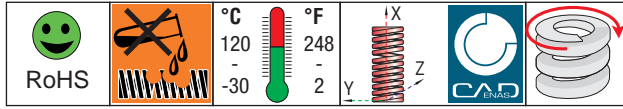
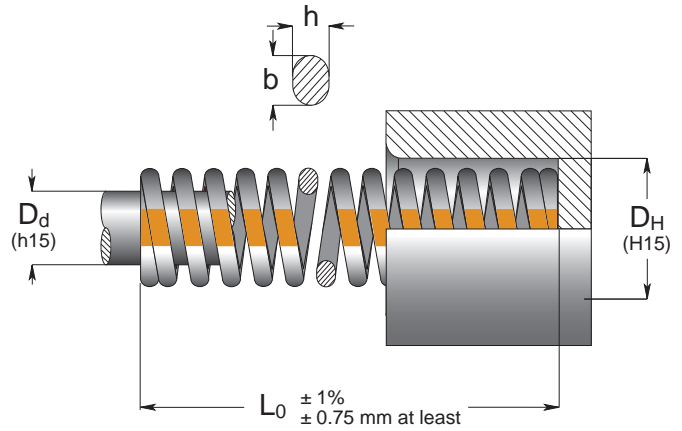


EN Heavy load springs
Silver-gold color

ES Muelles carga fuerte
Color plateado-oro

FR Ressorts charge forte
Couleur argent-or



Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A 15% L ₀		B 20% L ₀		C 25% L ₀		D 30% L ₀		E approx. do not use	Pcs
					mm	N	mm	N	mm	N	mm	N		
	b x h			± 10%	+ 3.000.000		~ 1.500.000		300 - 500.000		100 - 200.000			
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	
HGO 10 - 025	9.5	4.7	25	22.5	3.8	86	5.0	113	6.3	141	7.5	169	9.2	50
HGO 10 - 032			32	18.6	4.8	89	6.4	119	8.0	149	9.6	179	12.1	50
HGO 10 - 038			38	15.9	5.7	91	7.6	121	9.5	151	11.4	181	13.2	50
HGO 10 - 044			44	13.7	6.6	90	8.8	121	11.0	151	13.2	181	15.1	50
HGO 10 - 051			51	11.8	7.7	91	10.2	120	12.8	150	15.3	180	19.5	25
HGO 10 - 064			64	8.8	9.6	84	12.8	113	16.0	141	19.2	169	21.8	25
HGO 10 - 076	76	6.4	11.4	73	15.2	97	19.0	122	22.8	146	27.9	25		
HGO 10 - 305	1.90 x 1.50		305	1.7	45.8	78	61.0	104	76.3	130	91.5	156	127.2	10
HGO 13 - 025	13	7	25	37.3	3.8	142	5.0	187	6.3	233	7.5	280	9.8	50
HGO 13 - 032			32	32.5	4.8	156	6.4	208	8.0	260	9.6	312	13.6	50
HGO 13 - 038			38	28.4	5.7	162	7.6	216	9.5	270	11.4	324	14.6	50
HGO 13 - 044			44	24.5	6.6	162	8.8	216	11.0	270	13.2	323	18.1	25
HGO 13 - 051			51	18.6	7.7	143	10.2	190	12.8	237	15.3	285	22.3	25
HGO 13 - 064			64	15.7	9.6	151	12.8	201	16.0	251	19.2	301	27.3	25
HGO 13 - 076	76	13.7	11.4	156	15.2	208	19.0	260	22.8	312	33.1	25		
HGO 13 - 089	89	10.8	13.4	145	17.8	192	22.3	240	26.7	288	38.9	20		
HGO 13 - 102	102	7.4	15.3	113	20.4	151	25.5	189	30.6	226	43.8	10		
HGO 13 - 305	2.40 x 1.90		305	3.1	45.8	142	61.0	189	76.3	236	91.5	284	139.7	10
HGO 16 - 025	16	8.7	25	78.2	3.8	297	5.0	391	6.3	489	7.5	587	8.4	50
HGO 16 - 032			32	49.8	4.8	287	6.4	383	8.0	398	9.6	574	10.5	50
HGO 16 - 038			38	41.0	5.7	291	7.6	388	9.5	390	11.4	581	13.6	25
HGO 16 - 044			44	43.1	6.6	284	8.8	379	11.0	474	13.2	569	15.9	25
HGO 16 - 051			51	38.2	7.7	294	10.2	390	12.8	487	15.3	584	18.9	25
HGO 16 - 064			64	31.4	9.6	301	12.8	402	16.0	502	19.2	603	24.9	25
HGO 16 - 076	76	12.5	11.4	279	15.2	372	19.0	238	22.8	559	29.2	20		
HGO 16 - 089	89	20.6	13.4	276	17.8	367	22.3	458	26.7	550	34.5	20		
HGO 16 - 102	102	18.6	15.3	285	20.4	379	25.5	474	30.6	569	39.1	20		
HGO 16 - 115	115	15.7	17.3	272	23.0	361	28.8	451	34.5	542	44.0	10		
HGO 16 - 305	3.10 x 2.50		305	5.7	45.8	261	61.0	348	76.3	435	91.5	522	103.6	10
HGO 19 - 025	19.5	9.5	25	181.4	3.8	689	5.0	907	6.3	1134	7.5	1361	8.5	50
HGO 19 - 032			32	137.3	4.8	659	6.4	879	8.0	1098	9.6	1318	11.0	50
HGO 19 - 038			38	107.9	5.7	615	7.6	820	9.5	1025	11.4	1230	12.7	25
HGO 19 - 044			44	94.1	6.6	621	8.8	828	11.0	1035	13.2	1242	15.2	25
HGO 19 - 051			51	78.5	7.7	604	10.2	801	12.8	1001	15.3	1201	17.8	25
HGO 19 - 064			64	65.0	9.6	624	12.8	832	16.0	1040	19.2	1248	22.9	25
HGO 19 - 076	76	56.9	11.4	649	15.2	865	19.0	1081	22.8	1297	27.8	25		
HGO 19 - 089	89	47.1	13.4	6341	17.8	838	22.3	1048	26.7	1258	32.1	20		
HGO 19 - 102	102	41.2	15.3	630	20.4	840	25.5	1051	30.6	1261	37.1	20		
HGO 19 - 115	115	36.3	17.3	628	23.0	835	28.8	1044	34.5	1252	43.0	10		
HGO 19 - 127	127	32.4	19.1	619	25.4	823	31.8	1029	38.1	1234	46.8	10		
HGO 19 - 140	140	29.4	21.0	617	28.0	823	35.0	1029	42.0	1235	53.1	10		
HGO 19 - 152	152	25.5	22.8	581	30.4	775	38.0	969	45.6	1263	56.4	10		
HGO 19 - 305	4.00 x 3.20		305	14.7	45.8	673	61.0	897	76.3	1121	91.5	1345	115.3	10



Code	D _H	D _d	L ₀	R	A		B		C		D		E	Pcs	
	Hole Diameter	Rod Diameter	Free Length	Spring Constant	15% L ₀	N	20% L ₀	N	25% L ₀	N	30% L ₀	N	approx.		
	b x h			± 10%	+ 3.000.000		~ 1.500.000		300 - 500.000		100 - 200.000		do not use		
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm		
HGO 26 - 025	25.5	13	25	333.4	3.8	1267	5.0	1667	6.3	2084	7.5	2501	7.7	50	
HGO 26 - 032			32	257.4	4.8	1236	6.4	1647	8.0	2059	9.6	2471	10.6	25	
HGO 26 - 038			38	210.8	5.7	1202	7.6	1602	9.5	2003	11.4	2403	12.8	25	
HGO 26 - 044			44	176.5	6.6	1165	8.8	1553	11.0	1942	13.2	2330	15.2	25	
HGO 26 - 051			51	148.1	7.7	1140	10.2	1511	12.8	1888	15.3	2266	17.7	25	
HGO 26 - 064			64	119.6	9.6	1148	12.8	1531	16.0	1914	19.2	2296	22.9	20	
HGO 26 - 076			76	100.0	11.4	1140	15.2	1520	19.0	1900	22.8	2280	27.5	20	
HGO 26 - 089			89	83.4	13.4	1118	17.8	1485	22.3	1856	26.7	2227	32.6	20	
HGO 26 - 102			102	73.6	15.3	1126	20.4	1501	25.5	1877	30.6	2252	39.7	10	
HGO 26 - 115			115	63.7	17.3	1102	23.0	1465	28.8	1831	34.5	2198	42.7	10	
HGO 26 - 127			127	56.9	19.1	1087	25.4	1445	31.8	1807	38.1	2168	47.9	10	
HGO 26 - 140			140	51.0	21.0	1071	28.0	1428	35.0	1785	42.0	2142	52.9	10	
HGO 26 - 152			152	47.1	22.8	1074	30.4	1432	38.0	1790	45.6	2148	57.0	10	
HGO 26 - 178			178	41.2	26.7	100	35.6	1467	44.5	1833	53.4	2200	68.2	10	
HGO 26 - 203	203	36.3	30.5	1107	40.6	1474	50.8	1842	60.9	2211	77.4	10			
HGO 26 - 305	5.50 x 4.10	305	22.6	45.8	1035	61.0	1379	76.3	1723	91.5	2068	113.0	5		
HGO 32 - 038	32	16	38	362.9	5.7	2069	7.6	2758	9.5	3448	11.4	4137	12.6	20	
HGO 32 - 044			44	307.9	6.6	2032	8.8	2710	11.0	3387	13.2	4064	13.7	20	
HGO 32 - 051			51	262.8	7.7	2024	10.2	2681	12.8	3351	15.3	4021	16.0	20	
HGO 32 - 064			64	205.9	9.6	1977	12.8	2636	16.0	3294	19.2	3953	21.8	20	
HGO 32 - 076			76	171.6	11.4	1956	15.2	2608	19.0	3260	22.8	3912	26.7	20	
HGO 32 - 089			89	147.1	13.4	1971	17.8	2618	22.3	3273	26.7	3928	29.9	10	
HGO 32 - 102			102	127.5	15.3	1951	20.4	2601	25.5	3251	30.6	3902	37.1	10	
HGO 32 - 115			115	112.8	17.3	1951	23.0	2594	28.8	3243	34.5	3892	41.6	10	
HGO 32 - 127			127	121.0	19.1	1929	25.4	2565	31.8	3842	38.1	3848	45.1	10	
HGO 32 - 140			140	88.3	21.0	1854	28.0	2472	35.0	3091	42.0	3709	51.0	10	
HGO 32 - 152			152	80.9	22.8	1845	30.4	2459	38.0	3074	45.6	3689	54.6	10	
HGO 32 - 178			178	68.6	26.7	1832	35.6	2442	44.5	3053	53.4	3683	65.0	5	
HGO 32 - 203			203	59.8	30.5	1824	40.6	2428	50.8	3035	60.9	3842	75.7	5	
HGO 32 - 254			254	46.9	38.1	1787	50.8	2383	63.5	2978	76.2	3574	95.6	5	
HGO 32 - 305	7.40 x 5.20	305	39.2	45.8	1795	61.0	2391	76.3	2989	91.5	3587	118.0	5		
HGO 38 - 051	38.5	19.5	51	313.8	7.7	2416	10.2	3201	12.8	4001	15.3	4801	21.4	20	
HGO 38 - 064			64	230.5	9.6	2213	12.8	2750	16.0	3688	19.2	4426	28.8	10	
HGO 38 - 076			76	196.1	11.4	2236	15.2	2781	19.0	3726	22.8	4471	33.6	10	
HGO 38 - 089			89	171.6	13.4	2299	17.8	3054	22.3	3818	26.7	4582	40.3	10	
HGO 38 - 102			102	142.2	15.3	2176	20.4	2901	25.5	3626	30.6	4351	46.1	10	
HGO 38 - 115			115	124.5	17.3	2154	23.0	2864	28.8	3579	34.5	4295	52.2	10	
HGO 38 - 127			127	112.8	19.1	2154	25.4	2865	31.8	3581	38.1	4298	58.4	5	
HGO 38 - 140			140	103.0	21.0	2163	28.0	2884	35.0	3605	42.0	4326	64.5	5	
HGO 38 - 152			152	93.2	22.8	2125	30.4	2833	38.0	3542	45.6	4250	70.8	5	
HGO 38 - 178			178	80.4	26.7	2147	35.6	2862	44.5	3578	53.4	4293	82.0	5	
HGO 38 - 203			203	70.6	30.5	2153	40.6	2866	50.8	3583	60.9	4300	95.8	5	
HGO 38 - 254			254	56.9	38.1	2168	50.8	2891	63.5	3613	76.2	4336	118.6	5	
HGO 38 - 305			8.50 x 5.70	305	47.1	45.8	2157	61.0	2873	76.3	3591	91.5	4310	145.5	5
HGO 51 - 064			51	25.5	64	392.3	9.6	3766	12.8	5021	16.0	6277	19.2	7532	22.5
HGO 51 - 076	76	328.5			11.4	3745	15.2	4993	19.0	6242	22.8	7490	27.2	5	
HGO 51 - 089	89	274.6			13.4	3680	17.8	4888	22.3	6110	26.7	7332	32.0	5	
HGO 51 - 102	102	235.4			15.3	3602	20.4	4802	25.5	6003	30.6	7203	36.9	5	
HGO 51 - 115	115	205.9			17.3	3562	23.0	4736	28.8	5920	34.5	7104	42.8	5	
HGO 51 - 127	127	186.3			19.1	3558	25.4	4732	31.8	5915	38.1	7098	47.5	5	
HGO 51 - 140	140	166.7			21.0	3501	28.0	4668	35.0	5835	42.0	7001	54.2	5	
HGO 51 - 152	152	147.1			22.8	3354	30.4	4472	38.0	5590	45.6	6708	58.1	2	
HGO 51 - 178	178	127.5			26.7	3404	35.6	4539	44.5	5674	53.4	6809	69.6	2	
HGO 51 - 203	203	112.8			30.5	3440	40.6	4580	50.8	5725	60.9	6870	80.3	2	
HGO 51 - 254	254	88.3			38.1	3364	50.8	4486	63.5	5607	76.2	6728	101.7	2	
HGO 51 - 305	11.66 x 7.20	305			70.6	45.8	3233	61.0	4307	76.3	5383	91.5	6460	123.9	2

HGO
Metric