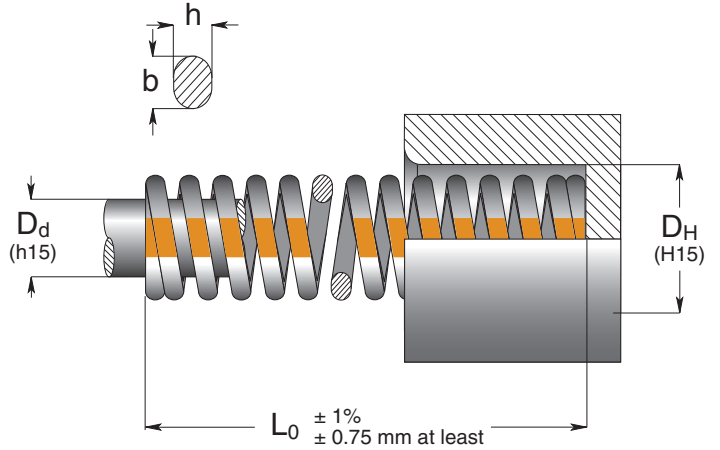
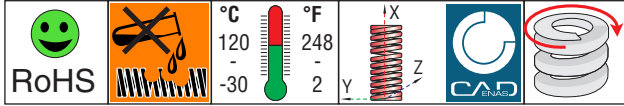


- IT** Molle carico forte
- EN** Heavy load springs
- DE** Federn für hohe Spannung
- FR** Ressorts charge forte
- ES** Muelles carga fuerte
- PT** Molas carga forte


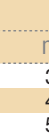

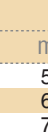

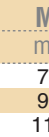



Code	D <sub>H</sub> Hole Diameter	D <sub>d</sub> Rod Diameter	L <sub>0</sub> Free Length	R Spring Constant	A		B		C		E	
					25% L <sub>0</sub> Long Life		40% L <sub>0</sub> Medium Life		50% L <sub>0</sub> Max Deflection		approx. do not use	
					mm	N	mm	N	mm	N	mm	N
	b x h			± 10%	Long Life		Medium Life		Max Deflection		approx. do not use	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N
HGO 37 - 100	9.5	4.7	25	22.5	3.8	86	5.0	113	7.5	169	9.2	207
HGO 37 - 125			32	18.6	4.8	89	6.4	119	9.6	179	12.1	225
HGO 37 - 150			38	15.9	5.7	91	7.6	121	11.4	181	13.2	210
HGO 37 - 175			44	13.7	6.6	90	8.8	121	13.2	181	15.1	207
HGO 37 - 200			51	11.8	7.7	91	10.2	120	15.3	180	19.5	230
HGO 37 - 250			64	8.8	9.6	84	12.8	113	19.2	169	21.8	192
HGO 37 - 300			76	6.4	11.4	73	15.2	97	22.8	146	27.9	179
HGO 37 - 1200	1.90 x 1.50		305	1.7	45.8	78	61.0	104	91.5	156	127.2	216
HGO 50 - 100	13	7	25	37.3	3.8	142	5.0	187	7.5	280	9.8	366
HGO 50 - 125			32	32.5	4.8	156	6.4	208	9.6	312	13.6	442
HGO 50 - 150			38	28.4	5.7	162	7.6	216	11.4	324	14.6	415
HGO 50 - 175			44	24.5	6.6	162	8.8	216	13.2	323	18.1	443
HGO 50 - 200			51	18.6	7.7	143	10.2	190	15.3	285	22.3	415
HGO 50 - 250			64	15.7	9.6	151	12.8	201	19.2	301	27.3	429
HGO 50 - 300			76	13.7	11.4	156	15.2	208	22.8	312	33.1	453
HGO 50 - 350			89	10.8	13.4	145	17.8	192	26.7	288	38.9	420
HGO 50 - 400			102	7.4	15.3	113	20.4	151	30.6	226	43.8	324
HGO 50 - 1200	2.40 x 1.90		305	3.1	45.8	142	61.0	189	91.5	284	139.7	433
HGO 62 - 100	16	8.7	25	78.2	3.8	297	5.0	391	7.5	587	8.4	657
HGO 62 - 125			32	49.8	4.8	287	6.4	383	9.6	574	10.5	628
HGO 62 - 150			38	41.0	5.7	291	7.6	388	11.4	581	13.6	694
HGO 62 - 175			44	43.1	6.6	284	8.8	379	13.2	569	15.9	685
HGO 62 - 200			51	38.2	7.7	294	10.2	390	15.3	584	18.9	722
HGO 62 - 250			64	31.4	9.6	301	12.8	402	19.2	603	24.9	782
HGO 62 - 300			76	12.5	11.4	279	15.2	372	22.8	559	29.2	715
HGO 62 - 350			89	20.6	13.4	276	17.8	367	26.7	550	34.5	711
HGO 62 - 400			102	18.6	15.3	285	20.4	379	30.6	569	39.1	727
HGO 62 - 450			115	15.7	17.3	272	23.0	361	34.5	542	44.0	691
HGO 62 - 1200	3.10 x 2.50		305	5.7	45.8	261	61.0	348	91.5	522	103.6	591
HGO 75 - 100	19.5	9.5	25	181.4	3.8	689	5.0	907	7.5	1361	8.5	1542
HGO 75 - 125			32	137.3	4.8	659	6.4	879	9.6	1318	11.0	1510
HGO 75 - 150			38	107.9	5.7	615	7.6	820	11.4	1230	12.7	1370
HGO 75 - 175			44	94.1	6.6	621	8.8	828	13.2	1242	15.2	1430
HGO 75 - 200			51	78.5	7.7	604	10.2	801	15.3	1201	17.8	1397
HGO 75 - 250			64	65.0	9.6	624	12.8	832	19.2	1248	22.9	1489
HGO 75 - 300			76	56.9	11.4	649	15.2	865	22.8	1297	27.8	1582
HGO 75 - 350			89	47.1	13.4	634	17.8	838	26.7	1258	32.1	1512
HGO 75 - 400			102	41.2	15.3	630	20.4	840	30.6	1261	37.1	1529
HGO 75 - 450			115	36.3	17.3	628	23.0	835	34.5	1252	43.0	1561
HGO 75 - 500			127	32.4	19.1	619	25.4	823	38.1	1234	46.8	1516
HGO 75 - 550			140	29.4	21.0	617	28.0	823	42.0	1235	53.1	1561
HGO 75 - 600			152	25.5	22.8	581	30.4	775	45.6	1263	56.4	1438
HGO 75 - 1200	4.00 x 3.20		305	14.7	45.8	673	61.0	897	91.5	1345	115.3	1695



# US Standard Oval Wire

# SERIES HGO

Code	D <sub>H</sub>	D <sub>d</sub>	L <sub>0</sub>	R	 <b>A</b> 25% L <sub>0</sub>  Long Life	 <b>B</b> 40% L <sub>0</sub>  Medium Life	 <b>C</b> 50% L <sub>0</sub>  Max Deflection	 <b>E</b> approx. <b>do not use</b>					
	b x h		Free Length	Spring Constant						N		N	
	mm	mm	mm	N/mm						mm	N	mm	N
HGO 100 - 100	25.5	13	25	333.4	3.8	1267	5.0	1667	7.5	2501	7.7	2567	
HGO 100 - 125			32	257.4	4.8	1236	6.4	1647	9.6	2471	10.6	2728	
HGO 100 - 150			38	210.8	5.7	1202	7.6	1602	11.4	2403	12.8	2698	
HGO 100 - 175			44	176.5	6.6	1165	8.8	1553	13.2	2330	15.2	2683	
HGO 100 - 200			51	148.1	7.7	1140	10.2	1511	15.3	2266	17.7	2621	
HGO 100 - 250			64	119.6	9.6	1148	12.8	1531	19.2	2296	22.9	2739	
HGO 100 - 300			76	100.0	11.4	1140	15.2	1520	22.8	2280	27.5	2750	
HGO 100 - 350			89	83.4	13.4	1118	17.8	1485	26.7	2227	32.6	2719	
HGO 100 - 400			102	73.6	15.3	1126	20.4	1501	30.6	2252	39.7	2922	
HGO 100 - 450			115	63.7	17.3	1102	23.0	1465	34.5	2198	42.7	2720	
HGO 100 - 500			127	56.9	19.1	1087	25.4	1445	38.1	2168	47.9	2726	
HGO 100 - 550			140	51.0	21.0	1071	28.0	1428	42.0	2142	52.9	2698	
HGO 100 - 600			152	47.1	22.8	1074	30.4	1432	45.6	2148	57.0	2685	
HGO 100 - 700			178	41.2	26.7	100	35.6	1467	53.4	2200	68.2	2810	
HGO 100 - 800	203	36.3	30.5	1107	40.6	1474	60.9	2211	77.4	2810			
HGO 100 - 1200	305	22.6	45.8	1035	61.0	1379	91.5	2068	113.0	2554			
HGO 125 - 150	7.40 x 5.20	16	38	362.9	5.7	2069	7.6	2758	11.4	4137	12.6	4573	
HGO 125 - 175			44	307.9	6.6	2032	8.8	2710	13.2	4064	13.7	4218	
HGO 125 - 200			51	3262.8	7.7	2024	10.2	2681	15.3	4021	16.0	4205	
HGO 125 - 250			64	205.9	9.6	1977	12.8	2636	19.2	3953	21.8	4489	
HGO 125 - 300			76	171.6	11.4	1956	15.2	2608	22.8	3912	26.7	4582	
HGO 125 - 350			89	147.1	13.4	1971	17.8	2618	26.7	3928	29.9	4398	
HGO 125 - 400			102	127.5	15.3	1951	20.4	2601	30.6	3902	37.1	4730	
HGO 125 - 450			115	112.8	17.3	1951	23.0	2594	34.5	3892	41.6	4692	
HGO 125 - 500			127	121.0	19.1	1929	25.4	2565	38.1	3848	45.1	4555	
HGO 125 - 550			140	88.3	21.0	1854	28.0	2472	42.0	3709	51.0	4503	
HGO 125 - 600			152	80.9	22.8	1845	30.4	2459	45.6	3689	54.6	4417	
HGO 125 - 700			178	68.6	26.7	1832	35.6	2442	53.4	3683	65.0	4459	
HGO 125 - 800			203	59.8	30.5	1824	40.6	2428	60.9	3842	75.7	4527	
HGO 125 - 1000			254	46.9	38.1	1787	50.8	2383	76.2	3574	95.6	4484	
HGO 125 - 1200	305	39.2	45.8	1795	61.0	2391	91.5	3587	118.0	4626			
HGO 150 - 200	8.50 x 5.70	19.5	51	313.8	7.7	2416	10.2	3201	15.3	4801	21.4	6715	
HGO 150 - 250			64	230.5	9.6	2213	12.8	2750	19.2	4426	28.8	6638	
HGO 150 - 300			76	196.1	11.4	2236	15.2	2781	22.8	4471	33.6	6589	
HGO 150 - 350			89	171.6	13.4	2299	17.8	3054	26.7	4582	40.3	6915	
HGO 150 - 400			102	142.2	15.3	2176	20.4	2901	30.6	4351	46.1	6555	
HGO 150 - 450			115	124.5	17.3	2154	23.0	2864	34.5	4295	52.2	6499	
HGO 150 - 500			127	112.8	19.1	2154	25.4	2865	38.1	4298	58.4	6588	
HGO 150 - 550			140	103.0	21.0	2163	28.0	2884	42.0	4326	64.5	6644	
HGO 150 - 600			152	93.2	22.8	2125	30.4	2833	45.6	4250	70.8	6599	
HGO 150 - 700			178	80.4	26.7	2147	35.6	2862	53.4	4293	82.0	6593	
HGO 150 - 800			203	70.6	30.5	2153	40.6	2866	60.9	4300	95.8	6763	
HGO 150 - 1000			254	56.9	38.1	2168	50.8	2891	76.2	4336	118.6	6748	
HGO 150 - 1200			305	47.1	45.8	2157	61.0	2873	91.5	4310	145.5	6853	
HGO 200 - 250			11.66 x 7.20	25.5	64	392.3	9.6	3766	12.8	5021	19.2	7532	22.5
HGO 200 - 300	76	328.5			11.4	3745	15.2	4993	22.8	7490	27.2	8935	
HGO 200 - 350	89	274.6			13.4	3680	17.8	4888	26.7	7332	32.0	8787	
HGO 200 - 400	102	235.4			15.3	3602	20.4	4802	30.6	7203	36.9	8686	
HGO 200 - 450	115	2055.9			17.3	3562	23.0	4736	34.5	7104	42.8	8813	
HGO 200 - 500	127	186.3			19.1	3558	25.4	4732	38.1	7098	47.5	8849	
HGO 200 - 550	140	166.7			21.0	3501	28.0	4668	42.0	7001	54.2	9035	
HGO 200 - 600	152	147.1			22.8	3354	30.4	4472	45.6	6708	58.1	8547	
HGO 200 - 700	178	127.5			26.7	3404	35.6	4539	53.4	6809	69.6	8874	
HGO 200 - 800	203	112.8			30.5	3440	40.6	4580	60.9	6870	80.3	9058	
HGO 200 - 1000	254	88.3			38.1	3364	50.8	4486	76.2	6728	101.7	8980	
HGO 200 - 1200	305	70.6			45.8	3233	61.0	4307	91.5	6460	123.9	8747	

OHS  
Metric