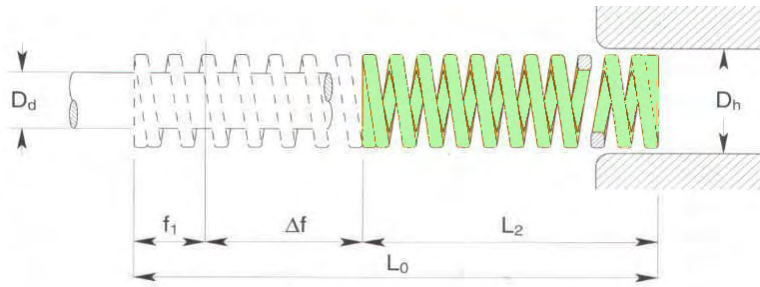


# Extra-Light Load Springs

VL-SERIES

RECTANGULAR WIRE

COLOUR CODE LIGHT GREEN



$D_H$	$D_d$	$L_0$	Catalogue No.	R	A		B		C		D	
					25% $L_0$		30% $L_0$		37.5% $L_0$		$f_b$	
mm	mm	mm		N/mm	N	mm	N	mm	N	mm	N	mm
20	10	25	VL20-025	29.4	221	7.5	294	10.0	368	12.5	409	13.9
		32	VL20-032	22.6	217	9.6	289	12.8	362	16.0	411	18.2
		38	VL20-038	18.6	212	11.4	283	15.2	353	19.0	409	22.0
		44	VL20-044	15.7	207	13.2	276	17.6	345	22.0	405	25.8
		51	VL20-051	13.7	210	15.3	279	20.4	349	25.5	415	30.3
		64	VL20-064	11.3	217	19.2	289	25.6	362	32.0	440	38.9
		76	VL20-076	9.8	223	22.8	298	30.4	372	38.0	461	47.0
		89	VL20-089	8.3	222	26.7	295	35.6	369	44.5	462	55.7
		102	VL20-102	7.4	226	30.6	302	40.8	377	51.0	475	64.2
		115	VL20-115	6.4	221	34.5	294	46.0	368	57.5	467	72.9
		127	VL20-127	5.9	225	38.1	300	50.8	375	63.5	476	80.7
		139	VL20-139	5.4	225	41.7	300	55.6	375	69.5	477	88.4
		152	VL20-152	4.9	223	45.6	298	60.8	372	76.0	474	96.7
		305	VL20-305	2.5	229	91.5	305	122.0	381	152.5	491	196.3
25	12.5	25	VL25-025	54	404	7.5	539	10.0	674	12.5	695	12.9
		32	VL25-032	42.2	405	9.6	540	12.8	675	16.0	726	17.2
		38	VL25-038	35.8	408	11.4	544	15.2	680	19.0	741	20.7
		44	VL25-044	31.4	414	13.2	553	17.6	691	22.0	766	24.4
		51	VL25-051	27.0	413	15.3	551	20.4	689	25.5	770	28.5
		64	VL25-064	21.6	415	19.2	553	25.6	691	32.0	788	36.5
		76	VL25-076	18.1	413	22.8	550	30.4	688	38.0	795	43.9
		89	VL25-089	15.2	406	26.7	541	35.6	676	44.5	781	51.4
		102	VL25-102	13.2	404	30.6	539	40.8	673	51.0	783	59.3
		115	VL25-115	11.8	407	34.5	543	46.0	679	57.5	793	67.2
		127	VL25-127	10.6	404	38.1	538	50.8	673	63.5	789	74.4
		139	VL25-139	9.6	400	41.7	534	55.6	667	69.5	783	81.6
		152	VL25-152	8.8	401	45.6	535	60.8	669	76.0	788	89.5
		178	VL25-178	7.6	406	53.4	541	71.2	676	89.0	801	105.4
203	VL25-203	6.7	408	60.9	544	81.2	680	101.5	809	120.7		
305	VL25-305	4.4	403	91.5	537	122.0	671	152.5	803	182.4		

Note: 1 N = 0,102 Kg (Force)

D <sub>H</sub>	D <sub>d</sub>	L <sub>0</sub>	Catalogue No.	R	A		B		C		D	
					25% L <sub>0</sub>		30% L <sub>0</sub>		37.5% L <sub>0</sub>		f <sub>b</sub>	
mm	mm	mm		N/mm	N	mm	N	mm	N	mm	N	mm
32	16	38	VL32-038	43.1	491	11.4	655	15.2	819	19.0	858	19.9
		44	VL32-044	37.3	492	13.2	656	17.6	821	22.0	877	23.5
		51	VL32-051	32.4	496	15.3	661	20.4	826	25.5	894	27.6
		64	VL32-064	25.5	490	19.2	653	25.6	816	32.0	898	35.2
		76	VL32-076	21.6	492	22.8	657	30.4	821	38.0	916	42.4
		89	VL32-089	18.1	483	26.7	644	35.6	805	44.5	905	50.0
		102	VL32-102	15.7	480	30.6	641	40.8	801	51.0	904	57.6
		115	VL32-115	14.2	490	34.5	653	46.0	817	57.5	93	65.5
		127	VL32-127	12.7	484	38.1	645	50.8	806	63.5	921	72.5
		139	VL32-139	11.6	484	41.7	645	55.6	806	69.5	921	79.4
		152	VL32-152	10.6	483	45.6	644	60.8	806	76.0	925	87.3
		178	VL32-178	9.0	481	43.4	641	71.2	801	89.0	926	102.9
		203	VL32-203	7.8	475	60.9	633	81.2	792	101.5	918	117.7
		254	VL32-254	6.4	488	76.2	650	101.6	713	127.0	948	148.1
305	VL32-305	5.3	485	91.5	647	122.0	808	152.5	945	178.3		
40	20	51	VL40-051	48.1	736	15.3	981	20.4	1227	25.5	1347	28.0
		64	VL40-064	39.2	753	19.2	1004	25.6	1254	32.0	1419	36.2
		76	VL40-076	33.3	759	22.8	1012	30.4	1265	38.0	1455	43.7
		89	VL40-089	28.4	758	26.7	1011	35.6	1264	44.5	1468	51.7
		102	VL40-102	24.5	750	30.6	1000	40.8	1250	51.0	1465	59.8
		115	VL40-115	22.1	762	34.5	1017	46.0	1271	57.5	1501	67.9
		127	VL40-127	19.6	747	38.1	996	50.8	1245	63.5	1474	75.2
		139	VL40-139	17.7	738	41.7	984	55.6	1230	69.5	1458	82.4
		152	VL40-152	16.2	739	45.6	985	60.8	1231	76.0	1468	90.6
		178	VL40-178	13.7	732	53.4	975	71.2	1219	89.0	1459	106.5
		203	VL40-203	12.3	749	60.9	999	81.2	1248	101.5	1503	122.2
		254	VL40-254	9.8	747	76.2	996	101.6	1245	127.0	1505	153.6
305	VL40-305	8.3	759	91.5	1013	122.0	1266	152.5	1539	185.4		
50	25	64	VL50-064	86.3	1657	19.2	2209	25.6	2762	32.0	3029	35.1
		76	VL50-076	70.6	1610	22.8	2146	30.4	2683	38.0	2979	42.2
		89	VL50-089	59.8	1597	26.7	2129	35.6	2661	44.5	3008	50.3
		102	VL50-102	52.0	1591	30.6	2122	40.8	2652	51.0	3037	58.4
		115	VL50-115	46.1	1590	34.5	2121	46.0	2651	57.5	3047	66.1
		127	VL50-127	42.2	1608	38.1	2144	50.8	2680	63.5	3114	73.8
		139	VL50-139	38.2	1593	41.7	2124	55.6	2655	69.5	3090	80.9
		152	VL50-152	34.3	1564	45.6	2085	60.8	2607	76.0	3053	89.0
		178	VL50-178	29.4	1570	53.4	2093	71.2	2617	89.0	3096	105.3
		203	VL50-203	25.5	1553	60.9	2071	81.2	2588	101.5	3075	120.6
		254	VL50-254	20.6	1570	76.2	2093	101.6	2616	127.0	3135	152.2
305	VL50-305	17.2	1574	91.5	2098	122.0	2623	152.5	3160	183.7		

Note: 1 N = 0,102 Kg (Force)