

MOLLE PER STAMPI ISO10243/SPRINGS ISO10243

Consigli, raccomandazioni e limiti

Le innovazioni tecnologiche introdotte ed utilizzate permettono, per la prima volta di fornire un'indicazione di durata minima delle molle alle deflessioni di lavoro minima e media. Per un'ottimale utilizzo delle molle e per il rispetto dei valori indicativi di durata minima si raccomanda sempre:

- selezionare accuratamente le molle sempre in fase di progettazione;
- guida interna con spina o esterna con foro di alloggiamento assolutamente necessari per rapporti tra lunghezza libera e diametro superiori a 3.5;
- massima perpendicolarità delle molle rispetto ai piani di appoggio e compressione;
- precarico minimo del 5% della lunghezza libera;
- utilizzo di molle con lunghezza maggiore e carico inferiore. Sarà conseguentemente aumentata la freccia di precarico;
- non utilizzare le molle (precarico e corsa lavoro) oltre la deflessione massima prevista a catalogo, colonna "C";
- verificare sempre le altezze di alloggiamento e le corse di lavoro degli elementi elastici dopo la riaffilatura degli utensili nello stampo. Normalmente tale operazione aumenta la freccia complessiva di compressione;
- proteggere le molle da elementi corrosivi;
- non superare temperature di utilizzo di 250°C. Fino alla temperatura di 120°C non si hanno perdite di carico significative, oltre, considerare una perdita di carico del 1% circa ogni 40°C;
- non sostituire solo una molla, ma procedere con una manutenzione programmata di tutte le molle utilizzate;
- non alterare le condizioni fisiche delle molle (tagli, molature interne e/o esterne).

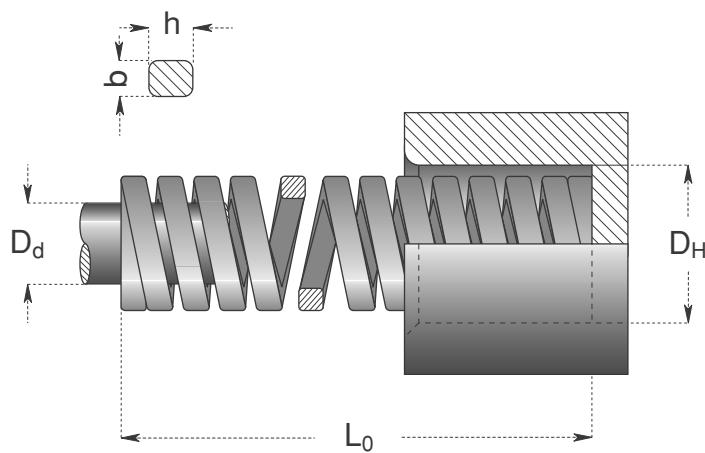
I valori indicativi di durata minima decadono sempre qualora non soddisfatti i punti di cui sopra. Per contro, l'utilizzo corretto delle molle è sempre garanzia di massime prestazioni ben superiori alle indicazioni di durata minima fornite, come confermano con soddisfazione tutti gli utilizzatori.

Advice, prescriptions and limitations

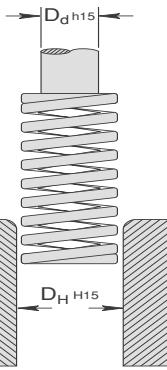
For the first time, technological innovations introduced and used make it possible to indicate the minimum lifetime of springs under minimum and average working deflections. For optimum use of the springs, and to obtain the minimum lifetime values indicated, observe the following guide lines:

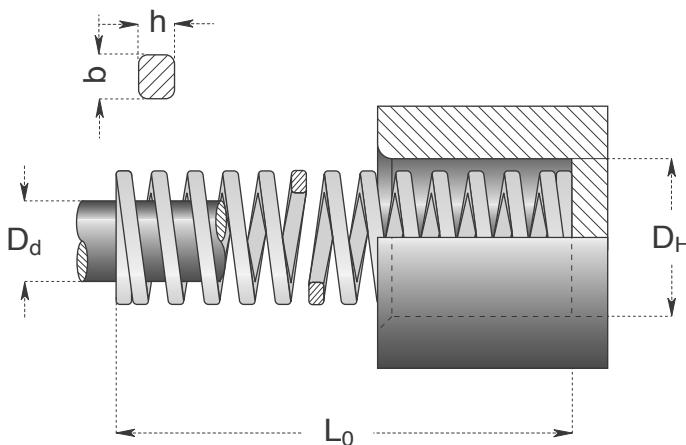
- select springs carefully at the design stage;
- use a guide pin, a locating bore as a guide - this is essential for springs having a free length/diameter ratio exceeding 3.5;
- assure perpendicularity of the springs to the supporting and compression surfaces;
- apply a minimum pre-load of 5% of the free length;
- use longer springs at lower loadings where possible (pre-loading must be suitably increased);
- never compress springs beyond the maximum deflection (pre-load and working stroke) specified in column "C" of the catalogue;
- always check spring holder heights and working strokes of moving elements after die tools have been re-ground. Normally this operation causes an increase in the overall compression of the springs;
- protect springs from corrosive agents;
- do not exceed a working temperature of 250 °C. Up to 120 °C no significant load reduction occurs, beyond this temperature an average loss of 1% for every 40 °C must be calculated;
- do not replace one spring at a time; instead, adopt a programmed maintenance procedure in which all the springs are changed at the same time;
- do not alter the physical characteristics of springs (cutting, internal and/or external grinding).

Guideline minimum lifetime indications are invalidated immediately if the above conditions are not complied with. When used correctly, the springs ensure performance levels well above the minimum lifetime values indicated, as confirmed by feedback from all the end users.



D _H	D _d	L ₀	Rigidità Rate Rigidez Raideur	A XXX	B YYY	C Max. Defl.	D Approx.
mm	mm	mm	N / mm	mm	N	mm	N
DH diametro del foro di alloggiamento						DH hole diameter	
Dd diametro della spina di guida						Dd rod diameter	
bxh, d sezione del profilo						bxh, d cross wire section	
L ₀ lunghezza libera della molla						L ₀ spring free length	
R carico (N) necessario per deflettere la molla di 1 millimetro						R spring rate (load required for 1mm deflection)	
A deflessione totale consigliata per una lunga durata della molla						A advised working deflection for long spring life	
XXX indicazione di durata minima						minimum estimated life	
B deflessione totale consigliata per una media durata della molla						B advised working deflection for medium spring life	
YYY indicazione di durata minima						minimum estimated life	
C deflessione totale massima consentita						C maximum operating deflection	
D deflessione approssimativa per molla a blocco						D solid deflection (approximate value)	
DH Außenführungsduurchmesser						DH diamètre du trou de logement	
Dd Innenführungsduurchmesser						Dd diamètre de l'arbre de guidage	
bxh, d Profilquerschnitt						bxh, d section du profile	
L ₀ Länge der unbelasteten Feder						L ₀ longueur libre du ressort	
R Federrate						R charge exigée pour comprimer le ressort 1mm	
A Empfohlene Federweg für lange Lebensdauer						A course conseillée pour une longue durée du ressort	
XXX Minimale geschätzte Lebensdauer						indication de durée minimale	
B Empfohlene Federweg für mittlere Lebensdauer						B course conseillée pour durée moyenne du ressort	
YYY Minimale geschätzte Lebensdauer						indication de durée minimale	
C maximal erlaubter Federweg						C flèche maximale pour le fonctionnement	
D Federweg bis Blocklänged						D flèche à bloc (valeur approximative)	

Serie Series Série Serie	Sez. profilo Cross wire section Profilquerschnitt Section du profilé	Colore Color Kennfarbe Couleur	Carico Load Belastung Charge	Mass. defless. Max. deflection Max. federweg Flèche max.	Diametri Diameters Durchmesser Diamètre	Lungh. libera Free length Länge Long. libre	Rigidità Rate Rigidez Raideur
CXL NERO 		Nero Black Schwarz Noir	Extra-leggero Extra-light Leichte Extra-légère	50 % L_0			
CLV VERDE  ISO 10243		Verde Green Grün Verte	Leggero Light Normale Légère	40 % L_0			
CMB BLU  ISO 10243		Blu Blue Blau Bleu	Medio Medium Mittlere Moyenne	37,5 % L_0		$\pm 1\% L_0$ $\pm 0,75 \text{ mm}$	$\pm 10\%$
CFR ROSSO  ISO 10243		Rosso Red Rot Rouge	Forte Heavy Hohe Forte	30 % L_0			
CXF GIALLO  ISO 10243		Giallo Yellow Gelb Jaune	Extra-Forte Extra-Heavy Höchste Extra-Forte	25 % L_0			



Molle carico extra-leggero

Extra light load springs

Codice/Code CXL

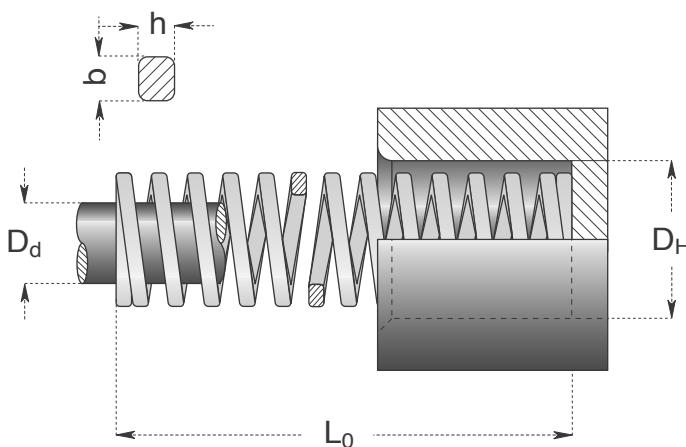
Nero/Black

Compatibile con/Similar to

E1541; MVL

D_H	D_d	L₀	Rigidità Rate Rigidez Raideur	30%		40%		50%		D		
				b x h	N / mm	mm	N	mm	N	mm	N	
20	10	4.3 x 1.7	25	29.4	7.5	221	10.0	294	12.5	368	13.9	409
			32	22.6	9.6	217	12.8	289	16.0	362	18.2	411
			38	18.6	11.4	212	15.2	283	19.0	353	22.0	409
			44	15.7	13.2	207	17.6	276	22.0	345	25.8	405
			51	13.7	15.3	210	20.4	279	25.5	349	30.3	415
			64	11.3	19.2	217	25.6	289	32.0	362	38.9	440
			76	9.8	22.8	223	30.4	298	38.0	372	47.0	461
			89	8.3	26.7	222	35.6	295	44.5	369	55.7	462
			102	7.4	30.6	226	40.8	302	51.0	377	64.2	475
			115	6.4	34.5	221	46.0	294	57.5	368	72.9	467
			127	5.9	38.1	225	50.8	300	63.5	375	80.7	476
			139	5.4	41.7	225	55.6	300	69.5	375	88.4	477
			152	4.9	45.6	223	60.8	298	76.0	372	96.7	474
			305	2.5	91.5	229	122.0	305	152.5	381	196.3	491
25	12.5	5.4 x 2.2	25	53.9	7.5	404	10.0	539	12.5	674	12.9	695
			32	42.2	9.6	405	12.8	540	16.0	675	17.2	726
			38	35.8	11.4	408	15.2	544	19.0	680	20.7	741
			44	31.4	13.2	414	17.6	553	22.0	691	24.4	766
			51	27.0	15.3	413	20.4	551	25.5	689	28.5	770
			64	21.6	19.2	415	25.6	553	32.0	691	36.5	788
			76	18.1	22.8	413	30.4	550	38.0	688	43.9	795
			89	15.2	26.7	406	35.6	541	44.5	676	51.4	781
			102	13.2	30.6	404	40.8	539	51.0	673	59.3	783
			115	11.8	34.5	407	46.0	543	57.5	679	67.2	793
			127	10.6	38.1	404	50.8	538	63.5	673	74.4	789
			139	9.6	41.7	400	55.6	534	69.5	667	81.6	783
			152	8.8	45.6	401	60.8	535	76.0	669	89.5	788
			178	7.6	53.4	406	71.2	541	89.0	676	105.4	801
			203	6.7	60.9	408	81.2	544	101.5	680	120.7	809
			305	4.4	91.5	403	122.0	537	152.5	671	182.4	803
32	16	6.5 x 2.6	38	43.1	11.4	491	15.2	655	19.0	819	19.9	858
			44	37.3	13.2	492	17.6	656	22.0	821	23.5	877
			51	32.4	15.3	496	20.4	661	25.5	826	27.6	894
			64	25.5	19.2	490	25.6	653	32.0	816	35.2	898
			76	21.6	22.8	492	30.4	657	38.0	821	42.4	916
			89	18.1	26.7	483	35.6	644	44.5	805	50.0	905
			102	15.7	30.6	480	40.8	641	51.0	801	57.6	904
			115	14.2	34.5	490	46.0	653	57.5	817	65.5	930
			127	12.7	38.1	484	50.8	645	63.5	806	72.5	921
			139	11.6	41.7	484	55.6	645	69.5	806	79.4	921
			152	10.6	45.6	483	60.8	644	76.0	806	87.3	925
			178	9.0	53.4	481	71.2	641	89.0	801	102.9	926
			203	7.8	60.9	475	81.2	633	101.5	792	117.7	918
			254	6.4	76.2	488	101.6	650	127.0	813	148.1	948
			305	5.3	91.5	485	122.0	647	152.5	808	178.3	945

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



Molle carico extra-leggero

Extra light load springs

Codice/Code **CXL**

Nero/Black

Compatibile con/Similar to

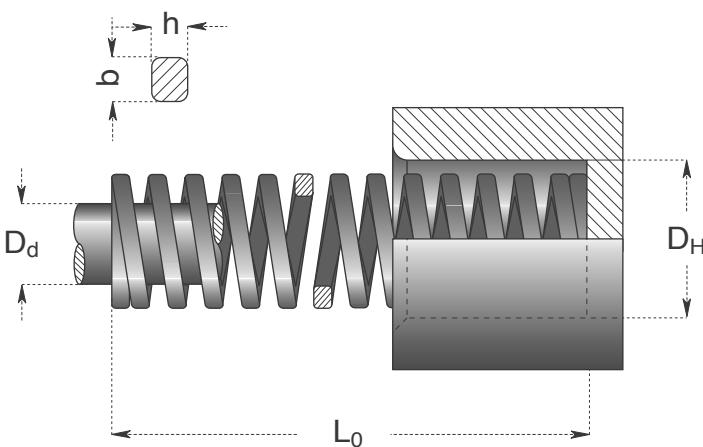
E1541; MVL

D_H	D_d	L₀	Rigidità <i>Rate</i> <i>Rigidez</i> <i>Raideur</i>	30%		40%		50%		D Approx.	
				b x h	N / mm	mm	N	mm	N		
mm	mm	mm								mm	N
40	20	51	48.1	15.3	736	20.4	981	25.5	1227	28.0	1347
		64	39.2	19.2	753	25.6	1004	32.0	1254	36.2	1419
		76	33.3	22.8	759	30.4	1012	38.0	1265	43.7	1455
		89	28.4	26.7	758	35.6	1011	44.5	1264	51.7	1468
		102	24.5	30.6	750	40.8	1000	51.0	1250	59.8	1465
		115	22.1	34.5	762	46.0	1017	57.5	1271	67.9	1501
		127	19.6	38.1	747	50.8	996	63.5	1245	75.2	1474
		139	17.7	41.7	738	55.6	984	69.5	1230	82.4	1458
		152	16.2	45.6	739	60.8	985	76.0	1231	90.6	1468
		178	13.7	53.4	732	71.2	975	89.0	1219	106.5	1459
		203	12.3	60.9	749	81.2	999	101.5	1248	122.2	1503
		254	9.8	76.2	747	101.6	996	127.0	1245	153.6	1505
		305	8.3	91.5	759	122.0	1013	152.5	1266	185.4	1539
8.0 x 3.4											
50	25	64	86.3	19.2	1657	25.6	2209	32.0	2762	35.1	3029
		76	70.6	22.8	1610	30.4	2146	38.0	2683	42.2	2979
		89	59.8	26.7	1597	35.6	2129	44.5	2661	50.3	3008
		102	52.0	30.6	1591	40.8	2122	51.0	2652	58.4	3037
		115	46.1	34.5	1590	46.0	2121	57.5	2651	66.1	3047
		127	42.2	38.1	1608	50.8	2144	63.5	2680	73.8	3114
		139	38.2	41.7	1593	55.6	2124	69.5	2655	80.9	3090
		152	34.3	45.6	1564	60.8	2085	76.0	2607	89.0	3053
		178	29.4	53.4	1570	71.2	2093	89.0	2617	105.3	3096
		203	25.5	60.9	1553	81.2	2071	101.5	2588	120.6	3075
		254	20.6	76.2	1570	101.6	2093	127.0	2616	152.2	3135
		305	17.2	91.5	1574	122.0	2098	152.5	2623	183.7	3160
10.5 x 4.1											

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

* si realizzano misure su richiesta

Esempio ordine: CODICE + D_H x L₀
CXL 20 x 32
CXL2032



Molle carico leggero
Light load springs
Codice/Code CL
Verde/Green

Compatibile con/Similar to
E1542; MV; Z610

ISO 10243

D_H	D_d	L₀	Rigidità Rate Rigidez Raideur	25%		30%		40%		D	
				b x h	N / mm	mm	N	mm	N	mm	N
10	5	25	10	6.3	63	7.5	75	10.0	100	13.5	135
		32	8.5	8.0	68	9.6	82	12.8	109	17.5	149
		38	6.8	9.5	65	11.4	78	15.2	103	20.8	141
		44	6.0	11.0	66	13.2	79	17.6	106	23.9	143
		51	5.0	12.8	64	15.3	77	20.4	102	28.9	145
		64	4.3	16.0	69	19.2	83	25.6	110	36.1	155
		76	3.2	19.0	61	22.8	73	30.4	97	43.2	138
		305	1.1	76.3	84	91.5	101	122.0	134	178.7	197
1.7 x 1.1											
12.5	6.3	25	17.9	6.3	113	7.5	134	10.0	179	13.2	236
		32	16.4	8.0	131	9.6	157	12.8	210	18.0	295
		38	13.6	9.5	129	11.4	155	15.2	207	21.0	286
		44	12.1	11.0	133	13.2	160	17.6	213	24.0	290
		51	11.4	12.8	146	15.3	174	20.4	233	28.7	327
		64	9.3	16.0	149	19.2	179	25.6	238	35.8	333
		76	7.1	19.0	135	22.8	162	30.4	216	42.7	303
		89	5.4	22.3	120	26.7	144	35.6	192	50.4	272
		102	4.1	25.5	105	30.6	125	40.8	167	58.4	239
2.4 x 1.4		305	1.4	76.3	107	91.5	128	122.0	171	172.0	241
16	8	25	23.4	6.3	147	7.5	176	10.0	234	12.6	295
		32	22.9	8.0	183	9.6	220	12.8	293	16.4	376
		38	19.3	9.5	183	11.4	220	15.2	293	19.7	380
		44	17.1	11.0	188	13.2	226	17.6	301	22.5	385
		51	15.7	12.8	201	15.3	240	20.4	320	26.3	413
		64	10.7	16.0	171	19.2	205	25.6	274	33.3	356
		76	10.0	19.0	190	22.8	228	30.4	304	40.2	402
		89	8.6	22.3	192	26.7	230	35.6	306	47.6	409
		102	7.8	25.5	199	30.6	239	40.8	318	55.4	432
		115	6.6	28.8	190	34.5	228	46.0	304	60.8	401
		305	2.5	76.3	191	91.5	229	122.0	305	165.3	413
3.2 x 1.5											
20	10	25	55.8	6.3	352	7.5	419	10.0	558	12.1	675
		32	45.0	8.0	360	9.6	432	12.8	576	15.3	689
		38	33.3	9.5	316	11.4	380	15.2	506	18.9	629
		44	30.0	11.0	330	13.2	396	17.6	528	21.5	645
		51	24.5	12.8	314	15.3	375	20.4	500	25.0	613
		64	20.0	16.0	320	19.2	384	25.6	512	31.1	622
		76	16.0	19.0	304	22.8	365	30.4	486	37.3	597
		89	14.0	22.3	312	26.7	374	35.6	498	44.5	623
		102	12.0	25.5	306	30.6	367	40.8	490	51.1	613
		115	10.9	28.8	314	34.5	376	46.0	501	58.2	634
		127	9.5	31.8	302	38.1	362	50.8	483	64.9	617
		139	8.4	35.0	294	42.0	353	56.0	470	71.5	601
		152	7.5	38.0	285	45.6	342	60.8	456	78.8	591
		305	4.0	76.3	305	91.5	366	122.0	488	157.4	630
4.0 x 2.1											

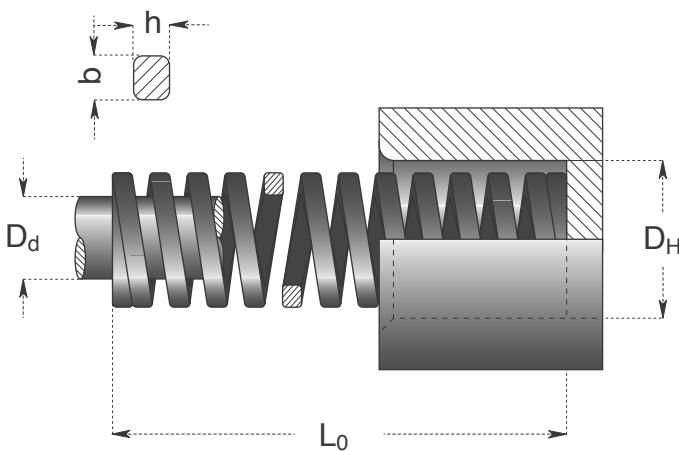
Note: 1 N = 0,102 Kg (force)

D _H	D _d	L ₀	Rigidità Rate Rigidez Raideur	25% 3.000.000		30% 1.500.000		40% Max. Defl.		D	!	Approx.
mm	mm	mm	N / mm	mm	N	mm	N	mm	N	mm	N	
25	12.5	25	100.0	6.3	630	7.5	750	10.0	1000	11.9	1190	
		32	80.3	8.0	642	9.6	771	12.8	1028	16.0	1285	
		38	62.0	9.5	589	11.4	707	15.2	942	18.3	1135	
		44	52.9	11.0	582	13.2	698	17.6	931	21.4	1132	
		51	44.0	12.8	563	15.3	673	20.4	898	24.9	1096	
		64	35.2	16.0	563	19.2	676	25.6	901	31.4	1105	
		76	28.0	19.0	532	22.8	638	30.4	851	37.5	1050	
		89	24.0	22.3	535	26.7	641	35.6	854	43.5	1044	
		102	21.1	25.5	538	30.6	646	40.8	861	51.1	1078	
		115	18.7	28.8	539	34.5	645	46.0	860	58.1	1086	
		127	16.7	31.8	531	38.1	636	50.8	848	64.1	1070	
		139	15.3	35.0	536	42.0	643	56.0	857	70.4	1077	
		152	14.0	38.0	532	45.6	638	60.8	851	77.1	1079	
		178	12.5	44.5	556	53.4	668	71.2	890	93.1	1164	
		203	10.4	50.8	528	60.9	633	81.2	844	102.7	1068	
		305	7.0	76.3	534	91.5	641	122.0	854	155.9	1091	
5.4 x 2.7												
32	16	38	94.0	9.5	893	11.4	1072	15.2	1429	18.3	1720	
		44	79.5	11.0	875	13.2	1049	17.6	1399	21.5	1709	
		51	67.0	12.8	858	15.3	1025	20.4	1367	25.5	1709	
		64	53.0	16.0	848	19.2	1018	25.6	1357	31.9	1691	
		76	44.0	19.0	836	22.8	1003	30.4	1338	38.6	1698	
		89	37.2	22.3	830	26.7	993	35.6	1324	46.5	1730	
		102	32.0	25.5	816	30.6	979	40.8	1306	53.2	1702	
		115	29.0	28.8	835	34.5	1001	46.0	1334	60.0	1740	
		127	25.0	31.8	795	38.1	953	50.8	1270	66.7	1668	
		139	23.0	35.0	805	42.0	966	56.0	1288	71.8	1651	
		152	21.5	38.0	817	45.6	980	60.8	1307	78.5	1688	
		178	18.2	44.5	810	53.4	972	71.2	1296	94.4	1718	
		203	15.8	50.8	803	60.9	962	81.2	1283	107.1	1692	
		254	12.5	63.5	794	76.2	953	101.6	1270	136.5	1706	
		305	10.3	76.3	786	91.5	942	122.0	1257	162.7	1676	
6.8 x 3.3												
40	20	51	92.0	12.8	1178	15.3	1408	20.4	1877	25.5	2346	
		64	73.0	16.0	1168	19.2	1402	25.6	1869	31.4	2292	
		76	63.0	19.0	1197	22.8	1436	30.4	1915	37.8	2381	
		89	51.0	22.3	1137	26.7	1362	35.6	1816	44.3	2259	
		102	43.0	25.5	1097	30.6	1316	40.8	1754	50.7	2180	
		115	39.6	28.8	1140	34.5	1366	46.0	1822	58.1	2301	
		127	37.0	31.8	1177	38.1	1410	50.8	1880	64.6	2390	
		139	32.0	35.0	1120	42.0	1344	56.0	1792	70.1	2243	
		152	28.0	38.0	1064	45.6	1277	60.8	1702	76.6	2145	
		178	25.2	44.5	1121	53.4	1346	71.2	1794	90.4	2278	
		203	22.7	50.8	1153	60.9	1382	81.2	1843	102.4	2324	
		254	17.0	63.5	1080	76.2	1295	101.6	1727	128.8	2190	
		305	14.8	76.3	1129	91.5	1354	122.0	1806	156.1	2310	
8.1 x 4.0												
50	25	64	156	16.0	2496	19.2	2995	25.6	3994	31.0	4836	
		76	125	19.0	2375	22.8	2850	30.4	3800	37.2	4650	
		89	109	22.3	2431	26.7	2910	35.6	3880	43.6	4752	
		102	94.0	25.5	2397	30.6	2876	40.8	3835	50.3	4728	
		115	81.0	28.8	2333	34.5	2795	46.0	3726	58.1	4706	
		127	71.0	31.8	2258	38.1	2705	50.8	3607	63.7	4523	
		139	66.5	35.0	2328	42.0	2793	56.0	3724	69.5	4622	
		152	60.0	38.0	2280	45.6	2736	60.8	3648	76.5	4590	
		178	52.0	44.5	2314	53.4	2777	71.2	3702	91.9	4779	
		203	44.0	50.8	2235	60.9	2680	81.2	3573	104.7	4607	
		254	35.0	63.5	2223	76.2	2667	101.6	3556	130.6	4571	
		305	28.5	76.3	2175	91.5	2608	122.0	3477	154.9	4415	
10.9 x 5.3												
63	38	76	189	19.0	3591	22.8	4309	30.4	5746	36.5	6899	
		89	158	22.3	3523	26.7	4219	35.6	5625	43.4	6857	
		102	131	25.5	3341	30.6	4009	40.8	5345	49.7	6511	
		115	116	28.8	3341	34.5	4002	46.0	5336	55.6	6450	
		127	103	31.8	3275	38.1	3924	50.8	5232	62.7	6458	
		152	84.3	38.0	3203	45.6	3844	60.8	5125	77.1	6500	
		178	71.5	44.5	3182	53.4	3818	71.2	5091	92.2	6592	
		203	61.7	50.8	3134	60.9	3758	81.2	5010	103.5	6386	
		254	47.0	63.5	2985	76.2	3581	101.6	4775	130.4	6129	
		305	38.2	76.3	2915	91.5	3495	122.0	4660	157.4	6013	
11.0 x 7.8												

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

* si realizzano misure su richiesta

Esempio ordine: CODICE + D_H x L₀
 CL 10 x 76
 CL1076



Molle carico medio
Medium load springs
Codice/Code CM
Blu/Blue

Compatibile con/Similar to
E1543; MB; Z611

ISO 10243

D_H	D_d	L₀	Rigidità Rate Rigidez Raideur	25%		30%		37.5%		D		
					3.000.000		1.500.000		Max. Defl.		Approx.	
mm	mm	mm	N / mm	mm	N	mm	N	mm	N	mm	N	
10	5	25	16.0	6.3	101	7.5	120	9.4	150	10.2	163	
		32	13.0	8.0	104	9.6	125	12.0	156	14.2	185	
		38	11.9	9.5	113	11.4	136	14.3	170	16.8	200	
		44	10.3	11.0	113	13.2	136	16.5	170	19.4	200	
		51	8.9	12.8	114	15.3	136	19.1	170	23.4	208	
		64	7.5	16.0	120	19.2	144	24.0	180	28.2	212	
		76	5.3	19.0	101	22.8	121	28.5	151	34.2	181	
		305	1.6	76.3	122	91.5	146	114.4	183	133.8	214	
1.9 x 1.3												
12.5	6.3	25	30.0	6.3	189	7.5	225	9.4	282	11.9	357	
		32	24.8	8.0	198	9.6	238	12.0	298	16.2	402	
		38	21.4	9.5	203	11.4	244	14.3	306	18.7	400	
		44	18.5	11.0	204	13.2	244	16.5	305	21.3	394	
		51	15.5	12.8	198	15.3	237	19.1	296	25.6	397	
		64	12.1	16.0	194	19.2	232	24.0	290	32.4	392	
		76	10.2	19.0	194	22.8	233	28.5	291	39.0	398	
		89	8.4	22.3	187	26.7	224	33.4	281	45.9	386	
		102	6.3	25.5	161	30.6	193	38.3	241	52.3	329	
		305	2.1	76.3	160	91.5	192	114.4	240	152.5	320	
2.5 x 1.5												
16	8	25	49.4	6.3	311	7.5	371	9.4	464	10.5	519	
		32	37.1	8.0	297	9.6	356	12.0	445	13.2	490	
		38	33.9	9.5	322	11.4	386	14.3	485	17.2	583	
		44	30.0	11.0	330	13.2	396	16.5	495	19.4	582	
		51	26.4	12.8	338	15.3	404	19.1	504	24.2	639	
		64	20.5	16.0	328	19.2	394	24.0	492	29.2	599	
		76	17.8	19.0	338	22.8	406	28.5	507	36.3	646	
		89	15.2	22.3	339	26.7	406	33.4	508	41.7	634	
		102	13.5	25.5	344	30.6	413	38.3	517	48.9	660	
		115	11.8	28.8	340	34.5	407	43.1	509	53.1	627	
3.2 x 2.0		305	4.8	76.3	366	91.5	439	114.4	549	141.6	680	
20	10	25	98.0	6.3	617	7.5	735	9.4	921	10.5	1029	
		32	72.6	8.0	581	9.6	697	12.0	871	13.9	1009	
		38	56.0	9.5	532	11.4	638	14.3	801	16.6	930	
		44	47.5	11.0	523	13.2	627	16.5	784	18.8	893	
		51	41.7	12.8	534	15.3	638	19.1	796	23.1	963	
		64	32.3	16.0	517	19.2	620	24.0	775	27.5	888	
		76	25.1	19.0	477	22.8	572	28.5	715	33.8	848	
		89	22.0	22.3	491	26.7	587	33.4	735	39.7	873	
		102	19.8	25.5	505	30.6	606	38.3	758	47.3	937	
		115	18.1	28.8	521	34.5	624	43.1	780	52.5	950	
		127	16.6	31.8	528	38.1	632	47.6	790	56.9	945	
		139	15.1	35.0	529	42.0	634	52.5	793	62.1	938	
		152	13.2	38.0	500	45.6	600	57.0	750	67.6	889	
4.1 x 2.4		305	6.1	76.3	465	91.5	558	114.4	698	143.4	875	

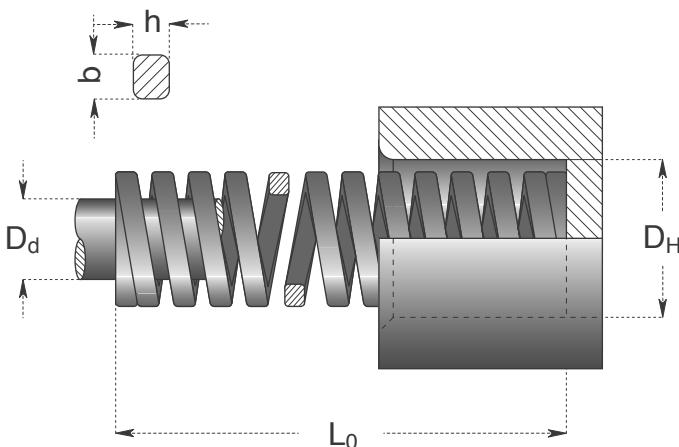
Note: 1 N = 0,102 Kg (force)

D _H	D _d	L ₀	Rigidità Rate Rigidez Raideur	25% 3.000.000	30% 1.500.000	37.5% Max. Defl.	D Approx.				
mm	mm	mm	N / mm	mm	N	mm	N				
25	12.5	25	147	6.3	926	7.5	1103	9.4	1382	10.2	1499
		32	118	8.0	944	9.6	1133	12.0	1416	13.7	1617
		38	93.0	9.5	884	11.4	1060	14.3	1330	15.7	1460
		44	80.8	11.0	889	13.2	1067	16.5	1333	18.2	1471
		51	68.6	12.8	878	15.3	1050	19.1	1310	21.7	1489
		64	53.0	16.0	848	19.2	1018	24.0	1272	26.0	1378
		76	43.2	19.0	821	22.8	985	28.5	1231	32.3	1395
		89	38.2	22.3	852	26.7	1020	33.4	1276	38.0	1452
		102	33.0	25.5	842	30.6	1010	38.3	1264	43.0	1419
		115	28.0	28.8	806	34.5	966	43.1	1207	48.6	1361
		127	25.9	31.8	824	38.1	987	47.6	1233	53.7	1391
		139	23.2	35.0	812	42.0	974	52.5	1218	59.4	1378
		152	20.8	38.0	790	45.6	948	57.0	1186	63.8	1327
		178	17.8	44.5	792	53.4	951	66.8	1189	76.6	1363
		203	15.8	50.8	803	60.9	962	76.1	1202	88.4	1397
		305	10.2	76.3	778	91.5	933	114.4	1167	135.1	1378
5.4 x 3.3											
32	16	38	185	9.5	1758	11.4	2109	14.3	2646	16.3	3016
		44	158	11.0	1738	13.2	2086	16.5	2607	18.9	2986
		51	134	12.8	1715	15.3	2050	19.1	2559	23.1	3095
		64	99.0	16.0	1584	19.2	1901	24.0	2376	28.5	2822
		76	80.5	19.0	1530	22.8	1835	28.5	2294	34.2	2753
		89	69.1	22.3	1541	26.7	1845	33.4	2308	40.4	2792
		102	58.8	25.5	1499	30.6	1799	38.3	2252	48.0	2822
		115	51.5	28.8	1483	34.5	1777	43.1	2220	54.3	2796
		127	44.8	31.8	1425	38.1	1707	47.6	2132	59.2	2652
		139	42.3	35.0	1481	42.0	1777	52.5	2221	65.3	2762
		152	37.8	38.0	1436	45.6	1724	57.0	2155	73.0	2759
		178	32.5	44.5	1446	53.4	1736	66.8	2171	84.5	2746
		203	28.9	50.8	1468	60.9	1760	76.1	2199	96.9	2800
		254	21.4	63.5	1359	76.2	1631	95.3	2039	120.9	2587
		305	18.3	76.3	1396	91.5	1674	114.4	2094	146.9	2688
6.8 x 4.0											
40	20	51	181.6	12.8	2324	15.3	2778	19.1	3469	21.4	3886
		64	140.0	16.0	2240	19.2	2688	24.0	3360	26.8	3752
		76	108.0	19.0	2052	22.8	2462	28.5	3078	32.7	3532
		89	90.7	22.3	2023	26.7	2422	33.4	3029	39.0	3537
		102	81.0	25.5	2066	30.6	2479	38.3	3102	44.1	3572
		115	71.8	28.8	2068	34.5	2477	43.1	3095	50.6	3633
		127	62.7	31.8	1994	38.1	2389	47.6	2985	55.9	3505
		139	57.5	35.0	2013	42.0	2415	52.5	3019	61.8	3554
		152	51.6	38.0	1961	45.6	2353	57.0	2941	67.5	3483
		178	44.1	44.5	1962	53.4	2355	66.8	2946	77.2	3405
		203	36.7	50.8	1864	60.9	2235	76.1	2793	91.8	3369
		254	30.1	63.5	1911	76.2	2294	95.3	2869	112.7	3392
		305	24.6	76.3	1877	91.5	2251	114.4	2814	138.1	3397
8.2 x 4.7											
50	25	64	209	16.0	3344	19.2	4013	24.0	5016	28.2	5894
		76	168	19.0	3192	22.8	3830	28.5	4788	34.9	5863
		89	140	22.3	3122	26.7	3738	33.4	4676	39.2	5488
		102	119	25.5	3035	30.6	3641	38.3	4558	47.3	5629
		115	106	28.8	3053	34.5	3657	43.1	4569	52.6	5576
		127	97.0	31.8	3085	38.1	3696	47.6	4617	59.8	5801
		139	87.0	35.0	3045	42.0	3654	52.5	4568	65.1	5664
		152	80.0	38.0	3040	45.6	3648	57.0	4560	70.8	5664
		178	69.5	44.5	3093	53.4	3711	66.8	4643	84.2	5852
		203	59.8	50.8	3038	60.9	3642	76.1	4551	96.5	5771
		229	50.9	57.3	2917	68.7	3497	85.9	4372	108.5	5523
		254	43.9	63.5	2788	76.2	3345	95.3	4184	121.8	5347
		305	38.6	76.3	2945	91.5	3532	114.4	4416	146.8	5666
11.1 x 5.8											
63	38	76	312	19.0	5928	22.8	7114	28.5	8892	30.7	9578
		89	260	22.3	5798	26.7	6942	33.4	8684	36.5	9490
		102	221	25.5	5636	30.6	6763	38.3	8464	43.6	9636
		115	187	28.8	5386	34.5	6452	43.1	8060	48.9	9144
		127	168	31.8	5342	38.1	6401	47.6	7997	54.2	9106
		152	136	38.0	5168	45.6	6202	57.0	7752	65.7	8935
		178	114	44.5	5073	53.4	6088	66.8	7615	76.5	8721
		203	100	50.8	5080	60.9	6090	76.1	7610	88.0	8800
		229	89.2	57.3	5111	68.7	6128	85.9	7662	103.9	9268
		254	78.4	63.5	4978	76.2	5974	95.3	7472	112.4	8812
11.5 x 9.1		305	64.7	76.3	4937	91.5	5920	114.4	7402	133.8	8657

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

* si realizzano misure su richiesta

Esempio ordine: CODICE + D_H x L₀
 CM 25 x 25
 CM2525



Molle carico forte
Heavy load springs
Codice/Code CF
Rosso/Red

Compatibile con/Similar to
E1544; MR; Z612

ISO 10243

D_H	D_d	L₀	Rigidità Rate Rigidité Raideur	20%		25%		30%		 D	Approx.	
				mm	N / mm	mm	N	mm	N			
10	5	1.9 x 1.5	25	22.1	5.0	111	6.3	139	7.5	166	9.2	203
			32	17.5	6.4	112	8.0	140	9.6	168	12.1	212
			38	17.1	7.6	130	9.5	162	11.4	195	13.2	226
			44	15.0	8.8	132	11.0	165	13.2	198	15.1	227
			51	12.8	10.2	131	12.8	164	15.3	196	19.5	250
			64	10.7	12.8	137	16.0	171	19.2	205	21.8	233
			76	7.5	15.2	114	19.0	143	22.8	171	27.9	209
			305	2.1	61.0	128	76.3	160	91.5	192	127.2	267
12.5	6.3	2.4 x 1.9	25	42.1	5.0	211	6.3	265	7.5	316	9.8	413
			32	33.2	6.4	212	8.0	266	9.6	319	13.6	452
			38	29.3	7.6	223	9.5	278	11.4	334	14.6	428
			44	24.6	8.8	216	11.0	271	13.2	325	18.1	445
			51	19.6	10.2	200	12.8	251	15.3	300	22.3	437
			64	15.0	12.8	192	16.0	240	19.2	288	27.3	410
			76	13.2	15.2	201	19.0	251	22.8	301	33.1	437
			89	11.4	17.8	203	22.3	254	26.7	304	38.9	443
			102	8.4	20.4	171	25.5	214	30.6	257	43.8	368
			305	2.8	61.0	171	76.3	214	91.5	256	139.7	391
16	8	3.1 x 2.5	25	75.7	5.0	379	6.3	477	7.5	568	8.4	636
			32	52.8	6.4	338	8.0	422	9.6	507	10.5	554
			38	48.5	7.6	369	9.5	461	11.4	553	13.6	660
			44	42.8	8.8	377	11.0	471	13.2	565	15.9	681
			51	37.1	10.2	378	12.8	475	15.3	568	18.9	701
			64	30.3	12.8	388	16.0	485	19.2	582	24.9	754
			76	25.7	15.2	391	19.0	488	22.8	586	29.2	750
			89	21.7	17.8	386	22.3	484	26.7	579	34.5	749
			102	19.3	20.4	394	25.5	492	30.6	591	39.1	755
			115	15.7	23.0	361	28.8	452	34.5	542	44.0	691
20	10	4.0 x 3.3	305	7.1	61.0	433	76.3	542	91.5	650	103.6	736
			25	216	5.0	1080	6.3	1361	7.5	1620	8.3	1793
			32	168	6.4	1075	8.0	1344	9.6	1613	10.9	1831
			38	129	7.6	980	9.5	1226	11.4	1471	12.5	1613
			44	112	8.8	986	11.0	1232	13.2	1478	15.0	1680
			51	94.0	10.2	959	12.8	1203	15.3	1438	17.6	1654
			64	72.1	12.8	923	16.0	1154	19.2	1384	22.6	1629
			76	59.7	15.2	907	19.0	1134	22.8	1361	27.5	1642
			89	50.5	17.8	899	22.3	1126	26.7	1348	31.7	1601
			102	44.2	20.4	902	25.5	1127	30.6	1353	37.5	1658
			115	38.4	23.0	883	28.8	1106	34.5	1325	42.6	1636
			127	34.1	25.4	866	31.8	1084	38.1	1299	45.5	1552
			139	31.0	28.0	868	35.0	1085	42.0	1302	50.1	1553
			152	28.2	30.4	857	38.0	1072	45.6	1286	55.8	1574
			305	15.0	61.0	915	76.3	1145	91.5	1373	114.1	1712

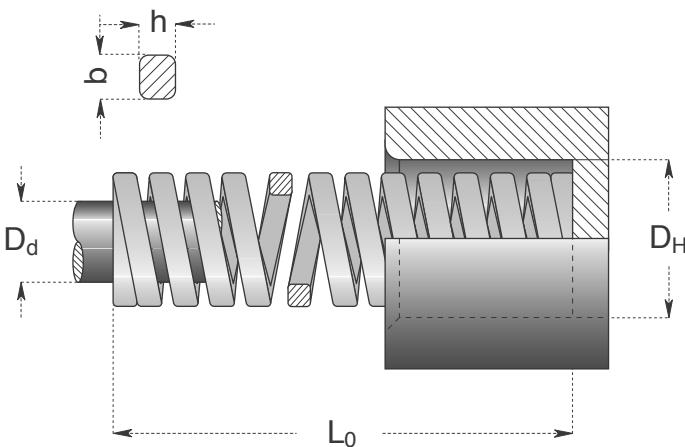
Note: 1 N = 0,102 Kg (force)

D _H	D _d	L ₀	Rigidità Rate Rigidez Raideur	20% 3.000.000		25% 1.500.000		30% Max. Defl.		D	!	Approx.
mm	mm	mm	N / mm	mm	N	mm	N	mm	N	mm	mm	N
25	12.5	25	375	5.0	1875	6.3	2363	7.5	2813	8.5	3188	
		32	297	6.4	1901	8.0	2376	9.6	2851	11.0	3267	
		38	219	7.6	1664	9.5	2081	11.4	2497	12.6	2759	
		44	187	8.8	1646	11.0	2057	13.2	2468	14.8	2768	
		51	156	10.2	1591	12.8	1997	15.3	2387	17.9	2792	
		64	123	12.8	1574	16.0	1968	19.2	2362	23.1	2841	
		76	99.0	15.2	1505	19.0	1881	22.8	2257	26.3	2604	
		89	84.0	17.8	1495	22.3	1873	26.7	2243	30.5	2562	
		102	73.0	20.4	1489	25.5	1862	30.6	2234	37.3	2723	
		115	65.0	23.0	1495	28.8	1872	34.5	2243	41.9	2724	
		127	57.7	25.4	1466	31.8	1835	38.1	2198	46.2	2666	
		139	52.7	28.0	1476	35.0	1845	42.0	2213	49.3	2598	
		152	47.8	30.4	1453	38.0	1816	45.6	2180	55.7	2662	
		178	41.0	35.6	1460	44.5	1825	53.4	2189	65.1	2669	
		203	35.8	40.6	1453	50.8	1819	60.9	2180	74.5	2667	
		5.5 x 4.2	305	22.9	61.0	1397	76.3	1747	91.5	2095	110.2	2524
32	16	38	388	7.6	2949	9.5	3686	11.4	4423	12.5	4850	
		44	324	8.8	2851	11.0	3564	13.2	4277	14.9	4828	
		51	272	10.2	2774	12.8	3482	15.3	4162	17.8	4842	
		64	212	12.8	2714	16.0	3392	19.2	4070	22.4	4749	
		76	172	15.2	2614	19.0	3268	22.8	3922	26.1	4489	
		89	141	17.8	2510	22.3	3144	26.7	3765	30.8	4343	
		102	122	20.4	2489	25.5	3111	30.6	3733	36.8	4490	
		115	107	23.0	2461	28.8	3082	34.5	3692	41.4	4430	
		127	93.0	25.4	2362	31.8	2957	38.1	3543	44.4	4129	
		139	86.0	28.0	2408	35.0	3010	42.0	3612	48.5	4171	
		152	78.0	30.4	2371	38.0	2964	45.6	3557	54.8	4274	
		178	67.2	35.6	2392	44.5	2990	53.4	3588	63.6	4274	
		203	59.1	40.6	2399	50.8	3002	60.9	3599	72.5	4285	
		254	46.4	50.8	2357	63.5	2946	76.2	3536	92.8	4306	
		7.1 x 5.4	305	38.0	61.0	2318	76.3	2899	91.5	3477	111.8	4248
40	20	51	350	10.2	3570	12.8	4480	15.3	5355	17.0	5950	
		64	269	12.8	3443	16.0	4304	19.2	5165	21.9	5891	
		76	219	15.2	3329	19.0	4161	22.8	4993	26.7	5847	
		89	190	17.8	3382	22.3	4237	26.7	5073	31.3	5947	
		102	163	20.4	3325	25.5	4157	30.6	4988	37.1	6047	
		115	142	23.0	3266	28.8	4090	34.5	4899	41.0	5822	
		127	128	25.4	3251	31.8	4070	38.1	4877	46.5	5952	
		139	115	28.0	3220	35.0	4025	42.0	4830	53.1	6107	
		152	105	30.4	3192	38.0	3990	45.6	4788	56.1	5891	
		178	89	35.6	3168	44.5	3961	53.4	4753	67.4	5999	
		203	77	40.6	3126	50.8	3912	60.9	4689	76.2	5867	
		254	61	50.8	3099	63.5	3874	76.2	4648	96.2	5868	
		8.4 x 6.2	305	51	61.0	3111	76.3	3891	91.5	4667	114.8	5855
50	25	64	413	12.8	5286	16.0	6608	19.2	7930	22.4	9251	
		76	339	15.2	5153	19.0	6441	22.8	7729	26.5	8984	
		89	288	17.8	5126	22.3	6422	26.7	7690	31.5	9072	
		102	245	20.4	4998	25.5	6248	30.6	7497	37.6	9212	
		115	215	23.0	4945	28.8	6192	34.5	7418	42.7	9181	
		127	192	25.4	4877	31.8	6106	38.1	7315	47.5	9120	
		139	168	28.0	4704	35.0	5880	42.0	7056	51.8	8702	
		152	154	30.4	4682	38.0	5852	45.6	7022	57.8	8901	
		178	134	35.6	4770	44.5	5963	53.4	7156	68.5	9179	
		203	117	40.6	4750	50.8	5944	60.9	7125	77.6	9079	
		254	89	50.8	4521	63.5	5652	76.2	6782	97.9	8713	
		11.1 x 7.6	305	73	61.0	4453	76.3	5570	91.5	6680	120.7	8811
63	38	76	618	15.2	9394	19.0	11742	22.8	14090	24.7	15265	
		89	515	17.8	9167	22.3	11485	26.7	13751	30.0	15450	
		102	438	20.4	8935	25.5	11169	30.6	13403	35.1	15374	
		115	370	23.0	8510	28.8	10656	34.5	12765	37.5	13875	
		127	333	25.4	8458	31.8	10589	38.1	12687	45.9	15285	
		152	269	30.4	8178	38.0	10222	45.6	12266	56.5	15199	
		178	226	35.6	8046	44.5	10057	53.4	12068	66.8	15097	
		203	198	40.6	8039	50.8	10058	60.9	12058	78.8	15602	
		254	155	50.8	7874	63.5	9843	76.2	11811	101.7	15763	
		305	128	61.0	7808	76.3	9766	91.5	11712	122.4	15667	
11.6 x 12.3												

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

* si realizzano misure su richiesta

Esempio ordine: CODICE + D_H x L₀
 CF 63 x 305
 CF63305



Molle carico extra-forte
Extra heavy load springs
Codice/Code CXF
Giallo/Yellow

Compatibile con/Similar to
E1545; MG; Z613

ISO 10243

D_H	D_d	L₀	Rigidità Rate Rigidez Raideur	17%		20%		25%		D		
				b x h	N / mm	mm	N	mm	N	mm	N	
10	5	1.9 x 1.6	25	36.8	4.3	158	5.0	184	6.3	232	7.7	283
			32	27.9	5.4	151	6.4	179	8.0	223	10.6	296
			38	23.7	6.5	154	7.6	180	9.5	225	12.6	299
			44	19.2	7.5	144	8.8	169	11.0	211	13.8	265
			51	16.5	8.7	144	10.2	168	12.8	211	16.2	267
			64	13.2	10.9	144	12.8	169	16.0	211	20.4	269
			76	10.9	12.9	141	15.2	166	19.0	207	25.2	275
			305	2.6	51.9	135	61.0	159	76.3	198	110.8	288
			25	58.5	4.3	252	5.0	293	6.3	369	8.1	474
			32	43.9	5.4	237	6.4	281	8.0	351	9.9	435
12.5	6.3	2.6 x 2.0	38	36.0	6.5	234	7.6	274	9.5	342	12.9	464
			44	30.3	7.5	227	8.8	267	11.0	333	14.1	427
			51	26.2	8.7	228	10.2	267	12.8	335	17.4	456
			64	21.2	10.9	231	12.8	271	16.0	339	21.0	445
			76	17.1	12.9	221	15.2	260	19.0	325	26.4	451
			89	14.5	15.1	219	17.8	258	22.3	323	31.5	457
			102	12.7	17.3	220	20.4	259	25.5	324	36.0	457
			305	4.3	51.9	223	61.0	262	76.3	328	111.3	479
			25	118	4.3	507	5.0	590	6.3	743	8.5	1003
			32	89.0	5.4	481	6.4	570	8.0	712	11.0	979
16	8	3.2 x 2.9	38	72.1	6.5	469	7.6	548	9.5	685	13.2	952
			44	60.9	7.5	457	8.8	536	11.0	670	14.7	895
			51	52.3	8.7	455	10.2	533	12.8	669	17.7	926
			64	41.2	10.9	449	12.8	527	16.0	659	21.9	902
			76	34.1	12.9	440	15.2	518	19.0	648	27.8	948
			89	29.5	15.1	445	17.8	525	22.3	658	31.2	920
			102	25.6	17.3	443	20.4	522	25.5	653	37.9	970
			115	22.4	19.6	439	23.0	515	28.8	645	44.5	997
			305	8.4	51.9	436	61.0	512	76.3	641	113.5	953
			25	293	4.3	1260	5.0	1465	6.3	1846	6.9	2022
20	10	4.1 x 3.8	32	224	5.4	1210	6.4	1434	8.0	1792	9.4	2106
			38	177	6.5	1151	7.6	1345	9.5	1682	12.0	2124
			44	149	7.5	1118	8.8	1311	11.0	1639	13.5	2012
			51	128	8.7	1114	10.2	1306	12.8	1638	16.2	2074
			64	99.0	10.9	1079	12.8	1267	16.0	1584	21.2	2099
			76	81.7	12.9	1054	15.2	1242	19.0	1552	24.7	2018
			89	69.5	15.1	1049	17.8	1237	22.3	1550	28.8	2002
			102	60.6	17.3	1048	20.4	1236	25.5	1545	34.8	2109
			115	53.0	19.6	1039	23.0	1219	28.8	1526	39.0	2067
			127	47.5	21.6	1026	25.4	1207	31.8	1511	43.0	2043
			139	43.0	23.8	1023	28.0	1204	35.0	1505	45.3	1948
			152	39.0	25.8	1006	30.4	1186	38.0	1482	50.4	1966
			305	21.2	51.9	1100	61.0	1293	76.3	1618	103.5	2194

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

D_H	D_d	L₀	Rigidità Rate Rigidez Raideur	 17% 3.000.000		 20% 1.500.000		 25% Max. Defl.		 D Approx.	
mm	mm	mm	N / mm	mm	N	mm	N	mm	N	mm	N
25	12.5	25	459.0	4.3	1974	5.0	2295	6.3	2892	7.3	3351
		32	374.4	5.4	2022	6.4	2396	8.0	2995	10.7	4006
		38	346.0	6.5	2249	7.6	2630	9.5	3287	12.0	4152
		44	244.0	7.5	1830	8.8	2147	11.0	2684	14.4	3514
		51	207.5	8.7	1805	10.2	2117	12.8	2656	17.4	3611
		64	161.0	10.9	1755	12.8	2061	16.0	2576	21.4	3445
		76	130.8	12.9	1687	15.2	1988	19.0	2485	26.9	3519
		89	110.5	15.1	1669	17.8	1967	22.3	2464	30.9	3414
		102	96.3	17.3	1666	20.4	1965	25.5	2456	36.7	3534
		115	85.7	19.6	1680	23.0	1971	28.8	2468	40.3	3454
		127	76.3	21.6	1648	25.4	1938	31.8	2426	45.1	3441
		139	68.9	23.8	1640	28.0	1929	35.0	2412	47.6	3280
		152	63.5	25.8	1638	30.4	1930	38.0	2413	53.5	3397
		178	53.9	30.3	1633	35.6	1919	44.5	2399	63.9	3444
		203	47.0	34.5	1622	40.6	1908	50.8	2388	70.2	3299
		5.4 x 4.6	305	30.9	51.9	1604	61.0	1885	76.3	2358	110.1
32	16	38	528.2	6.5	3433	7.6	4014	9.5	5018	11.4	6021
		44	424.4	7.5	3183	8.8	3735	11.0	4668	13.7	5814
		51	353.0	8.7	3071	10.2	3601	12.8	4518	15.6	5507
		64	269.2	10.9	2934	12.8	3446	16.0	4307	20.0	5384
		76	218.5	12.9	2819	15.2	3321	19.0	4152	24.4	5331
		89	180.3	15.1	2723	17.8	3209	22.3	4021	29.7	5355
		102	155.0	17.3	2682	20.4	3162	25.5	3953	35.1	5441
		115	140.0	19.6	2744	23.0	3220	28.8	4032	39.0	5460
		127	124.0	21.6	2678	25.4	3150	31.8	3943	42.8	5307
		139	112.3	23.8	2673	28.0	3144	35.0	3931	48.6	5458
		152	102.0	25.8	2632	30.4	3101	38.0	3876	52.4	5345
		178	88.2	30.3	2672	35.6	3140	44.5	3925	60.9	5371
		203	76.0	34.5	2622	40.6	3086	50.8	3861	69.2	5259
		254	60.8	43.2	2627	50.8	3089	63.5	3861	88.1	5356
		7.3 x 5.9	305	49.0	51.9	2543	61.0	2989	76.3	3739	104.2
40	20	51	628	8.7	5464	10.2	6406	12.8	8038	15.0	9420
		64	487	10.9	5308	12.8	6234	16.0	7792	19.5	9497
		76	379	12.9	4889	15.2	5761	19.0	7201	23.3	8831
		89	321	15.1	4847	17.8	5714	22.3	7158	26.7	8571
		102	281	17.3	4861	20.4	5732	25.5	7166	33.8	9498
		115	245	19.6	4802	23.0	5635	28.8	7056	36.2	8869
		127	221	21.6	4774	25.4	5613	31.8	7028	40.7	8995
		139	190	23.8	4522	28.0	5320	35.0	6650	44.5	8455
		152	168	25.8	4334	30.4	5107	38.0	6384	49.6	8333
		178	146	30.3	4424	35.6	5198	44.5	6497	59.9	8745
		203	132	34.5	4554	40.6	5359	50.8	6706	67.1	8857
		254	107	43.2	4622	50.8	5436	63.5	6795	86.3	9234
		8.4 x 7.5	305	87.8	51.9	4557	61.0	5356	76.3	6699	103.6
50	25	64	709	10.9	7728	12.8	9075	16.0	11344	19.3	13684
		76	572	12.9	7379	15.2	8694	19.0	10868	24.2	13842
		89	475	15.1	7173	17.8	8455	22.3	10593	28.0	13300
		102	405	17.3	7007	20.4	8262	25.5	10328	33.5	13568
		115	352	19.6	6899	23.0	8096	28.8	10138	38.6	13587
		127	316	21.6	6826	25.4	8026	31.8	10049	41.4	13082
		139	274	23.8	6521	28.0	7672	35.0	9590	47.3	12960
		152	239	25.8	6166	30.4	7266	38.0	9082	50.2	11998
		178	215	30.3	6515	35.6	7654	44.5	9568	61.1	13137
		203	187	34.5	6452	40.6	7592	50.8	9500	67.7	12660
		254	153	43.2	6610	50.8	7772	63.5	9716	87.0	13311
		11.5 x 9.0	305	127	51.9	6591	61.0	7747	76.3	9690	103.4
63	38	76	952	12.9	12280	15.2	14470	*	*	15.5	14756
		89	819	15.1	12360	17.8	14580	*	*	20.0	19040
		102	700	17.3	12110	20.4	14280	25.5	17850	30.7	21449
		115	620	19.6	12152	23.0	14260	28.8	17860	34.9	21640
		127	565	21.6	12204	25.4	14351	31.8	17967	38.0	21470
		152	458	25.8	11816	30.4	13923	38.0	17404	47.2	21618
		178	384	30.3	11635	35.6	13670	44.5	17088	55.8	21427
		203	337	34.5	11627	40.6	13682	50.8	17120	64.8	21838
		254	263	43.2	11362	50.8	13360	63.5	16701	86.7	22802
		11.6 x 14.9	305	218	51.9	11314	61.0	13298	76.3	16633	105.7

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

* si realizzano misure su richiesta

Esempio ordine: CODICE + D_H x L₀
 CXF 40 x 127
 CXF40127