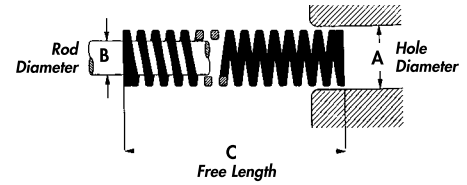




## LIGHT LOAD

Vacuum degassed,  
valve spring quality alloy steel



Sizes: 3/8" to 1", Rectangular Wire Construction

Color: Green

Hole Dia. in.	Rod Dia. in.	Free Length in.	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 in.	LOAD - DEFLECTION TABLE							
					Total Deflection Recommended for Long Life (25% of C)		Total Deflection Recommended for Average Life (30% of C)		Maximum Operating Deflection (40% of C)		Total Travel to Solid	
					Load lbs.	Deflection Inches	Load lbs.	Deflection Inches	Load lbs.	Deflection Inches	Load lbs.	Deflection Inches
<b>Rectangular Wire Construction</b>												
3/8	3/16	1	9 - 0604 - LE	5.7	14	0.25	17	0.30	23	0.40	34	0.59
		1.25	9 - 0605 - LE	4.9	15	0.31	18	0.38	24	0.50	36	0.75
		1.5	9 - 0606 - LE	3.9	15	0.38	17	0.45	23	0.60	35	0.91
		1.75	9 - 0607 - LE	3.4	15	0.44	18	0.53	24	0.70	36	1.06
		2	9 - 0608 - LE	2.9	14	0.50	17	0.60	23	0.80	35	1.22
		2.5	9 - 0610 - LE	2.5	15	0.63	18	0.75	25	1.00	40	1.61
		3	9 - 0612 - LE	1.8	14	0.75	16	0.90	22	1.20	35	1.89
		12	9 - 0648 - LE	0.6	19	3.00	23	3.60	30	4.80	46	7.36
1/2	9/32	1	9 - 0804 - LE	10.2	26	0.25	31	0.30	41	0.40	52	0.51
		1.25	9 - 0805 - LE	9.4	29	0.31	35	0.38	47	0.50	63	0.67
		1.5	9 - 0806 - LE	7.8	29	0.38	35	0.45	47	0.60	67	0.87
		1.75	9 - 0807 - LE	6.9	30	0.44	36	0.53	48	0.70	68	0.98
		2	9 - 0808 - LE	6.5	33	0.50	39	0.60	52	0.80	74	1.14
		2.5	9 - 0810 - LE	5.3	33	0.63	40	0.75	53	1.00	77	1.46
		3	9 - 0812 - LE	4.1	30	0.75	36	0.90	49	1.20	75	1.85
		3.5	9 - 0814 - LE	3.1	27	0.88	32	1.05	43	1.40	66	2.13
		4.5	9 - 0818 - LE	2.5	28	1.13	34	1.35	45	1.80	71	2.83
		5.5	9 - 0822 - LE	2.1	29	1.38	35	1.65	46	2.20	76	3.58
		6.5	9 - 0826 - LE	1.5	24	1.63	29	1.95	39	2.60	58	3.90
		7.5	9 - 0830 - LE	1.1	21	1.88	26	2.25	34	3.00	50	4.37
12	9 - 0848 - LE	0.8	24	3.00	29	3.60	38	4.80	58	7.24		
5/8	11/32	1	9 - 1004 - LE	13.4	33	0.25	40	0.30	53	0.40	58	0.43
		1.25	9 - 1005 - LE	13.1	41	0.31	49	0.38	65	0.50	87	0.67
		1.5	9 - 1006 - LE	11.0	41	0.38	50	0.45	66	0.60	87	0.79
		1.75	9 - 1007 - LE	9.8	43	0.44	51	0.53	68	0.70	92	0.94
		2	9 - 1008 - LE	9.0	45	0.50	54	0.60	72	0.80	102	1.14
		2.5	9 - 1010 - LE	6.1	38	0.63	46	0.75	61	1.00	89	1.46
		3	9 - 1012 - LE	5.7	43	0.75	51	0.90	68	1.20	94	1.65
		3.5	9 - 1014 - LE	4.9	43	0.88	52	1.05	69	1.40	99	2.01
		4	9 - 1016 - LE	4.5	45	1.00	53	1.20	71	1.60	109	2.44
		12	9 - 1048 - LE	1.4	43	3.00	51	3.60	68	4.80	102	7.13
3/4	3/8	1	9 - 1204 - L	31.7	79	0.25	95	0.30	127	0.40	162	0.51
		1.25	9 - 1205 - L	24.4	76	0.31	91	0.38	122	0.50	154	0.63
		1.5	9 - 1206 - L	19.3	73	0.38	87	0.45	116	0.60	145	0.75
		1.75	9 - 1207 - L	16.3	71	0.44	85	0.53	114	0.70	147	0.91
		2	9 - 1208 - L	14.1	70	0.50	85	0.60	113	0.80	144	1.02
		2.5	9 - 1210 - L	11.0	69	0.63	82	0.75	110	1.00	139	1.26
		3	9 - 1212 - L	9.2	69	0.75	83	0.90	110	1.20	145	1.57
		3.5	9 - 1214 - L	7.7	67	0.88	81	1.05	107	1.40	139	1.81
		4	9 - 1216 - L	6.7	67	1.00	81	1.20	108	1.60	141	2.09
		4.5	9 - 1218 - L	5.9	67	1.13	80	1.35	107	1.80	140	2.36
		5	9 - 1220 - L	5.4	67	1.25	80	1.50	107	2.00	142	2.64
		5.5	9 - 1222 - L	4.8	67	1.38	80	1.65	107	2.20	139	2.87
		6	9 - 1224 - L	4.5	67	1.50	81	1.80	108	2.40	143	3.19
		12	9 - 1248 - L	2.2	65	3.00	78	3.60	104	4.80	138	6.38
1	1/2	1	9 - 1604 - L	57.1	143	0.25	171	0.30	228	0.40	292	0.51
		1.25	9 - 1605 - L	46.0	144	0.31	172	0.38	230	0.50	290	0.63
		1.5	9 - 1606 - L	37.0	139	0.38	166	0.45	222	0.60	277	0.75
		1.75	9 - 1607 - L	30.4	133	0.44	160	0.53	213	0.70	275	0.91
		2	9 - 1608 - L	26.4	132	0.50	158	0.60	211	0.80	260	0.98
		2.5	9 - 1610 - L	20.4	127	0.63	153	0.75	204	1.00	249	1.22
		3	9 - 1612 - L	16.7	125	0.75	150	0.90	200	1.20	256	1.54
		3.5	9 - 1614 - L	14.2	124	0.88	149	1.05	198	1.40	256	1.81
		4	9 - 1616 - L	12.1	121	1.00	145	1.20	194	1.60	248	2.05
		4.5	9 - 1618 - L	10.7	120	1.13	144	1.35	193	1.80	248	2.32
		5	9 - 1620 - L	9.6	119	1.25	143	1.50	191	2.00	248	2.60
		5.5	9 - 1622 - L	8.7	119	1.38	143	1.65	191	2.20	253	2.91
		6	9 - 1624 - L	7.9	119	1.50	143	1.80	190	2.40	250	3.15
		7	9 - 1628 - L	6.8	119	1.75	143	2.10	190	2.80	249	3.66
8	9 - 1632 - L	6.0	120	2.00	144	2.40	192	3.20	253	4.21		
12	9 - 1648 - L	4.0	120	3.00	144	3.60	191	4.80	251	6.30		

Sizes: 1 1/4" to 2 1/2", Rectangular Wire Construction  
 Sizes: 3/8" to 5/8", Round Wire Construction

Color: Green

INCH

Hole Dia. in.	Rod Dia. in.	Free Length in.	CATALOG NUMBER	RATE Pounds Required to Deflect 1/10 in.	LOAD - DEFLECTION TABLE									
					Total Deflection Recommended for Long Life (25% of C)		Total Deflection Recommended for Average Life (30% of C)		Maximum Operating Deflection (40% of C)		Total Travel to Solid			
					Load lbs.	Deflection inches	Load lbs.	Deflection inches	Load lbs.	Deflection inches	Load lbs.	Deflection inches		
A	B	C												
1 1/4	5/8	1.5	9 - 2006 - L	53.6	201	0.38	241	0.45	322	0.60	401	0.75		
		1.75	9 - 2007 - L	45.4	199	0.44	238	0.53	318	0.70	393	0.87		
		2	9 - 2008 - L	38.2	191	0.50	229	0.60	306	0.80	376	0.98		
		2.5	9 - 2010 - L	31.4	196	0.63	235	0.75	314	1.00	395	1.26		
		3	9 - 2012 - L	26.3	197	0.75	236	0.90	315	1.20	403	1.54		
		3.5	9 - 2014 - L	21.2	186	0.88	223	1.05	297	1.40	376	1.77		
		4	9 - 2016 - L	18.3	183	1.00	219	1.20	292	1.60	374	2.05		
		4.5	9 - 2018 - L	16.9	190	1.13	228	1.35	304	1.80	386	2.28		
		5	9 - 2020 - L	14.3	178	1.25	214	1.50	285	2.00	365	2.56		
		5.5	9 - 2022 - L	13.4	184	1.38	221	1.65	295	2.20	380	2.83		
		6	9 - 2024 - L	12.3	184	1.50	221	1.80	295	2.40	378	3.07		
		7	9 - 2028 - L	10.4	182	1.75	218	2.10	291	2.80	360	3.46		
8	9 - 2032 - L	9.1	181	2.00	217	2.40	290	3.20	371	4.09				
10	9 - 2040 - L	7.2	180	2.50	216	3.00	288	4.00	368	5.12				
12	9 - 2048 - L	5.9	178	3.00	213	3.60	284	4.80	361	6.10				
1 1/2	3/4	2	9 - 2408 - L	52.5	263	0.50	315	0.60	420	0.80	517	0.98		
		2.5	9 - 2410 - L	41.6	260	0.63	312	0.75	416	1.00	524	1.26		
		3	9 - 2412 - L	36.0	270	0.75	324	0.90	431	1.20	538	1.50		
		3.5	9 - 2414 - L	29.1	255	0.88	306	1.05	408	1.40	516	1.77		
		4	9 - 2416 - L	24.5	245	1.00	295	1.20	393	1.60	493	2.01		
		4.5	9 - 2418 - L	22.6	254	1.13	305	1.35	407	1.80	516	2.28		
		5	9 - 2420 - L	21.1	264	1.25	317	1.50	422	2.00	540	2.56		
		5.5	9 - 2422 - L	18.3	251	1.38	301	1.65	402	2.20	511	2.80		
		6	9 - 2424 - L	16.0	240	1.50	288	1.80	384	2.40	491	3.07		
		7	9 - 2428 - L	14.4	252	1.75	302	2.10	403	2.80	521	3.62		
		8	9 - 2432 - L	13.0	259	2.00	311	2.40	415	3.20	536	4.13		
		10	9 - 2440 - L	9.7	243	2.50	291	3.00	388	4.00	500	5.16		
12	9 - 2448 - L	8.5	254	3.00	304	3.60	406	4.80	523	6.18				
2	1	2.5	9 - 3210 - L	89.7	560	0.63	672	0.75	897	1.00	1130	1.26		
		3	9 - 3212 - L	72.0	540	0.75	648	0.90	864	1.20	1105	1.54		
		3.5	9 - 3214 - L	60.0	525	0.88	630	1.05	841	1.40	1064	1.77		
		4	9 - 3216 - L	51.3	513	1.00	615	1.20	820	1.60	1049	2.05		
		4.5	9 - 3218 - L	43.8	492	1.13	591	1.35	788	1.80	1000	2.28		
		5	9 - 3220 - L	40.0	500	1.25	600	1.50	800	2.00	1023	2.56		
		5.5	9 - 3222 - L	36.0	495	1.38	594	1.65	792	2.20	1020	2.83		
		6	9 - 3224 - L	32.8	492	1.50	590	1.80	787	2.40	1007	3.07		
		7	9 - 3228 - L	27.8	486	1.75	584	2.10	778	2.80	1006	3.62		
		8	9 - 3232 - L	23.7	474	2.00	569	2.40	758	3.20	970	4.09		
		10	9 - 3240 - L	18.8	470	2.50	564	3.00	752	4.00	962	5.12		
		12	9 - 3248 - L	15.5	465	3.00	558	3.60	744	4.80	952	6.14		
2 1/2	1 1/2	3	9 - 4012 - L	110	825	0.75	990	0.90	1319	1.20	1645	1.50		
		3.5	9 - 4014 - L	90.1	789	0.88	946	1.05	1262	1.40	1561	1.73		
		4	9 - 4016 - L	76.4	764	1.00	916	1.20	1222	1.60	1503	1.97		
		4.5	9 - 4018 - L	66.2	744	1.13	893	1.35	1191	1.80	1485	2.24		
		5	9 - 4020 - L	58.0	725	1.25	870	1.50	1160	2.00	1461	2.52		
		6	9 - 4024 - L	47.7	716	1.50	859	1.80	1145	2.40	1428	2.99		
		7	9 - 4028 - L	40.1	701	1.75	842	2.10	1122	2.80	1404	3.50		
		8	9 - 4032 - L	34.5	690	2.00	828	2.40	1103	3.20	1385	4.02		
		10	9 - 4040 - L	26.8	670	2.50	804	3.00	1072	4.00	1329	4.96		
		12	9 - 4048 - L	22.1	663	3.00	795	3.60	1060	4.80	1322	5.98		
		<b>Round Wire Construction</b>												
		3/8	3/16	1	9 - 0604 - L	2.6	7	0.25	8	0.30	11	0.40	13	0.51
1.25	9 - 0605 - L			2.0	6	0.31	7	0.38	10	0.50	13	0.63		
1.5	9 - 0606 - L			1.6	6	0.38	7	0.45	10	0.60	13	0.79		
1.75	9 - 0607 - L			1.4	6	0.44	7	0.53	10	0.70	12	0.91		
2	9 - 0608 - L			1.2	6	0.50	7	0.60	10	0.80	13	1.06		
2.5	9 - 0610 - L			1.0	6	0.63	7	0.75	10	1.00	13	1.34		
3	9 - 0612 - L			0.8	6	0.75	7	0.90	9	1.20	12	1.57		
12	9 - 0648 - L			0.2	5	3.00	6	3.60	9	4.80	12	6.42		
1/2	9/32	1	9 - 0804 - L	5.1	13	0.25	15	0.30	21	0.40	26	0.51		
		1.25	9 - 0805 - L	3.8	12	0.31	14	0.38	19	0.50	26	0.67		
		1.5	9 - 0806 - L	3.1	12	0.38	14	0.45	18	0.60	24	0.79		
		1.75	9 - 0807 - L	2.6	11	0.44	14	0.53	18	0.70	24	0.91		
		2	9 - 0808 - L	2.2	11	0.50	13	0.60	18	0.80	23	1.06		
		2.5	9 - 0810 - L	1.7	11	0.63	13	0.75	17	1.00	24	1.38		
		3	9 - 0812 - L	1.4	11	0.75	13	0.90	17	1.20	23	1.61		
		3.5	9 - 0814 - L	1.2	10	0.88	13	1.05	17	1.40	23	1.93		
12	9 - 0848 - L	0.3	10	3.00	12	3.60	16	4.80	22	6.54				
5/8	11/32	1	9 - 1004 - L	10.2	25	0.25	30	0.30	41	0.40	52	0.51		
		1.25	9 - 1005 - L	7.6	24	0.31	29	0.38	38	0.50	48	0.63		
		1.5	9 - 1006 - L	6.0	23	0.38	27	0.45	36	0.60	47	0.79		
		1.75	9 - 1007 - L	5.0	22	0.44	26	0.53	35	0.70	45	0.91		
		2	9 - 1008 - L	4.3	22	0.50	26	0.60	35	0.80	46	1.06		
		2.5	9 - 1010 - L	3.4	21	0.63	25	0.75	34	1.00	45	1.34		
		3	9 - 1012 - L	2.7	20	0.75	25	0.90	33	1.20	44	1.61		
		3.5	9 - 1014 - L	2.3	20	0.88	25	1.05	33	1.40	45	1.93		
		4	9 - 1016 - L	2.0	20	1.00	24	1.20	32	1.60	44	2.20		
		12	9 - 1048 - L	0.6	19	3.00	23	3.60	31	4.80	43	6.69		