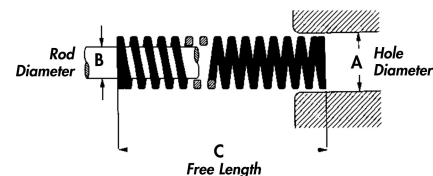




LIGHT LOAD

Vacuum degassed,
valve spring quality alloy steel



Sizes: 10 to 16 mm

Colour: Green

Hole Dia. mm	Rod Dia. mm	Free Length mm	CATALOGUE NUMBER	RATE Deka- Newtons (daN) Required to Deflect 1 mm	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 daN	Deflection mm	Load daN	Deflection mm	Load daN	Deflection mm	Load daN	Deflection mm
Round Wire Construction												
10	5	25	9 - 0604 - 110	0.46	2.9	6.3	3.5	7.5	4.6	10	6.0	13
		32	9 - 0605 - 110	0.35	2.8	8.0	3.4	9.6	4.5	13	5.6	16
		38	9 - 0606 - 110	0.28	2.7	9.5	3.2	11	4.3	15	5.7	20
		44	9 - 0607 - 110	0.24	2.6	11	3.1	13	4.2	18	5.5	23
		51	9 - 0608 - 110	0.21	2.7	13	3.2	15	4.3	20	5.7	27
		64	9 - 0610 - 110	0.17	2.7	16	3.3	19	4.4	26	5.8	34
		76	9 - 0612 - 110	0.13	2.5	19	3.0	23	4.0	30	5.3	40
305	9 - 0648 - 110	0.03	2.4	76	2.9	92	3.8	122	5.1	163		
12.5	6.3	25	9 - 0804 - 110	0.90	5.6	6.3	6.8	7.5	9.0	10	11.7	13
		32	9 - 0805 - 110	0.67	5.4	8.0	6.5	9.6	8.6	13	11.4	17
		38	9 - 0806 - 110	0.54	5.1	9.5	6.2	11	8.2	15	10.8	20
		44	9 - 0807 - 110	0.46	5.0	11	6.0	13	8.0	18	10.5	23
		51	9 - 0808 - 110	0.39	4.9	13	5.9	15	7.9	20	10.5	27
		64	9 - 0810 - 110	0.30	4.8	16	5.7	19	7.7	26	10.5	35
		76	9 - 0812 - 110	0.25	4.8	19	5.8	23	7.7	30	10.4	41
89	9 - 0814 - 110	0.21	4.7	22	5.6	27	7.5	36	10.3	49		
305	9 - 0848 - 110	0.06	4.5	76	5.4	92	7.3	122	9.9	166		
16	8	25	9 - 1004 - 110	1.78	11.1	6.3	13.4	7.5	17.8	10	23.1	13
		32	9 - 1005 - 110	1.34	10.7	8.0	12.9	9.6	17.2	13	21.4	16
		38	9 - 1006 - 110	1.06	10.0	9.5	12.0	11	16.1	15	21.1	20
		44	9 - 1007 - 110	0.87	9.6	11	11.5	13	15.3	18	20.0	23
		51	9 - 1008 - 110	0.76	9.7	13	11.6	15	15.5	20	20.5	27
		64	9 - 1010 - 110	0.59	9.5	16	11.4	19	15.2	26	20.1	34
		76	9 - 1012 - 110	0.48	9.1	19	10.9	23	14.5	30	19.6	41
89	9 - 1014 - 110	0.41	9.1	22	10.9	27	14.6	36	20.1	49		
102	9 - 1016 - 110	0.35	9.0	26	10.8	31	14.4	41	19.7	56		
305	9 - 1048 - 110	0.11	8.5	76	10.3	92	13.7	122	19.1	170		
Rectangular Wire Construction												
10	5	25	9 - 0604 - 115	1.00	6.3	6.3	7.5	7.5	10.0	10	15.0	15
		32	9 - 0605 - 115	0.85	6.8	8.0	8.2	9.6	10.9	13	16.2	19
		38	9 - 0606 - 115	0.68	6.5	9.5	7.8	11	10.3	15	15.6	23
		44	9 - 0607 - 115	0.60	6.6	11	7.9	13	10.6	18	16.2	27
		51	9 - 0608 - 115	0.50	6.4	13	7.7	15	10.2	20	15.5	31
		64	9 - 0610 - 115	0.43	6.9	16	8.3	19	11.0	26	17.6	41
		76	9 - 0612 - 115	0.32	6.1	19	7.3	23	9.7	30	15.4	48
305	9 - 0648 - 115	0.11	8.4	76	10.1	92	13.4	122	20.6	187		
12.5	6.3	25	9 - 0804 - 115	1.79	11.2	6.3	13.4	7.5	17.9	10	23.3	13
		32	9 - 0805 - 115	1.64	13.1	8.0	15.7	9.6	21.0	13	27.9	17
		38	9 - 0806 - 115	1.36	12.9	9.5	15.5	11	20.7	15	29.9	22
		44	9 - 0807 - 115	1.21	13.3	11	16.0	13	21.3	18	30.3	25
		51	9 - 0808 - 115	1.14	14.5	13	17.4	15	23.3	20	33.1	29
		64	9 - 0810 - 115	0.93	14.9	16	17.9	19	23.8	26	34.4	37
		76	9 - 0812 - 115	0.71	13.5	19	16.2	23	21.6	30	33.4	47
89	9 - 0814 - 115	0.54	12.0	22	14.4	27	19.2	36	29.2	54		
115	9 - 0818 - 115	0.44	12.5	29	15.0	34	20.1	46	31.7	72		
140	9 - 0822 - 115	0.37	13.0	35	15.5	42	20.7	56	33.7	91		
165	9 - 0826 - 115	0.26	10.7	41	12.9	50	17.2	66	25.7	99		
190	9 - 0830 - 115	0.20	9.5	48	11.4	57	15.2	76	22.2	111		
305	9 - 0848 - 115	0.14	10.7	76	12.8	92	17.1	122	25.8	184		
16	8	25	9 - 1004 - 115	2.34	14.6	6.3	17.6	7.5	23.4	10	25.7	11
		32	9 - 1005 - 115	2.29	18.3	8.0	22.0	9.6	29.3	13	38.9	17
		38	9 - 1006 - 115	1.93	18.3	9.5	22.0	11	29.3	15	38.6	20
		44	9 - 1007 - 115	1.71	18.8	11	22.6	13	30.1	18	41.0	24
		51	9 - 1008 - 115	1.57	20.0	13	24.0	15	32.0	20	45.5	29
		64	9 - 1010 - 115	1.07	17.1	16	20.5	19	27.4	26	39.6	37
		76	9 - 1012 - 115	1.00	19.0	19	22.8	23	30.4	30	42.0	42
89	9 - 1014 - 115	0.86	19.1	22	23.0	27	30.6	36	43.9	51		
102	9 - 1016 - 115	0.78	19.9	26	23.9	31	31.8	41	48.4	62		
305	9 - 1048 - 115	0.25	19.1	76	22.9	92	30.5	122	45.3	181		

Hole Dia. mm	Rod Dia. mm	Free Length mm	CATALOGUE NUMBER	RATE Deka- Newtons (daN) Required to Deflect 1 mm	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 daN	Deflection mm	Load daN	Deflection mm	Load daN	Deflection mm	Load daN	Deflection mm
20	10	25	9 - 1204 - 110	5.56	34.8	6.3	41.7	7.5	55.6	10	72.3	13
		32	9 - 1205 - 110	4.27	34.2	8.0	41.0	9.6	54.7	13	68.4	16
		38	9 - 1206 - 110	3.39	32.2	9.5	38.6	11	51.5	15	64.4	19
		44	9 - 1207 - 110	2.85	31.4	11	37.6	13	50.2	18	65.6	23
		51	9 - 1208 - 110	2.47	31.5	13	37.8	15	50.4	20	64.2	26
		64	9 - 1210 - 110	1.93	30.8	16	37.0	19	49.3	26	61.6	32
		76	9 - 1212 - 110	1.61	30.6	19	36.7	23	48.9	30	64.4	40
		89	9 - 1214 - 110	1.35	29.9	22	35.9	27	47.9	36	61.9	46
		102	9 - 1216 - 110	1.18	30.1	26	36.2	31	48.2	41	62.7	53
		115	9 - 1218 - 110	1.04	29.9	29	35.8	35	47.8	46	62.3	60
		127	9 - 1220 - 110	0.94	29.8	32	35.8	38	47.8	51	63.0	67
		140	9 - 1222 - 110	0.85	29.7	35	35.7	42	47.6	56	62.0	73
		152	9 - 1224 - 110	0.79	29.9	38	35.9	46	47.9	61	63.8	81
		305	9 - 1248 - 110	0.38	28.8	76	34.6	92	46.2	122	61.3	162
25	12.5	25	9 - 1604 - 110	10.00	62.5	6.3	75.0	7.5	100	10	130	13
		32	9 - 1605 - 110	8.06	64.4	8.0	77.3	9.6	103	13	129	16
		38	9 - 1606 - 110	6.48	61.6	9.5	73.9	11	98.5	15	123	19
		44	9 - 1607 - 110	5.33	58.6	11	70.4	13	93.8	18	123	23
		51	9 - 1608 - 110	4.62	58.9	13	70.7	15	94.2	20	116	25
		64	9 - 1610 - 110	3.57	57.2	16	68.6	19	91.5	26	111	31
		76	9 - 1612 - 110	2.92	55.6	19	66.7	23	88.9	30	114	39
		89	9 - 1614 - 110	2.48	55.2	22	66.2	27	88.3	36	114	46
		102	9 - 1616 - 110	2.12	54.0	26	64.8	31	86.5	41	110	52
		115	9 - 1618 - 110	1.87	53.9	29	64.6	35	86.2	46	111	59
		127	9 - 1620 - 110	1.67	53.2	32	63.8	38	85.1	51	111	66
		140	9 - 1622 - 110	1.52	53.2	35	63.8	42	85.1	56	112	74
		152	9 - 1624 - 110	1.39	52.8	38	63.4	46	84.5	61	111	80
		178	9 - 1628 - 110	1.19	53.0	45	63.5	53	84.7	71	111	93
		203	9 - 1632 - 110	1.05	53.4	51	64.1	61	85.5	81	113	107
		305	9 - 1648 - 110	0.70	53.3	76	63.9	92	85.3	122	112	160
32	16	38	9 - 2006 - 110	9.40	89.3	9.5	107	11	143	15	179	19
		44	9 - 2007 - 110	7.95	87.5	11	105	13	140	18	175	22
		51	9 - 2008 - 110	6.70	85.4	13	103	15	137	20	168	25
		64	9 - 2010 - 110	5.50	88.0	16	106	19	141	26	176	32
		76	9 - 2012 - 110	4.60	87.4	19	105	23	140	30	179	39
		89	9 - 2014 - 110	3.72	82.8	22	99.3	27	132	36	167	45
		102	9 - 2016 - 110	3.20	81.6	26	97.9	31	131	41	166	52
		115	9 - 2018 - 110	2.96	85.1	29	102	35	136	46	172	58
		127	9 - 2020 - 110	2.50	79.4	32	95.3	38	127	51	163	65
		140	9 - 2022 - 110	2.35	82.3	35	98.7	42	132	56	169	72
		152	9 - 2024 - 110	2.15	81.9	38	98.2	46	131	61	168	78
		178	9 - 2028 - 110	1.82	81.1	45	97.3	53	130	71	160	88
		203	9 - 2032 - 110	1.59	80.5	51	96.6	61	129	81	165	104
		254	9 - 2040 - 110	1.26	80.0	64	96.0	76	128	102	164	130
		305	9 - 2048 - 110	1.04	79.1	76	94.9	92	126	122	161	155
40	20	51	9 - 2408 - 110	9.20	117	13	141	15	188	20	230	25
		64	9 - 2410 - 110	7.29	117	16	140	19	187	26	233	32
		76	9 - 2412 - 110	6.30	120	19	144	23	192	30	239	38
		89	9 - 2414 - 110	5.10	113	22	136	27	182	36	230	45
		102	9 - 2416 - 110	4.30	110	26	132	31	175	41	219	51
		115	9 - 2418 - 110	3.96	114	29	137	35	182	46	230	58
		127	9 - 2420 - 110	3.70	117	32	141	38	188	51	241	65
		140	9 - 2422 - 110	3.20	112	35	134	42	179	56	227	71
		152	9 - 2424 - 110	2.80	106	38	128	46	170	61	218	78
		178	9 - 2428 - 110	2.52	112	45	135	53	179	71	232	92
		203	9 - 2432 - 110	2.27	115	51	138	61	184	81	238	105
		254	9 - 2440 - 110	1.70	108	64	130	76	173	102	223	131
		305	9 - 2448 - 110	1.48	113	76	136	92	181	122	233	157
50	25	64	9 - 3210 - 110	15.7	251	16	302	19	402	26	503	32
		76	9 - 3212 - 110	12.6	240	19	287	23	383	30	492	39
		89	9 - 3214 - 110	10.5	234	22	281	27	375	36	473	45
		102	9 - 3216 - 110	8.98	229	26	275	31	366	41	467	52
		115	9 - 3218 - 110	7.67	221	29	265	35	353	46	445	58
		127	9 - 3220 - 110	7.01	222	32	267	38	356	51	455	65
		140	9 - 3222 - 110	6.30	221	35	265	42	353	56	454	72
		152	9 - 3224 - 110	5.74	218	38	262	46	349	61	448	78
		178	9 - 3228 - 110	4.87	217	45	260	53	347	71	448	92
		203	9 - 3232 - 110	4.15	211	51	253	61	337	81	432	104
		254	9 - 3240 - 110	3.29	209	64	251	76	335	102	428	130
		305	9 - 3248 - 110	2.71	207	76	248	92	331	122	423	156
63	38	76	9 - 4012 - 110	19.3	366	19	439	23	586	30	732	38
		89	9 - 4014 - 110	15.8	351	22	422	27	562	36	695	44
		102	9 - 4016 - 110	13.4	341	26	409	31	546	41	669	50
		115	9 - 4018 - 110	11.6	333	29	400	35	533	46	661	57
		127	9 - 4020 - 110	10.2	323	32	387	38	516	51	650	64
		152	9 - 4024 - 110	8.36	318	38	381	46	508	61	635	76
		178	9 - 4028 - 110	7.02	313	45	375	53	500	71	625	89
		203	9 - 4032 - 110	6.04	307	51	368	61	491	81	616	102
		254	9 - 4040 - 110	4.69	298	64	358	76	477	102	591	126
		305	9 - 4048 - 110	3.87	295	76	354	92	472	122	588	152