



CROWER

VALVESPRING GUIDE



O.D./I.D. Outer	.885/.610	.940/.580(top)	1.000/.630(top)	1.030/.630(top)	1.045/.745
O.D./I.D. Middle	-	1.110/.745 (bottom)		1.210/.805 (bottom)	-
O.D./I.D. Inner	-	-	1.065/.700 (bottom)	-	-
Installed Height	1.975	1.470	1.700	1.900	1.400
Rate	212	321	-	.352	251
Part #	68180	68194X2	68444	68435	68195
Type	Single	Single	Beehive	Beehive	Single
Color Code	None	None	None	None	None
Damper	No	No	No	No	No
Free Length	2.310	1.775	2.065	2.255	1.690
Wire Diameter	.140	.144/.175 (ovate)	.139	Ovate	.146
Material	Silicone	Silicone	-	-	Silicone
2.300	-	-	-	-	-
2.250	-	-	-	-	-
2.200	-	-	-	-	-
2.150	53 lbs	-	-	-	-
2.100	63 lbs	-	-	-	-
2.050	72 lbs	-	-	-	-
2.000	82 lbs	-	-	-	-
1.950	92 lbs	-	-	-	-
1.900	104 lbs	-	-	95 lbs	-
1.850	-	-	-	112 lbs	-
1.800	113lbs	-	-	126 lbs	-
1.750	123 lbs	-	-	143 lbs	-
1.720	133 lbs	-	-	-	-
1.700	144 lbs	-	90 lbs	158 lbs	-
1.650	154 lbs	77 lbs	103 lbs	174 lbs	-
1.600	165 lbs	-	115 lbs	191 lbs	-
1.550	-	103 lbs	128 lbs	207 lbs	-
1.500	175 lbs	108 lbs	141 lbs	224 lbs	42 lbs
1.450	-	122 lbs	155 lbs	241 lbs	54 lbs
1.420	-	137 lbs	-	-	-
1.400	-	154 lbs	169 lbs	261 lbs	66 lbs
1.350	-	169 lbs	184 lbs	280 lbs	79 lbs
1.300	-	187 lbs	197 lbs	299 lbs	90 lbs
1.250	-	202 lbs	212 lbs	318 lbs	104 lbs
1.200	-	220 lbs	226 lbs	337 lbs	115 lbs
1.150	-	238 lbs	240 lbs	356 lbs	126 lbs
1.100	-	256 lbs	255 lbs	-	139 lbs
1.050	1.320	.870	-	-	149 lbs
1.000	87096 (5.5mm)	87020	-	-	161 lbs
0.950	-	87020T	-	-	174 lbs
Coil Bind	-	-	-	1.080	0.860
Retainers	-	-	87039T (.900-.630)	-	87085 (6mm)
7° Titanium Retainer	-	-	-	-	87082 (6mm)
7° Titanium Retainer	-	-	-	-	-
7° Titanium Ret 3/8	-	-	-	-	-
Titanium Ret 10°	-	-	-	-	-
Titanium Super 7°	-	-	-	-	-
7° Steel Retainer 5/16	-	-	-	87015 (8mm)	-
7° Steel Retainer 11/32	-	-	-	87029M	-
7° Steel Retainer 3/8	-	-	-	-	-
Steel Retainer 10°				-	-
Seat Cup			-	-	-
Seat Disc			-	68949	-

O.D./I.D. Outer	1.055/.650 (top)	1.050/.650 (top)	1.080/.720	1.090/.650	1.090/.780
O.D./I.D. Middle	1.250/.845 (bottom)	1.290/.885 (bottom)	-	-	-
O.D./I.D. Inner	-	-	-	1.450/1.005	-
Installed Height	1.750	1.750	1.420	1.900	1.550
Rate	349	308	330	334	289
Part #	68155	68878	68194	68152	68190
Type	Single Conical	Single Conical	Single	Conical	Single
Color Code	None	Blue	None	None	None
Damper	No	No	No	No	No
Free Length	2.069	2.290	1.650	2.500	1.820
Wire Diameter	.167/.202 (ovate)	.168/.200	.181/.144 (ovate)	.214/.170 (ovate)	.160
Material	Silicone	Silicone	Silicone	-	Silicone
2.300	-	-	-	-	-
2.250	-	-	-	117 lbs	-
2.200	-	-	-	134 lbs	-
2.150	-	-	-	149 lbs	-
2.100	-	-	-	165 lbs	-
2.050	-	-	-	182 lbs	-
2.000	-	-	-	198 lbs	-
1.950	-	-	-	-	-
1.900	-	-	-	214 lbs	-
1.850	-	-	-	231 lbs	42 lbs
1.800	-	132 lbs	-	247 lbs	55 lbs
1.750	113 lbs	146 lbs	-	264 lbs	74 lbs
1.720	-	-	-	280 lbs	88 lbs
1.700	128 lbs	159 lbs	-	298 lbs	101 lbs
1.650	142 lbs	172 lbs	-	-	-
1.600	159 lbs	187 lbs	82 lbs	316 lbs	111 lbs
1.550	174 lbs	199 lbs	98 lbs	335 lbs	122 lbs
1.500	193 lbs	216 lbs	114 lbs	354 lbs	135 lbs
1.450	210 lbs	231 lbs	131 lbs	379 lbs	149 lbs
1.420	-	-	148 lbs	401 lbs	163 lbs
1.400	228 lbs	249 lbs	165 lbs	428 lbs	177 lbs
1.350	247 lbs	266 lbs	181 lbs	-	195 lbs
1.300	266 lbs	283 lbs	198 lbs	-	211 lbs
1.250	285 lbs	300 lbs	214 lbs	-	231 lbs
1.200	302 lbs	317 lbs	230 lbs	-	-
1.150	-	336 lbs	.806	1.055	0.920
1.100	-	-	87026 (7mm)	-	-
1.050	-	-	87026T (7mm)	87057+	87095 (6.5mm)
1.000	-	-	-	87029+	-
0.950	-	-	-	-	-
Coil Bind Retainers	1.100	1.080	-	-	-
7° Titanium Retainer	87018T	87028T (LS1)	-	87057	-
7° Titanium Retainer	87029T	87029	-	87029	-
7° Titanium Ret 3/8	-	-	-	-	-
Titanium Ret 10°	-	-	-	-	-
Titanium Super 7°	-	-	-	68934	-
7° Steel Retainer 5/16	87028	87018T	-	-	-
7° Steel Retainer 11/32	87029	87029	-	-	-
7° Steel Retainer 3/8	-	-	-	-	-
Steel Retainer 10°	-	-	-	-	-
Seat Cup	-	-	-	-	-
Seat Disc	-	-	-	-	-

O.D./I.D. Outer	1.105/.820	1.105/.820	1.130/.650(top)	1.160/.840	1.160/.870
O.D./I.D. Middle	-	-	1.120/.750(bottom)	-	-
O.D./I.D. Inner	.800/.627	.811/.608	-	-	.860/.660
Installed Height	1.350	1.350	1.650	1.550	1.590
Rate	234	314	230	245	353
Part #	68181	68182	68193	68183	68189
Type	Dual	Dual	Single	Single	Dual
Color Code	Orange	Orange	None	Purple	Yellow
Damper	No	No	No	No	No
Free Length	1.635	1.635	2.330	1.920	2.015
Wire Diameter	.140/.085	.140/.104	.146/.148 (ovate)	.161	.149/.104
Material	Silicone	Silicone	Silicone	Silicone	Silicone
2.300	-	-	-	-	-
2.250	-	-	-	-	-
2.200	-	-	-	-	-
2.150	-	-	-	-	-
2.100	-	-	-	-	-
2.050	-	-	-	-	-
2.000	-	-	-	-	-
1.950	-	-	-	-	-
1.900	-	-	-	-	-
1.850	-	-	-	-	-
1.800	-	-	103 lbs	-	-
1.750	-	-	114 lbs	-	-
1.720	-	-	124 lbs	-	-
1.700	-	-	128 lbs	-	-
1.650	-	-	134 lbs	-	65 lbs
1.600	-	-	150 lbs	-	81 lbs
1.550	-	28 lbs	153 lbs	73 lbs	96 lbs
1.500	-	42 lbs	171 lbs	84 lbs	112 lbs
1.450	36 lbs	56 lbs	-	95 lbs	127 lbs
1.420	-	-	-	-	-
1.400	48 lbs	70 lbs	195 lbs	107 lbs	144 lbs
1.350	56 lbs	84 lbs	197 lbs	119 lbs	159 lbs
1.300	70 lbs	98 lbs	217 lbs	130 lbs	178 lbs
1.250	83 lbs	113 lbs	220 lbs	141 lbs	198 lbs
1.200	95 lbs	127 lbs	240 lbs	152 lbs	218 lbs
1.150	106 lbs	141 lbs	244 lbs	166 lbs	238 lbs
1.100	118 lbs	155 lbs	257 lbs	177 lbs	261 lbs
1.050	129 lbs	169 lbs	276 lbs	191 lbs	-
1.000	139 lbs	185 lbs	-	205 lbs	-
0.950	148 lbs	202 lbs	-	-	-
Coil Bind	0.710	0.800	1.035	0.895	1.030
Retainers	-	-	87024 (7mm steel)	-	-
7° Titanium Retainer	87092 (6.5mm)	87092 (6.5mm)	87024T	87097 (6mm)	87094 (5.5mm)
7° Titanium Retainer	-	-	87025 +.060*	-	-
7° Titanium Ret 3/8	-	-	87023 3 valve	-	-
Titanium Ret 10°	-	-	87023T 3 valve	-	-
Titanium Super 7°	-	-	-	-	-
7° Steel Retainer 5/16	-	-	-	-	-
7° Steel Retainer 11/32	-	-	-	-	-
7° Steel Retainer 3/8	-	-	-	-	-
Steel Retainer 10°	-	-	-	-	-
Seat Cup	-	-	-	-	-
Seat Disc	Stock .108 step inner	Stock .108 step inner	-	-	-

O.D./I.D. Outer	1.180/.880	1.240/.870	1.240	1.250/.875	1.250/.940	1.255/.780
O.D./I.D. Middle	-	-	-	-	-	-
O.D./I.D. Inner	.870/.670	-	-	-	.910/.680	-
Installed Height	1.350	1.600	1.600	1.750	1.650	1.750
Rate	309	194	-	456	285	522
Part #	68188	68210	68141	68301X4	68106X208	68311X1
Type	Dual	Single	Single	Single	Dual	Single
Color Code	Red/White	-	-	None	None	None
Damper	No	Yes	Yes	Yes	No	Yes
Free Length	1.580	-	-	2.050	2.225	1.995
Wire Diameter	.154/.099	-	-	.185	.155/.112	0.198
Material	Silicone	-	-	-	Silicone	Super Clean Silicone
2.300	-	-	-	-	-	-
2.250	-	-	-	-	-	-
2.200	-	-	-	-	-	-
2.150	-	-	-	-	-	-
2.100	-	-	-	-	-	-
2.050	-	-	-	-	-	-
2.000	-	-	-	-	-	-
1.950	-	-	-	-	-	-
1.900	-	-	-	-	-	-
1.850	-	-	-	-	-	73 lbs
1.800	-	-	-	-	-	97 lbs
1.750	-	-	-	108 lbs	102 lbs	120 lbs
1.720	-	-	-	-	-	-
1.700	-	71 lbs	-	129 lbs	118 lbs	146 lbs
1.650	-	-	-	150 lbs	130 lbs	169 lbs
1.600	-	88 lbs	51 lbs	173 lbs	145 lbs	194 lbs
1.550	-	-	59 lbs	195 lbs	158 lbs	220 lbs
1.500	-	105 lbs	67 lbs	217 lbs	172 lbs	246 lbs
1.450	-	-	76 lbs	239 lbs	186 lbs	274 lbs
1.420	-	-	-	-	-	-
1.400	68 lbs	124 lbs	85 lbs	263 lbs	199 lbs	302 lbs
1.350	82 lbs	-	94 lbs	287 lbs	213 lbs	331 lbs
1.300	97 lbs	143 lbs	103 lbs	312 lbs	226 lbs	359 lbs
1.250	111 lbs	-	112 lbs	336 lbs	240 lbs	389 lbs
1.200	125 lbs	163 lbs	121 lbs	362 lbs	253 lbs	424 lbs
1.150	140 lbs	-	130 lbs	387 lbs	269 lbs	459 lbs
1.100	155 lbs	185 lbs	141 lbs	-	286 lbs	-
1.050	170 lbs	-	151 lbs	-	302 lbs	-
1.000	183 lbs	209 lbs	161 lbs	-	317 lbs	-
0.950	202 lbs	-	-	-	-	-
Coil Bind	0.765	.815	.895	1.050	0.910	1.070
Retainers	-	-	-	-	-	-
7° Titanium Retainer	87093 (5.5mm)	-	-	-	86046	86037T
7° Titanium Retainer	-	-	-	-	-	86031
7° Titanium Ret 3/8	-	-	-	-	-	-
Titanium Ret 10°	-	-	-	-	-	-
Titanium Super 7°	-	-	-	-	86757S	-
7° Steel Retainer 5/16	-	87045	87045	86106	87045	86037
7° Steel Retainer	-	-	-	87036	-	86032 or 87036
11/32	-	-	-	-	-	-
7° Steel Retainer 3/8	-	-	-	-	86032	-
Steel Retainer 10°	-	-	-	-	-	-
Seat Cup	-	-	-	-	68922	-
Seat Disc	Stock .080 step inner	-	-	-	68948	-

O.D./I.D. Outer	1.255/.780	1.260/.760	1.260/.872	1.265/.790
O.D./I.D. Middle	-	-	-	-
O.D./I.D. Inner	-	-	-	-
Installed Height	1.700	1.800	1.700	1.750
Rate	378	390	493	407
Part #	68301X1	68304	68307	68301
Type	Single	Single	Single	Single
Color Code	None	None	None	None
Damper	Yes	Yes	Yes	Yes
Free Length	1.980	2.100	2.103	2.020
Wire Diameter	0.185	0.190	0.197	0.192
Material	Silicone	Silicone	Silicone	Silicone
2.300	-	-	-	-
2.250	-	-	-	-
2.200	-	-	-	-
2.150	-	-	-	-
2.100	-	-	-	-
2.050	-	-	-	-
2.000	-	-	-	-
1.950	-	-	-	-
1.900	-	-	-	-
1.850	-	88 lbs	-	-
1.800	70 lbs	106 lbs	-	-
1.750	88 lbs	124 lbs	109 lbs	96 lbs
1.720	-	-	-	-
1.700	105 lbs	141 lbs	132 lbs	114 lbs
1.650	123 lbs	159 lbs	159 lbs	130 lbs
1.600	140 lbs	176 lbs	182 lbs	149 lbs
1.550	157 lbs	195 lbs	208 lbs	169 lbs
1.500	174 lbs	210 lbs	234 lbs	188 lbs
1.450	192 lbs	231 lbs	258 lbs	207 lbs
1.420	-	-	-	-
1.400	210 lbs	250 lbs	285 lbs	229 lbs
1.350	230 lbs	271 lbs	311 lbs	252 lbs
1.300	252 lbs	295 lbs	341 lbs	274 lbs
1.250	274 lbs	317 lbs	369 lbs	299 lbs
1.200	297 lbs	345 lbs	396 lbs	-
1.150	-	-	428 lbs	-
1.100	-	-	462 lbs	-
1.050	-	-	-	-
1.000	-	-	-	-
0.950	-	-	-	-
Coil Bind	1.130	1.090	1.000	1.170
Retainers	-	-	-	-
7° Titanium Retainer	86037T	86037T	-	-
7° Titanium Retainer	86031	86031	86031	86031
7° Titanium Ret 3/8	-	-	-	-
Titanium Ret 10°	-	-	-	-
Titanium Super 7°	-	-	-	-
7° Steel Retainer 5/16	86037	86037	86037	-
7° Steel Retainer 11/32	86032 or 87036	86032	86032 or 87036	86032 or 87036
7° Steel Retainer 3/8	-	-	-	-
Steel Retainer 10°	-	-	-	-
Seat Cup	-	-	-	-
Seat Disc	-	-	-	-

O.D./I.D. Outer	1.270/.800	1.275/.925	1.285/.905	1.285/.940
O.D./I.D. Middle	-	-	-	-
O.D./I.D. Inner	-	.913/.685	.900/.615	.935/.690
Installed Height	1.750	1.600	2.050	1.800
Rate	477	388	524	350
Part #	68311	68109X1	68852	68153
Type	Single	Dual	Dual	Dual
Color Code	None	Orange/Yellow	None	None
Damper	Yes	No	No	No
Free Length	2.030	1.830	2.400	2.225
Wire Diameter	.193	.175/.118	.186/.136	.171/.121
Material	Silicone	Silicone	-	-
2.300	-	-	-	-
2.250	-	-	-	-
2.200	-	-	-	-
2.150	-	-	-	-
2.100	-	-	-	-
2.050	-	-	146 lbs	-
2.000	-	-	170 lbs	-
1.950	-	-	194 lbs	-
1.900	-	-	221 lbs	93 lbs
1.850	-	-	248 lbs	111 lbs
1.800	75 lbs	-	274 lbs	128 lbs
1.750	99 lbs	-	300 lbs	146 lbs
1.720	-	-	-	-
1.700	121 lbs	58 lbs	327 lbs	163 lbs
1.650	141 lbs	77 lbs	355 lbs	181 lbs
1.600	163 lbs	95 lbs	381 lbs	198 lbs
1.550	186 lbs	113 lbs	408 lbs	216 lbs
1.500	209 lbs	130 lbs	435 lbs	233 lbs
1.450	235 lbs	148 lbs	463 lbs	250 lbs
1.420	-	-	-	-
1.400	255 lbs	166 lbs	491 lbs	266 lbs
1.350	279 lbs	183 lbs	519 lbs	285 lbs
1.300	302 lbs	202 lbs	556 lbs	303 lbs
1.250	326 lbs	222 lbs	594 lbs	322 lbs
1.200	353 lbs	240 lbs	-	342 lbs
1.150	380 lbs	261 lbs	-	363 lbs
1.100	407 lbs	281 lbs	-	383 lbs
1.050	440 lbs	302 lbs	-	-
1.000	-	323 lbs	-	-
0.950	-	-	-	-
Coil Bind	0.990	0.955	1.180	1.015
Retainers	-	-	-	-
7° Titanium Retainer	-	86046	86037+* or 87007	87006 (8mm)
7° Titanium Retainer	86031	-	87078	-
7° Titanium Ret 3/8	-	-	-	-
Titanium Ret 10°	-	-	-	-
Titanium Super 7°	-	86753 or 86753S	-	86757S
7° Steel Retainer 5/16	-	87046	86037 +.050	86036 (8mm)
7° Steel Retainer 11/32	86032-87036	-	87007	87036
7° Steel Retainer 3/8	-	-	-	-
Steel Retainer 10°	-	-	-	-
Seat Cup	68935	68935	68935	68935
Seat Disc	-	68948	68947	68948

O.D./I.D. Outer	1.290/.890	1.290/.890	1.290/.950	1.290/.950
O.D./I.D. Middle				
O.D./I.D. Inner	.890/.660	.890/.660	.690	.680
Installed Height	1.900	1.900	1.800	1.800
Rate	382	382	369	409
Part #	68156NP	68156	68441	68436
Type	Dual	Dual	Dual	Dual
Color Code	None	None	None	None
Damper	No	No	No	No
Free Length			2.400	2.390
Wire Diameter	.163/.115	.163/.115	.126/.165	.127/.165
Material	-	-	-	-
2.300	-	-	-	-
2.250	-	-	-	-
2.200	-	-	-	-
2.150	-	-	-	-
2.100	-	-	-	-
2.050	-	-	-	-
2.000	-	-	-	-
1.950	-	-	-	-
1.900	119 lbs	113 lbs	-	-
1.850	138 lbs	-	-	-
1.800	158 lbs	151 lbs	145 lbs	145 lbs
1.750	175 lbs	-	154 lbs	165 lbs
1.720	-	-	-	-
1.700	193 lbs	187 lbs	163 lbs	186 lbs
1.650	212 lbs	-	219 lbs	206 lbs
1.600	231 lbs	225 lbs	-	-
1.550	250 lbs	-	-	-
1.500	270 lbs	265 lbs	-	-
1.450	290 lbs	-	-	-
1.420	-	-	-	-
1.400	310 lbs	306 lbs	-	-
1.350	332 lbs	-	-	-
1.300	354 lbs	348 lbs	-	-
1.250	376 lbs	-	348 lbs	369 lbs
1.200	398 lbs	391 lbs	366 lbs	389 lbs
1.150	419 lbs	-	385 lbs	411 lbs
1.100	441 lbs	435 lbs	402 lbs	432 lbs
1.050	-	-	422 lbs	-
1.000	-	-	-	-
0.950	-	-	-	-
Coil Bind	.995	.995	1.000	1.000
Retainers	-	-	-	-
7° Titanium Retainer	86036T	86036T	87006 (8mm)	87006 (8mm)
7° Titanium Retainer	86031	86031	-	-
7° Titanium Ret 3/8	-	-	-	-
Titanium Ret 10°	-	-	-	-
Titanium Super 7°	86753 or 86753S	86753 or 86753S	86757	86757 or 86757S
7° Steel Retainer 5/16	86036	86036	87006S (8mm)	87006S
7° Steel Retainer 11/32	86032	86032	87036	87036
7° Steel Retainer 3/8	-	-	-	-
Steel Retainer 10°	-	-	-	-
Seat Cup	68923 or 68935	68923 or 68935	68923 or 68935	68935 or 68923
Seat Disc	-	68948	68948	68948

O.D./I.D. Outer	1.290/1.055	1.290/950	1.300/900	1.300/908	1.300/1.065
O.D./I.D. Middle		-	.890/.695	-	-
O.D./I.D. Inner	.890/.650	.945/.670	-	.906/.625	.880/.650
Installed Height	1.850	1.800	1.900	-	1.900
Rate	302	371	375	-	342
Part #	68448	68157	68521	68432	68449
Type	Conical	Dual	Dual	Dual	Conical
Color Code	None	None	None	None	None
Damper	No	No	No	No	No
Free Length	2.380	2.280	2.275	2.250	2.375
Wire Diameter	.195/.160	.172/.134	.163/.115	.195/.134	.200/.160
Material	-	Silicone	-	-	-
2.300	-	-	-	-	-
2.250	-	-	-	-	-
2.200	-	-	-	-	-
2.150	-	-	-	-	-
2.100	-	-	-	-	-
2.050	-	-	-	-	-
2.000	-	-	-	-	-
1.950	-	-	-	142 lbs	-
1.900	115 lbs	-	123 lbs	178 lbs	120 lbs
1.850	129 lbs	128 lbs	141 lbs	212 lbs	137 lbs
1.800	142 lbs	144 lbs	159 lbs	247 lbs	152 lbs
1.750	155 lbs	161 lbs	177 lbs	283 lbs	168 lbs
1.720	-	-	-	-	-
1.700	168 lbs	178 lbs	195 lbs	317 lbs	185 lbs
1.650	182 lbs	196 lbs	213 lbs	353 lbs	202 lbs
1.600	197 lbs	212 lbs	231 lbs	383 lbs	219 lbs
1.550	212 lbs	229 lbs	251 lbs	427 lbs	237 lbs
1.500	227 lbs	247 lbs	271 lbs	463 lbs	255 lbs
1.450	244 lbs	265 lbs	290 lbs	500lbs	272 lbs
1.420	-	-	-	-	-
1.400	260 lbs	284 lbs	310 lbs	539lbs	291 lbs
1.350	276 lbs	303 lbs	331 lbs	581 lbs	310 lbs
1.300	293 lbs	324 lbs	351 lbs	622 lbs	327 lbs
1.250	310 lbs	345 lbs	372 lbs	665 lbs	346 lbs
1.200	326 lbs	367 lbs	393 lbs	705lbs	364 lbs
1.150	345 lbs	389 lbs	414 lbs	750lbs	386 lbs
1.100	-	415 lbs	435 lbs	-	-
1.050	-	-	-	-	-
1.000	-	-	-	-	-
0.950	-	-	-	-	-
Coil Bind	1.070	1.040 w/.050 step	.990	.970	1.100
Retainers	-	-	-	-	-
7° Titanium Retainer	87057+*	86030 / 86046	-	86036T	87057+*
7° Titanium Retainer	87029+*	86031	-	-	87029+*
7° Titanium Ret 3/8	-	-	-	-	-
Titanium Ret 10°	-	-	-	-	-
Titanium Super 7°	-	-	86753 or 86753S	-	-
7° Steel Retainer 5/16	87057	87045	-	-	87057
7° Steel Retainer 11/32	87029	86032D	87036	-	87029
7° Steel Retainer 3/8	-	-	-	-	-
Steel Retainer 10°	-	-	-	-	-
Seat Cup	68923	-	68923	-	68923
Seat Disc	-	-	68941	-	-

O.D./I.D. Outer	1.304/.950	1.304/.950	1.324/.950	1.324/.950
O.D./I.D. Middle	-	-	-	-
O.D./I.D. Inner	.694	.694	.680	.694
Installed Height	1.800	1.800	1.800	1.800
Rate	433	392	500	460
Part #	68447	68446	68442	68440
Type	Dual	Dual	Dual	Dual
Color Code	None	None	None	None
Damper	No	No	No	No
Free Length	2.300	2.330	2.280	2.250
Wire Diameter	.127/.171	.125/.171	.127/.181	.127/.183
Material	-	-	-	-
2.300	-	-	-	-
2.250	-	-	-	-
2.200	-	-	-	-
2.150	-	-	-	-
2.100	-	-	-	-
2.050	-	-	-	-
2.000	-	-	-	-
1.950	-	-	-	-
1.900	-	-	-	-
1.850	-	-	-	-
1.800	155 lbs	155 lbs	160 lbs	180 lbs
1.750	176 lbs	164 lbs	185 lbs	193 lbs
1.720	-	-	-	206 lbs
1.700	198 lbs	174 lbs	210 lbs	229 lbs
1.650	232 lbs	194 lbs	235 lbs	-
1.600	-	-	-	-
1.550	-	-	-	-
1.500	-	-	-	-
1.450	-	-	-	-
1.420	-	-	-	-
1.400	-	-	-	-
1.350	-	-	-	-
1.300	-	-	-	-
1.250	393 lbs	370 lbs	435 lbs	413 lbs
1.200	414 lbs	390 lbs	466 lbs	436 lbs
1.150	436 lbs	409 lbs	485 lbs	459 lbs
1.100	458 lbs	429 lbs	510 lbs	485 lbs
1.050	-	-	-	-
1.000	-	-	-	-
0.950	-	-	-	-
Coil Bind	1.000	1.000	1.000	1.000
Retainers	-	-	-	-
7° Titanium Retainer	87006 (8mm)	87006 (8mm)	87006 (8mm)	87006 (8mm)
7° Titanium Retainer	-	-	-	-
7° Titanium Ret 3/8	-	-	-	-
Titanium Ret 10°	-	-	-	-
Titanium Super 7°	86757-86757S	86757	86757 or 86757S	86757
7° Steel Retainer 5/16	87006S (8mm)	87006S (8mm)	87006S (8mm)	87006S (8mm)
7° Steel Retainer 11/32	87036	87036 or 86757S	87036	87036
7° Steel Retainer 3/8	-	-	-	-
Steel Retainer 10°	-	-	-	-
Seat Cup	68923	68923	-	-
Seat Disc	68948	68948	68948	68948

O.D./I.D. Outer	1.354/940	1.360/1.000	1.380/1.00	1.385/1.060
O.D./I.D. Middle	-	-	-	-
O.D./I.D. Inner	-	-	.980/.710	1.050/.800
Installed Height	1.850	1.550	1.950	1.650
Rate	415	228	402	258
Part #	68143	68147	68851	68324
Type	Single	Single	Dual	Dual
Color Code	None	None	None	Orange/Green
Damper	Yes	No	No	No
Free Length	2.075	1.925	2.440	2.150
Wire Diameter	.208	0.177	.180/.135	.160/.127
Material	Silicone	Silicone	-	Silicone
2.300	-	-	-	-
2.250	-	-	-	-
2.200	-	-	-	-
2.150	-	-	-	-
2.100	-	-	-	-
2.050	-	-	-	-
2.000	-	-	116 lbs	-
1.950	-	-	136 lbs	-
1.900	72 lbs	-	155 lbs	-
1.850	92 lbs	-	175 lbs	-
1.800	113 lbs	-	194 lbs	-
1.750	134 lbs	-	214 lbs	86 lbs
1.720	-	-	-	-
1.700	155 lbs	-	233 lbs	96 lbs
1.650	175 lbs	57 lbs	253 lbs	108 lbs
1.600	196 lbs	67 lbs	273 lbs	118 lbs
1.550	217 lbs	78 lbs	294 lbs	129 lbs
1.500	238 lbs	89 lbs	315 lbs	146 lbs
1.450	258 lbs	100 lbs	337 lbs	161 lbs
1.420	-	-	-	-
1.400	279 lbs	110 lbs	359 lbs	172 lbs
1.350	300 lbs	120 lbs	382 lbs	186 lbs
1.300	-	130 lbs	406 lbs	197 lbs
1.250	-	141 lbs	431 lbs	211 lbs
1.200	-	153 lbs	456 lbs	227 lbs
1.150	-	165 lbs	-	240 lbs
1.100	-	177 lbs	-	254 lbs
1.050	-	-	-	269 lbs
1.000	-	-	-	283 lbs
0.950	-	-	-	-
Coil Bind	1.280	1.000	1.130	0.910
Retainers	-	-	-	-
7° Titanium Retainer	-	-	87040 +.050*	-
7° Titanium Retainer	-	-	-	87041
7° Titanium Ret 3/8	-	-	-	87042
Titanium Ret 10°	-	-	-	86067M
Titanium Super 7°	-	-	86757	-
7° Steel Retainer 5/16	-	87044	87047 +.050*	87044
7° Steel Retainer 11/32	-	-	87050 or 86757S	87050
7° Steel Retainer 3/8	-	87021 Buick 11°	-	87049
Steel Retainer 10°	-	-	-	87060M
Seat Cup	-	-	-	-
Seat Disc	-	-	68941A	68943

O.D./I.D. Outer	1.400/1.045	1.405/1.055	1.430/1.040	1.440/1.050
O.D./I.D. Middle	-	-	-	-
O.D./I.D. Inner	1.040/.770	1.045/.780	-	.975/.700
Installed Height	1.700	1.600	1.650	1.800
Rate	382	338	367	450
Part #	68405	68404	68305X1	68390X3
Type	Dual	Dual	Single	Dual
Color Code	Orange/White	Blue/Grey	Grey	Yellow/White
Damper	No	No	Yes	Yes
Free Length	1.975	1.920	1.900	2.100
Wire Diameter	.176/.133	.175/.134	0.200	.190/.133
Material	Silicone	Silicone	Silicone	Silicone
2.300	-	-	-	-
2.250	-	-	-	-
2.200	-	-	-	-
2.150	-	-	-	-
2.100	-	-	-	-
2.050	-	-	-	-
2.000	-	-	-	-
1.950	-	-	-	-
1.900	-	-	-	76 lbs
1.850	-	-	-	96 lbs
1.800	76 lbs	-	-	116 lbs
1.750	92 lbs	-	51 lbs	136 lbs
1.720	-	-	-	-
1.700	110 lbs	82 lbs	68 lbs	156 lbs
1.650	129 lbs	96 lbs	84 lbs	175 lbs
1.600	146 lbs	113 lbs	101 lbs	194 lbs
1.550	165 lbs	128 lbs	116 lbs	215 lbs
1.500	184 lbs	143 lbs	138 lbs	238 lbs
1.450	204 lbs	157 lbs	156 lbs	261 lbs
1.420	-	-	-	-
1.400	221 lbs	177 lbs	174 lbs	284 lbs
1.350	240 lbs	192 lbs	191 lbs	307 lbs
1.300	258 lbs	208 lbs	210 lbs	331 lbs
1.250	278 lbs	225 lbs	229 lbs	355 lbs
1.200	297 lbs	244 lbs	250 lbs	389 lbs
1.150	316 lbs	263 lbs	268 lbs	-
1.100	338 lbs	282 lbs	-	-
1.050	360 lbs	302 lbs	-	-
1.000	380 lbs	319 lbs	-	-
0.950	-	-	-	-
Coil Bind	0.980	0.950	1.050	1.110
Retainers	-	-	-	-
7° Titanium Retainer	87040	87040	87040	-
7° Titanium Retainer	-	-	-	87041
7° Titanium Ret 3/8	87042	87042	87042	87042
Titanium Ret 10°	-	-	86067C	86067M
Titanium Super 7°	-	86771	-	86767M
7° Steel Retainer 5/16	87044	87044	87044	87047
7° Steel Retainer 11/32	87050	87050	87050	87048
7° Steel Retainer 3/8	87049	87049	87049	87049
Steel Retainer 10°	-	87060M	-	87060M
Seat Cup	68930	68930	68930 or 68951	68931
Seat Disc	68938 or 68940	68938 or 68940	-	68941A or 68941

O.D./I.D. Outer	1.440/1.070	1.440/1.085	1.450/1.065	1.455/975	1.455/1.050
O.D./I.D. Middle	-	-	-	-	-
O.D./I.D. Inner	1.085/.811	1.075/.795	.975/.705	-	-
Installed Height	1.800	1.850	1.900	1.850	1.700
Rate	324	340	463	300	350
Part #	68100X200	68100X209	68382	68313	68314
Type	Dual	Dual	Dual	Single	Single
Color Code	None	None	Purple/Orange	None	None
Damper	No	No	Yes	Yes	Yes
Free Length	2.370	2.360	2.220	2.250	2.050
Wire Diameter	.179/.133	.178/.140	.198/.133	.193	-
Material	Silicone	Silicone	Silicone	-	-
2.300	-	-	-	-	-
2.250	-	-	-	-	-
2.200	-	-	-	-	-
2.150	-	-	-	-	-
2.100	-	-	-	-	-
2.050	-	-	-	-	-
2.000	-	-	91 lbs	-	-
1.950	-	135 lbs	110 lbs	-	-
1.900	83 lbs	150 lbs	137 lbs	-	-
1.850	94 lbs	166 lbs	159 lbs	104 lbs	-
1.800	107 lbs	182 lbs	179 lbs	118 lbs	67 lbs
1.750	121 lbs	197 lbs	201 lbs	132 lbs	86 lbs
1.720	-	-	-	-	-
1.700	134 lbs	212 lbs	221 lbs	147 lbs	101 lbs
1.650	147 lbs	229 lbs	246 lbs	162 lbs	118 lbs
1.600	161 lbs	245 lbs	269 lbs	176 lbs	136 lbs
1.550	175 lbs	262 lbs	292 lbs	190 lbs	151 lbs
1.500	190 lbs	279 lbs	315 lbs	207 lbs	168 lbs
1.450	205 lbs	296 lbs	341 lbs	222 lbs	185 lbs
1.420	-	-	-	-	-
1.400	221 lbs	314 lbs	364 lbs	238 lbs	203 lbs
1.350	238 lbs	331 lbs	391 lbs	254 lbs	220 lbs
1.300	255 lbs	349 lbs	415 lbs	271 lbs	238 lbs
1.250	274 lbs	368 lbs	443 lbs	288 lbs	257 lbs
1.200	291 lbs	388 lbs	477 lbs	305 lbs	276 lbs
1.150	309 lbs	-	-	322 lbs	298 lbs
1.100	330 lbs	-	-	-	318 lbs
1.050	-	-	-	-	-
1.000	-	-	-	-	-
0.950	-	-	-	-	-
Coil Bind	1.030	1.110	1.115	1.085	1.030
Retainers	-	-	-	-	-
7° Titanium Retainer	-	-	-	87040	87040
7° Titanium Retainer	87041	87041	87041	-	-
7° Titanium Ret 3/8	87042	-	87042	87042	87042
Titanium Ret 10°	87065	87065	86067M	86067A	86067C
Titanium Super 7°	86767M	86767M	86767M	-	-
7° Steel Retainer 5/16	87047	-	87047	87044	87044
7° Steel Retainer 11/32	87062	87062	87048	87050	87050
7° Steel Retainer 3/8	87063	87063	87049	87049	87039
Steel Retainer 10°	87060	87060	87060M	-	-
Seat Cup	68931	68931	68934	68931	-
Seat Disc	68943	68938 or 68940	68941A	-	-

O.D./I.D. Outer	1.500/1.050	1.500/1.050	1.500/1.120
O.D./I.D. Middle	-	-	-
O.D./I.D. Inner	.726	.726	1.030/.755
Installed Height	2.175	2.150	1.900
Rate	780	780	452
Part #	68855	68857	68340
Type	Dual	Dual	Dual
Color Code	-	-	Green
Damper	Yes	Yes	Yes
Free Length	-	-	2.270
Wire Diameter	-	-	.191/.141
Material	Super Clean Silicone	Super Clean Silicone	Silicone
2.175	420 lbs	-	-
2.150	-	375 lbs	-
2.100	-	-	-
2.050	-	-	-
2.000	-	-	-
1.950	-	-	100 lbs
1.900	-	-	118 lbs
1.850	-	-	143 lbs
1.800	-	-	165 lbs
1.750	-	-	184 lbs
1.720	-	-	-
1.700	-	-	206 lbs
1.675	810 lbs	-	-
1.650	-	765 lbs	228 lbs
1.600	-	-	249 lbs
1.550	-	-	271 lbs
1.500	-	-	293 lbs
1.450	-	-	313 lbs
1.420	1005 lbs	-	-
1.400	-	960 lbs	336 lbs
1.350	-	-	359 lbs
1.300	-	-	384 lbs
1.250	-	-	407 lbs
1.200	-	1116 lbs	437 lbs
1.175	1200 lbs	-	-
1.150	-	-	477 lbs
1.100	-	-	-
1.050	-	-	-
1.000	-	-	-
0.950	-	-	-
Coil Bind	1.130	1.130	1.080
Retainers	-	-	-
7° Titanium Retainer	-	-	-
7° Titanium Retainer	-	-	-
7° Titanium Ret 3/8	-	-	-
Titanium Ret 10°	-	-	86067
Titanium Super 7°	86784 or 86785	86784 or 86785	86767
7° Steel Retainer 5/16	-	-	87044
7° Steel Retainer 11/32	-	-	87062
7° Steel Retainer 3/8	-	-	87053
Steel Retainer 10°	-	-	87055
Seat Cup	68941A-16	68941A-16	68936
Seat Disc	-	-	68938 or 68940

O.D./I.D. Outer	1.505/990	1.505/1.130	1.530/1.125
O.D./I.D. Middle	-	-	-
O.D./I.D. Inner	-	1.085/.805	1.000/.745
Installed Height	1.850	1.900	1.950
Rate	342	353	501
Part #	68302X2	68101X202	68705
Type	Single	Dual	Dual
Color Code	Green/White	None	Gold/Pink
Damper	Yes	No	Yes
Free Length	2.170	2.390	2.360
Wire Diameter	0.204	.192/.148	.205/.134
Material	Silicone	Silicone	Super Clean Silicone
2.175	-	-	-
2.150	-	-	-
2.100	-	-	-
2.050	-	-	-
2.000	-	116 lbs	95 lbs
1.950	61 lbs	131 lbs	115 lbs
1.900	77 lbs	146 lbs	134 lbs
1.850	91 lbs	162 lbs	160 lbs
1.800	107 lbs	178 lbs	183 lbs
1.750	121 lbs	194 lbs	205 lbs
1.720	-	-	227 lbs
1.700	136 lbs	211 lbs	250 lbs
1.675	-	-	273 lbs
1.650	150 lbs	229 lbs	297 lbs
1.600	164 lbs	249 lbs	320 lbs
1.550	179 lbs	268 lbs	345 lbs
1.500	194 lbs	287 lbs	370 lbs
1.450	211 lbs	304 lbs	396 lbs
1.420	-	-	422 lbs
1.400	229 lbs	323 lbs	451 lbs
1.350	250 lbs	342 lbs	479 lbs
1.300	270 lbs	363 lbs	511 lbs
1.250	292 lbs	383 lbs	548 lbs
1.200	-	-	-
1.175	-	-	-
1.150	-	-	-
1.100	-	-	-
1.050	-	-	-
1.000	-	-	1.125
0.950	-	-	-
Coil Bind	1.250	1.140	-
Retainers	-	-	-
7° Titanium Retainer	86033	-	-
7° Titanium Retainer	87041	-	86067D
7° Titanium Ret 3/8	-	-	86767
Titanium Ret 10°	86067M	86067B	-
Titanium Super 7°	86767M	86781	-
7° Steel Retainer 5/16	87047	-	-
7° Steel Retainer 11/32	87062	87054	87055M
7° Steel Retainer 3/8	87063	87053	68933
Steel Retainer 10°	87060	87055	68938 or 68940
Seat Cup	68936	68936	-
Seat Disc	-	68943	-

O.D./I.D. Outer	1.550/1.130	1.550/1.135	1.560/1.140	1.555/1.155
O.D./I.D. Middle	-	-	-	-
O.D./I.D. Inner	1.025/.735	.812	1.035/.755	0.726
Installed Height	1.900	1.850	1.950	2.300
Rate	502	550	473	1015
Part #	68804H	68543	68369	68854
Type	Dual	Dual	Dual	Dual
Color Code	None	None	Yellow/Purple	-
Damper	Yes	No	Yes	Yes
Free Length	2.500	-	2.460	-
Wire Diameter	.202/.140	-	.207/.140	-
Material	Super Clean Silicone	-	Silicone	Super Clean Silicone
2.300	-	-	-	425
2.250	-	-	-	-
2.200	-	-	-	-
2.150	-	-	-	-
2.100	-	-	-	-
2.050	-	-	173 lbs	-
2.000	-	-	192 lbs	-
1.950	-	-	215 lbs	-
1.900	246 lbs	240 lbs	236 lbs	-
1.850	270 lbs	262 lbs	260 lbs	-
1.800	293 lbs	295 lbs	281 lbs	932 lbs
1.750	317 lbs	314 lbs	301 lbs	-
1.700	340 lbs	337 lbs	322 lbs	-
1.650	364 lbs	363 lbs	345 lbs	-
1.600	387 lbs	386 lbs	366 lbs	-
1.550	416 lbs	414 lbs	390 lbs	1186 lbs
1.500	442 lbs	442 lbs	413 lbs	-
1.450	470 lbs	472 lbs	437 lbs	-
1.400	497 lbs	502 lbs	462 lbs	-
1.350	526 lbs	532 lbs	489 lbs	-
1.300	554 lbs	570 lbs	515 lbs	1440 lbs
1.250	583 lbs	-	546 lbs	-
1.200	611 lbs	625 lbs	584 lbs	-
1.150	641 lbs	651 lbs	-	-
1.100	-	-	-	-
1.050	-	-	-	-
1.000	-	-	-	-
0.950	-	-	-	-
Coil Bind	1.095	1.100	1.100	1.230
RETAINERS	-	-	-	-
7° Titanium Retainer	-	-	-	-
7° Titanium Retainer	-	-	-	-
7° Titanium Ret 3/8	87063M	-	-	-
Titanium Ret 10°	86067D	-	86067B	-
Titanium Super 7°	86781	86781	86781	86784 or 86785
7° Steel Retainer 5/16	-	-	-	-
7° Steel Retainer 11/32	-	-	-	-
7° Steel Retainer 3/8	-	-	87053	-
Steel Retainer 10°	87055	-	87055M or 87064	-
Seat Cup	68953X1	-	68953X1	68941A-16
Seat Disc	68938/68940	68943	68938 or 68940	-

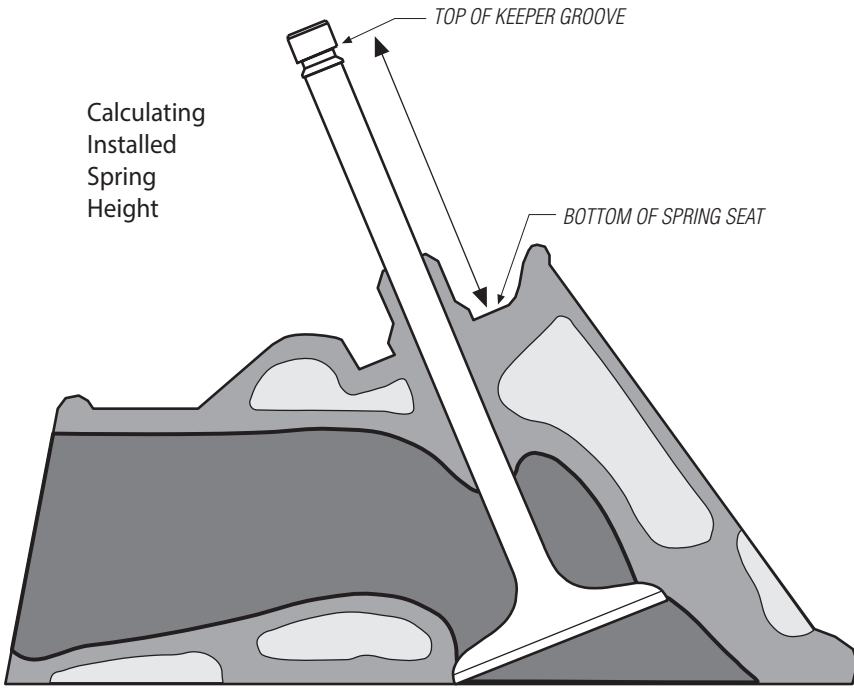
O.D./I.D. Outer	1.560/1.115	1.560/1.150	1.560/1.145
O.D./I.D. Middle	-	-	-
O.D./I.D. Inner	1.000/.725	1.040/.745	1.040/.745
Installed Height	2.100	2.000	2.000
Rate	600	516	508
Part #	68803H	68765	68775
Type	Dual	Dual	Dual
Color Code	-	Gold/Green	Gold/Orange
Damper	Yes	Yes	Yes
Free Length	2.560	2.550	2.520
Wire Diameter	.221/.138	.206/.148	.206/.147
Material		Super Clean Silicone	Super Clean Silicone
2.300		-	-
2.250		-	-
2.200		-	-
2.150		-	-
2.100	248 lbs	182 lbs	196 lbs
2.050	279 lbs	208 lbs	217 lbs
2.000	307 lbs	229 lbs	237 lbs
1.950	340 lbs	253 lbs	262 lbs
1.900	371 lbs	277 lbs	284 lbs
1.850	399 lbs	302 lbs	310 lbs
1.800	429lbs	326 lbs	333 lbs
1.750	460 lbs	352 lbs	359 lbs
1.700	490lbs	375 lbs	381 lbs
1.650	515 lbs	400 lbs	406 lbs
1.600	548 lbs	426 lbs	431 lbs
1.550	584 lbs	453 lbs	456 lbs
1.500	618 lbs	481 lbs	481 lbs
1.450	652 lbs	508 lbs	508 lbs
1.400	688 lbs	535 lbs	536 lbs
1.350	726 lbs	568 lbs	565 lbs
1.300	765 lbs	595 lbs	593 lbs
1.250	807 lbs	634 lbs	628 lbs
1.200	871 lbs	-	-
1.150		-	-
1.100		-	-
1.050		-	-
1.000		-	-
0.950		-	-
Coil Bind	1.140	1.150	1.160
RETAINERS		-	-
7° Titanium Retainer		-	-
7° Titanium Retainer		-	-
7° Titanium Ret 3/8		-	-
Titanium Ret 10°	86067D	86067D	86067D
Titanium Super 7°	86785	86781	86781
7° Steel Retainer 5/16		-	-
7° Steel Retainer 11/32		-	-
7° Steel Retainer 3/8		-	-
Steel Retainer 10°	87055M	87064	87064
Seat Cup	68953X1	68953X1	68953X1
Seat Disc	68941A	68938 or 68940	68938 or 68940

O.D./I.D. Outer	1.560/1.145	1.560/1.145	1.600/1.170
O.D./I.D. Middle	-	-	-
O.D./I.D. Inner	1.040/.745	1.040/.745	1.060/.765
Installed Height	2.000	2.000	2.050
Rate	521	546	547
Part #	68785	68795	68805
Type	Dual	Dual	Dual
Color Code	Gold/Lt. Blue	Gold/Yellow	Red/Blue
Damper	Yes	Yes	Yes
Free Length	2.620	2.620	2.630
Wire Diameter	.206/.147	.210/.147	.218/.148
Material	Super Clean Silicone	Super Clean Silicone	Super Clean Silicone
2.300	-	-	-
2.250	-	-	-
2.200	-	-	-
2.150	-	-	-
2.100	203 lbs	237 lbs	233 lbs
2.050	226 lbs	262 lbs	258 lbs
2.000	244 lbs	284 lbs	280 lbs
1.950	274 lbs	310 lbs	305 lbs
1.900	298 lbs	335 lbs	329 lbs
1.850	322 lbs	359 lbs	353 lbs
1.800	352 lbs	381 lbs	379 lbs
1.750	376 lbs	408 lbs	406 lbs
1.700	399 lbs	431 lbs	431 lbs
1.650	423 lbs	457 lbs	461 lbs
1.600	448 lbs	485 lbs	489 lbs
1.550	469 lbs	510 lbs	516 lbs
1.500	494 lbs	538 lbs	544 lbs
1.450	532 lbs	567 lbs	574 lbs
1.400	560 lbs	595 lbs	603 lbs
1.350	589 lbs	627 lbs	633 lbs
1.300	621 lbs	660 lbs	663 lbs
1.250	654 lbs	699 lbs	695 lbs
1.200	-	-	-
1.150	-	-	-
1.100	-	-	-
1.050	-	-	-
1.000	-	-	-
0.950	-	-	-
Coil Bind	1.160	1.160	1.180
RETAINERS	-	-	-
7° Titanium Retainer	-	-	-
7° Titanium Retainer	-	-	-
7° Titanium Ret 3/8	-	-	-
Titanium Ret 10°	86067D	86067D	86068
Titanium Super 7°	86781	86781	86780
7° Steel Retainer 5/16	-	-	-
7° Steel Retainer 11/32	-	-	-
7° Steel Retainer 3/8	-	-	-
Steel Retainer 10°	87064	87064	87056
Seat Cup	68953X1	68953X1	68955
Seat Disc	68938 or 68940	68938 or 68940	68938/68940

O.D./I.D. Outer	1.600/1.175	1.610/1.215	1.615/1.175
O.D./I.D. Middle	-	1.205/.890	-
O.D./I.D. Inner	1.160/.850	.890/.665	1.060/.775
Installed Height	2.100	1.850	2.100
Rate	552	514	530
Part #	68844	68694	68755
Type	Dual	Triple	Dual
Color Code	Yellow	None	Gold
Damper	No	No	Yes
Free Length	2.554	2.440	2.665
Wire Diameter	.221/.155	.199/.155/.112	.225/.147
Material	Super Clean Silicone	Silicone	Super Clean Silicone
2.300	-	-	-
2.250	-	-	-
2.200	-	-	234 lbs
2.150	-	-	261 lbs
2.100	229 lbs	-	287 lbs
2.050	253 lbs	-	312 lbs
2.000	276 lbs	-	336 lbs
1.950	305 lbs	161 lbs	361 lbs
1.900	331 lbs	181 lbs	388 lbs
1.850	357 lbs	203 lbs	414 lbs
1.800	384 lbs	226 lbs	442 lbs
1.750	409 lbs	250 lbs	466 lbs
1.700	435 lbs	273 lbs	491 lbs
1.650	462 lbs	305 lbs	521 lbs
1.600	489 lbs	329 lbs	548 lbs
1.550	516 lbs	355 lbs	578 lbs
1.500	544 lbs	380 lbs	610 lbs
1.450	572 lbs	404 lbs	640 lbs
1.400	601 lbs	431 lbs	671 lbs
1.350	626 lbs	456 lbs	706 lbs
1.300	660 lbs	494 lbs	738 lbs
1.250	-	519 lbs	-
1.200	-	545 lbs	-
1.150	-	572 lbs	-
1.100	-	-	-
1.050	-	-	-
1.000	-	-	-
0.950	-	-	-
Coil Bind	1.210	1.050	1.190
RETAINERS	-	-	-
7° Titanium Retainer	-	-	-
7° Titanium Retainer	-	-	-
7° Titanium Ret 3/8	-	-	-
Titanium Ret 10°	86068	86069	86068
Titanium Super 7°	86780	-	86780
7° Steel Retainer 5/16	-	-	-
7° Steel Retainer 11/32	-	-	-
7° Steel Retainer 3/8	-	-	-
Steel Retainer 10°	-	87056	-
Seat Cup	68955	68955	68955
Seat Disc	68943	68939 or 68941	68938 or 68940

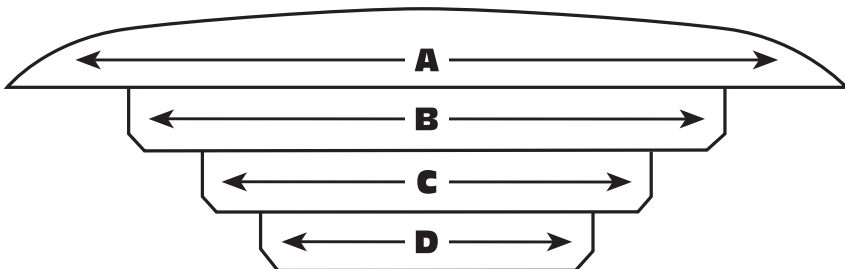
O.D./I.D. Outer	1.650/1.205	1.650/1.205
O.D./I.D. Middle	1.195/.880	1.200/.880
O.D./I.D. Inner	.880/.640	.875/.640
Installed Height	2.100	2.200
Rate	687	692
Part #	68547	68548
Type	Triple	Triple
Color Code	Red/Purple	Red/Purple
Damper	No	No
Free Length	2.520	2.620
Wire Diameter	.215/.162/.119	.215/.162/.119
Material	Super Clean Silicone	Super Clean Silicone
2.300	-	-
2.250	-	-
2.200	-	279 lbs
2.150	255 lbs	312 lbs
2.100	287 lbs	343 lbs
2.050	321 lbs	375 lbs
2.000	351 lbs	405 lbs
1.950	380 lbs	439 lbs
1.900	416 lbs	470 lbs
1.850	448 lbs	502 lbs
1.800	480 lbs	534 lbs
1.750	512 lbs	570 lbs
1.700	541 lbs	602 lbs
1.650	580 lbs	636 lbs
1.600	610 lbs	667 lbs
1.550	645 lbs	705 lbs
1.500	679 lbs	740 lbs
1.450	715 lbs	772 lbs
1.400	750 lbs	810 lbs
1.350	790 lbs	850 lbs
1.300	825 lbs	890 lbs
1.250	863 lbs	927 lbs
1.200	905 lbs	966 lbs
1.150	947 lbs	1006 lbs
1.100	-	-
1.050	-	-
1.000	-	-
0.950	-	-
Coil Bind	1.085	1.080
RETAINERS	-	-
7° Titanium Retainer	-	-
7° Titanium Retainer	-	-
7° Titanium Ret 3/8	-	-
Titanium Ret 10°	86069	86069
Titanium Super 7°	86769	86769
7° Steel Retainer 5/16	-	-
7° Steel Retainer 11/32	-	-
7° Steel Retainer 3/8	-	-
Steel Retainer 10°	87056	87056
Seat Cup	68955	68955
Seat Disc	-	-

SPRING INSTALLED HEIGHT

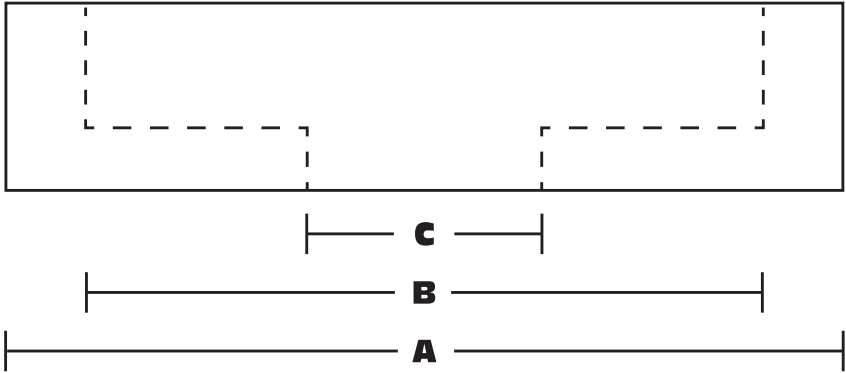


Measure the height from top of keeper groove to bottom of spring seat. Refer to the "height" column of your retainer and add or subtract the amount given from the original overall measurement.

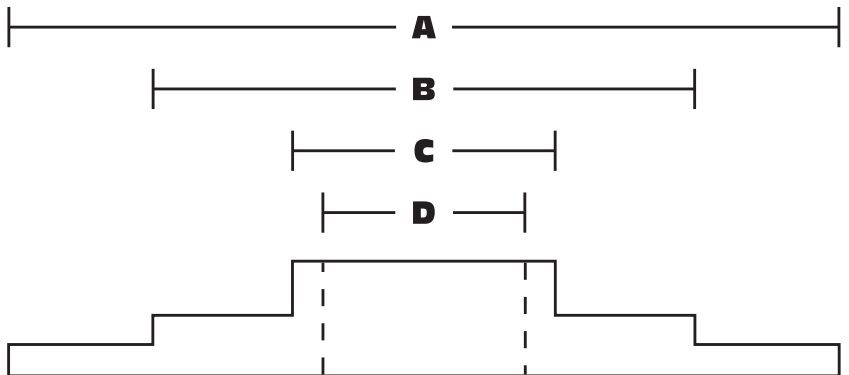
RETAINER MEASUREMENTS



Spring Seat Cup



Spring Seat Disc





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