



SHUANGYUAN

Die Spring

US series

Super heavy load-----Green

Heavy load-----Brown

Medium load-----Red

Light load-----Blue

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SUPER LOAD , GREEN

ODxIDxLength		Spring rate		Ultimate Working Length And Load			
in	mm	N/mm	Lbs/in	in	Lbs	mm	N
$\frac{3}{8} \times \frac{3}{16} \times 1$	9.5x4.7x25.4	38.5	220	0.75	55	19.1	243
$1\frac{1}{4}$	31.8	29.8	170	0.94	53.2	23.9	235
$1\frac{1}{2}$	38.1	25.4	145	1.125	54.4	28.6	241
$1\frac{3}{4}$	44.5	20.2	115	1.31	50.4	33.4	224
2	50.8	17.5	100	1.5	50	38.1	222
$2\frac{1}{2}$	63.5	14	80	1.87	50	47.6	223
3	76.2	11.4	65	2.5	48.8	57.2	219
12	305	2.6	15	9	45	228.8	201
$\frac{1}{2} \times \frac{9}{32} \times 1$	17x3x25.4	56.1	320	0.75	80	19.1	353
$1\frac{1}{4}$	31.8	42	240	1.06	75.1	23.9	332
$1\frac{1}{2}$	38.1	35	200	1.12	75	28.6	333
$1\frac{3}{4}$	44.5	29.1	170	1.31	74.5	33.4	331
2	50.8	24.5	140	1.5	70	38.1	311
$2\frac{1}{2}$	63.5	20.2	115	1.87	71.9	47.6	321
3	76.2	15.7	90	2.25	67.5	57.2	298
$3\frac{1}{2}$	88.9	14	80	2.62	70	66.7	311
12	305	4.4	25	9	75	228.8	335
$\frac{5}{8} \times \frac{11}{32} \times 1$	16x8.7x25.4	110.3	630	0.75	157.5	19.1	695

$1\frac{1}{4}$	31.8	82.3	470	0.94	147.1	23.9	650
$1\frac{1}{2}$	38.1	66.6	380	1.12	142.5	28.6	633
$1\frac{3}{4}$	44.5	56.1	320	1.31	140.2	33.4	623
2	50.8	50.8	290	1.5	146	28.1	645
$2\frac{1}{2}$	63.5	38.5	220	1.87	137.5	47.6	612
3	76.2	31.6	180	2.25	135	57.2	599
$3\frac{1}{2}$	88.9	28	160	2.62	140	66.7	622
4	101.6	23.6	135	3	135	76.2	599
12	305	7.9	45	9	135	228.8	602
$\frac{3}{4} \times \frac{3}{8} \times 1$	19.5X9.5X25.4	245.2	1400	0.75	350	19.1	1545
$1\frac{1}{4}$	31.8	192.7	1100	0.94	344.3	23.9	1522
$1\frac{1}{2}$	38.1	155.8	890	1.12	337.5	28.6	1480
$1\frac{3}{4}$	44.5	131.3	750	1.31	328.5	33.4	1457
2	50.8	111.2	635	1.5	317.5	38.1	1412
$2\frac{1}{2}$	63.5	87.6	500	2.13	312.5	47.6	1393
3	76.2	70.9	405	2.25	303.8	57.2	1347
$3\frac{1}{2}$	88.9	60.4	345	2.62	301.9	66.7	1341
4	101.6	52.6	300	3	300	76.2	1336
$4\frac{1}{2}$	114.3	46.4	265	3.37	298.1	85.7	1327
5	127	41.2	235	3.75	293.8	95.3	1303
$5\frac{1}{2}$	139.7	37.7	215	4.13	295.6	104.8	1316
6	152.4	34.1	195	4.5	292.5	114.3	1299
12	305	16.7	95	9	285	228.8	1273

SUPER LOAD GREEN

ODxIDxLength		Spring rate		Ultimate Working Length And Load			
in	mm	N/mm	Lbs/in	in	Lbs	mm	N
1 x $\frac{1}{2}$ x 4	25.5x13x38.1	323.7	1848	1.12	693	28.6	3075
$4\frac{1}{2}$	50.8	203.2	1160	1.5	580	38.1	2581
5	63.5	156.9	896	1.87	561	47.6	2495
$5\frac{1}{2}$	76.2	128.9	736	2.25	552	57.2	2449
6	88.9	109.3	624	2.62	546	66.7	2426
7	101.6	96.7	552	3	552	76.2	2456
8	114.3	85.5	488	3.37	549	85.7	2455
12	127	75.7	432	3.75	540	95.3	2400
$1\frac{1}{4}$ x $\frac{5}{8}$ x $1\frac{1}{2}$	152.4	63	360	4.5	540	114.3	2400
$1\frac{3}{4}$	305	30.8	176	9	528	228.8	2347
2	32x16x50.8	336.2	3760	1.5	1880	38.1	4270
$2\frac{1}{2}$	63.5	252.2	2944	1.87	1840	47.6	4010

3	76.2	207.4	2312	2.25	1734	57.2	3941
$3\frac{1}{2}$	88.9	176.5	1960	2.62	1715	66.7	3918
4	101.6	147.1	1712	3	1712	76.2	3736
$4\frac{1}{2}$	114.3	137.3	1480	3.37	1665	85.7	3927
5	127	119.1	1360	3.75	1700	95.6	3775
$5\frac{1}{2}$	152.4	98.1	1104	4.5	1656	114.3	3738
6	203.2	72.9	808	6	1616	152.4	3703
7	254	58.8	672	7.5	1680	190.5	3146
8	305	46.3	544	9	1632	228.8	3528
10	38.5x19.5x50.8	658.5	3760	1.5	1880	3801	8363
12	63.5	515.6	2944	1.87	1840	47.6	8198
$1\frac{1}{2} \times \frac{3}{4} \times 2$	76.2	404.9	2312	2.25	1734	57.2	7693
$2\frac{1}{2}$	88.9	343.3	1960	2.62	1715	66.7	7621
3	101.6	300	1712	3	1712	76.2	7620
$3\frac{1}{2}$	114.3	259.2	1480	3.37	1665	85.7	7413
4	127	238.2	1360	3.75	1700	95.3	7789

$4\frac{1}{2}$	152.4	193.4	1104	4.5	1656	114.3	7369
5	203	141.5	808	6	1616	152.4	7188
$5\frac{1}{2}$	254	117.7	672	7.5	1680	190.5	7474
6	305	95.3	544	9	1632	228.8	7262
7	51x25.5x63.5	668.3	3816	1.87	2385	47.6	10626
8	76.2	546.4	3120	2.25	2340	57.2	10382
10	88.9	445.5	2544	2.62	2226	66.7	9890
12	101.6	385.3	2200	3	2200	76.2	9787
2 x 1 x $2\frac{1}{2}$	114.3	330.7	1888	3.37	2124	85.7	9458
3	127	302.6	1728	3.75	2160	95.3	9592
$3\frac{1}{2}$	152.4	248	1416	4.5	2124	114.3	9449
4	203	175.1	1000	6	2000	152.4	8895
$4\frac{1}{2}$	254	147.1	840	7.5	2100	190.5	9341
5	305	124.7	712	9	2136	228.8	9502

HEAVY LOAD BROWN

ODxIDxLength		Spring rate		Ultimate Working Length And Load			
in	mm	N/mm	Lbs/in	in	Lbs	mm	N
$\frac{3}{8} \times \frac{3}{16} \times 1$	9.5x4.7x25.4	21.7	124	0.7	37.2	17.8	165
$1\frac{1}{4}$	31.8	17.2	98	0.87	36.8	22.3	163
$1\frac{1}{2}$	38.1	16.8	96	1.05	43.2	26.7	192
$1\frac{3}{4}$	44.5	14.7	84	1.22	44.1	31.2	196
2	50.8	12.6	72	1.4	43.2	35.6	192
$2\frac{1}{2}$	63.5	10.5	60	1.75	45	44.5	200
3	76.2	7.4	42	2.1	37.8	53.2	169
12	305	2.1	12	8.4	43.2	213.5	192
$\frac{1}{2} \times \frac{9}{32} \times 1$	13x7x25.4	41.3	236	0.7	70.8	17.9	314
$1\frac{1}{4}$	31.8	32.6	186	0.87	69.8	22.3	310
$1\frac{1}{2}$	38.1	28.7	164	1.05	73.8	26.7	328
$1\frac{3}{4}$	44.5	24.2	138	1.22	72.5	31.2	322
2	50.8	19.3	110	1.4	66	35.6	293
$2\frac{1}{2}$	63.5	15.8	84	1.75	63	44.5	300
3	76.2	13	74	2.1	66.6	53.3	285

$3\frac{1}{2}$	88.9	11.2	64	2.45	67.2	62.2	299
12	305	2.8	16	8.4	57.6	213.5	256
$\frac{5}{8} \times \frac{11}{32} \times 1$	16x9.7x25.4	74.2	424	0.7	127.2	17.8	564
$1\frac{1}{4}$	31.8	51.8	296	0.87	111	22.3	492
$1\frac{1}{2}$	38.1	47.6	272	1.05	122.4	26.7	543
$1\frac{3}{4}$	44.5	42	240	1.22	126	31.2	559
2	50.8	36.4	208	1.4	124.8	35.6	553
$2\frac{1}{2}$	63.5	19.8	170	1.75	127.5	44.5	566
3	76.2	25.2	144	2.1	129.6	53.3	577
$3\frac{1}{2}$	88.9	21.3	122	2.45	128.1	62.2	569
4	101.6	18.9	108	2.8	129.6	71.1	576
12	305	7	40	8.4	144	213.5	648
$\frac{3}{4} \times \frac{3}{8} \times 1$	19.5x9.5x25.4	189.1	1080	0.7	324	17.8	1362
$1\frac{1}{4}$	31.8	154.1	880	0.87	330	22.3	1464
$1\frac{1}{2}$	38.1	114.9	656	1.05	295.2	26.7	1310
$1\frac{3}{4}$	44.5	105.1	600	1.22	315	31.2	1398
2	50.8	86.9	496	1.4	297.6	35.6	1321

$2\frac{1}{2}$	63.5	65.9	376	1.75	282	44.5	1252
3	76.2	54.6	312	2.1	280.8	53.3	1250
$3\frac{1}{2}$	88.9	46.3	264	2.45	277.2	62.2	1236
4	101.6	40.6	232	2.8	278.4	71.1	1238
$4\frac{1}{2}$	114.3	35	200	3.15	270	80	1201
5	127	30.8	176	3.5	264	88.9	1173
$5\frac{1}{2}$	139.7	28	160	3.85	264	97.8	1173
6	152.4	25.2	144	4.2	259.2	106.7	1152
12	305	12.6	72	8.4	259.2	213.5	1153
$1\frac{1}{2} \times 1$	25.5x13x25.4	364.3	2080	0.7	624	17.8	2769
$1\frac{1}{4}$	31.8	300	1712	0.87	642	22.3	2850
$1\frac{1}{2}$	38.1	207.4	1184	1.05	532.8	26.7	2364
$1\frac{3}{4}$	44.5	182.1	1040	1.22	546	31.2	2422
2	50.8	147.1	840	1.4	504	35.6	2236
$2\frac{1}{2}$	63.5	119.1	680	1.75	510	44.5	2263
3	76.2	95.3	544	2.1	489.6	53.3	2182
$3\frac{1}{2}$	88.9	79.8	456	2.45	478.8	62.2	2131

HEAVY LOAD BROWN

ODxIDxLength		Spring rate		Ultimate Working Length And Load			
in	mm	N/mm	Lbs/in	in	Lbs	mm	N
$1\frac{1}{2} \times \frac{1}{2} \times 4$	25.5x13x101.6	70	400	2.8	480	71.1	2135
$4\frac{1}{2}$	114.3	61.6	352	3.15	475	80	2113
5	127	54.6	312	3.5	468	88.9	2080
$5\frac{1}{2}$	139.7	50.4	288	3.85	475	97.8	2112
6	152.4	44.8	256	4.2	461	106.7	2047
7	177.8	39.2	224	4.9	470	124.4	2093
8	203.2	33.6	192	5.6	461	142.2	2095
12	305	21	120	8.4	432	213.5	1922
$1\frac{1}{4} \times \frac{5}{8} \times 1\frac{1}{2}$	32x16x38.1	371.3	2120	1.05	954	26.7	4233
$1\frac{3}{4}$	44.5	318	1816	1.22	953	31.2	4229
2	50.8	262	1496	1.4	898	35.6	3982
$2\frac{1}{2}$	63.5	205.9	1176	1.75	882	44.5	3912
3	76.2	166.7	952	2.1	857	53.5	3817
$3\frac{1}{2}$	88.9	131.7	752	2.45	790	62.2	3516
4	101.6	116.3	664	2.8	797	71.1	3547

$4\frac{1}{2}$	114.3	102.3	584	3.15	788	80	3509
5	127	86.9	496	3.5	744	88.9	3311
$5\frac{1}{2}$	139.7	82.7	472	3.85	779	97.8	3465
6	152.4	74.2	424	4.2	763	106.7	3391
7	177.8	64.4	368	4.9	773	124.4	3439
8	203.2	57.4	328	5.6	787	142.2	3501
10	254	44.8	256	7	768	177.8	3414
12	305	36.4	208	8.4	749	213.5	3331
$1\frac{1}{2} \times \frac{3}{4} \times 2$	38.5x19.5x50.8	333.4	1094	1.4	1142	35.6	5068
$2\frac{1}{2}$	63.5	260.6	1488	1.75	1116	44.5	4951
3	76.2	214.4	1224	2.1	1102	53.3	4910
$3\frac{1}{2}$	88.9	186.3	1064	2.45	1117	62.2	4974
4	101.6	159.7	912	2.8	1094	71.1	4871
$4\frac{1}{2}$	114.3	137.3	784	3.15	1058	80	4709
5	127	124.7	712	3.5	1068	88.9	4751
$5\frac{1}{2}$	139.7	112.1	640	3.85	1056	97.8	4697
6	152.4	102.3	584	4.2	1051	106.7	4675
7	177.8	86.9	496	4.9	1042	124.4	4640

8	203.2	75.7	432	5.6	1037	142.2	4618
10	254	60.2	344	7	1032	177.8	4587
12	305	50.4	288	8.43	1037	213.5	4612
$2 \times 1 \times 2\frac{1}{2}$	51x25.5x63.5	386.3	2200	1.75	1650	44.5	7321
3	76.2	325.1	1856	2.1	1670	53.3	7445
$3\frac{1}{2}$	88.9	280.2	1600	2.45	1680	62.2	6361
4	101.6	234	1336	2.8	1603	71.1	7137
$4\frac{1}{2}$	114.3	205.9	1176	3.15	1588	80	7062
5	127	182.1	1040	3.5	1560	88.9	6938
$5\frac{1}{2}$	139.7	162.5	928	3.85	1531	97.8	6809
6	152.4	145.7	832	4.2	1498	106.7	6658
7	177.8	128.9	736	4.9	1546	124.4	6883
8	203.2	112.1	640	5.6	1536	142.2	6838
10	254	85.5	488	7	1464	177.8	6515
12	305	70	400	8.4	1440	213.5	6405

MEDIUM LOAD RED

ODxIDxLength		Spring rate		Ultimate Working Length And Load			
in	mm	N/mm	Lbs/in	in	Lbs	mm	N
$\frac{3}{8} \times \frac{3}{16} \times 1$	9.5x4.7x25.4	15.8	90	0.63	33	16	149
$1\frac{1}{4}$	31.8	12.8	73	0.79	34	20	151
$1\frac{1}{2}$	38.1	11.7	67	0.95	37	24	165
$1\frac{3}{4}$	44.5	10.2	58	1.1	38	28	168
2	50.8	8.8	50	1.26	37	32	165
$2\frac{1}{2}$	63.5	7.4	42	1.58	39	40	174
3	76.2	5.3	30	1.89	33	48	149
12	305	1.6	9	7.6	40	192.2	181
$\frac{1}{2} \times \frac{9}{32} \times 1$	13x7x25.4	29.4	268	0.63	62	16	276
$1\frac{1}{4}$	31.8	24.4	139	0.79	64	20	323
$1\frac{1}{2}$	38.1	21	120	0.95	67	24	296
$1\frac{3}{4}$	44.5	18.2	104	1.1	67	28	300
2	50.8	15.2	87	1.26	64	32	286
$2\frac{1}{2}$	63.5	12.5	68	1.58	63	40	294
3	76.2	10	57	1.89	63	48	282

$3\frac{1}{2}$	88.9	8.2	47	2.21	61	56	270
12	305	2.1	12	7.56	53	192.2	237
$\frac{5}{8} \times \frac{11}{32} \times 1$	16x8.7x25.4	48.5	277	0.63	103	16	456
$1\frac{1}{4}$	31.8	36.4	208	0.79	96	20	430
$1\frac{1}{2}$	38.1	33.3	190	0.95	106	24	470
$1\frac{3}{4}$	44.5	29.4	168	1.1	109	28	485
2	50.8	25.9	148	1.26	110	32	487
$2\frac{1}{2}$	63.5	20.2	115	1.58	106	40	475
3	76.2	17.5	100	1.89	111	48	494
$3\frac{1}{2}$	88.9	14.9	85	2.21	110	56	490
4	101.6	13.3	76	2.52	113	64	446
12	305	4.7	27	7.56	120	192.2	531
$\frac{3}{4} \times \frac{3}{8} \times 1$	19.5x9.5x25.4	100.9	576	0.63	213	16	948
$1\frac{1}{4}$	31.8	77.1	440	0.79	204	20	910
$1\frac{1}{2}$	38.1	56.1	320	0.95	178	24	791
$1\frac{3}{4}$	44.5	50.4	288	1.1	187	28	832
2	50.8	43.4	248	1.26	184	32	816
$2\frac{1}{2}$	63.5	33.6	192	1.58	178	40	790

3	76.2	25.2	144	1.89	160	48	711
$3\frac{1}{2}$	88.9	22.4	128	2.21	166	56	737
4	101.6	21	120	2.52	178	64	704
$4\frac{1}{2}$	114.3	19.6	112	2.84	187	72	829
5	127	18.2	104	3.15	192	80	855
$5\frac{1}{2}$	139.7	16.8	96	3.69	195	88	869
6	152.4	14	80	3.78	178	96	790
12	305	6.3	36	7.56	160	192.2	712
$1\frac{1}{2} \times 1$	25.5x13x25.4	129.1	720	0.63	266	16	1213
$1\frac{1}{4}$	31.8	109.3	624	0.79	289	20	1289
$1\frac{1}{2}$	38.1	86.9	496	0.95	275	24	1225
$1\frac{3}{4}$	44.5	77.1	440	1.1	285	28	1272
2	50.8	64.4	368	1.26	272	32	1211
$2\frac{1}{2}$	63.5	50.4	288	1.58	266	40	1184
3	76.2	40.6	232	1.89	258	48	1145
$3\frac{1}{2}$	88.9	37.8	216	2.21	280	56	1244

MEDIUM LOAD RED

ODxIDxLength		Spring rate		Ultimate Working Length And Load			
in	mm	N/mm	Lbs/in	in	Lbs	mm	N
$1\frac{1}{2} \times 4$	25.5x13x101.6	32.2	184	2.52	272	64	1085
$4\frac{1}{2}$	114.3	26.6	152	2.84	253	72	1125
5	127	25.2	144	3.15	266	80	1184
$5\frac{1}{2}$	139.7	22.4	128	3.69	261	88	1158
6	152.4	19.6	112	3.78	249	96	1105
7	177.8	16.8	96	4.41	249	112	1105
8	203.2	15.4	88	5.04	261	128	1158
12	305	9.8	56	7.56	249	192.2	1107
$1\frac{5}{8} \times 1\frac{1}{2}$	32X16X38.1	200.3	1144	0.95	635	24	2824
$1\frac{3}{4}$	44.5	176.5	1008	1.1	653	28	2912
2	50.8	151.3	864	1.26	639	32	2844
$2\frac{1}{2}$	63.5	109.3	624	1.58	577	40	2569
3	76.2	89.7	512	1.89	568	48	2530
$3\frac{1}{2}$	88.9	74.4	440	2.21	570	56	2448

4	101.6	64.4	368	2.52	545	64	2157
$4\frac{1}{2}$	114.3	56.1	320	2.84	533	72	2373
5	127	45	272	3.15	503	80	2115
$5\frac{1}{2}$	139.7	46.3	264	3.69	537	88	2394
6	152.4	40.6	232	3.78	515	96	2290
7	177.8	35	200	4.41	518	112	2303
8	203.2	32.2	184	5.04	545	128	2421
10	254	22.4	128	6.3	474	160	2106
12	305	19.6	112	7.56	497	192.2	2215
$1\frac{1}{2} \times \frac{3}{4} \times 2$	38.5x19.5x50.8	189.1	1080	1.26	799	32	3555
$2\frac{1}{2}$	63.5	149.9	856	1.58	792	40	3527
3	76.2	109.3	624	1.89	693	48	3082
$3\frac{1}{2}$	88.9	92.5	528	2.21	684	56	3025
4	101.6	84.1	480	2.52	710	64	2817
$4\frac{1}{2}$	114.3	75.7	432	2.84	719	72	3202
5	127	64.4	368	3.15	681	80	3027
$5\frac{1}{2}$	139.7	60.2	344	3.69	700	88	3112

6	152.4	53.2	304	3.78	675	96	3000
7	177.8	46.3	264	4.41	684	112	3047
8	203.2	36.4	208	5.04	616	128	2737
10	254	30.8	176	6.3	651	160	2895
12	305	25.2	144	7.56	639	192.2	2870
$2X1X2\frac{1}{2}$	51x25.5x63.5	207.4	1184	1.58	1095	40	4874
3	76.2	168.1	960	1.89	1066	48	4740
$3\frac{1}{2}$	88.9	140.1	800	2.21	1036	56	4609
4	101.6	116.3	664	2.52	983	64	3896
$4\frac{1}{2}$	114.3	105.1	600	2.84	999	72	4446
5	127	98.1	560	3.15	1036	80	4611
$5\frac{1}{2}$	139.7	88.3	504	3.69	1026	88	4565
6	152.4	82.7	472	3.78	1048	96	4664
7	177.8	70	400	4.41	1036	112	4606
8	203.2	61.7	352	5.04	1042	128	4640
10	254	42	240	6.3	888	160	3948
12	305	39.2	224	7.56	995	192.2	4430

LIGHT LOAD BLUE

ODxIDxLength		spring rate		Ultimate Working Length And Load			
in	mm	N/mm	Lbs/in	in	Lbs	mm	N
$\frac{3}{8} \times \frac{3}{16} \times 1$	19.5x4.7x25.4	9.8	56	0.5	28	12.7	124
$1\frac{1}{4}$	31.8	8.4	48	0.62	30	15.9	134
$1\frac{1}{2}$	38.1	6.6	38	6.6	29	19.1	125
$1\frac{3}{4}$	44.5	5.9	34	5.9	30	22.3	131
2	50.8	4.9	28	4.9	28	25.4	124
$2\frac{1}{2}$	63.5	4.2	24	4.2	30	31.8	134
3	76.2	3.2	18	3.2	27	38.1	12
12	305	1	6	1	30	152.5	153
$\frac{1}{2} \times \frac{9}{32} \times 1$	13x7x25.4	17.5	100	0.5	50	12.7	222
$1\frac{1}{4}$	31.8	16.1	92	0.62	58	15.9	256
$1\frac{1}{2}$	38.1	13.3	76	0.75	57	19.1	254
$1\frac{3}{4}$	44.5	11.9	68	0.85	60	22.3	265
2	50.8	11.2	64	1	64	25.4	284
$2\frac{1}{2}$	63.5	9.1	52	1.25	65	31.8	289
3	76.2	7	40	1.5	60	38.1	267

$3\frac{1}{2}$	88.9	5.3	30	1.75	53	44.4	236
12	305	1.4	8	6	48	152.5	214
$\frac{5}{8} \times \frac{11}{32} \times 1$	16x8.7x25.4	24.9	131	0.5	66	12.7	316
$1\frac{1}{4}$	31.8	22.4	128	0.62	80	15.9	356
$1\frac{1}{2}$	38.1	18.9	108	0.75	81	19.1	359
$1\frac{3}{4}$	44.5	16.8	96	0.85	84	22.3	373
2	50.8	15.4	88	1	88	25.4	391
$2\frac{1}{2}$	63.5	10.5	60	1.25	75	31.8	333
3	76.2	9.8	56	1.5	84	38.1	373
$3\frac{1}{2}$	88.9	8.4	48	1.75	84	44.4	374
4	101.6	7.7	44	2	88	50.8	391
12	3050	2.5	14	6	84	152.5	381
$\frac{3}{4} \times \frac{3}{8} \times 1$	19.5x9.5x25.4	56.1	312	0.5	156	12.7	712
$1\frac{1}{4}$	31.8	44.8	256	0.62	160	15.9	712
$1\frac{1}{2}$	38.1	35	200	0.75	150	19.1	665
$1\frac{3}{4}$	44.5	30.8	176	0.85	154	22.3	684
2	50.8	25.2	144	1	144	25.4	640
$2\frac{1}{2}$	63.5	21	120	1.25	150	31.8	666

3	76.2	16.8	96	1.5	144	38.1	640
$3\frac{1}{2}$	88.9	14	80	1.75	140	44.4	623
4	101.6	12.6	72	2	144	50.8	640
$4\frac{1}{2}$	114.3	11.2	64	2.25	144	57.2	641
5	127	9.8	56	2.5	140	63.5	622
$5\frac{1}{2}$	139.7	8.4	48	2.75	132	69.9	586
6	152.4	7	40	3	120	76.2	533
12	305	4.2	24	6	144	152.5	641
$1x\frac{1}{2}x1$	25.5x13x25.4	93.9	536	0.5	268	12.7	1193
$1\frac{1}{4}$	31.8	76.4	436	0.62	273	15.9	1215
$1\frac{1}{2}$	38.1	58.8	336	0.75	252	19.2	1117
$1\frac{3}{4}$	44.5	50.4	288	0.85	252	22.3	1119
2	50.8	40.6	232	1	232	25.4	1031
$2\frac{1}{2}$	63.5	35	200	1.25	250	31.8	1110
3	76.2	26.6	152	1.5	228	38.1	1013
$3\frac{1}{2}$	88.9	22.4	128	1.75	224	44.4	997

LIGHT LOAD BLUE

ODxIDxLength		Spring rate		Ultimate Working Length And Load			
in	mm	N/mm	Lbs/in	in	Lbs	mm	N
$1\frac{1}{2} \times 4$	25.5x13x101.6	21	120	2	240	50.8	1067
$4\frac{1}{2}$	114.3	18.2	104	2.25	234	57.2	1039
5	127	16.8	96	2.5	240	63.5	1067
$5\frac{1}{2}$	139.7	15.4	88	2.75	242	69.9	1075
6	152.4	14	80	3	240	76.2	1067
7	177.8	12.6	72	3.5	252	88.9	1120
8	203.2	9.8	56	4	224	101.6	996
12	305	7	40	6	240	152.4	1068
$1\frac{5}{8} \times 1\frac{1}{2}$	32x16x38.1	86.9	496	0.75	372	19.2	1651
$1\frac{3}{4}$	44.5	74.2	424	0.85	371	22.3	1647
2	50.8	61.7	352	1	352	25.4	1567
$2\frac{1}{2}$	63.5	50.4	288	1.25	360	31.8	1598
3	76.2	42	244	1.5	360	38.1	1600
$3\frac{1}{2}$	88.9	35	200	1.75	350	44.4	1558

4	101.6	30.8	176	2	352	50.8	1565
$4\frac{1}{2}$	114.3	28	160	2.25	360	57.2	1602
5	127	23.8	136	2.5	340	63.5	1511
$5\frac{1}{2}$	139.7	22.4	128	2.75	352	69.9	1564
6	152.4	21	120	3	360	76.2	1600
7	177.8	18.2	104	3.5	364	88.9	1618
8	203.2	15.4	88	4	352	101.6	1565
10	254	12.6	72	5	360	127	1600
12	305	9.8	56	6	336	152.4	1495
$1\frac{1}{2} \times \frac{3}{4} \times 2$	38.5x19.5x50.8	78.5	448	1	448	25.4	1994
$2\frac{1}{2}$	63.5	64.4	368	1.25	460	31.8	2041
3	76.2	58.8	336	1.5	504	38.1	2240
$3\frac{1}{2}$	88.9	46.3	264	1.75	462	44.2	2060
4	101.6	37.8	216	2	432	50.8	1920
$4\frac{1}{2}$	114.3	36.4	208	2.25	468	57.2	2078
5	127	35	200	2.5	500	63.5	2223
$5\frac{1}{2}$	139.7	29.4	168	2.75	462	69.9	2052

6	152.4	25.2	144	3	432	76.2	1920
7	177.8	23.8	136	3.5	476	88.9	2116
8	203.2	22.4	128	4	512	101.6	2276
10	254	15.4	88	5	440	127	1956
12	305	14	80	6	480	152.5	2135
$2 \times 1 \times 2\frac{1}{2}$	51x25.5x63.5	156.9	896	1.25	1120	31.8	4989
3	76.2	134.5	768	1.5	11523	38.1	5124
$3\frac{1}{2}$	88.9	113.5	648	1.75	1134	44.2	5051
4	101.6	96.7	552	2	1104	50.8	4912
$4\frac{1}{2}$	114.3	82.7	472	2.25	1062	57.2	1722
5	127	72.9	416	2.5	1040	63.5	4629
$5\frac{1}{2}$	139.7	68.6	392	2.75	1078	69.9	4788
6	152.4	61.7	352	3	1056	76.2	4072
7	177.8	54.6	312	3.5	1092	88.9	4854
8	203.2	44.8	256	4	1024	101.6	4552
10	254	36.4	208	5	1040	127	4623
12	305	29.4	168	6	1008	152.5	4484