

Smalley Circular-Grain® bearing preload Wave Springs eliminate play and minimize bearing noise. The constant light/medium pressure they apply removes play between the ball bearings and the bearings' inner and outer races. Preloading can reduce the possibility of bearing damage due to vibration (vibratory loading) and wear due to repetitive and non-repetitive runout.

Stock Items in carbon steel and 17-7 PH/C stainless steel. Springs listed below are 3 and 4 waves **Overlap Type**.

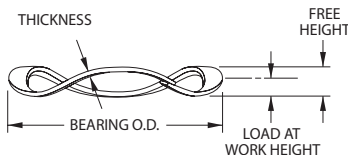
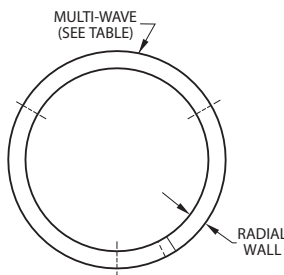
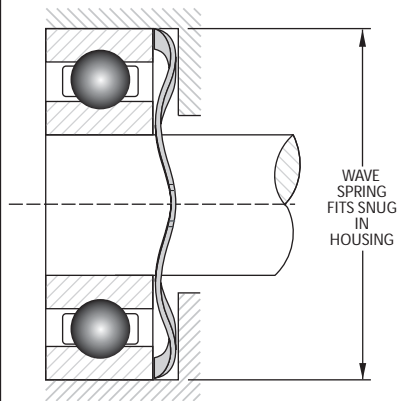
Smalley Part Number ^{1,5}	Bearing O.D. ² (mm)	Clears Shaft Diameter	Load (N)	Work Height	Free Height ³	Number of Waves	Thickness	Radial Wall	Spring Rate ^{3,4}
SSB-0063	16.00	11.28	44.5	1.57	2.29	3	.25	1.98	65
SSB-0075	19.00	14.28	53.4	1.57	3.05	3	.25	1.98	35
SSB-0087	22.00	16.46	62.3	1.57	2.79	3	.30	2.39	48
SSB-0095	24.00	18.46	66.7	1.57	3.56	3	.30	2.39	35
SSB-0102	26.00	18.22	71.2	1.98	2.54	3	.41	3.38	111
SSB-0110	28.00	20.22	75.6	1.98	2.79	3	.41	3.38	85
SSB-0118	30.00	22.22	84.5	1.98	3.30	3	.41	3.38	66
SSB-0126	32.00	24.22	89.0	1.98	3.81	3	.41	3.38	52
SSB-0138	35.00	27.22	97.9	1.98	4.57	3	.41	3.38	38
SSB-0146	37.00	28.72	102.3	1.98	3.81	3	.46	3.63	58
SSB-0158	40.00	31.72	111.2	1.98	5.08	3	.46	3.63	37
SSB-0165	42.00	33.72	115.7	1.98	3.05	4	.46	3.63	99
SSB-0185	47.00	38.72	129.0	1.98	3.81	4	.46	3.63	68
SSB-0205	52.00	43.11	142.4	2.36	3.56	4	.61	3.81	121
SSB-0217	55.00	46.11	151.3	2.36	3.81	4	.61	3.81	100
SSB-0244	62.00	51.69	169.1	2.36	4.32	4	.61	4.52	85
SSB-0268	68.00	57.17	186.9	2.77	4.32	4	.76	4.78	131
SSB-0276	70.00	59.17	191.3	2.77	4.32	4	.76	4.78	119
SSB-0284	72.00	61.17	195.8	2.77	4.57	4	.76	4.78	108
SSB-0295	75.00	64.17	204.7	2.77	5.08	4	.76	4.78	94
SSB-0315	80.00	68.66	218.0	2.77	5.59	4	.76	4.78	76
SSB-0335	85.00	71.38	231.4	2.77	5.59	4	.76	5.92	83
SSB-0354	90.00	76.38	249.2	2.77	6.35	4	.76	5.92	68
SSB-0374	95.00	81.38	262.5	2.77	7.37	4	.76	5.92	57

OVERLAP TYPE

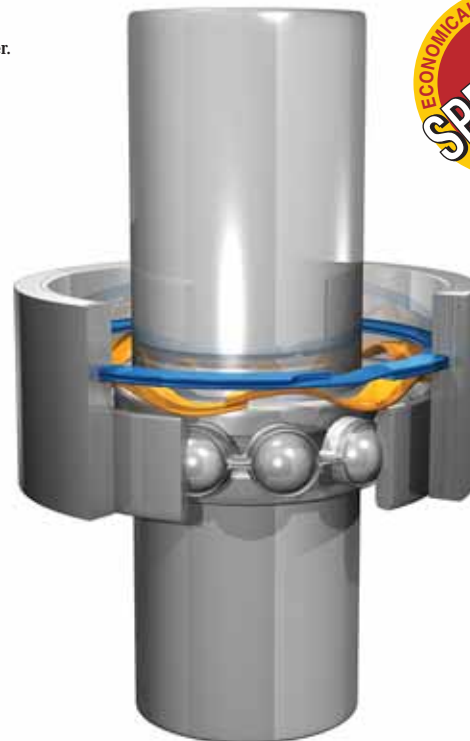
SSB-0063 to SSB-0374

Product Dimensions

All dimensions in millimeters unless otherwise specified.

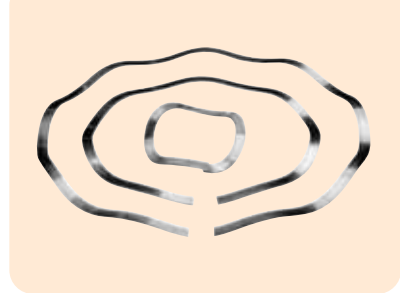


- ¹ Add suffix "-S17" for 17-7 stainless steel.
- ² Wave springs fit snug in housing.
- ³ Reference dimension.
- ⁴ Spring rate is measured in N/mm.
- ⁵ See pages 106-107 for How to Order.



Stock Items in carbon steel and 17-7 PH/C stainless steel. Springs listed below are 5 waves and up, **Gap Type**.

Manufactured in USA



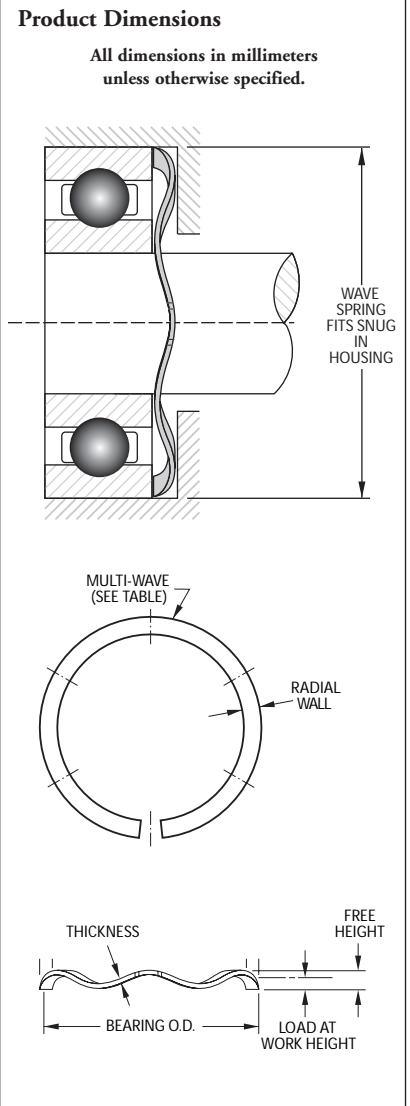
Smalley Part Number ^{1, 5}	Bearing O.D. ² (mm)	Clears Shaft Diameter	Load (N)	Work Height	Free Height ³	Number of Waves	Thickness	Radial Wall	Spring Rate ⁴
SSB-0394	100.00	86.38	275.9	2.77	4.57	5	.76	5.92	157
SSB-0413	105.00	91.38	289.2	2.77	5.08	5	.76	5.92	134
SSB-0433	110.00	96.38	302.6	2.77	5.33	5	.76	5.92	115
SSB-0453	115.00	101.38	315.9	3.18	6.35	5	.76	5.92	99
SSB-0472	120.00	106.38	329.3	3.18	7.11	5	.76	5.92	86
SSB-0492	125.00	111.38	342.6	3.18	7.62	5	.76	5.92	76
SSB-0512	130.00	116.38	356.0	3.18	8.64	5	.76	5.92	67
SSB-0532	135.00	121.38	369.3	3.18	9.40	5	.76	5.92	59
SSB-0551	140.00	126.38	382.7	3.18	6.86	6	.76	5.92	108
SSB-0571	145.00	131.38	396.0	3.18	7.37	6	.76	5.92	97
SSB-0591	150.00	136.38	404.9	3.18	7.87	6	.76	5.92	87
SSB-0630	160.00	146.38	440.5	3.18	9.40	6	.76	5.92	71
SSB-0650	165.00	151.38	453.9	3.18	10.41	6	.76	5.92	64
SSB-0669	170.00	156.38	467.2	3.18	11.18	6	.76	5.92	58
SSB-0689	175.00	154.16	480.6	3.96	8.13	6	.81	9.53	116
SSB-0709	180.00	159.16	493.9	3.96	8.64	6	.81	9.53	105
SSB-0728	185.00	164.16	507.3	3.96	9.14	6	.81	9.53	97
SSB-0748	190.00	169.16	520.6	3.96	9.91	6	.81	9.53	88
SSB-0787	200.00	179.16	547.3	3.96	7.11	7	.81	9.53	174
SSB-0807	205.00	184.16	560.7	3.96	7.37	7	.81	9.53	161
SSB-0827	210.00	189.16	578.5	3.96	7.87	7	.81	9.53	149
SSB-0847	215.00	194.16	591.8	3.96	8.38	7	.81	9.53	138
SSB-0866	220.00	199.16	605.2	3.96	8.64	7	.81	9.53	128
SSB-0886	225.00	204.16	618.5	3.96	7.11	8	.81	9.53	203
SSB-0906	230.00	209.16	631.9	3.96	6.10	9	.81	9.53	303
SSB-0925	235.00	214.16	645.2	3.96	6.35	9	.81	9.53	283
SSB-0945	240.00	219.16	658.6	3.96	6.35	9	.81	9.53	265
SSB-0984	250.00	229.16	685.3	3.96	6.86	9	.81	9.53	232
SSB-1024	260.00	239.16	712.0	3.96	7.37	9	.81	9.53	205
SSB-1043	265.00	244.16	725.3	3.96	7.62	9	.81	9.53	193
SSB-1063	270.00	249.16	743.1	3.96	8.13	9	.81	9.53	182
SSB-1102	280.00	259.16	769.8	3.96	8.64	9	.81	9.53	162
SSB-1142	290.00	269.16	796.5	3.96	9.40	9	.81	9.53	144
SSB-1181	300.00	279.16	823.2	3.96	10.41	9	.81	9.53	129
SSB-1221	310.00	289.16	849.9	3.96	7.11	9	1.07	9.53	264
SSB-1260	320.00	299.16	876.6	3.96	7.62	9	1.07	9.53	239
SSB-1339	340.00	319.16	934.5	3.96	8.64	9	1.07	9.53	198
SSB-1378	350.00	329.16	961.1	3.96	9.40	9	1.07	9.53	180
SSB-1417	360.00	339.16	987.9	3.96	7.62	10	1.07	9.53	271
SSB-1457	370.00	349.16	1014.6	3.96	8.13	10	1.07	9.53	249
SSB-1496	380.00	359.16	1041.3	3.96	8.64	10	1.07	9.53	229
SSB-1535	390.00	369.16	1072.4	3.96	9.14	10	1.07	9.53	211
SSB-1575	400.00	379.16	1099.1	3.96	9.65	10	1.07	9.53	196
SSB-1614	410.00	382.82	1125.8	3.96	8.38	10	1.07	12.70	251
SSB-1654	420.00	392.82	1152.5	3.96	8.89	10	1.07	12.70	233
SSB-1693	430.00	402.82	1179.2	3.96	7.62	11	1.07	12.70	317
SSB-1732	440.00	412.82	1205.9	3.96	8.13	11	1.07	12.70	295
SSB-1811	460.00	432.82	1263.7	3.96	8.89	11	1.07	12.70	256
SSB-1890	480.00	452.82	1317.1	3.96	8.13	12	1.07	12.70	318
SSB-1969	500.00	472.82	1370.5	3.96	8.89	12	1.07	12.70	280
SSB-2126	540.00	512.82	1481.8	3.96	8.89	13	1.07	12.70	303
SSB-2284	580.00	552.82	1593.0	3.96	8.89	14	1.07	12.70	327

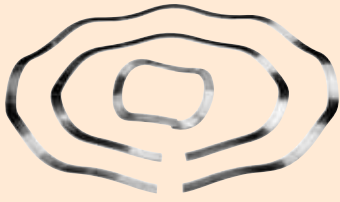
¹ Add suffix "S17" for 17-7 stainless steel.
² Wave springs fit snug in housing.
³ Reference dimension.
⁴ Spring rate is measured in N/mm.
⁵ See pages 106-107 for How to Order.

SPRINGS

GAP TYPE

SSB-0394 to SSB-2284





Use this cross-reference guide to select the appropriate Wave Spring for your bearing size. The numbers represent typical standard bearing part numbers and/or the suffix of a standard bearing size.

Smalley Part Number ¹	Bearing O.D. ² (mm)	BEARING PART NUMBERS						
		Extra Small	Extremely Light	Extra Light	Narrow	Light	Medium	Heavy
SSB-0063	16.00	34	—	—	—	—	—	—
SSB-0075	19.00	35, 36	—	—	—	—	—	—
SSB-0087	22.00	37, 38	00	—	—	—	—	—
SSB-0095	24.00	38KV	01	—	—	—	—	—
SSB-0102	26.00	39	—	100	—	—	—	—
SSB-0110	28.00	—	02	101	—	—	—	—
SSB-0118	30.00	—	03	—	—	200	—	—
SSB-0126	32.00	—	—	102	02	201	—	—
SSB-0138	35.00	—	—	103	—	202	300	—
SSB-0146	37.00	—	04	—	03	—	301	—
SSB-0158	40.00	—	—	—	—	203	—	—
SSB-0165	42.00	—	05	104	04	—	302	—
SSB-0185	47.00	—	06	105	—	204	303	—
SSB-0205	52.00	—	—	—	05	205	304	—
SSB-0217	55.00	—	07	106	—	—	—	—
SSB-0244	62.00	—	08	107	06	206	305	403
SSB-0268	68.00	—	09	108	—	—	—	—
SSB-0276	70.00	—	—	—	07	—	—	—
SSB-0284	72.00	—	10	—	—	207	306	404
SSB-0295	75.00	—	—	109	—	—	—	—
SSB-0315	80.00	—	11	110	08	208	307	405
SSB-0335	85.00	—	12	—	09	209	—	—
SSB-0354	90.00	—	13	111	10	210	308	406
SSB-0374	95.00	—	—	112	—	—	—	—
SSB-0394	100.00	—	14	113	11	211	309	407
SSB-0413	105.00	—	15	—	12	—	—	—
SSB-0433	110.00	—	16	114	—	212	310	408
SSB-0453	115.00	—	—	115	13	—	—	—
SSB-0472	120.00	—	17	—	14	213	311	409
SSB-0492	125.00	—	18	116	—	214	—	—
SSB-0512	130.00	—	19	117	15	215	312	410
SSB-0532	135.00	—	—	—	16	—	—	—
SSB-0551	140.00	—	20	118	—	216	313	411
SSB-0571	145.00	—	21	119	17	—	—	—
SSB-0591	150.00	—	22	120	18	217	314	412
SSB-0630	160.00	—	—	121	19	218	315	413
SSB-0650	165.00	—	24	—	20	—	—	—
SSB-0669	170.00	—	—	122	—	219	316	—
SSB-0689	175.00	—	—	—	22 ³	—	—	—
SSB-0709	180.00	—	26	124	21	220	317	414
SSB-0728	185.00	—	—	—	22 ³	—	—	—
SSB-0748	190.00	—	28	—	24	221	318	415
SSB-0787	200.00	—	—	126	—	222	319	416
SSB-0807	205.00	—	—	—	26	—	—	—
SSB-0827	210.00	—	30	128	—	—	—	417
SSB-0847	215.00	—	—	—	—	224	320	—

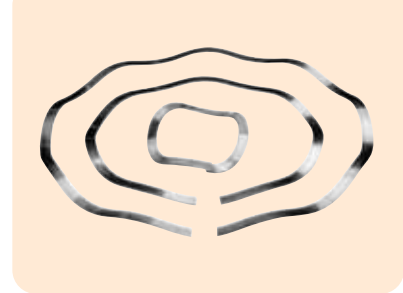
¹ Add suffix “S17” for 17-7 stainless steel.

² Wave springs fit snug in housing.

³ Check bearing dimensions.

Use this cross-reference guide to select the appropriate Wave Spring for your bearing size. The numbers represent typical standard bearing part numbers and/or the suffix of a standard bearing size.

Manufactured in USA



Smalley Part Number ¹	Bearing O.D. ² (mm)	BEARING PART NUMBERS						
		Extra Small	Extremely Light	Extra Light	Narrow	Light	Medium	Heavy
SSB-0866	220.00	—	32	—	28	—	—	—
SSB-0886	225.00	—	—	130	—	—	321	418
SSB-0906	230.00	—	34	—	—	226	—	—
SSB-0925	235.00	—	—	—	30	—	—	—
SSB-0945	240.00	—	—	132	—	—	322	—
SSB-0984	250.00	—	36	—	32	228	—	419
SSB-1024	260.00	—	38	134	—	—	324	—
SSB-1043	265.00	—	—	—	34	—	—	420
SSB-1063	270.00	—	—	—	—	230	—	—
SSB-1102	280.00	—	40	136	36	—	326	—
SSB-1142	290.00	—	—	138	—	232	—	421
SSB-1181	300.00	—	—	—	38	—	328	—
SSB-1221	310.00	—	—	140	—	234	—	—
SSB-1260	320.00	—	—	—	40	236	330	422
SSB-1339	340.00	—	—	144	42	238	332	—
SSB-1378	350.00	—	—	—	44	—	—	—
SSB-1417	360.00	—	—	148	—	240	334	—
SSB-1457	370.00	—	—	—	46	—	—	—
SSB-1496	380.00	—	—	—	—	—	336	—
SSB-1535	390.00	—	—	—	48	—	—	—
SSB-1575	400.00	—	—	152	—	244	338	—
SSB-1614	410.00	—	—	—	50	—	—	—
SSB-1654	420.00	—	—	156	—	—	340	—
SSB-1693	430.00	—	—	—	52	—	—	—
SSB-1732	440.00	—	—	—	—	248	342	—
SSB-1811	460.00	—	—	160	56	—	344	—
SSB-1890	480.00	—	—	164	—	252	—	—
SSB-1969	500.00	—	—	—	64	256	348	—
SSB-2126	540.00	—	—	—	—	260	352	—
SSB-2284	580.00	—	—	—	—	264	356	—

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³ Check bearing dimensions.

