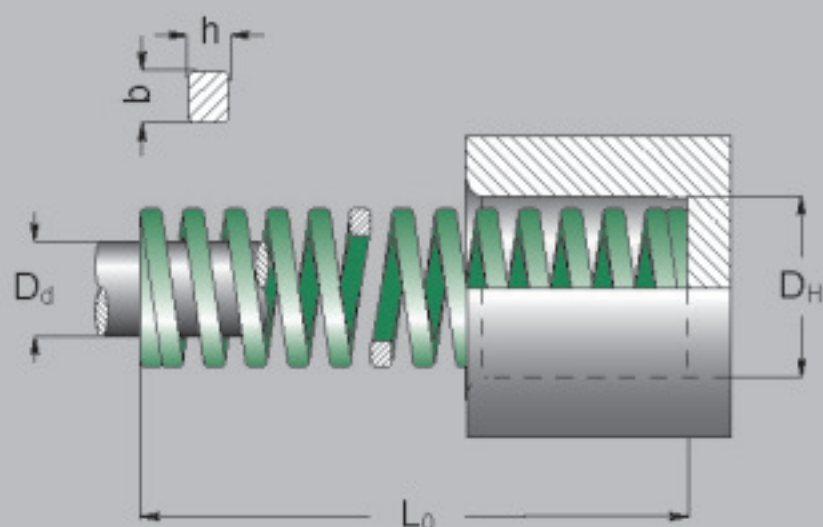


Molle carico leggero
Light load springs
Federn für normale belastung
Ressorts charge légère

Serie
Series
Serie
Série

V

ISO 10243



D _H	D _d	L ₀	N. di catalogo Catalogue No. Bestellnummer N° de catalogue	Rigidità Rate Rigidez Raideur	 25% 3.000.000	 30% 1.500.000	 40% Max. Defl.	 D Approx.
b x h		mm		N/mm	mm N	mm N	mm N	mm N
10	5	25	V 10 - 025	10	6.3 63	7.5 75	10.0 100	13.5 135
		32	V 10 - 032	8.5	8.0 68	9.6 82	12.8 109	17.5 149
		38	V 10 - 038	6.8	9.5 65	11.4 78	15.2 103	20.8 141
		44	V 10 - 044	6.0	11.0 66	13.2 79	17.6 106	23.9 143
		51	V 10 - 051	5.0	12.8 64	15.3 77	20.4 102	28.9 145
		64	V 10 - 064	4.3	16.0 69	19.2 83	25.6 110	36.1 155
		76	V 10 - 076	3.2	19.0 61	22.8 73	30.4 97	43.2 138
		305	V 10 - 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	V 13 - 025	17.9	6.3 113	7.5 134	10.0 179	13.2 236
		32	V 13 - 032	16.4	8.0 131	9.6 157	12.8 210	18.0 295
		38	V 13 - 038	13.6	9.5 129	11.4 155	15.2 207	21.0 286
		44	V 13 - 044	12.1	11.0 133	13.2 160	17.6 213	24.0 290
		51	V 13 - 051	11.4	12.8 146	15.3 174	20.4 233	28.7 327
		64	V 13 - 064	9.3	16.0 149	19.2 179	25.6 238	35.8 333
		76	V 13 - 076	7.1	19.0 135	22.8 162	30.4 216	42.7 303
		89	V 13 - 089	5.4	22.3 120	26.7 144	35.6 192	50.4 272
		102	V 13 - 102	4.1	25.5 105	30.6 125	40.8 167	58.4 239
		305	V 13 - 305	1.4	76.3 107	91.5 128	122.0 171	172.0 241
2.4 x 1.4								
16	8	25	V 16 - 025	23.4	6.3 147	7.5 176	10.0 234	12.6 295
		32	V 16 - 032	22.9	8.0 183	9.6 220	12.8 293	16.4 376
		38	V 16 - 038	19.3	9.5 183	11.4 220	15.2 293	19.7 380
		44	V 16 - 044	17.1	11.0 188	13.2 226	17.6 301	22.5 385
		51	V 16 - 051	15.7	12.8 201	15.3 240	20.4 320	26.3 413
		64	V 16 - 064	10.7	16.0 171	19.2 205	25.6 274	33.3 356
		76	V 16 - 076	10.0	19.0 190	22.8 228	30.4 304	40.2 402
		89	V 16 - 089	8.6	22.3 192	26.7 230	35.6 306	47.6 409
		102	V 16 - 102	7.8	25.5 199	30.6 239	40.8 318	55.4 432
		115	V 16 - 115	6.6	28.8 190	34.5 228	46.0 304	60.8 401
305	V 16 - 305	2.5	76.3 191	91.5 229	122.0 305	165.3 413		
3.2 x 1.5								
20	10	25	V 20 - 025	55.8	6.3 352	7.5 419	10.0 558	12.1 675
		32	V 20 - 032	45.0	8.0 360	9.6 432	12.8 576	15.3 689
		38	V 20 - 038	33.3	9.5 316	11.4 380	15.2 506	18.9 629
		44	V 20 - 044	30.0	11.0 330	13.2 396	17.6 528	21.5 645
		51	V 20 - 051	24.5	12.8 314	15.3 375	20.4 500	25.0 613
		64	V 20 - 064	20.0	16.0 320	19.2 384	25.6 512	31.1 622
		76	V 20 - 076	16.0	19.0 304	22.8 365	30.4 486	37.3 597
		89	V 20 - 089	14.0	22.3 312	26.7 374	35.6 498	44.5 623
		102	V 20 - 102	12.0	25.5 306	30.6 367	40.8 490	51.1 613
		115	V 20 - 115	10.9	28.8 314	34.5 376	46.0 501	58.2 634
		127	V 20 - 127	9.5	31.8 302	38.1 362	50.8 483	64.9 617
		139	V 20 - 139	8.4	35.0 294	42.0 353	56.0 470	71.5 601
		152	V 20 - 152	7.5	38.0 285	45.6 342	60.8 456	78.8 591
		305	V 20 - 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)

Colore verde
Green color
Kennfarbe grün
Couleur verte



D _H	D _d	L ₀	N. di catalogo Catalogue No. Bestellnummer N° de catalogue	Rigidità Rate Rigidez Raideur	25%		30%		40%		D			
b x h					 3.000.000		 1.500.000		 Max. Defl.		 Approx.			
mm	mm	mm		N / mm	mm	N	mm	N	mm	N	mm	N		
25	12.5	25	V 25 - 025	100.0	6.3	630	7.5	750	10.0	1000	11.9	1190		
		32	V 25 - 032	80.3	8.0	642	9.6	771	12.8	1028	16.0	1286		
		38	V 25 - 038	62.0	9.5	589	11.4	707	15.2	942	18.3	1135		
		44	V 25 - 044	52.9	11.0	582	13.2	698	17.6	931	21.4	1132		
		51	V 25 - 051	44.0	12.8	563	15.3	673	20.4	898	24.9	1096		
		64	V 25 - 064	35.2	16.0	563	19.2	676	25.6	901	31.4	1105		
		76	V 25 - 076	28.0	19.0	532	22.8	638	30.4	851	37.5	1050		
		89	V 25 - 089	24.0	22.3	535	26.7	641	35.6	854	43.5	1044		
		102	V 25 - 102	21.1	25.5	538	30.6	646	40.8	861	51.1	1078		
		115	V 25 - 115	18.7	28.8	539	34.5	645	46.0	860	58.1	1086		
		127	V 25 - 127	16.7	31.8	531	38.1	636	50.8	848	64.1	1070		
		139	V 25 - 139	15.3	35.0	536	42.0	643	56.0	857	70.4	1077		
		152	V 25 - 152	14.0	38.0	532	45.6	638	60.8	851	77.1	1079		
		178	V 25 - 178	12.5	44.5	556	53.4	668	71.2	890	93.1	1164		
		203	V 25 - 203	10.4	50.8	528	60.9	633	81.2	844	102.7	1068		
5.4 x 2.7		305	V 25 - 305	7.0	76.3	534	91.5	641	122.0	854	155.9	1091		
32	16	38	V 32 - 038	94.0	9.5	893	11.4	1072	15.2	1429	18.3	1720		
		44	V 32 - 044	79.5	11.0	875	13.2	1049	17.6	1399	21.5	1709		
		51	V 32 - 051	67.0	12.8	858	15.3	1025	20.4	1367	25.5	1709		
		64	V 32 - 064	53.0	16.0	848	19.2	1018	25.6	1357	31.9	1691		
		76	V 32 - 076	44.0	19.0	836	22.8	1003	30.4	1338	38.6	1698		
		89	V 32 - 089	37.2	22.3	830	26.7	993	35.6	1324	46.5	1730		
		102	V 32 - 102	32.0	25.5	816	30.6	979	40.8	1306	53.2	1702		
		115	V 32 - 115	29.0	28.8	835	34.5	1001	46.0	1334	60.0	1740		
		127	V 32 - 127	25.0	31.8	795	38.1	953	50.8	1270	68.7	1668		
		139	V 32 - 139	23.0	35.0	805	42.0	966	56.0	1288	71.8	1651		
		152	V 32 - 152	21.5	38.0	817	45.6	980	60.8	1307	78.5	1688		
		178	V 32 - 178	18.2	44.5	810	53.4	972	71.2	1296	94.4	1718		
		203	V 32 - 203	15.8	50.8	803	60.9	962	81.2	1283	107.1	1692		
		254	V 32 - 254	12.5	63.5	794	76.2	953	101.6	1270	136.5	1706		
		6.8 x 3.3		305	V 32 - 305	10.3	76.3	786	91.5	942	122.0	1257	162.7	1676
40	20	51	V 40 - 051	92.0	12.8	1178	15.3	1408	20.4	1877	25.5	2346		
		64	V 40 - 064	73.0	16.0	1168	19.2	1402	25.6	1869	31.4	2292		
		76	V 40 - 076	63.0	19.0	1197	22.8	1436	30.4	1915	37.8	2381		
		89	V 40 - 089	51.0	22.3	1137	26.7	1362	35.6	1816	44.3	2259		
		102	V 40 - 102	43.0	25.5	1097	30.6	1316	40.8	1754	50.7	2180		
		115	V 40 - 115	39.6	28.8	1140	34.5	1366	46.0	1822	58.1	2301		
		127	V 40 - 127	37.0	31.8	1177	38.1	1410	50.8	1880	64.6	2390		
		139	V 40 - 139	32.0	35.0	1120	42.0	1344	56.0	1792	70.1	2243		
		152	V 40 - 152	28.0	38.0	1064	45.6	1277	60.8	1702	76.6	2145		
		178	V 40 - 178	25.2	44.5	1121	53.4	1346	71.2	1794	90.4	2278		
		203	V 40 - 203	22.7	50.8	1153	60.9	1382	81.2	1843	102.4	2324		
		254	V 40 - 254	17.0	63.5	1080	76.2	1295	101.6	1727	128.8	2190		
		8.1 x 4.0		305	V 40 - 305	14.8	76.3	1129	91.5	1354	122.0	1806	156.1	2310
		50	25	64	V 50 - 064	156	16.0	2496	19.2	2995	25.6	3994	31.0	4836
				76	V 50 - 076	125	19.0	2375	22.8	2850	30.4	3800	37.2	4650
89	V 50 - 089			109	22.3	2431	26.7	2910	35.6	3880	43.6	4752		
102	V 50 - 102			94.0	25.5	2397	30.6	2876	40.8	3835	50.3	4728		
115	V 50 - 115			81.0	28.8	2333	34.5	2795	46.0	3726	58.1	4706		
127	V 50 - 127			71.0	31.8	2258	38.1	2705	50.8	3607	63.7	4523		
139	V 50 - 139			66.5	35.0	2328	42.0	2793	56.0	3724	69.5	4622		
152	V 50 - 152			60.0	38.0	2280	45.6	2736	60.8	3648	76.5	4590		
178	V 50 - 178			52.0	44.5	2314	53.4	2777	71.2	3702	91.9	4779		
203	V 50 - 203			44.0	50.8	2235	60.9	2680	81.2	3573	104.7	4607		
254	V 50 - 254			35.0	63.5	2223	76.2	2667	101.6	3556	130.6	4571		
10.9 x 5.3				305	V 50 - 305	28.5	76.3	2175	91.5	2608	122.0	3477	154.9	4415
63	38			76	V 63 - 076	189	19.0	3591	22.8	4309	30.4	5746	36.5	6899
				89	V 63 - 089	158	22.3	3523	26.7	4219	35.6	5625	43.4	6857
				102	V 63 - 102	131	25.5	3341	30.6	4009	40.8	5345	49.7	6511
		115	V 63 - 115	116	28.8	3341	34.5	4002	46.0	5336	55.6	6450		
		127	V 63 - 127	103	31.8	3275	38.1	3924	50.8	5232	62.7	6458		
		152	V 63 - 152	84.3	38.0	3203	45.6	3844	60.8	5125	77.1	6500		
		178	V 63 - 178	71.5	44.5	3182	53.4	3818	71.2	5091	92.2	6592		
		203	V 63 - 203	61.7	50.8	3134	60.9	3758	81.2	5010	103.5	6386		
		254	V 63 - 254	47.0	63.5	2985	76.2	3581	101.6	4775	130.4	6129		
		11.0 x 7.8		305	V 63 - 305	38.2	76.3	2915	91.5	3495	122.0	4660	157.4	6013

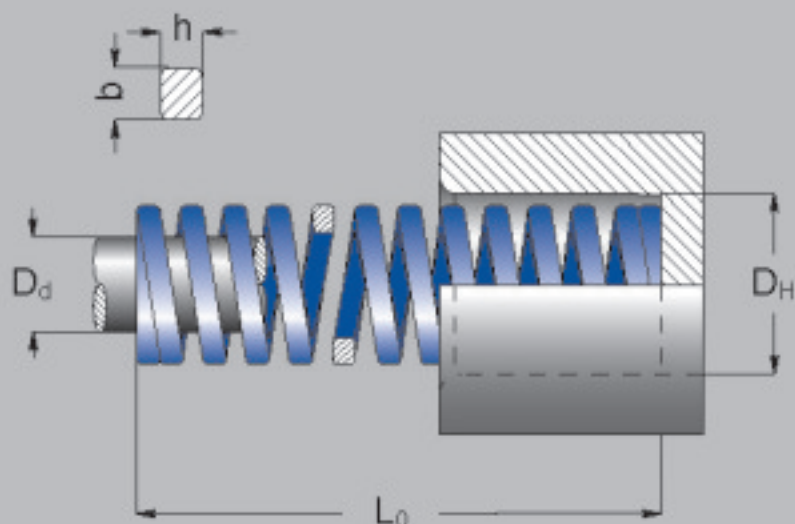


Molle carico medio
Medium load springs
Federn für mittlere belastung
Ressorts charge moyenne

Serie
Series
Serie
Série

B

ISO 10243



D _H	D _d	L ₀	N. di catalogo Catalogue No. Bestellnummer N° de catalogue	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	mm	N		
10	5	25	B 10 - 025	16.0	6.3	101	7.5	120	9.4	150	10.2	163
		32	B 10 - 032	13.0	8.0	104	9.6	125	12.0	156	14.2	185
		38	B 10 - 038	11.9	9.5	113	11.4	136	14.3	170	16.8	200
		44	B 10 - 044	10.3	11.0	113	13.2	136	16.5	170	19.4	200
		51	B 10 - 051	8.9	12.8	114	15.3	136	19.1	170	23.4	208
		64	B 10 - 064	7.5	16.0	120	19.2	144	24.0	180	28.2	212
		76	B 10 - 076	5.3	19.0	101	22.8	121	28.5	151	34.2	181
		305	B 10 - 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	B 13 - 025	30.0	6.3	189	7.5	225	9.4	282	11.9	357
		32	B 13 - 032	24.8	8.0	198	9.6	238	12.0	298	16.2	402
		38	B 13 - 038	21.4	9.5	203	11.4	244	14.3	306	18.7	400
		44	B 13 - 044	18.5	11.0	204	13.2	244	16.5	305	21.3	394
		51	B 13 - 051	15.5	12.8	198	15.3	237	19.1	296	25.6	397
		64	B 13 - 064	12.1	16.0	194	19.2	232	24.0	290	32.4	392
		76	B 13 - 076	10.2	19.0	194	22.8	233	28.5	291	39.0	398
		89	B 13 - 089	8.4	22.3	187	26.7	224	33.4	281	45.9	386
		102	B 13 - 102	6.3	25.5	161	30.6	193	38.3	241	52.3	329
		305	B 13 - 305	2.1	76.3	160	91.5	192	114.4	240	152.5	320
2.5 x 1.5												
16	8	25	B 16 - 025	49.4	6.3	311	7.5	371	9.4	464	10.5	519
		32	B 16 - 032	37.1	8.0	297	9.6	356	12.0	445	13.2	490
		38	B 16 - 038	33.9	9.5	322	11.4	386	14.3	485	17.2	583
		44	B 16 - 044	30.0	11.0	330	13.2	396	16.5	495	19.4	582
		51	B 16 - 051	26.4	12.8	338	15.3	404	19.1	504	24.2	639
		64	B 16 - 064	20.5	16.0	328	19.2	394	24.0	492	29.2	599
		76	B 16 - 076	17.8	19.0	338	22.8	406	28.5	507	36.3	646
		89	B 16 - 089	15.2	22.3	339	26.7	406	33.4	508	41.7	634
		102	B 16 - 102	13.5	25.5	344	30.6	413	38.3	517	48.9	660
		115	B 16 - 115	11.8	28.8	340	34.5	407	43.1	509	53.1	627
		305	B 16 - 305	4.8	76.3	366	91.5	439	114.4	549	141.6	680
3.2 x 2.0												
20	10	25	B 20 - 025	98.0	6.3	617	7.5	735	9.4	921	10.5	1029
		32	B 20 - 032	72.6	8.0	581	9.6	697	12.0	871	13.9	1009
		38	B 20 - 038	56.0	9.5	532	11.4	638	14.3	801	16.6	930
		44	B 20 - 044	47.5	11.0	523	13.2	627	16.5	784	18.8	893
		51	B 20 - 051	41.7	12.8	534	15.3	638	19.1	796	23.1	963
		64	B 20 - 064	32.3	16.0	517	19.2	620	24.0	775	27.5	888
		76	B 20 - 076	25.1	19.0	477	22.8	572	28.5	715	33.8	848
		89	B 20 - 089	22.0	22.3	491	26.7	587	33.4	735	39.7	873
		102	B 20 - 102	19.8	25.5	505	30.6	606	38.3	758	47.3	937
		115	B 20 - 115	18.1	28.8	521	34.5	624	43.1	780	52.5	950
		127	B 20 - 127	16.6	31.8	528	38.1	632	47.6	790	56.9	945
		139	B 20 - 139	15.1	35.0	529	42.0	634	52.5	793	62.1	938
		152	B 20 - 152	13.2	38.0	500	45.6	600	57.0	750	67.6	889
		305	B 20 - 305	6.1	76.3	465	91.5	558	114.4	698	143.4	875
		4.1 x 2.4										

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

Colore blu
Blue color
Kennfarbe blau
Couleur bleu



D _H	D _d	L ₀	N. di catalogo Catalogue No. Bestellnummer N° de catalogue	Rigidità Rate Rigidez Raideur	25%		30%		37,5%		D			
b x h					 3.000.000		 1.500.000		 Max. Defl.		 Approx.			
mm	mm	mm		N / mm	mm	N	mm	N	mm	N	mm	N		
25	12.5	25	B 25 - 025	147	6.3	926	7.5	1103	9.4	1382	10.2	1499		
		32	B 25 - 032	118	8.0	944	9.6	1133	12.0	1416	13.7	1617		
		38	B 25 - 038	93.0	9.5	884	11.4	1080	14.3	1330	15.7	1480		
		44	B 25 - 044	80.8	11.0	889	13.2	1067	16.5	1333	18.2	1471		
		51	B 25 - 051	68.6	12.8	878	15.3	1050	19.1	1310	21.7	1489		
		64	B 25 - 064	53.0	16.0	848	19.2	1018	24.0	1272	26.0	1378		
		76	B 25 - 076	43.2	19.0	821	22.8	985	28.5	1231	32.3	1395		
		89	B 25 - 089	38.2	22.3	852	26.7	1020	33.4	1276	38.0	1452		
		102	B 25 - 102	33.0	25.5	842	30.6	1010	38.3	1264	43.0	1419		
		115	B 25 - 115	28.0	28.8	806	34.5	966	43.1	1207	48.6	1361		
		127	B 25 - 127	25.9	31.8	824	38.1	987	47.6	1233	53.7	1391		
		139	B 25 - 139	23.2	35.0	812	42.0	974	52.5	1218	59.4	1378		
		152	B 25 - 152	20.8	38.0	790	45.6	948	57.0	1186	63.8	1327		
		178	B 25 - 178	17.8	44.5	792	53.4	951	66.8	1189	76.6	1363		
		203	B 25 - 203	15.8	50.8	803	60.9	962	76.1	1202	88.4	1397		
5.4 x 3.3		305	B 25 - 305	10.2	76.3	778	91.5	933	114.4	1167	135.1	1378		
32	16	38	B 32 - 038	185	9.5	1758	11.4	2109	14.3	2646	16.3	3016		
		44	B 32 - 044	158	11.0	1738	13.2	2086	16.5	2607	18.9	2986		
		51	B 32 - 051	134	12.8	1715	15.3	2050	19.1	2559	23.1	3095		
		64	B 32 - 064	99.0	16.0	1584	19.2	1901	24.0	2376	28.5	2822		
		76	B 32 - 076	80.5	19.0	1530	22.8	1835	28.5	2294	34.2	2753		
		89	B 32 - 089	69.1	22.3	1541	26.7	1845	33.4	2308	40.4	2792		
		102	B 32 - 102	58.8	25.5	1499	30.6	1799	38.3	2252	48.0	2822		
		115	B 32 - 115	51.5	28.8	1483	34.5	1777	43.1	2220	54.3	2796		
		127	B 32 - 127	44.8	31.8	1425	38.1	1707	47.6	2132	59.2	2652		
		139	B 32 - 139	42.3	35.0	1481	42.0	1777	52.5	2221	65.3	2762		
		152	B 32 - 152	37.8	38.0	1436	45.6	1724	57.0	2155	73.0	2759		
		178	B 32 - 178	32.5	44.5	1446	53.4	1736	66.8	2171	84.5	2746		
		203	B 32 - 203	28.9	50.8	1468	60.9	1760	76.1	2199	96.9	2800		
		254	B 32 - 254	21.4	63.5	1359	76.2	1631	95.3	2039	120.9	2587		
		6.8 x 4.0		305	B 32 - 305	18.3	76.3	1396	91.5	1674	114.4	2094	146.9	2688
40	20	51	B 40 - 051	181.6	12.8	2324	15.3	2778	19.1	3469	21.4	3886		
		64	B 40 - 064	140.0	16.0	2240	19.2	2688	24.0	3360	26.8	3752		
		76	B 40 - 076	108.0	19.0	2052	22.8	2462	28.5	3078	32.7	3532		
		89	B 40 - 089	90.7	22.3	2023	26.7	2422	33.4	3029	39.0	3537		
		102	B 40 - 102	81.0	25.5	2066	30.6	2479	38.3	3102	44.1	3572		
		115	B 40 - 115	71.8	28.8	2068	34.5	2477	43.1	3095	50.6	3633		
		127	B 40 - 127	62.7	31.8	1994	38.1	2389	47.6	2985	55.9	3505		
		139	B 40 - 139	57.5	35.0	2013	42.0	2415	52.5	3019	61.8	3554		
		152	B 40 - 152	51.6	38.0	1961	45.6	2353	57.0	2941	67.5	3483		
		178	B 40 - 178	44.1	44.5	1962	53.4	2355	66.8	2946	77.2	3405		
		203	B 40 - 203	36.7	50.8	1864	60.9	2235	76.1	2793	91.8	3369		
		254	B 40 - 254	30.1	63.5	1911	76.2	2294	95.3	2869	112.7	3392		
		8.2 x 4.7		305	B 40 - 305	24.6	76.3	1877	91.5	2251	114.4	2814	138.1	3397
		50	25	64	B 50 - 064	209	16.0	3344	19.2	4013	24.0	5016	28.2	5894
				76	B 50 - 076	168	19.0	3192	22.8	3830	28.5	4788	34.9	5863
89	B 50 - 089			140	22.3	3122	26.7	3738	33.4	4676	39.2	5488		
102	B 50 - 102			119	25.5	3035	30.6	3641	38.3	4558	47.3	5629		
115	B 50 - 115			106	28.8	3053	34.5	3657	43.1	4569	52.6	5576		
127	B 50 - 127			97.0	31.8	3085	38.1	3696	47.6	4617	59.8	5801		
139	B 50 - 139			87.0	35.0	3045	42.0	3654	52.5	4568	65.1	5664		
152	B 50 - 152			80.0	38.0	3040	45.6	3648	57.0	4560	70.8	5664		
178	B 50 - 178			69.5	44.5	3093	53.4	3711	66.8	4643	84.2	5852		
203	B 50 - 203			59.8	50.8	3038	60.9	3642	76.1	4551	96.5	5771		
229	B 50 - 229			50.9	57.3	2917	68.7	3497	85.9	4372	108.5	5523		
254	B 50 - 254			43.9	63.5	2788	76.2	3345	95.3	4184	121.8	5347		
11.1 x 5.8				305	B 50 - 305	38.6	76.3	2945	91.5	3532	114.4	4416	146.8	5666
63	38			76	B 63 - 076	312	19.0	5928	22.8	7114	28.5	8892	30.7	9578
				89	B 63 - 089	260	22.3	5798	26.7	6942	33.4	8684	36.5	9490
		102	B 63 - 102	221	25.5	5636	30.6	6763	38.3	8464	43.6	9636		
		115	B 63 - 115	187	28.8	5386	34.5	6452	43.1	8060	48.9	9144		
		127	B 63 - 127	168	31.8	5342	38.1	6401	47.6	7997	54.2	9106		
		152	B 63 - 152	136	38.0	5168	45.6	6202	57.0	7752	65.7	8935		
		178	B 63 - 178	114	44.5	5073	53.4	6088	66.8	7615	76.5	8721		
		203	B 63 - 203	100	50.8	5080	60.9	6090	76.1	7610	88.0	8800		
		229	B 63 - 229	89.2	57.3	5111	68.7	6128	85.9	7662	103.9	9268		
		254	B 63 - 254	78.4	63.5	4978	76.2	5974	95.3	7472	112.4	8812		
		11.5 x 9.1		305	B 63 - 305	64.7	76.3	4937	91.5	5920	114.4	7402	133.8	8657

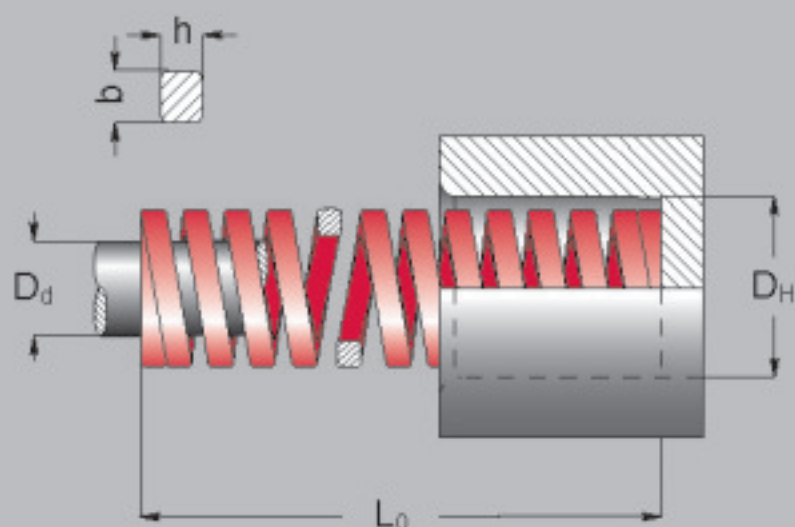


Molle carico forte
Heavy load springs
Federn für hohe belastung
Ressorts charge forte

Serie
Series
Serie
Série

R

ISO 10243



D _H	D _d	L ₀	N. di catalogo Catalogue No. Bestellnummer N° de catalogue	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		
10	5	25	R 10 - 025	22.1	5.0	111	6.3	139	7.5	166	9.2	203
		32	R 10 - 032	17.5	6.4	112	8.0	140	9.6	168	12.1	212
		38	R 10 - 038	17.1	7.6	130	9.5	162	11.4	195	13.2	226
		44	R 10 - 044	15.0	8.8	132	11.0	165	13.2	198	15.1	227
		51	R 10 - 051	12.8	10.2	131	12.8	164	15.3	196	19.5	250
		64	R 10 - 064	10.7	12.8	137	16.0	171	19.2	205	21.8	233
		76	R 10 - 076	7.5	15.2	114	19.0	143	22.8	171	27.9	209
		305	R 10 - 305	2.1	61.0	128	76.3	160	91.5	192	127.2	267
1.9 x 1.5												
12.5	6.3	25	R 13 - 025	42.1	5.0	211	6.3	265	7.5	316	9.8	413
		32	R 13 - 032	33.2	6.4	212	8.0	266	9.6	319	13.6	452
		38	R 13 - 038	29.3	7.6	223	9.5	278	11.4	334	14.6	428
		44	R 13 - 044	24.6	8.8	216	11.0	271	13.2	325	18.1	445
		51	R 13 - 051	19.6	10.2	200	12.8	251	15.3	300	22.3	437
		64	R 13 - 064	15.0	12.8	192	16.0	240	19.2	288	27.3	410
		76	R 13 - 076	13.2	15.2	201	19.0	251	22.8	301	33.1	437
		89	R 13 - 089	11.4	17.8	203	22.3	254	26.7	304	38.9	443
		102	R 13 - 102	8.4	20.4	171	25.5	214	30.6	257	43.8	368
		305	R 13 - 305	2.8	61.0	171	76.3	214	91.5	256	139.7	391
16	8	25	R 16 - 025	75.7	5.0	379	6.3	477	7.5	568	8.4	636
		32	R 16 - 032	52.8	6.4	338	8.0	422	9.6	507	10.5	554
		38	R 16 - 038	48.5	7.6	369	9.5	461	11.4	553	13.6	660
		44	R 16 - 044	42.8	8.8	377	11.0	471	13.2	565	15.9	681
		51	R 16 - 051	37.1	10.2	378	12.8	475	15.3	568	18.9	701
		64	R 16 - 064	30.3	12.8	388	16.0	485	19.2	582	24.9	754
		76	R 16 - 076	25.7	15.2	391	19.0	488	22.8	586	29.2	750
		89	R 16 - 089	21.7	17.8	386	22.3	484	26.7	579	34.5	749
		102	R 16 - 102	19.3	20.4	394	25.5	492	30.6	591	39.1	755
		115	R 16 - 115	15.7	23.0	361	28.8	452	34.5	542	44.0	691
3.1 x 2.5												
20	10	25	R 20 - 025	216	5.0	1080	6.3	1361	7.5	1620	8.3	1793
		32	R 20 - 032	168	6.4	1075	8.0	1344	9.6	1613	10.9	1831
		38	R 20 - 038	129	7.6	980	9.5	1226	11.4	1471	12.5	1613
		44	R 20 - 044	112	8.8	986	11.0	1232	13.2	1478	15.0	1680
		51	R 20 - 051	94.0	10.2	959	12.8	1203	15.3	1438	17.6	1654
		64	R 20 - 064	72.1	12.8	923	16.0	1154	19.2	1384	22.6	1629
		76	R 20 - 076	59.7	15.2	907	19.0	1134	22.8	1361	27.5	1642
		89	R 20 - 089	50.5	17.8	899	22.3	1126	26.7	1348	31.7	1601
		102	R 20 - 102	44.2	20.4	902	25.5	1127	30.6	1353	37.5	1658
		115	R 20 - 115	38.4	23.0	883	28.8	1106	34.5	1325	42.6	1636
		127	R 20 - 127	34.1	25.4	866	31.8	1084	38.1	1299	45.5	1552
		139	R 20 - 139	31.0	28.0	868	35.0	1085	42.0	1302	50.1	1553
		152	R 20 - 152	28.2	30.4	857	38.0	1072	45.6	1286	55.8	1574
		305	R 20 - 305	15.0	61.0	915	76.3	1145	91.5	1373	114.1	1712
4.0 x 3.3												

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

Colore rosso
Red color
Kennfarbe rot
Couleur rouge



D _H	D _d	L ₀	N. di catalogo Catalogue No. Bestellnummer N° de catalogue	Rigidità Rate Rigidez Raideur	 20% 3.000.000		 25% 1.500.000		 30% Max. Defl.		 D Approx.			
b x h														
mm	mm	mm		N / mm	mm	N	mm	N	mm	N	mm	N		
25	12.5	25	R 25 - 025	375	5.0	1875	6.3	2363	7.5	2813	8.5	3188		
		32	R 25 - 032	297	6.4	1901	8.0	2376	9.6	2851	11.0	3267		
		38	R 25 - 038	219	7.6	1664	9.5	2081	11.4	2497	12.6	2759		
		44	R 25 - 044	187	8.8	1646	11.0	2057	13.2	2468	14.8	2768		
		51	R 25 - 051	156	10.2	1591	12.8	1997	15.3	2387	17.9	2792		
		64	R 25 - 064	123	12.8	1574	16.0	1968	19.2	2362	23.1	2841		
		76	R 25 - 076	99.0	15.2	1505	19.0	1881	22.8	2257	26.3	2604		
		89	R 25 - 089	84.0	17.8	1495	22.3	1873	26.7	2243	30.5	2562		
		102	R 25 - 102	73.0	20.4	1489	25.5	1862	30.6	2234	37.3	2723		
		115	R 25 - 115	65.0	23.0	1495	28.8	1872	34.5	2243	41.9	2724		
		127	R 25 - 127	57.7	25.4	1466	31.8	1835	38.1	2198	46.2	2666		
		139	R 25 - 139	52.7	28.0	1476	35.0	1845	42.0	2213	49.3	2598		
		152	R 25 - 152	47.8	30.4	1453	38.0	1816	45.6	2180	55.7	2662		
		178	R 25 - 178	41.0	35.6	1460	44.5	1825	53.4	2189	65.1	2669		
		203	R 25 - 203	35.8	40.6	1453	50.8	1819	60.9	2180	74.5	2667		
5.5 x 4.2		305	R 25 - 305	22.9	61.0	1397	76.3	1747	91.5	2095	110.2	2524		
32	16	38	R 32 - 038	388	7.6	2949	9.5	3686	11.4	4423	12.5	4850		
		44	R 32 - 044	324	8.8	2851	11.0	3564	13.2	4277	14.9	4828		
		51	R 32 - 051	272	10.2	2774	12.8	3482	15.3	4162	17.8	4842		
		64	R 32 - 064	212	12.8	2714	16.0	3392	19.2	4070	22.4	4749		
		76	R 32 - 076	172	15.2	2614	19.0	3268	22.8	3922	26.1	4489		
		89	R 32 - 089	141	17.8	2510	22.3	3144	26.7	3765	30.8	4343		
		102	R 32 - 102	122	20.4	2489	25.5	3111	30.6	3733	36.8	4490		
		115	R 32 - 115	107	23.0	2461	28.8	3082	34.5	3692	41.4	4430		
		127	R 32 - 127	93.0	25.4	2362	31.8	2957	38.1	3543	44.4	4129		
		139	R 32 - 139	86.0	28.0	2408	35.0	3010	42.0	3612	48.5	4171		
		152	R 32 - 152	78.0	30.4	2371	38.0	2964	45.6	3557	54.8	4274		
		178	R 32 - 178	67.2	35.6	2392	44.5	2990	53.4	3588	63.6	4274		
		203	R 32 - 203	59.1	40.6	2399	50.8	3002	60.9	3599	72.5	4285		
		254	R 32 - 254	46.4	50.8	2357	63.5	2946	76.2	3536	92.8	4306		
		7.1 x 5.4		305	R 32 - 305	38.0	61.0	2318	76.3	2899	91.5	3477	111.8	4248
40	20	51	R 40 - 051	350	10.2	3570	12.8	4480	15.3	5355	17.0	5950		
		64	R 40 - 064	269	12.8	3443	16.0	4304	19.2	5165	21.9	5891		
		76	R 40 - 076	219	15.2	3329	19.0	4161	22.8	4993	26.7	5847		
		89	R 40 - 089	190	17.8	3382	22.3	4237	26.7	5073	31.3	5947		
		102	R 40 - 102	163	20.4	3325	25.5	4157	30.6	4968	37.1	6047		
		115	R 40 - 115	142	23.0	3266	28.8	4090	34.5	4899	41.0	5822		
		127	R 40 - 127	128	25.4	3251	31.8	4070	38.1	4877	46.5	5952		
		139	R 40 - 139	115	28.0	3220	35.0	4025	42.0	4830	53.1	6107		
		152	R 40 - 152	105	30.4	3192	38.0	3990	45.6	4788	56.1	5891		
		178	R 40 - 178	89	35.6	3168	44.5	3961	53.4	4753	67.4	5999		
		203	R 40 - 203	77	40.6	3126	50.8	3912	60.9	4689	76.2	5867		
		254	R 40 - 254	61	50.8	3099	63.5	3874	76.2	4648	96.2	5868		
		8.4 x 6.2		305	R 40 - 305	51	61.0	3111	76.3	3891	91.5	4667	114.8	5855
		50	25	64	R 50 - 064	413	12.8	5286	16.0	6608	19.2	7930	22.4	9251
				76	R 50 - 076	339	15.2	5153	19.0	6441	22.8	7729	26.5	8984
89	R 50 - 089			288	17.8	5126	22.3	6422	26.7	7690	31.5	9072		
102	R 50 - 102			245	20.4	4998	25.5	6248	30.6	7497	37.6	9212		
115	R 50 - 115			215	23.0	4945	28.8	6192	34.5	7418	42.7	9181		
127	R 50 - 127			192	25.4	4877	31.8	6106	38.1	7315	47.5	9120		
139	R 50 - 139			168	28.0	4704	35.0	5880	42.0	7056	51.8	8702		
152	R 50 - 152			154	30.4	4682	38.0	5852	45.6	7022	57.8	8901		
178	R 50 - 178			134	35.6	4770	44.5	5963	53.4	7156	68.5	9179		
203	R 50 - 203			117	40.6	4750	50.8	5944	60.9	7125	77.6	9079		
254	R 50 - 254			89	50.8	4521	63.5	5652	76.2	6782	97.9	8713		
11.1 x 7.6				305	R 50 - 305	73	61.0	4453	76.3	5570	91.5	6680	120.7	8811
63	38			76	R 63 - 076	618	15.2	9394	19.0	11742	22.8	14090	24.7	15265
				89	R 63 - 089	515	17.8	9167	22.3	11485	26.7	13751	30.0	15450
				102	R 63 - 102	438	20.4	8935	25.5	11169	30.6	13403	35.1	15374
		115	R 63 - 115	370	23.0	8510	28.8	10656	34.5	12765	37.5	13875		
		127	R 63 - 127	333	25.4	8458	31.8	10589	38.1	12687	45.9	15285		
		152	R 63 - 152	269	30.4	8178	38.0	10222	45.6	12266	56.5	15199		
		178	R 63 - 178	226	35.6	8046	44.5	10057	53.4	12068	66.8	15097		
		203	R 63 - 203	198	40.6	8039	50.8	10058	60.9	12058	78.8	15602		
		254	R 63 - 254	155	50.8	7874	63.5	9843	76.2	11811	101.7	15763		
		11.6 x 12.3		305	R 63 - 305	128	61.0	7808	76.3	9766	91.5	11712	122.4	15667

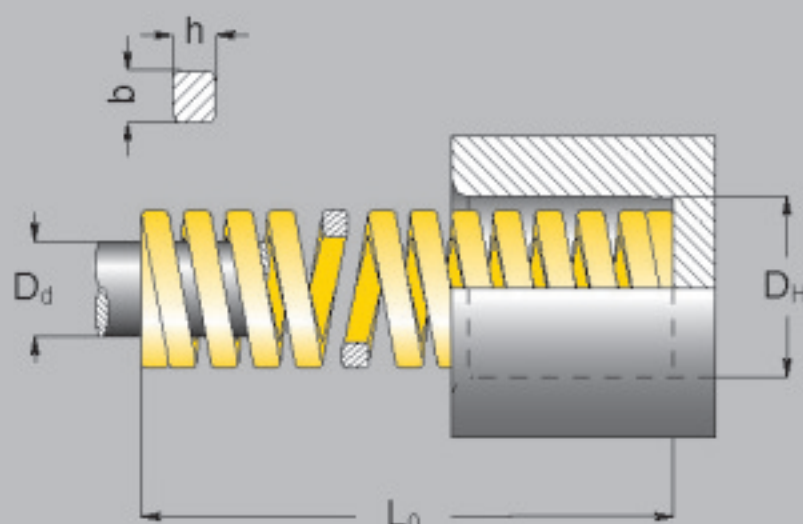


Molle carico extra-forte
Extra-heavy load springs
Federn für höchste belastung
Ressorts charge extra-forte

Serie
Series
Serie
Série

G

ISO 10243



D _H	D _d	L ₀	N. di catalogo Catalogue No. Bestellnummer N° de catalogue	Rigidità Rate Rigidez Raideur	 17% 3.000.000	 20% 1.500.000	 25% Max. Defl.	 D Approx.
b x h		mm		N/mm	mm N	mm N	mm N	mm N
10	5	25	G 10 - 025	36.8	4.3 158	5.0 184	6.3 232	7.7 283
		32	G 10 - 032	27.9	5.4 151	6.4 179	8.0 223	10.6 296
		38	G 10 - 038	23.7	6.5 154	7.6 180	9.5 225	12.6 299
		44	G 10 - 044	19.2	7.5 144	8.8 169	11.0 211	13.8 265
		51	G 10 - 051	16.5	8.7 144	10.2 168	12.8 211	16.2 267
		64	G 10 - 064	13.2	10.9 144	12.8 169	16.0 211	20.4 269
		76	G 10 - 076	10.9	12.9 141	15.2 166	19.0 207	25.2 275
		305	G 10 - 305	2.6	51.9 135	61.0 159	76.3 198	110.8 288
1.9 x 1.6								
12.5	6.3	25	G 13 - 025	58.5	4.3 252	5.0 293	6.3 369	8.1 474
		32	G 13 - 032	43.9	5.4 237	6.4 281	8.0 351	9.9 435
		38	G 13 - 038	36.0	6.5 234	7.6 274	9.5 342	12.9 464
		44	G 13 - 044	30.3	7.5 227	8.8 267	11.0 333	14.1 427
		51	G 13 - 051	26.2	8.7 228	10.2 267	12.8 335	17.4 456
		64	G 13 - 064	21.2	10.9 231	12.8 271	16.0 339	21.0 445
		76	G 13 - 076	17.1	12.9 221	15.2 260	19.0 325	26.4 451
		89	G 13 - 089	14.5	15.1 219	17.8 258	22.3 323	31.5 457
		102	G 13 - 102	12.7	17.3 220	20.4 259	25.5 324	36.0 457
		305	G 13 - 305	4.3	51.9 223	61.0 262	76.3 328	111.3 479
2.6 x 2.0								
16	8	25	G 16 - 025	118	4.3 507	5.0 590	6.3 743	8.5 1003
		32	G 16 - 032	89.0	5.4 481	6.4 570	8.0 712	11.0 979
		38	G 16 - 038	72.1	6.5 469	7.6 548	9.5 685	13.2 952
		44	G 16 - 044	60.9	7.5 457	8.8 536	11.0 670	14.7 895
		51	G 16 - 051	52.3	8.7 455	10.2 533	12.8 669	17.7 926
		64	G 16 - 064	41.2	10.9 449	12.8 527	16.0 659	21.9 902
		76	G 16 - 076	34.1	12.9 440	15.2 518	19.0 648	27.8 948
		89	G 16 - 089	29.5	15.1 445	17.8 525	22.3 658	31.2 920
		102	G 16 - 102	25.6	17.3 443	20.4 522	25.5 653	37.9 970
		115	G 16 - 115	22.4	19.6 439	23.0 515	28.8 645	44.5 997
		305	G 16 - 305	8.4	51.9 436	61.0 512	76.3 641	113.5 953
3.2 x 2.9								
20	10	25	G 20 - 025	293	4.3 1260	5.0 1465	6.3 1846	6.9 2022
		32	G 20 - 032	224	5.4 1210	6.4 1434	8.0 1792	9.4 2106
		38	G 20 - 038	177	6.5 1151	7.6 1345	9.5 1682	12.0 2124
		44	G 20 - 044	149	7.5 1118	8.8 1311	11.0 1639	13.5 2012
		51	G 20 - 051	128	8.7 1114	10.2 1306	12.8 1638	16.2 2074
		64	G 20 - 064	99.0	10.9 1079	12.8 1267	16.0 1584	21.2 2099
		76	G 20 - 076	81.7	12.9 1054	15.2 1242	19.0 1552	24.7 2018
		89	G 20 - 089	69.5	15.1 1049	17.8 1237	22.3 1550	28.8 2002
		102	G 20 - 102	60.6	17.3 1048	20.4 1236	25.5 1545	34.8 2109
		115	G 20 - 115	53.0	19.6 1039	23.0 1219	28.8 1526	39.0 2067
		127	G 20 - 127	47.5	21.6 1026	25.4 1207	31.8 1511	43.0 2043
		139	G 20 - 139	43.0	23.8 1023	28.0 1204	35.0 1505	45.3 1948
		152	G 20 - 152	39.0	25.8 1006	30.4 1186	38.0 1482	50.4 1966
		305	G 20 - 305	21.2	51.9 1100	61.0 1293	76.3 1618	103.5 2194
		4.1 x 3.8						

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

Colore giallo
Yellow color
Kennfarbe gelb
Couleur jaune



D _H	D _d	L ₀	N. di catalogo Catalogue No. Bestellnummer N° de catalogue	Rigidità Rate Rigidez Raideur	17%		20%		25%		D	
b x h						3.000.000		1.500.000		Max. Defl.		Approx.
mm	mm	mm		N / mm	mm	N	mm	N	mm	N	mm	N
25	12.5	25	G 25 - 025	459.0	4.3	1974	5.0	2295	6.3	2892	7.3	3351
		32	G 25 - 032	374.4	5.4	2022	6.4	2396	8.0	2995	10.7	4006
		38	G 25 - 038	346.0	6.5	2249	7.6	2630	9.5	3287	12.0	4152
		44	G 25 - 044	244.0	7.5	1830	8.8	2147	11.0	2684	14.4	3514
		51	G 25 - 051	207.5	8.7	1805	10.2	2117	12.8	2656	17.4	3611
		64	G 25 - 064	161.0	10.9	1755	12.8	2061	16.0	2576	21.4	3445
		76	G 25 - 076	130.8	12.9	1687	15.2	1988	19.0	2485	26.9	3519
		89	G 25 - 089	110.5	15.1	1669	17.8	1967	22.3	2464	30.9	3414
		102	G 25 - 102	96.3	17.3	1666	20.4	1965	25.5	2456	36.7	3534
		115	G 25 - 115	85.7	19.6	1680	23.0	1971	28.8	2468	40.3	3454
		127	G 25 - 127	76.3	21.6	1648	25.4	1938	31.8	2426	45.1	3441
		139	G 25 - 139	68.9	23.8	1640	28.0	1929	35.0	2412	47.6	3280
		152	G 25 - 152	63.5	25.8	1638	30.4	1930	38.0	2413	53.5	3397
		178	G 25 - 178	53.9	30.3	1633	35.6	1919	44.5	2399	63.9	3444
		203	G 25 - 203	47.0	34.5	1622	40.6	1908	50.8	2388	70.2	3299
5.4 x 4.6		305	G 25 - 305	30.9	51.9	1604	61.0	1885	76.3	2358	110.1	3402
32	16	38	G 32 - 038	528.2	6.5	3433	7.6	4014	9.5	5018	11.4	6021
		44	G 32 - 044	424.4	7.5	3183	8.8	3735	11.0	4668	13.7	5814
		51	G 32 - 051	353.0	8.7	3071	10.2	3601	12.8	4518	15.6	5507
		64	G 32 - 064	269.2	10.9	2934	12.8	3446	16.0	4307	20.0	5384
		76	G 32 - 076	218.5	12.9	2819	15.2	3321	19.0	4152	24.4	5331
		89	G 32 - 089	180.3	15.1	2723	17.8	3209	22.3	4021	29.7	5355
		102	G 32 - 102	155.0	17.3	2682	20.4	3162	25.5	3953	35.1	5441
		115	G 32 - 115	140.0	19.6	2744	23.0	3220	28.8	4032	39.0	5460
		127	G 32 - 127	124.0	21.6	2678	25.4	3150	31.8	3943	42.8	5307
		139	G 32 - 139	112.3	23.8	2673	28.0	3144	35.0	3931	48.6	5458
		152	G 32 - 152	102.0	25.8	2632	30.4	3101	38.0	3876	52.4	5345
		178	G 32 - 178	88.2	30.3	2672	35.6	3140	44.5	3925	60.9	5371
		203	G 32 - 203	76.0	34.5	2622	40.6	3086	50.8	3861	69.2	5259
		254	G 32 - 254	60.8	43.2	2627	50.8	3089	63.5	3861	88.1	5356
		7.3 x 5.9		305	G 32 - 305	49.0	51.9	2543	61.0	2989	76.3	3739
40	20	51	G 40 - 051	628	8.7	5464	10.2	6406	12.8	8038	15.0	9420
		64	G 40 - 064	487	10.9	5308	12.8	6234	16.0	7792	19.5	9497
		76	G 40 - 076	379	12.9	4889	15.2	5761	19.0	7201	23.3	8831
		89	G 40 - 089	321	15.1	4847	17.8	5714	22.3	7158	26.7	8571
		102	G 40 - 102	281	17.3	4861	20.4	5732	25.5	7166	33.8	9498
		115	G 40 - 115	245	19.6	4802	23.0	5635	28.8	7056	36.2	8869
		127	G 40 - 127	221	21.6	4774	25.4	5613	31.8	7028	40.7	8995
		139	G 40 - 139	190	23.8	4522	28.0	5320	35.0	6650	44.5	8455
		152	G 40 - 152	168	25.8	4334	30.4	5107	38.0	6384	49.6	8333
		178	G 40 - 178	146	30.3	4424	35.6	5198	44.5	6497	59.9	8745
		203	G 40 - 203	132	34.5	4554	40.6	5359	50.8	6706	67.1	8857
		254	G 40 - 254	107	43.2	4622	50.8	5436	63.5	6795	86.3	9234
		8.4 x 7.5		305	G 40 - 305	87.8	51.9	4557	61.0	5356	76.3	6699
50	25	64	G 50 - 064	709	10.9	7728	12.8	9075	16.0	11344	19.3	13684
		76	G 50 - 076	572	12.9	7379	15.2	8694	19.0	10868	24.2	13842
		89	G 50 - 089	475	15.1	7173	17.8	8455	22.3	10593	28.0	13300
		102	G 50 - 102	405	17.3	7007	20.4	8262	25.5	10328	33.5	13568
		115	G 50 - 115	352	19.6	6899	23.0	8096	28.8	10138	38.6	13587
		127	G 50 - 127	316	21.6	6826	25.4	8026	31.8	10049	41.4	13082
		139	G 50 - 139	274	23.8	6521	28.0	7672	35.0	9590	47.3	12960
		152	G 50 - 152	239	25.8	6166	30.4	7266	38.0	9082	50.2	11998
		178	G 50 - 178	215	30.3	6515	35.6	7654	44.5	9568	61.1	13137
		203	G 50 - 203	187	34.5	6452	40.6	7592	50.8	9500	67.7	12660
		254	G 50 - 254	153	43.2	6610	50.8	7772	63.5	9716	87.0	13311
		11.5 x 9.0		305	G 50 - 305	127	51.9	6591	61.0	7747	76.3	9690
63	38	76	G 63 - 076	952	12.9	12280	15.2	14470	*	*	15.5	14756
		89	G 63 - 089	819	15.1	12360	17.8	14580	*	*	20.0	19040
		102	G 63 - 102	700	17.3	12110	20.4	14280	25.5	17850	30.7	21449
		115	G 63 - 115	620	19.6	12152	23.0	14260	28.8	17860	34.9	21640
		127	G 63 - 127	565	21.6	12204	25.4	14351	31.8	17967	38.0	21470
		152	G 63 - 152	458	25.8	11816	30.4	13923	38.0	17404	47.2	21618
		178	G 63 - 178	384	30.3	11635	35.6	13670	44.5	17088	55.8	21427
		203	G 63 - 203	337	34.5	11627	40.6	13682	50.8	17120	64.8	21838
		254	G 63 - 254	263	43.2	11362	50.8	13360	63.5	16701	86.7	22802
		11.6 x 14.9		305	G 63 - 305	218	51.9	11314	61.0	13298	76.3	16633

