	
30			30	261.0	26.6	23.2	4.8		5.4		6.0	
35			35	224.0	22.8	27.1	5.6		6.3		7.0	
40			40	196.0	20.0	31.0	6.4		7.2		8.0	
45			45	174.0	17.8	34.8	7.2		8.1		9.0	
50			50	157.0	16.0	38.7	8.0		9.0		10.0	
55			55	143.0	14.5	42.6	8.8		9.9		11.0	
60			60	131.0	13.3	46.4	9.6		10.8		12.0	
65			65	121.0	12.3	50.3	10.4		11.7		13.0	
70			70	112.0	11.4	54.2	11.2		12.6		14.0	
75			75	105.0	10.7	58.1	12.0		13.5		15.0	
80			80	98.0	10.0	61.9	12.8		14.4		16.0	
90			90	87.1	8.9	69.7	14.4		16.2		18.0	
100			100	78.4	8.0	77.4	16.0		18.0		20.0	
125			125	62.7	6.4	96.8	20.0		22.5		25.0	
150	150	52.3	5.3	116.1	24.0	27.0	30.0					
SB22-25	22	11	25	382.0	39.0	19.4	4.0	156 {1530}	4.5	175 {1721}	5.0	195 {1912}
30			30	319.0	32.5	23.2	4.8		5.4		6.0	
35			35	273.0	27.9	27.1	5.6		6.3		7.0	
40			40	239.0	24.4	31.0	6.4		7.2		8.0	
45			45	212.0	21.7	34.8	7.2		8.1		9.0	
50			50	191.0	19.5	38.7	8.0		9.0		10.0	
55			55	174.0	17.7	42.6	8.8		9.9		11.0	
60			60	159.0	16.2	46.4	9.6		10.8		12.0	
65			65	147.0	15.0	50.3	10.4		11.7		13.0	
70			70	137.0	13.9	54.2	11.2		12.6		14.0	
75			75	127.0	13.0	58.1	12.0		13.5		15.0	
80			80	120.0	12.2	61.9	12.8		14.4		16.0	
90			90	106.0	10.8	69.7	14.4		16.2		18.0	
100			100	95.6	9.8	77.4	16.0		18.0		20.0	
125			125	76.5	7.8	96.8	20.0		22.5		25.0	
150			150	63.7	6.5	116.1	24.0		27.0		30.0	
SB25-25	25	12.5	25	481.0	49.0	19.0	4.0	196 {1922}	4.5	220 {2162}	5.0	245 {2403}
30			30	400.0	40.8	22.8	4.8		5.4		6.0	
35			35	343.0	35.0	26.6	5.6		6.3		7.0	
40			40	300.0	30.6	30.4	6.4		7.2		8.0	
45			45	267.0	27.2	34.2	7.2		8.1		9.0	
50			50	240.0	24.5	38.0	8.0		9.0		10.0	
55			55	218.0	22.3	41.8	8.8		9.9		11.0	
60			60	200.0	20.4	45.6	9.6		10.8		12.0	
65			65	185.0	18.8	49.4	10.4		11.7		13.0	
70			70	172.0	17.5	53.2	11.2		12.6		14.0	
75			75	160.0	16.3	57.0	12.0		13.5		15.0	
80			80	150.0	15.3	60.8	12.8		14.4		16.0	
90			90	133.0	13.6	68.4	14.4		16.2		18.0	
100			100	120.0	12.2	76.0	16.0		18.0		20.0	
125			125	96.1	9.8	95.0	20.0		22.5		25.0	
150			150	80.1	8.2	114.0	24.0		27.0		30.0	
175	175	68.6	7.0	133.0	28.0	31.5	35.0					

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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}		
SB27-25	27	13.5	25	569.0	58.0	19.0	4.0	232 {2275}	4.5	261 {2560}	5.0	290 {2844}
30			30	474.0	48.3	22.8	4.8		5.4		6.0	
35			35	406.0	41.4	26.6	5.6		6.3		7.0	
40			40	355.0	36.2	30.4	6.4		7.2		8.0	
45			45	316.0	32.2	34.2	7.2		8.1		9.0	
50			50	284.0	29.0	38.0	8.0		9.0		10.0	
55			55	259.0	26.4	41.8	8.8		9.9		11.0	
60			60	237.0	24.2	45.6	9.6		10.8		12.0	
65			65	219.0	22.3	49.4	10.4		11.7		13.0	
70			70	203.0	20.7	53.2	11.2		12.6		14.0	
75			75	190.0	19.3	57.0	12.0		13.5		15.0	
80			80	178.0	18.1	60.8	12.8		14.4		16.0	
90			90	158.0	16.1	68.4	14.4		16.2		18.0	
100			100	142.0	14.5	76.0	16.0		18.0		20.0	
125			125	114.0	11.6	95.0	20.0		22.5		25.0	
150			150	94.8	9.7	114.0	24.0		27.0		30.0	
175			175	81.3	8.3	133.0	28.0		31.5		35.0	
SB30-25	30	15	25	706.0	72.0	19.0	4.0	288 {2824}	4.5	324 {3177}	5.0	360 {3530}
30			30	588.0	60.0	22.8	4.8		5.4		6.0	
35			35	504.0	51.4	26.6	5.6		6.3		7.0	
40			40	441.0	45.0	30.4	6.4		7.2		8.0	
45			45	392.0	40.0	34.2	7.2		8.1		9.0	
50			50	353.0	36.0	38.0	8.0		9.0		10.0	
55			55	321.0	32.7	41.8	8.8		9.9		11.0	
60			60	294.0	30.0	45.6	9.6		10.8		12.0	
65			65	272.0	27.7	49.4	10.4		11.7		13.0	
70			70	252.0	25.7	53.2	11.2		12.6		14.0	
75			75	235.0	24.0	57.0	12.0		13.5		15.0	
80			80	221.0	22.5	60.8	12.8		14.4		16.0	
90			90	196.0	20.0	68.4	14.4		16.2		18.0	
100			100	177.0	18.0	76.0	16.0		18.0		20.0	
125			125	141.0	14.4	95.0	20.0		22.5		25.0	
150			150	118.0	12.0	114.0	24.0		27.0		30.0	
175			175	101.0	10.3	133.0	28.0		31.5		35.0	
200	200	88.3	9.0	152.0	32.0	36.0	40.0					
SB35-40	35	17.5	40	600.0	61.2	31.0	6.4	392 {3842}	7.2	441 {4322}	8.0	490 {4802}
45			45	534.0	54.4	34.8	7.2		8.1		9.0	
50			50	480.0	49.0	38.7	8.0		9.0		10.0	
55			55	437.0	44.5	42.6	8.8		9.9		11.0	
60			60	400.0	40.8	46.4	9.6		10.8		12.0	
65			65	369.0	37.7	50.3	10.4		11.7		13.0	
70			70	343.0	35.0	54.2	11.2		12.6		14.0	
75			75	320.0	32.6	58.1	12.0		13.5		15.0	
80			80	300.0	30.6	61.9	12.8		14.4		16.0	
90			90	267.0	27.2	69.7	14.4		16.2		18.0	
100			100	240.0	24.5	77.4	16.0		18.0		20.0	
125			125	192.0	19.6	96.8	20.0		22.5		25.0	
150			150	160.0	16.3	116.1	24.0		27.0		30.0	
175			175	137.0	14.0	135.5	28.0		31.5		35.0	
200			200	120.0	12.2	154.8	32.0		36.0		40.0	

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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]							
SB40-40	40	20	40	784.0	79.9	31.0	6.4	512 {5018}	7.2	576 {5645}	8.0	640 {6272}					
45			45	697.0	71.1	34.8	7.2		8.1		9.0						
50			50	627.0	64.0	38.7	8.0		9.0		10.0						
55			55	570.0	58.1	42.6	8.8		9.9		11.0						
60			60	523.0	53.3	46.4	9.6		10.8		12.0						
65			65	482.0	49.2	50.3	10.4		11.7		13.0						
70			70	448.0	45.7	54.2	11.2		12.6		14.0						
75			75	418.0	42.6	58.1	12.0		13.5		15.0						
80			80	392.0	40.0	61.9	12.8		14.4		16.0						
90			90	348.0	35.5	69.7	14.4		16.2		18.0						
100			100	314.0	32.0	77.4	16.0		18.0		20.0						
125			125	251.0	25.6	96.8	20.0		22.5		25.0						
150			150	209.0	21.3	116.1	24.0		27.0		30.0						
175			175	179.0	18.3	135.5	28.0		31.5		35.0						
200			200	157.0	16.0	154.8	32.0		36.0		40.0						
225			225	139.0	14.2	174.2	36.0		40.5		45.0						
250			250	125.0	12.8	193.5	40.0		45.0		50.0						
275			275	114.0	11.6	212.9	44.0		49.5		55.0						
300			300	105.0	10.7	232.2	48.0		54.0		60.0						
SB50-50			50	25	50	980.0	100.0		38.7		8.0		800 {7840}	9.0	900 {8820}	10.0	1000 {9800}
55	55	891.0			90.9	42.6	8.8	9.9	11.0								
60	60	817.0			83.3	46.4	9.6	10.8	12.0								
65	65	754.0			76.9	50.3	10.4	11.7	13.0								
70	70	700.0			71.4	54.2	11.2	12.6	14.0								
75	75	653.0			66.7	58.1	12.0	13.5	15.0								
80	80	613.0			62.5	61.9	12.8	14.4	16.0								
90	90	544.0			55.6	69.7	14.4	16.2	18.0								
100	100	490.0			50.0	77.4	16.0	18.0	20.0								
125	125	392.0			40.0	96.8	20.0	22.5	25.0								
150	150	327.0			33.3	116.1	24.0	27.0	30.0								
175	175	280.0			28.6	135.5	28.0	31.5	35.0								
200	200	245.0			25.0	154.8	32.0	36.0	40.0								
225	225	218.0			22.2	174.2	36.0	40.5	45.0								
250	250	196.0			20.0	193.5	40.0	45.0	50.0								
275	275	178.0			18.2	212.9	44.0	49.5	55.0								
300	300	163.0			16.7	232.2	48.0	54.0	60.0								
350	350	140.0			14.3	270.9	56.0	63.0	70.0								
SB60-60	60	30			60	1176.0	120.0	46.4	9.6	1152 {11290}	10.8	1296 {12701}		12.0		1440 {14112}	
70					70	1008.0	102.9	54.2	11.2		12.6			14.0			
80			80	882.0	90.0	61.9	12.8	14.4	16.0								
90			90	784.0	80.0	69.7	14.4	16.2	18.0								
100			100	706.0	72.0	77.4	16.0	18.0	20.0								
125			125	564.0	57.6	96.8	20.0	22.5	25.0								
150			150	470.0	48.0	116.1	24.0	27.0	30.0								
175			175	403.3	41.1	135.5	28.0	31.5	35.0								
200			200	353.0	36.0	154.8	32.0	36.0	40.0								
225			225	314.0	32.0	174.2	36.0	40.5	45.0								
250			250	282.0	28.8	193.5	40.0	45.0	50.0								
275			275	257.0	26.2	212.9	44.0	49.5	55.0								
300			300	235.0	24.0	232.2	48.0	54.0	60.0								
350			350	202.0	20.6	270.9	56.0	63.0	70.0								
SB70-70			70	38.5	70	1219.0	124.3	54.2	11.2		1392 {13655}		12.6	1567 {15362}	14.0		1740 {17069}
80					80	1067.0	108.8	61.9	12.8				14.4		16.0		
90	90	948.0			96.7	69.7	14.4	16.2	18.0								
100	100	853.0			87.0	77.4	16.0	18.0	20.0								
125	125	683.0			69.6	96.8	20.0	22.5	25.0								
150	150	569.0			58.0	116.1	24.0	27.0	30.0								
175	175	488.0			49.7	135.5	28.0	31.5	35.0								
200	200	427.0			43.5	154.8	32.0	36.0	40.0								
250	250	341.0			34.8	193.5	40.0	45.0	50.0								
300	300	284.0			29.0	232.2	48.0	54.0	60.0								
350	350	244.0			24.9	270.9	56.0	63.0	70.0								