

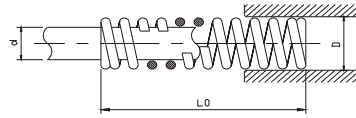
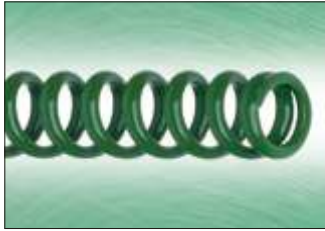


COMPRESSION SPRINGS



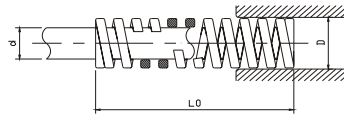
Note: MDL Springs are designed to be interchangeable with springs from "Danyl/IEM" of the same size, color and type.

"Danyl/IEM" is a registered trademark of Connell Limited Partnership. MDL Mold & Die Components, Inc. is not connected, in any way, to Danyl/IEM or Connell Limited Partnership.



Sizes
3/8" to 5/8"
Round Wire
Construction

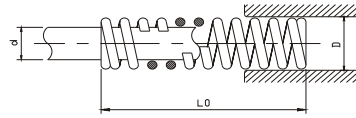
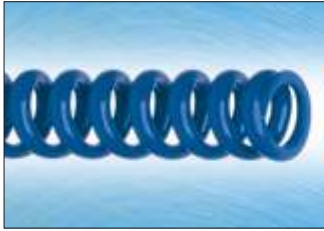
Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
					Maximum Operating Deflection (40% of LO)		Total Travel to Solid	
D	d	LO			Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
3/8	3/16	1	SSG.006.004	2.6	10.4	.4	14	.54
		1 1/4	SSG.006.005	2	10	.5	13.6	.68
		1 1/2	SSG.006.006	1.6	9.7	.6	13.3	.82
		1 3/4	SSG.006.007	1.4	9.6	.7	13.2	.97
		2	SSG.006.008	1.2	9.6	.8	13.2	1.11
		2 1/2	SSG.006.010	.9	9.3	1	13	1.4
		3	SSG.006.012	.8	9.1	1.2	12.6	1.66
		12	SSG.006.048	.2	8.6	4.8	11.9	6.62
1/2	9/32	1	SSG.008.004	5.1	20.3	.4	27	.53
		1 1/4	SSG.008.005	3.8	19.2	.5	26	.67
		1 1/2	SSG.008.006	3.1	18.7	.6	25.9	.83
		1 3/4	SSG.008.007	2.6	18.1	.7	25	.96
		2	SSG.008.008	2.2	17.7	.8	24.1	1.09
		2 1/2	SSG.008.010	1.7	17.3	1	23.9	1.38
		3	SSG.008.012	1.4	17.3	1.2	23.9	1.67
		3 1/2	SSG.008.014	1.2	16.8	1.4	23.5	1.96
5/8	1 1/32	1	SSG.010.004	10.2	40.8	.4	54	.53
		1 1/4	SSG.010.005	7.7	39.4	.5	51.4	.67
		1 1/2	SSG.010.006	6	36.1	.6	48.8	.81
		1 3/4	SSG.010.007	5	34.8	.7	46.9	.94
		2	SSG.010.008	4.3	34.7	.8	46.9	1.09
		2 1/2	SSG.010.010	3.4	33.8	1	46.7	1.38
		3	SSG.010.012	2.7	32.8	1.2	45.1	1.65
		3 1/2	SSG.010.014	2.3	32.4	1.4	44.8	1.94
		4	SSG.010.016	2	32.1	1.6	44.8	2.23
		12	SSG.010.048	.6	30.5	4.8	42.9	6.75



Sizes
3/4" to 2 1/2"
Rectangular Wire
Construction

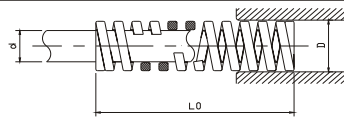
Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
					Maximum Operating Deflection (40% of LO)		Total Travel to Solid	
D	d	LO			Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
3/4	3/8	1	SSG.012.004	32	128	.4	162	.51
		1 1/4	SSG.012.005	24.4	123	.5	158	.65
		1 1/2	SSG.012.006	19.3	116	.6	150	.78
		1 3/4	SSG.012.007	16.2	113	.7	150	.92
		2	SSG.012.008	14.2	113	.8	150	1.06
		2 1/2	SSG.012.010	11	111	1	147	1.33
		3	SSG.012.012	9.2	111	1.2	147	1.62
		3 1/2	SSG.012.014	7.7	108	1.4	144	1.87
		4	SSG.012.016	6.8	108	1.6	144	2.16
		4 1/2	SSG.012.018	5.9	106	1.8	143	2.42
		5	SSG.012.020	5.3	106	2	143	2.69
		5 1/2	SSG.012.022	4.8	106	2.2	143	2.9
		6	SSG.012.024	4.5	106	2.4	143	3.26
		12	SSG.012.048	2.2	104	4.8	140	6.48

Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
					Maximum Operating Deflection (40% of LO)		Total Travel to Solid	
D	d	LO			Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
1	1/2	1	SSG.016.004	61	244	.4	311	.51
		1 1/4	SSG.016.005	46	231	.5	299	.65
		1 1/2	SSG.016.006	36.9	221	.6	292	.79
		1 3/4	SSG.016.007	30.5	213	.7	281	.92
		2	SSG.016.008	26.5	212	.8	280	1.06
		2 1/2	SSG.016.010	20.4	204	1	270	1.32
		3	SSG.016.012	16.7	200	1.2	265	1.59
		3 1/2	SSG.016.014	14.1	197	1.4	261	1.85
		4	SSG.016.016	12.1	193	1.6	255	2.11
		4 1/2	SSG.016.018	10.7	192	1.8	254	2.37
		5	SSG.016.020	9.6	192	2	254	2.65
		5 1/2	SSG.016.022	8.7	192	2.2	255	2.93
		6	SSG.016.024	8	192	2.4	255	3.21
		7	SSG.016.028	6.9	192	2.8	255	3.67
		8	SSG.016.032	6	192	3.2	255	4.33
		12	SSG.016.048	4	192	4.8	255	6.5
1 1/4	5/8	1 1/2	SSG.020.006	57.8	347	.6	433	.75
		1 3/4	SSG.020.007	47.5	332	.7	415	.87
		2	SSG.020.008	40.7	325	.8	411	1.01
		2 1/2	SSG.020.010	31.4	315	1	400	1.26
		3	SSG.020.012	26.2	315	1.2	400	1.53
		3 1/2	SSG.020.014	22.2	311	1.4	400	1.80
		4	SSG.020.016	19.2	307	1.6	397	2.07
		4 1/2	SSG.020.018	16.9	304	1.8	397	2.35
		5	SSG.020.020	15	300	2	390	2.6
		5 1/2	SSG.020.022	13.5	297	2.2	386	2.86
		6	SSG.020.024	12.3	295	2.4	383	3.11
		7	SSG.020.028	10.4	291	2.8	377	3.63
		8	SSG.020.032	9.1	289	3.2	375	4.14
		10	SSG.020.040	7.2	287	4	369	5.15
		12	SSG.020.048	5.9	284	4.8	366	6.18
1 1/2	3/4	2	SSG.024.008	60.3	483	.8	609	1.01
		2 1/2	SSG.024.010	45.8	458	1	582	1.27
		3	SSG.024.012	37.6	451	1.2	575	1.53
		3 1/2	SSG.024.014	31.8	445	1.4	572	1
		4	SSG.024.016	27.3	437	1.6	565	2.07
		4 1/2	SSG.024.018	24.1	433	1.8	561	2.33
		5	SSG.024.020	21.6	432	2	559	2.59
		5 1/2	SSG.024.022	19.4	427	2.2	559	2.88
		6	SSG.024.024	17.6	423	2.4	549	3.12
		7	SSG.024.028	15	420	2.8	546	3.64
		8	SSG.024.032	13	416	3.2	528	4.06
		10	SSG.024.040	10.3	412	4	524	5.09
		12	SSG.024.048	8.5	407	4.8	516	6.1
2	1	2 1/2	SSG.032.010	89.7	897	1	1148	1.28
		3	SSG.032.012	71.8	861	1.2	1098	1.53
		3 1/2	SSG.032.014	59.8	837	1.4	1076	1.8
		4	SSG.032.016	51.3	821	1.6	1062	2.07
		4 1/2	SSG.032.018	44.8	806	1.8	1044	2.33
		5	SSG.032.020	39.9	797	2	1029	2.58
		5 1/2	SSG.032.022	36	792	2.2	1029	2.86
		6	SSG.032.024	32.6	782	2.4	1017	3.12
		7	SSG.032.028	27.6	773	2.8	1007	3.65
		8	SSG.032.032	23.7	758	3.2	984	4.15
		10	SSG.032.040	18.8	752	4	978	5.2
		12	SSG.032.048	15.4	738	4.8	960	6.23
2 1/2	1 1/2	3	SSG.040.012	110	1320	1.2	1640	1.49
		3 1/2	SSG.040.014	90.1	1261	1.4	1575	1.75
		4	SSG.040.016	76.4	1222	1.6	1528	2
		4 1/2	SSG.040.018	66.2	1192	1.8	1490	2.25
		5	SSG.040.020	58	1160	2	1456	2.51
		6	SSG.040.024	47.7	1145	2.4	1440	3.02
		7	SSG.040.028	40.1	1122	2.8	1412	3.52
		8	SSG.040.032	34.5	1104	3.2	1390	4.03
		10	SSG.040.040	26.8	1072	4	1345	5.02
		12	SSG.040.048	22.1	1061	4.8	1330	6.02



Sizes
3/8" to 5/8"
Round Wire
Construction

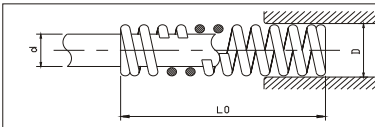
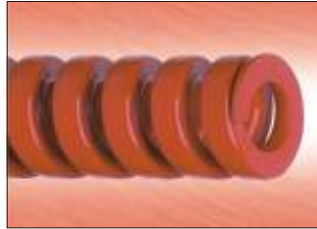
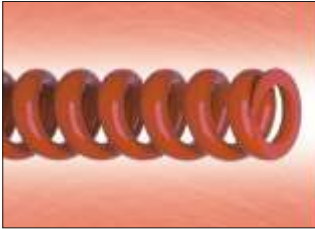
Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
					Maximum Operating Deflection (37 1/2% of L0)		Total Travel to Solid	
D	d	L0			Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
3/8	3/16	1	SSB.006.004	7.2	26.9	.37	30.8	.43
		1 1/4	SSB.006.005	5.6	26.1	.47	30	.54
		1 1/2	SSB.006.006	4.5	25.3	.56	29.3	.65
		1 3/4	SSB.006.007	3.8	24.9	.66	28.8	.76
		2	SSB.006.008	3.3	24.5	.75	28.4	.87
		2 1/2	SSB.006.010	2.6	24.1	.94	28.3	1.1
		3	SSB.006.012	2.1	23.7	1.12	28	1.33
		12	SSB.006.048	.5	23	4.5	27.6	5.42
1/2	9/32	1	SSB.008.004	13	48.8	.37	55.9	.43
		1 1/4	SSB.008.005	10	46.8	.47	54.9	.55
		1 1/2	SSB.008.006	8.1	45.8	.56	54.6	.67
		1 3/4	SSB.008.007	6.7	44.2	.66	53.2	.79
		2	SSB.008.008	5.8	43.7	.75	53	.91
		2 1/2	SSB.008.010	4.5	42.4	.94	52	1.15
		3	SSB.008.012	3.7	41.7	1.12	50.8	1.37
		3 1/2	SSB.008.014	3.2	41.9	1.31	51.3	1.62
		12	SSB.008.048	.9	39.8	4.5	50.5	5.72
5/8	1 1/32	1	SSB.010.004	19.3	72.4	.37	81	.42
		1 1/4	SSB.010.005	14.3	67	.47	75.8	.53
		1 1/2	SSB.010.006	11.5	64.7	.56	74.8	.65
		1 3/4	SSB.010.007	9.5	62.5	.66	72.4	.76
		2	SSB.010.008	8.1	61	.75	70.7	.87
		2 1/2	SSB.010.010	6.3	58.9	.94	69	1.1
		3	SSB.010.012	5.1	57.6	1.12	68.1	1.33
		3 1/2	SSB.010.014	4.3	57.1	1.31	67.9	1.56
		4	SSB.010.016	3.8	56.7	1.5	67.7	1.79
		12	SSB.010.048	1.2	54	4.5	66	5.5



Sizes
3/4" to 2 1/2"
Rectangular Wire
Construction

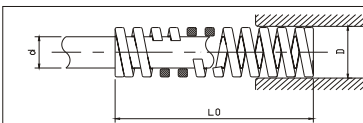
Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
					Maximum Operating Deflection (37 1/2% of L0)		Total Travel to Solid	
D	d	L0			Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
3/4	3/8	1	SSB.012.004	51.5	193	.38	227	.44
		1 1/4	SSB.012.005	38.9	182	.47	212	.55
		1 1/2	SSB.012.006	31.3	176	.56	206	.66
		1 3/4	SSB.012.007	25.8	169	.66	197	.76
		2	SSB.012.008	22.2	167	.75	194	.87
		2 1/2	SSB.012.010	17.3	165	.94	189	1.09
		3	SSB.012.012	14.2	160	1.12	186	1.31
		3 1/2	SSB.012.014	12.2	160	1.31	186	1.54
		4	SSB.012.016	10.6	159	1.5	186	1.75
		4 1/2	SSB.012.018	9.3	157	1.69	184	1.98
		5	SSB.012.020	8.3	156	1.87	184	2.21
		5 1/2	SSB.012.022	7.5	156	2.06	183	2.43
		6	SSB.012.024	6.9	156	2.25	183	2.65
		12	SSB.012.048	3.5	156	4.5	183	5.35

Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
					Maximum Operating Deflection (37 1/2% of L0)		Total Travel to Solid	
D	d	L0			Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
1	1/2	1	SSB.016.004	95.1	357	.37	409	.43
		1 1/4	SSB.016.005	71.3	334	.47	385	.54
		1 1/2	SSB.016.006	56.4	317	.56	367	.65
		1 3/4	SSB.016.007	47.5	312	.66	366	.77
		2	SSB.016.008	41.1	308	.75	366	.89
		2 1/2	SSB.016.010	31.5	295	.94	350	1.11
		3	SSB.016.012	25.8	290	1.12	346	1.34
		3 1/2	SSB.016.014	21.7	285	1.31	336	1.55
		4	SSB.016.016	18.8	282	1.5	333	1.77
		4 1/2	SSB.016.018	16.6	280	1.69	332	2
		5	SSB.016.020	15	280	1.87	332	2.25
		5 1/2	SSB.016.022	13.5	279	2.06	332	2.48
1 1/4	5/8	6	SSB.016.024	12.4	279	2.25	322	2.7
		7	SSB.016.028	10.5	276	2.62	330	3.14
		8	SSB.016.032	9.1	273	3	326	3.58
		12	SSB.016.048	6	269	4.5	320	5.35
		1 1/2	SSB.020.006	94.7	533	.56	606	.65
		1 3/4	SSB.020.007	77.9	511	.66	584	.75
		2	SSB.020.008	66.2	496	.75	569	.86
		2 1/2	SSB.020.010	50.1	470	.94	531	1.06
		3	SSB.020.012	40.5	456	1.12	514	1.27
		3 1/2	SSB.020.014	34.2	445	1.31	510	1.49
		4	SSB.020.016	29.6	444	1.5	510	1.71
		4 1/2	SSB.020.018	26.3	444	1.69	510	1.94
1 1/2	3/4	5	SSB.020.020	23.7	444	1.87	510	2.18
		5 1/2	SSB.020.022	21.4	441	2.06	510	2.39
		6	SSB.020.024	19.4	437	2.25	506	2.61
		7	SSB.020.028	16.6	437	2.62	506	3.05
		8	SSB.020.032	14.4	432	3	501	3.48
		10	SSB.020.040	11.4	428	3.75	498	4.36
		12	SSB.020.048	9.5	428	4.5	498	5.25
		2	SSB.024.008	97.5	731	.75	809	.83
		2 1/2	SSB.024.010	73.6	690	.94	765	1.04
		3	SSB.024.012	60.1	676	1.12	757	1.26
		3 1/2	SSB.024.014	50.1	658	1.31	736	1.47
		4	SSB.024.016	43.4	651	1.5	733	1.69
4 1/2	SSB.024.018	38	641	1.69	720	1.89		
5	SSB.024.020	34	638	1.87	720	2.12		
5 1/2	SSB.024.022	31	638	2.06	720	2.33		
2	1	6	SSB.024.024	28	630	2.25	714	2.55
		7	SSB.024.028	23.7	622	2.62	709	2.99
		8	SSB.024.032	20.6	618	3	707	3.42
		10	SSB.024.040	16.5	618	3.75	707	4.33
		12	SSB.024.048	13.6	612	4.5	703	5.17
		2 1/2	SSB.032.010	121	1133	.94	1272	1.05
		3	SSB.032.012	95.6	1076	1.12	1197	1.25
		3 1/2	SSB.032.014	80.2	1053	1.31	1180	1.46
		4	SSB.032.016	69.5	1043	1.5	1180	1.7
		4 1/2	SSB.032.018	61.2	1033	1.69	1180	1.93
		5	SSB.032.020	54	1013	1.87	1160	2.13
		5 1/2	SSB.032.022	49	1009	2.06	1155	2.36
2 1/2	1 1/2	6	SSB.032.024	44.6	1004	2.25	1160	2.59
		7	SSB.032.028	37.9	995	2.62	1155	3.05
		8	SSB.032.032	32.8	984	3	1140	3.47
		9	SSB.032.036	29	979	3.38	1140	3.93
		10	SSB.032.040	26.1	979	3.75	1140	4.39
		12	SSB.032.048	21.5	968	4.5	1135	5.27
		3	SSB.040.012	174	1954	1.12	2240	1.29
		3 1/2	SSB.040.014	143	1872	1.31	2160	1.52
		4	SSB.040.016	121	1814	1.5	2104	1.74
		4 1/2	SSB.040.018	106	1792	1.69	2103	1.98
		5	SSB.040.020	93.7	1757	1.87	2080	2.22
		6	SSB.040.024	75.8	1706	2.25	2024	2.67
7	SSB.040.028	63.7	1672	2.62	1987	3.12		
8	SSB.040.032	54.9	1647	3	1960	3.57		
9	SSB.040.036	48.7	1643	3.38	1960	4.06		
10	SSB.040.040	43.8	1642	3.75	1960	4.56		
12	SSB.040.048	36.2	1629	4.5	1960	5.45		



Sizes
3/8" to 5/8"
Round Wire
Construction

Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
D	d	L0			Maximum Operating Deflection (30% of L0)		Total Travel to Solid	
					Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
3/8	3/16	1	SSR.006.004	12.1	36	.3	43	.35
		1 1/4	SSR.006.005	9.4	35	.38	43	.46
		1 1/2	SSR.006.006	7.6	34	.45	42	.55
		1 3/4	SSR.006.007	6.5	34	.53	42	.66
		2	SSR.006.008	5.6	33	.6	42	.75
		2 1/2	SSR.006.010	4.4	33	.75	42	.97
		3	SSR.006.012	3.6	32	.9	42	1.15
		12	SSR.006.048	.9	31	3.6	41	4.74
		1	SSR.008.004	22.5	68	.3	78	.34
		1 1/4	SSR.008.005	17.2	64	.38	76	.44
		1 1/2	SSR.008.006	13.8	62	.45	74	.53
		1 3/4	SSR.008.007	11.5	61	.53	73	.63
1/2	9/32	2	SSR.008.008	10.1	61	.6	73	.75
		2 1/2	SSR.008.010	7.9	59	.75	73	.95
		3	SSR.008.012	6.5	58	.9	73	1.15
		3 1/2	SSR.008.014	5.5	58	1.05	73	1.33
		12	SSR.008.048	1.5	55	3.6	72	4.73
		1	SSR.010.004	49.7	149	.3	170	.34
5/8	1 1/32	1 1/4	SSR.010.005	36.6	137	.38	160	.43
		1 1/2	SSR.010.006	29.6	133	.45	160	.54
		1 3/4	SSR.010.007	24	126	.53	151	.63
		2	SSR.010.008	20.8	125	.6	151	.74
		2 1/2	SSR.010.010	16.2	122	.75	151	.94
		3	SSR.010.012	13.3	120	.9	151	1.15
		3 1/2	SSR.010.014	11.3	119	1.05	151	1.37
		4	SSR.010.016	9.8	118	1.2	151	1.57
		12	SSR.010.048	3.1	112	3.6	150	4.83



Sizes
3/4" to 2"
Rectangular Wire
Construction

Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
D	d	L0			Maximum Operating Deflection (30% of L0)		Total Travel to Solid	
					Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
3/4	3/8	1	SSR.012.004	132	396	.3	436	.33
		1 1/4	SSR.012.005	99.6	374	.38	418	.42
		1 1/2	SSR.012.006	79.3	357	.45	404	.51
		1 3/4	SSR.012.007	65	345	.53	383	.59
		2	SSR.012.008	55.9	335	.6	375	.67
		2 1/2	SSR.012.010	43.9	329	.75	377	.86
		3	SSR.012.012	36.1	325	.9	373	1.03
		3 1/2	SSR.012.014	30.7	322	1.05	371	1.21
		4	SSR.012.016	26.7	320	1.2	371	1.39
		4 1/2	SSR.012.018	23.6	319	1.35	371	1.58
		5	SSR.012.020	21.2	318	1.5	371	1.75
		5 1/2	SSR.012.022	19.4	318	1.65	371	1.92
		6	SSR.012.024	17.6	317	1.8	371	2.11
		12	SSR.012.048	8.6	309	3.6	360	4.18

Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
D	d	L0			Maximum Operating Deflection (30% of L0)		Total Travel to Solid	
					Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
1	1/2	1 1/4	SSR.016.005	158	592	.38	663	.42
		1 1/2	SSR.016.006	125	564	.45	639	.51
		1 3/4	SSR.016.007	105	558	.53	642	.61
		2	SSR.016.008	89.8	539	.6	638	.71
		2 1/2	SSR.016.010	69.4	521	.75	618	.89
		3	SSR.016.012	57.2	515	.9	618	1.08
		3 1/2	SSR.016.014	48	506	1.05	618	1.28
		4	SSR.016.016	42	504	1.2	618	1.47
		4 1/2	SSR.016.018	37.2	502	1.35	618	1.66
		5	SSR.016.020	33.2	498	1.5	618	1.86
		5 1/2	SSR.016.022	30	498	1.65	618	2.06
		6	SSR.016.024	27.6	497	1.8	618	2.24
1 1/4	5/8	7	SSR.016.028	23.6	496	2.1	618	2.62
		8	SSR.016.032	20.5	494	2.4	618	3.02
		12	SSR.016.048	13.8	494	3.6	618	4.6
		1 1/2	SSR.020.006	215	967	.45	1052	.49
		1 3/4	SSR.020.007	177	940	.53	1026	.58
		2	SSR.020.008	150	902	.6	1007	.67
		2 1/2	SSR.020.010	117	876	.75	1004	.86
		3	SSR.020.012	94.7	852	.9	985	1.04
		3 1/2	SSR.020.014	79.1	831	1.05	973	1.23
		4	SSR.020.016	69.1	829	1.2	974	1.41
		4 1/2	SSR.020.018	60.8	821	1.35	960	1.59
		5	SSR.020.020	54.7	821	1.5	985	1.8
1 1/2	3/4	5 1/2	SSR.020.022	49	809	1.65	965	1.97
		6	SSR.020.024	44.9	808	1.8	965	2.15
		7	SSR.020.028	38.1	800	2.1	960	2.52
		8	SSR.020.032	33	792	2.4	947	2.87
		10	SSR.020.040	26.4	792	3	960	3.65
		12	SSR.020.048	21.8	785	3.6	951	4.36
		2	SSR.024.008	201	1207	.6	1388	.69
		2 1/2	SSR.024.010	153	1150	.75	1350	.88
		3	SSR.024.012	125	1125	.9	1340	1.07
		3 1/2	SSR.024.014	106	1108	1.05	1340	1.27
		4	SSR.024.016	90.7	1088	1.2	1333	1.47
		4 1/2	SSR.024.018	80.5	1086	1.35	1340	1.69
2	1	5	SSR.024.020	71.5	1072	1.5	1337	1.87
		5 1/2	SSR.024.022	64	1065	1.65	1335	2.08
		6	SSR.024.024	59.1	1064	1.8	1347	2.28
		7	SSR.024.028	50.3	1056	2.1	1343	2.67
		8	SSR.024.032	43.8	1051	2.4	1347	3.07
		10	SSR.024.040	34.6	1038	3	1332	3.85
		12	SSR.024.048	28.7	1033	3.6	1339	4.65
		2 1/2	SSR.032.010	242	1815	.75	2080	.86
		3	SSR.032.012	193	1737	.9	2007	1.04
		3 1/2	SSR.032.014	161	1686	1.05	1960	1.22
		4	SSR.032.016	140	1678	1.2	1960	1.43
		4 1/2	SSR.032.018	123	1658	1.35	1960	1.63
2	1	5	SSR.032.020	108	1622	1.5	1935	1.79
		5 1/2	SSR.032.022	97	1600	1.65	1910	1.97
		6	SSR.032.024	88.1	1586	1.8	1910	2.15
		7	SSR.032.028	75.1	1583	2.1	1910	2.55
		8	SSR.032.032	65.9	1582	2.4	1910	2.91
		10	SSR.032.040	51.6	1548	3	1875	3.62
		12	SSR.032.048	42.7	1537	3.6	1875	4.45

Die Spring Color Conversion Chart

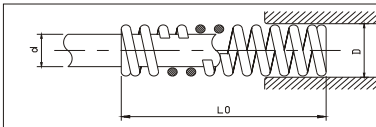
Associated Spring Raymond*

BLUE	RED	YELLOW	GREEN
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MDL Mold & Die Components

GREEN	BLUE	RED	YELLOW
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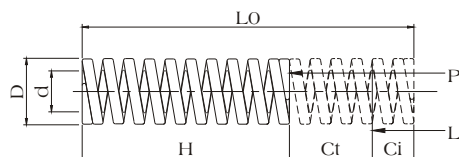
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Sizes
3/8" to 2"
Rectangular Wire
Construction

Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
					Maximum Operating Deflection (25% of L0)		Total Travel to Solid	
D	d	L0			Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
3/8	3/16	1	SSY.006.004	18.7	46.8	.25	62	.33
		1 1/4	SSY.006.005	14.3	45	.31	60	.41
		1 1/2	SSY.006.006	12.1	45	.38	60	.52
		1 3/4	SSY.006.007	10.1	44.2	.44	60	.6
		2	SSY.006.008	8.8	43.8	.5	60	.68
		2 1/2	SSY.006.010	7	43.5	.63	60	.86
		3	SSY.006.012	5.8	43.3	.75	60	1.05
		12	SSY.006.048	1.4	42	3	59	4.2
		1	SSY.008.004	33.5	84	.25	119	.35
		1 1/4	SSY.008.005	25.3	79	.31	110	.43
		1 1/2	SSY.008.006	20.7	78	.38	110	.52
		1 3/4	SSY.008.007	17.5	77	.44	110	.61
1/2	9/32	2	SSY.008.008	15.5	77	.5	110	.72
		2 1/2	SSY.008.010	12.4	77	.63	110	.9
		3	SSY.008.012	10.1	76	.75	110	1.12
		3 1/2	SSY.008.014	8.6	75	.88	110	1.31
		12	SSY.008.048	2.4	72	3	108	4.47
		1	SSY.010.004	72.1	180	.25	256	.35
		1 1/4	SSY.010.005	53.3	167	.31	230	.43
		1 1/2	SSY.010.006	43	161	.38	221	.51
		1 3/4	SSY.010.007	36	158	.44	220	.6
		2	SSY.010.008	31.4	157	.5	220	.71
		2 1/2	SSY.010.010	24.5	153	.63	218	.88
		3	SSY.010.012	20.1	151	.75	216	1.06
5/8	1 1/32	3 1/2	SSY.010.014	17.1	150	.88	215	1.26
		4	SSY.010.016	14.9	149	1	215	1.45
		12	SSY.010.048	4.8	145	3	214	4.43
		1	SSY.012.004	184	460	.25	551	.3
		1 1/4	SSY.012.005	138	431	.31	535	.39
		1 1/2	SSY.012.006	112	419	.38	535	.48
		1 3/4	SSY.012.007	92.8	406	.44	529	.57
		2	SSY.012.008	80.1	401	.5	527	.66
		2 1/2	SSY.012.010	62.5	391	.63	525	.84
		3	SSY.012.012	51.5	386	.75	522	1.02
		3 1/2	SSY.012.014	43.4	380	.88	516	1.19
		4	SSY.012.016	37.5	375	1	508	1.36
3/4	3/8	4 1/2	SSY.012.018	33	371	1.13	508	1.52
		5	SSY.012.020	29.7	371	1.25	505	1.71
		5 1/2	SSY.012.022	27	371	1.38	505	1.87
		6	SSY.012.024	24.4	366	1.5	505	2.04
		12	SSY.012.048	12.1	363	3	505	4.16

Hole Dia.	Rod Dia.	Free Length	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 Inch	Load-Deflection Table			
					Maximum Operating Deflection (25% of L0)		Total Travel to Solid	
D	d	L0			Load lbs.	Deflect. in.	Load lbs.	Deflect. in.
1	1/2	1 1/4	SSY.016.005	202	637	.31	799	.4
		1 1/2	SSY.016.006	160	600	.38	768	.48
		1 3/4	SSY.016.007	132	589	.44	749	.57
		2	SSY.016.008	113	564	.5	733	.65
		2 1/2	SSY.016.010	87.9	549	.63	735	.84
		3	SSY.016.012	71.4	536	.75	720	1.01
		3 1/2	SSY.016.014	60.2	526	.88	720	1.18
		4	SSY.016.016	52	520	1	715	1.35
		4 1/2	SSY.016.018	46.2	520	1.13	715	1.55
		5	SSY.016.020	41.2	515	1.25	715	1.72
		5 1/2	SSY.016.022	38	515	1.38	715	1.91
		6	SSY.016.024	34.4	515	1.5	715	2.11
1 1/4	5/8	7	SSY.016.028	29.3	512	1.75	715	2.48
		8	SSY.016.032	25.5	510	2	715	2.48
		12	SSY.016.048	16.9	507	3	715	4.31
		1 1/2	SSY.020.006	279	1047	.38	1231	.44
		1 3/4	SSY.020.007	231	1011	.44	1225	.53
		2	SSY.020.008	197	986	.5	1222	.62
		2 1/2	SSY.020.010	153	953	.63	1220	.8
		3	SSY.020.012	123	925	.75	1200	.97
		3 1/2	SSY.020.014	104	911	.88	1195	1.15
		4	SSY.020.016	89.1	891	1	1160	1.3
		4 1/2	SSY.020.018	77.8	875	1.13	1160	1.46
		5	SSY.020.020	69.8	873	1.25	1160	1.64
1 1/2	3/4	5 1/2	SSY.020.022	64	870	1.38	1160	1.85
		6	SSY.020.024	57.9	869	1.5	1160	2
		7	SSY.020.028	49	858	1.75	1160	2.33
		8	SSY.020.032	42.8	856	2	1160	2.69
		10	SSY.020.040	34.1	853	2.5	1160	3.42
		12	SSY.020.048	28.3	849	3	1160	4.14
		2	SSY.024.008	320	1598	.5	1964	.62
		2 1/2	SSY.024.010	241	1504	.63	1885	.78
		3	SSY.024.012	193	1448	.75	1834	.95
		3 1/2	SSY.024.014	161	1411	.88	1802	1.12
		4	SSY.024.016	140	1395	1	1813	1.3
		4 1/2	SSY.024.018	122	1373	1.13	1796	1.47
2	1	5	SSY.024.020	109	1356	1.25	1779	1.64
		5 1/2	SSY.024.022	98	1348	1.38	1774	1.81
		6	SSY.024.024	88.8	1332	1.5	1754	1.97
		7	SSY.024.028	75.1	1314	1.75	1733	2.31
		8	SSY.024.032	65.1	1302	2	1730	2.65
		10	SSY.024.040	71.7	1293	2.5	1730	3.35
		12	SSY.024.048	42.9	1287	3	1730	4.06
		2 1/2	SSY.032.010	413	2583	.63	3140	.76
		3	SSY.032.012	327	2453	.75	3013	.92
		3 1/2	SSY.032.014	271	2369	.88	2929	1.08
		4	SSY.032.016	231	2309	1	2872	1.24
		4 1/2	SSY.032.018	201	2265	1.13	2828	1.41
		5	SSY.032.020	178	2230	1.25	2794	1.57
		5 1/2	SSY.032.022	161	2214	1.38	2790	1.75
		6	SSY.032.024	145	2181	1.5	2745	1.89
		7	SSY.032.028	123	2147	1.75	2712	2.21
		8	SSY.032.032	106	2122	2	2686	2.53
		10	SSY.032.040	83.5	2088	2.5	2653	3.18
		12	SSY.032.048	68.9	2067	3	2633	3.82



$C_i > 20\% C_t$

$C_i + C_t < \text{Max. operat. deflection}$

Suggestions

D = Hole diameter (in)

L0 = Free length (in)

d = Rod diameter (in)

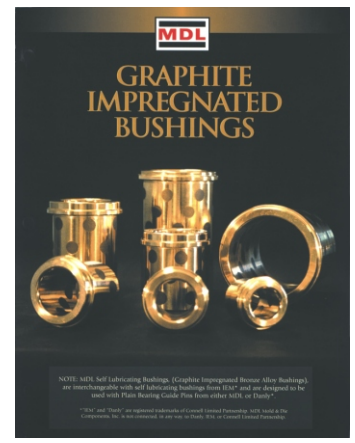
H = Compressed length (in)

Ci = Initial compression (in)

L = Pre-load (lbs)

Ct = Operating travel (in)

P = Load required to Deflect (lbs)



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