

T.D.S.

ELEMENTS FOR
MOULD & DIE



**PLASTICA E PRESSOFUSIONE
COMPONENTI DI ASSEMBLAGGIO**

***PLASTIC AND DIE-CASTING
ASSEMBLY ELEMENTS***

INDICE ELEMENTI DI ASSEMBLAGGIO ASSEMBLY ELEMENTS LIST

MVL



pg.4-5

MV



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MB



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MR



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MG



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MA



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MT



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MW



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MTV



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MTB



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MTR



pg.20-21

ML



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pg.24

KRT



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VB



pg.26-27

VS



pg.28

VBR



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VG913



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SPC



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G800X



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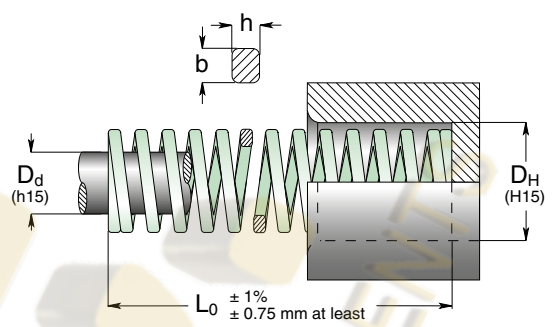


pg.44

GOLF






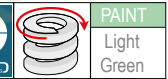


pg.45



MAT_ACCIAIO PER MOLLE / SPRINGS STEEL

Code per n. pezzi
MVL / DH / L

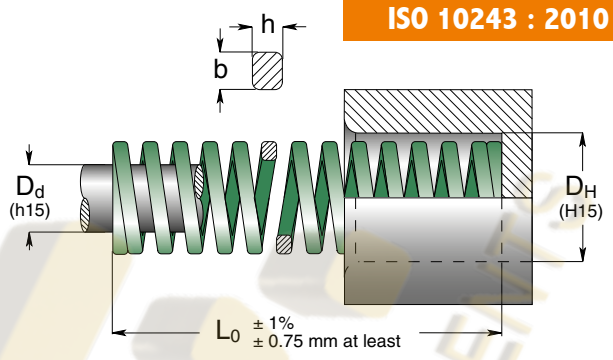







Code	D _H D _d		L ₀	R	Spring Constant	A		B		C		D		E	Pcs	
	Hole Diameter	Rod Diameter				Free Length	Spring Constant	30% L ₀	40% L ₀	45% L ₀	50% L ₀	do not use				
	b x h			± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	approx.		do not use					
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	N		
new MVL 10 - 025	10	5	25	8.5	7.5	64	10.0	85	11.25	96	12.5	106	14.1	50		
MVL 10 - 032			32	6.5	9.6	62	12.8	83	14.40	94	16.0	104	18.5	50		
MVL 10 - 038			38	5.5	11.4	63	15.2	84	17.10	94	19.0	105	22.5	50		
MVL 10 - 044			44	4.8	13.2	63	17.6	84	19.80	95	22.0	106	23.2	50		
MVL 10 - 051			51	4.2	15.3	64	20.4	86	22.95	96	25.5	107	27.5	25		
MVL 10 - 064			64	3.3	19.2	63	25.6	84	28.80	95	32.0	106	34.0	25		
MVL 10 - 076			76	2.7	22.8	62	30.4	82	34.20	92	38.0	103	40.4	25		
MVL 10 - 305	1.65 x 1.0		305	0.65	91.5	59	122	79	137.25	89	152.5	99	172.7	10		
new MVL 13 - 025	12.5	6.3	25	16	7.5	120	10.0	160	11.25	180	12.5	200	13.6	50		
MVL 13 - 032			32	12.2	9.6	117	12.8	156	14.40	176	16.0	195	17.9	50		
MVL 13 - 038			38	10.3	11.4	117	15.2	157	17.10	176	19.0	196	21.9	50		
MVL 13 - 044			44	8.7	13.2	115	17.6	153	19.80	172	22.0	191	26.4	25		
MVL 13 - 051			51	7.5	15.3	115	20.4	153	22.95	172	25.5	191	29.6	25		
MVL 13 - 064			64	5.8	19.2	111	25.6	148	28.80	167	32.0	186	37.1	25		
MVL 13 - 076			76	4.7	22.8	107	30.4	143	34.20	161	38.0	179	44.9	25		
MVL 13 - 089			89	4.1	26.7	109	35.6	146	40.05	164	44.5	182	53.2	20		
MVL 13 - 102			102	3.6	30.6	110	40.8	147	45.90	165	51.0	184	59.4	10		
MVL 13 - 305	2.3 x 1.3		305	1.25	91.5	114	122	153	137.25	172	152.5	191	186.6	10		
new MVL 16 - 025	16	8	25	20.2	7.5	152	10.0	202	11.25	227	12.5	253	14.0	50		
MVL 16 - 032			32	16	9.6	154	12.8	205	14.40	230	16.0	256	18.7	50		
MVL 16 - 038			38	12.3	11.4	140	15.2	187	17.10	210	19.0	234	22.0	25		
MVL 16 - 044			44	10.6	13.2	140	17.6	187	19.80	210	22.0	233	26.1	25		
MVL 16 - 051			51	8.9	15.3	136	20.4	182	22.95	204	25.5	227	30.4	25		
MVL 16 - 064			64	7	19.2	134	25.6	179	28.80	202	32.0	224	38.8	25		
MVL 16 - 076			76	5.8	22.8	132	30.4	176	34.20	198	38.0	220	46.4	20		
MVL 16 - 089			89	4.8	26.7	128	35.6	171	40.05	192	44.5	214	54.2	20		
MVL 16 - 102			102	4.1	30.6	125	40.8	167	45.90	188	51.0	209	62.4	20		
MVL 16 - 115			115	3.9	34.5	135	46.0	179	51.75	202	57.5	224	70.6	10		
MVL 16 - 305			3.05 x 1.5		305	1.5	91.5	137	122	183	137.25	206	152.5	229	190.2	10
MVL 20 - 025	20	10	25	29.4	7.5	221	10.0	294	11.3	331	12.5	368	13.9	50		
MVL 20 - 032			32	22.6	9.6	217	12.8	289	14.4	325	16.0	362	18.2	50		
MVL 20 - 038			38	18.6	11.4	212	15.2	283	17.1	318	19.0	353	22.0	25		
MVL 20 - 044			44	15.7	13.2	207	17.6	276	19.8	311	22.0	345	25.8	25		
MVL 20 - 051			51	13.7	15.3	210	20.4	279	23.0	314	25.5	349	30.3	25		
MVL 20 - 064			64	11.3	19.2	217	25.6	289	28.8	325	32.0	362	38.9	25		
MVL 20 - 076			76	9.8	22.8	223	30.4	298	34.2	335	38.0	372	47.0	25		
MVL 20 - 089			89	8.3	26.7	222	35.6	295	40.1	332	44.5	369	55.7	20		
MVL 20 - 102			102	7.4	30.6	226	40.8	302	45.9	340	51.0	377	64.2	20		
MVL 20 - 115			115	6.4	34.5	221	46.0	294	51.8	331	57.5	368	72.9	10		
MVL 20 - 127			127	5.9	38.1	225	50.8	300	57.2	337	63.5	375	80.7	10		
MVL 20 - 139			139	5.4	41.7	225	55.6	300	62.6	338	69.5	375	88.4	10		
MVL 20 - 152			152	4.9	45.6	223	60.8	298	68.4	335	76.0	372	96.7	10		
MVL 20 - 305			3.9 x 1.7		305	2.5	91.5	229	122	305	137	343	153	381	196	10



Code	D _H	D _d	L ₀	R	A		C		C		D		E	Pcs		
	Hole Diameter	Rod Diameter	Free Length	Spring Constant	30% L ₀		40% L ₀		45% L ₀		50% L ₀		approx.			
	b x h		mm	N/mm	+ 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			
MVL 25 - 025	25	12.5	25	53.9	7.5	404	10.0	539	11.3	606	12.5	674	12.9	50		
MVL 25 - 032			32	42.2	9.6	405	12.8	540	14.4	608	16.0	675	17.2	25		
MVL 25 - 038			38	35.8	11.4	408	15.2	544	17.1	612	19.0	680	20.7	25		
MVL 25 - 044			44	31.4	13.2	414	17.6	553	19.8	622	22.0	691	24.4	25		
MVL 25 - 051			51	27.0	15.3	413	20.4	551	23.0	620	25.5	689	28.5	25		
MVL 25 - 064			64	21.6	19.2	415	25.6	553	28.8	622	32.0	691	36.5	25		
MVL 25 - 076			76	18.1	22.8	413	30.4	550	34.2	619	38.0	688	43.9	20		
MVL 25 - 089			89	15.2	26.7	406	35.6	541	40.1	609	44.5	676	51.4	20		
MVL 25 - 102			102	13.2	30.6	404	40.8	539	45.9	606	51.0	673	59.3	20		
MVL 25 - 115			115	11.8	34.5	407	46.0	543	51.8	611	57.5	679	67.2	10		
MVL 25 - 127			127	10.6	38.1	404	50.8	538	57.2	606	63.5	673	74.4	10		
MVL 25 - 139			139	9.6	41.7	400	55.6	534	62.6	600	69.5	667	81.6	10		
MVL 25 - 152			152	8.8	45.6	401	60.8	535	68.4	602	76.0	669	89.5	10		
MVL 25 - 178			178	7.6	53.4	406	71.2	541	80.1	609	89.0	676	105	10		
MVL 25 - 203			203	6.7	60.9	408	81.2	544	91.4	612	102	680	121	10		
MVL 25 - 305	5.4 x 2.2	305	4.4	91.5	403	122	537	137	604	153	671	182	5			
MVL 32 - 038	32	16	38	43.1	11.4	491	15.2	655	17.1	737	19.0	819	19.9	20		
MVL 32 - 044			44	37.3	13.2	492	17.6	656	19.8	739	22.0	821	23.5	20		
MVL 32 - 051			51	32.4	15.3	496	20.4	661	23.0	744	25.5	826	27.6	20		
MVL 32 - 064			64	25.5	19.2	490	25.6	653	28.8	734	32.0	816	35.2	20		
MVL 32 - 076			76	21.6	22.8	492	30.4	657	34.2	739	38.0	821	42.4	20		
MVL 32 - 089			89	18.1	26.7	483	35.6	644	40.1	725	44.5	805	50.0	10		
MVL 32 - 102			102	15.7	30.6	480	40.8	641	45.9	721	51.0	801	57.6	10		
MVL 32 - 115			115	14.2	34.5	490	46.0	653	51.8	735	57.5	817	65.5	10		
MVL 32 - 127			127	12.7	38.1	484	50.8	645	57.2	726	63.5	806	72.5	10		
MVL 32 - 139			139	11.6	41.7	484	55.6	645	62.6	726	69.5	806	79.4	10		
MVL 32 - 152			152	10.6	45.6	483	60.8	644	68.4	725	76.0	806	87.3	10		
MVL 32 - 178			178	9.0	53.4	481	71.2	641	80.1	721	89.0	801	103	5		
MVL 32 - 203			203	7.8	60.9	475	81.2	633	91.4	713	102	792	118	5		
MVL 32 - 254			254	6.4	76.2	488	102	650	114	732	127	813	148	5		
MVL 32 - 305			6.5 x 2.6	305	5.3	91.5	485	122	647	137	727	153	808	178	5	
MVL 40 - 051	40	20	51	48.1	15.3	736	20.4	981	23.0	1104	25.5	1227	28.0	20		
MVL 40 - 064			64	39.2	19.2	753	25.6	1004	28.8	1129	32.0	1254	36.2	10		
MVL 40 - 076			76	33.3	22.8	759	30.4	1012	34.2	1139	38.0	1265	43.7	10		
MVL 40 - 089			89	28.4	26.7	758	35.6	1011	40.1	1137	44.5	1264	51.7	10		
MVL 40 - 102			102	24.5	30.6	750	40.8	1000	45.9	1125	51.0	1250	59.8	10		
MVL 40 - 115			115	22.1	34.5	762	46.0	1017	51.8	1144	57.5	1271	67.9	10		
MVL 40 - 127			127	19.6	38.1	747	50.8	996	57.2	1120	63.5	1245	75.2	5		
MVL 40 - 139			139	17.7	41.7	738	55.6	984	62.6	1107	69.5	1230	82.4	5		
MVL 40 - 152			152	16.2	45.6	739	60.8	985	68.4	1108	76.0	1231	90.6	5		
MVL 40 - 178			178	13.7	53.4	732	71.2	975	80.1	1097	89.0	1219	106	5		
MVL 40 - 203			203	12.3	60.9	749	81.2	999	91.4	1124	101	1248	122	5		
MVL 40 - 254			254	9.8	76.2	747	102	996	114	1120	127	1245	154	2		
MVL 40 - 305			8.0 x 3.4	305	8.3	91.5	759	122	1013	137	1139	152	1266	185	2	
MVL 50 - 064			50	25	64	86.3	19.2	1657	25.6	2209	28.8	2485	32.0	2762	35.1	5
MVL 50 - 076					76	70.6	22.8	1610	30.4	2146	34.2	2415	38.0	2683	42.2	5
MVL 50 - 089	89	59.8			26.7	1597	35.6	2129	40.1	2395	44.5	2661	50.3	5		
MVL 50 - 102	102	52.0			30.6	1591	40.8	2122	45.9	2387	51.0	2652	58.4	5		
MVL 50 - 115	115	46.1			34.5	1590	46.0	2121	51.8	2386	57.5	2651	66.1	5		
MVL 50 - 127	127	42.2			38.1	1608	50.8	2144	57.2	2412	63.5	2680	73.8	5		
MVL 50 - 139	139	38.2			41.7	1593	55.6	2124	62.6	2389	69.5	2655	80.9	5		
MVL 50 - 152	152	34.3			45.6	1564	60.8	2085	68.4	2346	76.0	2607	89.0	2		
MVL 50 - 178	178	29.4			53.4	1570	71.2	2093	80.1	2355	89.0	2617	105	2		
MVL 50 - 203	203	25.5			60.9	1553	81.2	2071	91.4	2329	101	2588	121	2		
MVL 50 - 254	254	20.6			76.2	1570	102	2093	114	2355	127	2616	152	2		
MVL 50 - 305	10.5 x 4.1	305			17.2	91.5	1574	122	2098	137	2361	152	2623	184	2	
MVL 63 - 076	63	38			76	57.8	22.8	1318	30.4	1757	34.2	1977	38.0	2196	47.3	5
MVL 63 - 089					89	51.4	26.7	1372	35.6	1830	40.0	2059	44.5	2287	54.9	5
MVL 63 - 102					102	44.4	30.6	1359	40.8	1812	45.9	2038	51.0	2264	64.1	5
MVL 63 - 115			115	38	34.5	1311	46.0	1748	51.7	1967	57.5	2185	75.6	5		
MVL 63 - 127			127	33.2	38.1	1265	50.8	1687	57.1	1897	63.5	2108	82.6	2		
MVL 63 - 152			152	27.4	45.6	1249	60.8	1666	68.4	1874	76.0	2082	99.8	2		
MVL 63 - 178			178	24	53.4	1282	71.2	1709	80.1	1922	89.0	2136	118.4	2		
MVL 63 - 203			203	21	60.9	1279	81.2	1705	91.3	1918	101.5	2132	135.9	2		
MVL 63 - 254			254	16.4	76.2	1250	101.6	1666	114.3	1875	127	2083	172.8	2		
MVL 63 - 305			11 x 4.9	305	13.6	91.5	1244	122	1659	137.2	1867	152.5	2074	208.6	2	







new

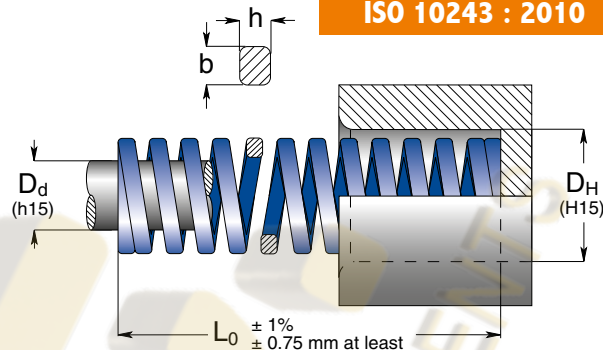


MAT_ACCIAIO PER MOLLE / SPRINGS STEEL

Code per n. pezzi
MV / Dh / L

Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A		B		C		D		E	Pcs
					25% L ₀	30% L ₀	35% L ₀	40% L ₀	do not use					
	b x h			± 10%	+ 3.000.000	~ 1.500.000			300 - 500.000		100 - 200.000	approx.		
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	
MV 10 - 025	10	5	25	10	6.3	63	7.5	75	8.8	88	10.0	100	13.5	50
MV 10 - 032			32	8.5	8.0	68	9.6	82	11.2	95	12.8	109	17.5	50
MV 10 - 038			38	6.8	9.5	65	11.4	78	13.3	90	15.2	103	20.8	50
MV 10 - 044			44	6.0	11.0	66	13.2	79	15.4	92	17.6	106	23.9	50
MV 10 - 051			51	5.0	12.8	64	15.3	77	17.9	89	20.4	102	28.9	25
MV 10 - 064			64	4.3	16.0	69	19.2	83	22.4	96	25.6	110	36.1	25
MV 10 - 076			76	3.2	19.0	61	22.8	73	26.6	85	30.4	97	43.2	25
MV 10 - 305	1.7 x 1.1		305	1.1	76.3	84	91.5	101	107	117	122	134	178	10
MV 13 - 025	12.5	6.3	25	17.9	6.3	113	7.5	134	8.8	157	10.0	179	13.2	50
MV 13 - 032			32	16.4	8.0	131	9.6	157	11.2	184	12.8	210	18.0	50
MV 13 - 038			38	13.6	9.5	129	11.4	155	13.3	181	15.2	207	21.0	50
MV 13 - 044			44	12.1	11.0	133	13.2	160	15.4	186	17.6	213	24.0	25
MV 13 - 051			51	11.4	12.8	146	15.3	174	17.9	203	20.4	233	28.7	25
MV 13 - 064			64	9.3	16.0	149	19.2	179	22.4	208	25.6	238	35.8	25
MV 13 - 076			76	7.1	19.0	135	22.8	162	26.6	189	30.4	216	42.7	25
MV 13 - 089			89	5.4	22.3	120	26.7	144	31.2	168	35.6	192	50.4	20
MV 13 - 102			102	4.1	25.5	105	30.6	125	35.7	146	40.8	167	58.4	10
MV 13 - 305	2.4 x 1.4		305	1.4	76.3	107	91.5	128	107	149	122	171	172	10
MV 16 - 025	16	8	25	23.4	6.3	147	7.5	176	8.8	205	10.0	234	12.6	50
MV 16 - 032			32	22.9	8.0	183	9.6	220	11.2	256	12.8	293	16.4	50
MV 16 - 038			38	19.3	9.5	183	11.4	220	13.3	257	15.2	293	19.7	25
MV 16 - 044			44	17.1	11.0	188	13.2	226	15.4	263	17.6	301	22.5	25
MV 16 - 051			51	15.7	12.8	201	15.3	240	17.9	280	20.4	320	26.3	25
MV 16 - 064			64	10.7	16.0	171	19.2	205	22.4	240	25.6	274	33.3	25
MV 16 - 076			76	10.0	19.0	190	22.8	228	26.6	266	30.4	304	40.2	20
MV 16 - 089			89	8.6	22.3	192	26.7	230	31.2	268	35.6	306	47.6	20
MV 16 - 102			102	7.8	25.5	199	30.6	239	35.7	278	40.8	318	55.4	20
MV 16 - 115			115	6.6	28.8	190	34.5	228	40.3	266	46.0	304	60.8	10
MV 16 - 305			3.2 x 1.5		305	2.5	76.3	191	91.5	229	107	267	122	305
MV 20 - 025	20	10	25	55.8	6.3	352	7.5	419	8.8	488	10.0	558	12.1	50
MV 20 - 032			32	45.0	8.0	360	9.6	432	11.2	504	12.8	576	15.3	50
MV 20 - 038			38	33.3	9.5	316	11.4	380	13.3	443	15.2	506	18.9	25
MV 20 - 044			44	30.0	11.0	330	13.2	396	15.4	462	17.6	528	21.5	25
MV 20 - 051			51	24.5	12.8	314	15.3	375	17.9	437	20.4	500	25.0	25
MV 20 - 064			64	20.0	16.0	320	19.2	384	22.4	448	25.6	512	31.1	25
MV 20 - 076			76	16.0	19.0	304	22.8	365	26.6	426	30.4	486	37.3	25
MV 20 - 089			89	14.0	22.3	312	26.7	374	31.2	436	35.6	498	44.5	20
MV 20 - 102			102	12.0	25.5	306	30.6	367	35.7	428	40.8	490	51.1	20
MV 20 - 115			115	10.9	28.8	314	34.5	376	40.3	439	46.0	501	58.2	10
MV 20 - 127			127	9.5	31.8	302	38.1	362	44.5	422	50.8	483	64.9	10
MV 20 - 139			139	8.4	35.0	294	42.0	353	48.7	409	56.0	470	71.5	10
MV 20 - 152			152	7.5	38.0	285	45.6	342	53.2	399	60.8	456	78.8	10
MV 20 - 305			4.0 x 2.1		305	4.0	76.3	305	91.5	366	107	427	122	488






Code	D _H	D _d	L ₀	R		A		B		C		D		E		
	Hole Diameter	Rod Diameter	Free Length	Spring Constant	25% L ₀	30% L ₀	35% L ₀	40% L ₀	do not use	approx.			Pcs			
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	Pcs			
MV 25 - 025	25	12.5	25	100	6.3	630	7.5	750	8.8	875	10.0	1000	11.9	50		
MV 25 - 032			32	80.3	8.0	642	9.6	771	11.2	899	12.8	1028	16.0	25		
MV 25 - 038			38	62.0	9.5	589	11.4	707	13.3	825	15.2	942	18.3	25		
MV 25 - 044			44	52.9	11.0	582	13.2	698	15.4	815	17.6	931	21.4	25		
MV 25 - 051			51	44.0	12.8	563	15.3	673	17.9	785	20.4	898	24.9	25		
MV 25 - 064			64	35.2	16.0	563	19.2	676	22.4	788	25.6	901	31.4	25		
MV 25 - 076			76	28.0	19.0	532	22.8	638	26.6	745	30.4	851	37.5	20		
MV 25 - 089			89	24.0	22.3	535	26.7	641	31.2	748	35.6	854	43.5	20		
MV 25 - 102			102	21.1	25.5	538	30.6	646	35.7	753	40.8	861	51.1	20		
MV 25 - 115			115	18.7	28.8	539	34.5	645	40.3	753	46.0	860	58.1	10		
MV 25 - 127			127	16.7	31.8	531	38.1	636	44.5	742	50.8	848	64.1	10		
MV 25 - 139			139	15.3	35.0	536	42.0	643	48.7	744	56.0	857	70.4	10		
MV 25 - 152			152	14.0	38.0	532	45.6	638	53.2	745	60.8	851	77.1	10		
MV 25 - 178			178	12.5	44.5	556	53.4	668	62.3	779	71.2	890	93.1	10		
MV 25 - 203			203	10.4	50.8	528	60.9	633	71.1	739	81.2	844	103	10		
MV 25 - 305			5.4 x 2.7	305	7.0	76.3	534	91.5	641	107	747	122	854	156	5	
MV 32 - 038	32	16	38	94.0	9.5	893	11.4	1072	13.3	1250	15.2	1429	18.3	20		
MV 32 - 044			44	79.5	11.0	875	13.2	1049	15.4	1224	17.6	1399	21.5	20		
MV 32 - 051			51	67.0	12.8	858	15.3	1025	17.9	1196	20.4	1367	25.5	20		
MV 32 - 064			64	53.0	16.0	848	19.2	1018	22.4	1187	25.6	1357	31.9	20		
MV 32 - 076			76	44.0	19.0	836	22.8	1003	26.6	1170	30.4	1338	38.6	20		
MV 32 - 089			89	37.2	22.3	830	26.7	993	31.2	1159	35.6	1324	46.5	10		
MV 32 - 102			102	32.0	25.5	816	30.6	979	35.7	1142	40.8	1306	53.2	10		
MV 32 - 115			115	29.0	28.8	835	34.5	1001	40.3	1167	46.0	1334	60.0	10		
MV 32 - 127			127	25.0	31.8	795	38.1	953	44.5	1111	50.8	1270	66.7	10		
MV 32 - 139			139	23.0	35.0	805	42.0	966	48.7	1119	56.0	1288	71.8	10		
MV 32 - 152			152	21.5	38.0	817	45.6	980	53.2	1144	60.8	1307	78.5	10		
MV 32 - 178			178	18.2	44.5	810	53.4	972	62.3	1134	71.2	1296	94.4	5		
MV 32 - 203			203	15.8	50.8	803	60.9	962	71.1	1123	81.2	1283	107	5		
MV 32 - 254			254	12.5	63.5	794	76.2	953	88.9	1111	102	1270	136	5		
MV 32 - 305			6.8 x 3.3	305	10.3	76.3	786	91.5	942	107	1100	122	1257	163	5	
MV 40 - 051			40	20	51	92.0	12.8	1178	15.3	1408	17.9	1642	20.4	1877	25.5	20
MV 40 - 064	64	73.0			16.0	1168	19.2	1402	22.4	1635	25.6	1869	31.4	10		
MV 40 - 076	76	63.0			19.0	1197	22.8	1436	26.6	1676	30.4	1915	37.8	10		
MV 40 - 089	89	51.0			22.3	1137	26.7	1362	31.2	1589	35.6	1816	44.3	10		
MV 40 - 102	102	43.0			25.5	1097	30.6	1316	35.7	1535	40.8	1754	50.7	10		
MV 40 - 115	115	39.6			28.8	1140	34.5	1366	40.3	1594	46.0	1822	58.1	10		
MV 40 - 127	127	37.0			31.8	1177	38.1	1410	44.5	1645	50.8	1880	64.6	5		
MV 40 - 139	139	32.0			35.0	1120	42.0	1344	48.7	1557	56.0	1792	70.1	5		
MV 40 - 152	152	28.0			38.0	1064	45.6	1277	53.2	1490	60.8	1702	76.6	5		
MV 40 - 178	178	25.2			44.5	1121	53.4	1346	62.3	1570	71.2	1794	90.4	5		
MV 40 - 203	203	22.7			50.8	1153	60.9	1382	71.1	1613	81.2	1843	102	5		
MV 40 - 254	254	17.0			63.5	1080	76.2	1295	88.9	1511	102	1727	129	2		
MV 40 - 305	8.1 x 4.0	305			14.8	76.3	1129	91.5	1354	107	1580	122	1806	156	2	
MV 50 - 064	50	25			64	156	16.0	2496	19.2	2995	22.4	3494	25.6	3994	31.0	5
MV 50 - 076					76	125	19.0	2375	22.8	2850	26.6	3325	30.4	3800	37.2	5
MV 50 - 089					89	109	22.3	2431	26.7	2910	31.2	3395	35.6	3880	43.6	5
MV 50 - 102			102	94.0	25.5	2397	30.6	2876	35.7	3356	40.8	3835	50.3	5		
MV 50 - 115			115	81.0	28.8	2333	34.5	2795	40.3	3260	46.0	3726	58.1	5		
MV 50 - 127			127	71.0	31.8	2258	38.1	2705	44.5	3156	50.8	3607	63.7	5		
MV 50 - 139			139	66.5	35.0	2328	42.0	2793	48.7	3235	56.0	3724	69.5	5		
MV 50 - 152			152	60.0	38.0	2280	45.6	2736	53.2	3192	60.8	3648	76.5	2		
MV 50 - 178			178	52.0	44.5	2314	53.4	2777	62.3	3240	71.2	3702	91.9	2		
MV 50 - 203			203	44.0	50.8	2235	60.9	2680	71.1	3126	81.2	3573	105	2		
MV 50 - 254			254	35.0	63.5	2223	76.2	2667	88.9	3112	102	3556	131	2		
MV 50 - 305			10.9 x 5.3	305	28.5	76.3	2175	91.5	2608	107	3042	122	3477	155	2	
MV 63 - 076			63	38	76	189	19.0	3591	22.8	4309	26.6	5027	30.4	5746	36.5	5
MV 63 - 089					89	158	22.3	3523	26.7	4219	31.2	4922	35.6	5625	43.4	5
MV 63 - 102					102	131	25.5	3341	30.6	4009	35.7	4677	40.8	5345	49.7	5
MV 63 - 115					115	116	28.8	3341	34.5	4002	40.3	4669	46.0	5336	55.6	5
MV 63 - 127	127	103			31.8	3275	38.1	3924	44.5	4578	50.8	5232	62.7	2		
MV 63 - 152	152	84.3			38.0	3203	45.6	3844	53.2	4485	60.8	5125	77.1	2		
MV 63 - 178	178	71.5			44.5	3182	53.4	3818	62.3	4454	71.2	5091	92.2	2		
MV 63 - 203	203	61.7			50.8	3134	60.9	3758	71.1	4384	81.2	5010	103	2		
MV 63 - 254	254	47.0			63.5	2985	76.2	3581	88.9	4178	102	4775	130	2		
MV 63 - 305	11.0 x 7.8	305			38.2	76.3	2915	91.5	3495	107	4078	122	4660	157	2	



MAT ACCIAIO PER MOLLE / SPRINGS STEEL

Code per n. pezzi
MB / Dh / L



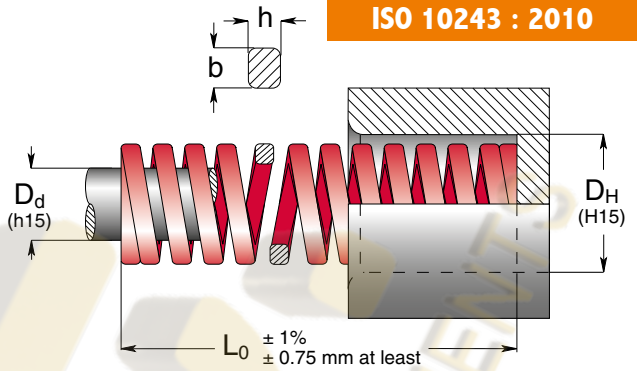
Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A 25% L ₀		B 30% L ₀		C 33.75% L ₀		D 37.5% L ₀		E approx. do not use	Pcs
					mm	N	mm	N	mm	N	mm	N		
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  $\pm 10\%$ $\pm 3.000.000$ </div> <div style="text-align: center;">  $\sim 1.500.000$ </div> <div style="text-align: center;">  $300 - 500.000$ </div> <div style="text-align: center;">  $100 - 200.000$ </div> <div style="text-align: center;">  do not use </div> </div>														
<div style="display: flex; justify-content: space-between;"> <div> <p>MB 10 - 025</p> <p>MB 10 - 032</p> <p>MB 10 - 038</p> <p>MB 10 - 044</p> <p>MB 10 - 051</p> <p>MB 10 - 064</p> <p>MB 10 - 076</p> <p>MB 10 - 305</p> </div> <div style="text-align: center;"> <p>10</p> <p>5</p> </div> <div> <p>25</p> <p>32</p> <p>38</p> <p>44</p> <p>51</p> <p>64</p> <p>76</p> <p>305</p> </div> <div> <p>16.0</p> <p>13.0</p> <p>11.9</p> <p>10.3</p> <p>8.9</p> <p>7.5</p> <p>5.3</p> <p>1.6</p> </div> <div> <p>6.3</p> <p>8.0</p> <p>9.5</p> <p>11.0</p> <p>12.8</p> <p>16.0</p> <p>19.0</p> <p>76.3</p> </div> <div> <p>101</p> <p>104</p> <p>113</p> <p>113</p> <p>114</p> <p>120</p> <p>101</p> <p>122</p> </div> <div> <p>7.5</p> <p>9.6</p> <p>11.4</p> <p>13.2</p> <p>15.3</p> <p>19.2</p> <p>22.8</p> <p>91.5</p> </div> <div> <p>120</p> <p>125</p> <p>136</p> <p>136</p> <p>136</p> <p>144</p> <p>121</p> <p>146</p> </div> <div> <p>8.4</p> <p>10.8</p> <p>12.8</p> <p>14.9</p> <p>17.2</p> <p>21.6</p> <p>25.7</p> <p>103</p> </div> <div> <p>135</p> <p>140</p> <p>153</p> <p>153</p> <p>162</p> <p>136</p> <p>165</p> </div> <div> <p>9.4</p> <p>12.0</p> <p>14.3</p> <p>16.5</p> <p>19.1</p> <p>24.0</p> <p>28.5</p> <p>114</p> </div> <div> <p>150</p> <p>156</p> <p>170</p> <p>170</p> <p>180</p> <p>151</p> <p>183</p> </div> <div> <p>10.2</p> <p>14.2</p> <p>16.8</p> <p>19.4</p> <p>23.4</p> <p>28.2</p> <p>34.2</p> <p>134</p> </div> <div> <p>50</p> <p>50</p> <p>50</p> <p>50</p> <p>25</p> <p>25</p> <p>25</p> <p>10</p> </div> </div>														

<div style="display: flex; justify-content: space-between;"> <div> <p>MB 13 - 025</p> <p>MB 13 - 032</p> <p>MB 13 - 038</p> <p>MB 13 - 044</p> <p>MB 13 - 051</p> <p>MB 13 - 064</p> <p>MB 13 - 076</p> <p>MB 13 - 089</p> <p>MB 13 - 102</p> <p>MB 13 - 305</p> </div> <div style="text-align: center;"> <p>12.5</p> <p>6.3</p> </div> <div> <p>25</p> <p>32</p> <p>38</p> <p>44</p> <p>51</p> <p>64</p> <p>76</p> <p>89</p> <p>102</p> <p>305</p> </div> <div> <p>30.0</p> <p>24.8</p> <p>21.4</p> <p>18.5</p> <p>15.5</p> <p>12.1</p> <p>10.2</p> <p>8.4</p> <p>6.3</p> <p>2.1</p> </div> <div> <p>6.3</p> <p>8.0</p> <p>9.5</p> <p>11.0</p> <p>12.8</p> <p>16.0</p> <p>19.0</p> <p>22.3</p> <p>25.5</p> <p>76.3</p> </div> <div> <p>189</p> <p>198</p> <p>203</p> <p>204</p> <p>198</p> <p>194</p> <p>194</p> <p>187</p> <p>161</p> <p>160</p> </div> <div> <p>7.5</p> <p>9.6</p> <p>11.4</p> <p>13.2</p> <p>15.3</p> <p>19.2</p> <p>22.8</p> <p>26.7</p> <p>30.6</p> <p>91.5</p> </div> <div> <p>225</p> <p>238</p> <p>244</p> <p>244</p> <p>237</p> <p>232</p> <p>233</p> <p>224</p> <p>193</p> <p>192</p> </div> <div> <p>8.4</p> <p>10.8</p> <p>12.8</p> <p>14.9</p> <p>17.2</p> <p>21.6</p> <p>25.7</p> <p>34.4</p> <p>103</p> </div> <div> <p>253</p> <p>268</p> <p>274</p> <p>275</p> <p>267</p> <p>261</p> <p>262</p> <p>252</p> <p>217</p> <p>216</p> </div> <div> <p>9.4</p> <p>12.0</p> <p>14.3</p> <p>16.5</p> <p>19.1</p> <p>24.0</p> <p>28.5</p> <p>38.3</p> <p>114</p> </div> <div> <p>282</p> <p>298</p> <p>306</p> <p>305</p> <p>296</p> <p>290</p> <p>291</p> <p>281</p> <p>241</p> <p>240</p> </div> <div> <p>11.9</p> <p>16.2</p> <p>18.7</p> <p>21.3</p> <p>25.6</p> <p>32.4</p> <p>39.0</p> <p>45.9</p> <p>52.3</p> <p>153</p> </div> <div> <p>50</p> <p>50</p> <p>50</p> <p>25</p> <p>25</p> <p>25</p> <p>25</p> <p>20</p> <p>10</p> <p>10</p> </div> </div>														
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<div style="display: flex; justify-content: space-between;"> <div> <p>MB 16 - 025</p> <p>MB 16 - 032</p> <p>MB 16 - 038</p> <p>MB 16 - 044</p> <p>MB 16 - 051</p> <p>MB 16 - 064</p> <p>MB 16 - 076</p> <p>MB 16 - 089</p> <p>MB 16 - 102</p> <p>MB 16 - 115</p> <p>MB 16 - 305</p> </div> <div style="text-align: center;"> <p>16</p> <p>8</p> </div> <div> <p>25</p> <p>32</p> <p>38</p> <p>44</p> <p>51</p> <p>64</p> <p>76</p> <p>89</p> <p>102</p> <p>115</p> <p>305</p> </div> <div> <p>49.4</p> <p>37.1</p> <p>33.9</p> <p>30.0</p> <p>26.4</p> <p>20.5</p> <p>17.8</p> <p>15.2</p> <p>13.5</p> <p>11.8</p> <p>4.8</p> </div> <div> <p>6.3</p> <p>8.0</p> <p>9.5</p> <p>11.0</p> <p>12.8</p> <p>16.0</p> <p>19.0</p> <p>22.3</p> <p>25.5</p> <p>28.8</p> <p>76.3</p> </div> <div> <p>311</p> <p>297</p> <p>322</p> <p>330</p> <p>338</p> <p>328</p> <p>338</p> <p>339</p> <p>344</p> <p>340</p> <p>366</p> </div> <div> <p>7.5</p> <p>9.6</p> <p>11.4</p> <p>13.2</p> <p>15.3</p> <p>19.2</p> <p>22.8</p> <p>26.7</p> <p>30.6</p> <p>34.5</p> <p>91.5</p> </div> <div> <p>371</p> <p>356</p> <p>386</p> <p>396</p> <p>404</p> <p>394</p> <p>406</p> <p>406</p> <p>413</p> <p>407</p> <p>439</p> </div> <div> <p>8.4</p> <p>10.8</p> <p>12.8</p> <p>14.9</p> <p>17.2</p> <p>21.6</p> <p>25.7</p> <p>30.0</p> <p>34.4</p> <p>38.8</p> <p>103</p> </div> <div> <p>417</p> <p>401</p> <p>435</p> <p>446</p> <p>454</p> <p>443</p> <p>457</p> <p>457</p> <p>465</p> <p>458</p> <p>494</p> </div> <div> <p>9.4</p> <p>12.0</p> <p>14.3</p> <p>16.5</p> <p>19.1</p> <p>24.0</p> <p>28.5</p> <p>33.4</p> <p>38.3</p> <p>43.1</p> <p>114</p> </div> <div> <p>464</p> <p>445</p> <p>485</p> <p>495</p> <p>504</p> <p>492</p> <p>507</p> <p>508</p> <p>517</p> <p>509</p> <p>549</p> </div> <div> <p>10.5</p> <p>13.2</p> <p>17.2</p> <p>19.4</p> <p>24.2</p> <p>29.2</p> <p>36.3</p> <p>41.7</p> <p>48.9</p> <p>53.1</p> <p>142</p> </div> <div> <p>50</p> <p>50</p> <p>25</p> <p>25</p> <p>25</p> <p>20</p> <p>20</p> <p>20</p> <p>10</p> <p>10</p> </div> </div>														
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<div style="display: flex; justify-content: space-between;"> <div> <p>MB 20 - 025</p> <p>MB 20 - 032</p> <p>MB 20 - 038</p> <p>MB 20 - 044</p> <p>MB 20 - 051</p> <p>MB 20 - 064</p> <p>MB 20 - 076</p> <p>MB 20 - 089</p> <p>MB 20 - 102</p> <p>MB 20 - 115</p> <p>MB 20 - 127</p> <p>MB 20 - 139</p> <p>MB 20 - 152</p> <p>MB 20 - 305</p> </div> <div style="text-align: center;"> <p>20</p> <p>10</p> </div> <div> <p>25</p> <p>32</p> <p>38</p> <p>44</p> <p>51</p> <p>64</p> <p>76</p> <p>89</p> <p>102</p> <p>115</p> <p>127</p> <p>139</p> <p>152</p> <p>305</p> </div> <div> <p>98.0</p> <p>72.6</p> <p>56.0</p> <p>47.5</p> <p>41.7</p> <p>32.3</p> <p>25.1</p> <p>22.0</p> <p>19.8</p> <p>18.1</p> <p>16.6</p> <p>15.1</p> <p>13.2</p> <p>6.1</p> </div> <div> <p>6.3</p> <p>8.0</p> <p>9.5</p> <p>11.0</p> <p>12.8</p> <p>16.0</p> <p>19.0</p> <p>22.3</p> <p>25.5</p> <p>28.8</p> <p>31.8</p> <p>35.0</p> <p>38.0</p> <p>76.3</p> </div> <div> <p>617</p> <p>581</p> <p>532</p> <p>523</p> <p>534</p> <p>517</p> <p>477</p> <p>491</p> <p>505</p> <p>521</p> <p>528</p> <p>529</p> <p>500</p> <p>465</p> </div> <div> <p>7.5</p> <p>9.6</p> <p>11.4</p> <p>13.2</p> <p>15.3</p> <p>19.2</p> <p>22.8</p> <p>26.7</p> <p>30.6</p> <p>34.5</p> <p>38.1</p> <p>42.0</p> <p>45.6</p> <p>91.5</p> </div> <div> <p>735</p> <p>697</p> <p>638</p> <p>627</p> <p>638</p> <p>620</p> <p>572</p> <p>587</p> <p>606</p> <p>624</p> <p>632</p> <p>634</p> <p>600</p> <p>558</p> </div> <div> <p>8.4</p> <p>10.8</p> <p>12.8</p> <p>14.9</p> <p>17.2</p> <p>21.6</p> <p>25.7</p> <p>30.0</p> <p>34.4</p> <p>38.8</p> <p>42.9</p> <p>46.9</p> <p>51.3</p> <p>103</p> </div> <div> <p>827</p> <p>784</p> <p>718</p> <p>705</p> <p>718</p> <p>698</p> <p>644</p> <p>661</p> <p>682</p> <p>703</p> <p>712</p> <p>708</p> <p>677</p> <p>628</p> </div> <div> <p>9.4</p> <p>12.0</p> <p>14.3</p> <p>16.5</p> <p>19.1</p> <p>24.0</p> <p>28.5</p> <p>33.4</p> <p>38.3</p> <p>43.1</p> <p>47.6</p> <p>52.5</p> <p>57.0</p> <p>114</p> </div> <div> <p>921</p> <p>871</p> <p>801</p> <p>784</p> <p>796</p> <p>775</p> <p>715</p> <p>735</p> <p>758</p> <p>780</p> <p>790</p> <p>793</p> <p>750</p> <p>698</p> </div> <div> <p>10.5</p> <p>13.9</p> <p>16.6</p> <p>18.8</p> <p>23.1</p> <p>27.5</p> <p>33.8</p> <p>39.7</p> <p>47.3</p> <p>52.5</p> <p>56.9</p> <p>62.1</p> <p>67.6</p> <p>143</p> </div> <div> <p>50</p> <p>50</p> <p>25</p> <p>25</p> <p>25</p> <p>25</p> <p>20</p> <p>20</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> </div> </div>														
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Code	D _H	D _d	L ₀	R		A		B		C		D	E			
	Hole Diameter	Rod Diameter	Free Length	Spring Constant	± 10%	25% L ₀	30% L ₀	33.75% L ₀	37.5% L ₀	300 - 500.000	100 - 200.000	approx. do not use	Pcs			
	MB x h															
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm			
MB 25 - 025	25	12.5	25	147	6.3	926	7.5	1103	8.4	1240	9.4	1382	10.2	50		
MB 25 - 032			32	118	8.0	944	9.6	1133	10.8	1274	12.0	1416	13.7	25		
MB 25 - 038			38	93.0	9.5	884	11.4	1060	12.8	1193	14.3	1330	15.7	25		
MB 25 - 044			44	80.8	11.0	889	13.2	1067	14.9	1200	16.5	1333	18.2	25		
MB 25 - 051			51	68.6	12.8	878	15.3	1050	17.2	1181	19.1	1310	21.7	25		
MB 25 - 064			64	53.0	16.0	848	19.2	1018	21.6	1145	24.0	1272	26.0	25		
MB 25 - 076			76	43.2	19.0	821	22.8	985	25.7	1108	28.5	1231	32.3	20		
MB 25 - 089			89	38.2	22.3	852	26.7	1020	30.0	1147	33.4	1276	38.0	20		
MB 25 - 102			102	33.0	25.5	842	30.6	1010	34.4	1136	38.3	1264	43.0	20		
MB 25 - 115			115	28.0	28.8	806	34.5	966	38.8	1087	43.1	1207	48.6	10		
MB 25 - 127			127	25.9	31.8	824	38.1	987	42.9	1110	47.6	1233	53.7	10		
MB 25 - 139			139	23.2	35.0	812	42.0	974	46.9	1088	52.5	1218	59.4	10		
MB 25 - 152			152	20.8	38.0	790	45.6	948	51.3	1067	57.0	1186	63.8	10		
MB 25 - 178			178	17.8	44.5	792	53.4	951	60.1	1069	66.8	1189	76.6	10		
MB 25 - 203	203	15.8	50.8	803	60.9	962	68.5	1082	76.1	1202	88.4	10				
MB 25 - 305	5.4 x 3.3		305	10.2	76.3	778	91.5	933	103	1050	114	1167	135	5		
MB 32 - 038	32	16	38	185	9.5	1758	11.4	2109	12.8	2373	14.3	2646	16.3	20		
MB 32 - 044			44	158	11.0	1738	13.2	2086	14.9	2346	16.5	2607	18.9	20		
MB 32 - 051			51	134	12.8	1715	15.3	2050	17.2	2306	19.1	2559	23.1	20		
MB 32 - 064			64	99.0	16.0	1584	19.2	1901	21.6	2138	24.0	2376	28.5	20		
MB 32 - 076			76	80.5	19.0	1530	22.8	1835	25.7	2065	28.5	2294	34.2	20		
MB 32 - 089			89	69.1	22.3	1541	26.7	1845	30.0	2076	33.4	2308	40.4	10		
MB 32 - 102			102	58.8	25.5	1499	30.6	1799	34.4	2024	38.3	2252	48.0	10		
MB 32 - 115			115	51.5	28.8	1483	34.5	1777	38.8	1999	43.1	2220	54.3	10		
MB 32 - 127			127	44.8	31.8	1425	38.1	1707	42.9	1920	47.6	2132	59.2	10		
MB 32 - 139			139	42.3	35.0	1481	42.0	1777	46.9	1984	52.5	2221	65.3	10		
MB 32 - 152			152	37.8	38.0	1436	45.6	1724	51.3	1939	57.0	2155	73.0	10		
MB 32 - 178			178	32.5	44.5	1446	53.4	1736	60.1	1952	66.8	2171	84.5	5		
MB 32 - 203			203	28.9	50.8	1468	60.9	1760	68.5	1980	76.1	2199	96.9	5		
MB 32 - 254			254	21.4	63.5	1359	76.2	1631	85.7	1835	95.3	2039	121	5		
MB 32 - 305	6.8 x 4.0		305	18.3	76.3	1396	91.5	1674	103	1884	114	2094	147	5		
MB 40 - 051	40	20	51	182	12.8	2330	15.3	2785	17.2	3130	19.1	3476	21.4	20		
MB 40 - 064			64	140	16.0	2240	19.2	2688	21.6	3024	24.0	3360	26.8	10		
MB 40 - 076			76	108	19.0	2052	22.8	2462	25.7	2770	28.5	3078	32.7	10		
MB 40 - 089			89	90.7	22.3	2023	26.7	2422	30.0	2724	33.4	3029	39.0	10		
MB 40 - 102			102	81.0	25.5	2066	30.6	2479	34.4	2788	38.3	3102	44.1	10		
MB 40 - 115			115	71.8	28.8	2068	34.5	2477	38.8	2787	43.1	3095	50.6	10		
MB 40 - 127			127	62.7	31.8	1994	38.1	2389	42.9	2687	47.6	2985	55.9	5		
MB 40 - 139			139	57.5	35.0	2013	42.0	2415	46.9	2697	52.5	3019	61.8	5		
MB 40 - 152			152	51.6	38.0	1961	45.6	2353	51.3	2647	57.0	2941	67.5	5		
MB 40 - 178			178	44.1	44.5	1962	53.4	2355	60.1	2649	66.8	2946	77.2	5		
MB 40 - 203			203	36.7	50.8	1864	60.9	2235	68.5	2514	76.1	2793	91.8	5		
MB 40 - 254			254	30.1	63.5	1911	76.2	2294	85.7	2580	95.3	2869	113	2		
MB 40 - 305			8.2 x 4.7		305	24.6	76.3	1877	91.5	2251	103	2532	114	2814	138	2
MB 50 - 064			50	25	64	209	16.0	3344	19.2	4013	21.6	4514	24.0	5016	28.2	5
MB 50 - 076	76	168			19.0	3192	22.8	3830	25.7	4309	28.5	4788	34.9	5		
MB 50 - 089	89	140			22.3	3122	26.7	3738	30.0	4205	33.4	4676	39.2	5		
MB 50 - 102	102	119			25.5	3035	30.6	3641	34.4	4097	38.3	4558	47.3	5		
MB 50 - 115	115	106			28.8	3053	34.5	3657	38.8	4114	43.1	4569	52.6	5		
MB 50 - 127	127	97.0			31.8	3085	38.1	3696	42.9	4158	47.6	4617	59.8	5		
MB 50 - 139	139	87.0			35.0	3045	42.0	3654	46.9	4081	52.5	4568	65.1	5		
MB 50 - 152	152	80.0			38.0	3040	45.6	3648	51.3	4104	57.0	4560	70.8	2		
MB 50 - 178	178	69.5			44.5	3093	53.4	3711	60.1	4175	66.8	4643	84.2	2		
MB 50 - 203	203	59.8			50.8	3038	60.9	3642	68.5	4097	76.1	4551	96.5	2		
MB 50 - 229	229	50.9			57.3	2917	68.7	3497	77.3	3934	85.9	4372	108	2		
MB 50 - 254	254	43.9			63.5	2788	76.2	3345	85.7	3763	95.3	4184	122	2		
MB 50 - 305	11.1 x 5.8				305	38.6	76.3	2945	91.5	3532	103	3973	114	4416	147	2
MB 63 - 076	63	38			76	312	19.0	5928	22.8	7114	25.7	8003	28.5	8892	30.7	5
MB 63 - 089			89	260	22.3	5798	26.7	6942	30.0	7810	33.4	8684	36.5	5		
MB 63 - 102			102	221	25.5	5636	30.6	6763	34.4	7608	38.3	8464	43.6	5		
MB 63 - 115			115	187	28.8	5386	34.5	6452	38.8	7258	43.1	8060	48.9	5		
MB 63 - 127			127	168	31.8	5342	38.1	6401	42.9	7201	47.6	7997	54.2	2		
MB 63 - 152			152	136	38.0	5168	45.6	6202	51.3	6977	57.0	7752	65.7	2		
MB 63 - 178			178	114	44.5	5073	53.4	6088	60.1	6849	66.8	7615	76.5	2		
MB 63 - 203			203	100	50.8	5080	60.9	6090	68.5	6851	76.1	7610	88.0	2		
MB 63 - 229			229	89.2	57.3	5111	68.7	6128	77.3	6894	85.9	7662	104	2		
MB 63 - 254			254	78.4	63.5	4978	76.2	5974	85.7	6721	95.3	7472	112	2		
MB 63 - 305			11.5 x 9.1		305	64.7	76.3	4937	91.5	5920	103	6660	114	7402	134	2





MAT_ACCIAIO PER MOLLE / SPRINGS STEEL

Code per n. pezzi
MR / Dh / L




RoHS






°C 120
-30


°F 248
-2




X
Z
Y








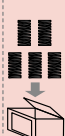
CAD



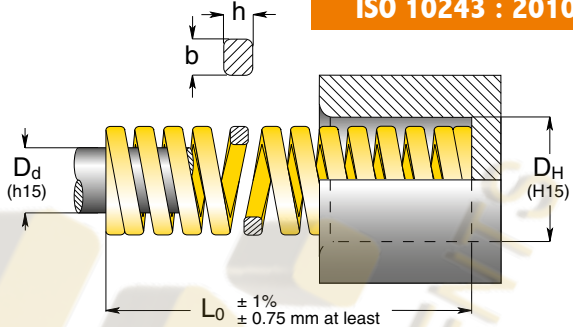


PAINT
Red
COAT

Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A		B		C		D		E	Pcs	
					20% L ₀	N	25% L ₀	N	27.5% L ₀	N	30% L ₀	N			
				± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	do not use		approx.				
				N/mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
MR 10 - 025	10	5	25	22.1	5.0	111	6.3	139	6.9	152	7.5	166	9.2	50	
MR 10 - 032			32	17.5	6.4	112	8.0	140	8.8	154	9.6	168	12.1	50	
MR 10 - 038			38	17.1	7.6	130	9.5	162	10.5	179	11.4	195	13.2	50	
MR 10 - 044			44	15.0	8.8	132	11.0	165	12.1	182	13.2	198	15.1	50	
MR 10 - 051			51	12.8	10.2	131	12.8	164	14.0	180	15.3	196	19.5	25	
MR 10 - 064			64	10.7	12.8	137	16.0	171	17.6	188	19.2	205	21.8	25	
MR 10 - 076			76	7.5	15.2	114	19.0	143	20.9	157	22.8	171	27.9	25	
MR 10 - 305			1.9 x 1.5	305	2.1	61.0	128	76.3	160	83.9	176	91.5	192	127	10
MR 13 - 025	12.5	6.3	25	42.1	5.0	211	6.3	265	6.9	289	7.5	316	9.8	50	
MR 13 - 032			32	33.2	6.4	212	8.0	266	8.8	292	9.6	319	13.6	50	
MR 13 - 038			38	29.3	7.6	223	9.5	278	10.5	306	11.4	334	14.6	50	
MR 13 - 044			44	24.6	8.8	216	11.0	271	12.1	298	13.2	325	18.1	25	
MR 13 - 051			51	19.6	10.2	200	12.8	251	14.0	275	15.3	300	22.3	25	
MR 13 - 064			64	15.0	12.8	192	16.0	240	17.6	264	19.2	288	27.3	25	
MR 13 - 076			76	13.2	15.2	201	19.0	251	20.9	276	22.8	301	33.1	25	
MR 13 - 089			89	11.4	17.8	203	22.3	254	24.5	279	26.7	304	38.9	20	
MR 13 - 102	102	8.4	20.4	171	25.5	214	28.1	236	30.6	257	43.8	10			
MR 13 - 305	2.4 x 1.9	305	2.8	61.0	171	76.3	214	83.9	235	91.5	256	140	10		
MR 16 - 025	16	8	25	75.7	5.0	379	6.3	477	6.9	520	7.5	568	8.4	50	
MR 16 - 032			32	52.8	6.4	338	8.0	422	8.8	465	9.6	507	10.5	50	
MR 16 - 038			38	48.5	7.6	369	9.5	461	10.5	507	11.4	553	13.6	25	
MR 16 - 044			44	42.8	8.8	377	11.0	471	12.1	518	13.2	565	15.9	25	
MR 16 - 051			51	37.1	10.2	378	12.8	475	14.0	520	15.3	568	18.9	25	
MR 16 - 064			64	30.3	12.8	388	16.0	485	17.6	533	19.2	582	24.9	25	
MR 16 - 076			76	25.7	15.2	391	19.0	488	20.9	537	22.8	586	29.2	20	
MR 16 - 089			89	21.7	17.8	386	22.3	484	24.5	531	26.7	579	34.5	20	
MR 16 - 102	102	19.3	20.4	394	25.5	492	28.1	541	30.6	591	39.1	20			
MR 16 - 115	115	15.7	23.0	361	28.8	452	31.6	497	34.5	542	44.0	10			
MR 16 - 305	3.1 x 2.5	305	7.1	61.0	433	76.3	542	83.9	596	91.5	650	104	10		
MR 20 - 025	20	10	25	216	5.0	1080	6.3	1361	6.9	1485	7.5	1620	8.3	50	
MR 20 - 032			32	168	6.4	1075	8.0	1344	8.8	1478	9.6	1613	10.9	50	
MR 20 - 038			38	129	7.6	980	9.5	1226	10.5	1348	11.4	1471	12.5	25	
MR 20 - 044			44	112	8.8	986	11.0	1232	12.1	1355	13.2	1478	15.0	25	
MR 20 - 051			51	94.0	10.2	959	12.8	1203	14.0	1318	15.3	1438	17.6	25	
MR 20 - 064			64	72.1	12.8	923	16.0	1154	17.6	1269	19.2	1384	22.6	25	
MR 20 - 076			76	59.7	15.2	907	19.0	1134	20.9	1248	22.8	1361	27.5	25	
MR 20 - 089			89	50.5	17.8	899	22.3	1126	24.5	1236	26.7	1348	31.7	20	
MR 20 - 102	102	44.2	20.4	902	25.5	1127	28.1	1240	30.6	1353	37.5	20			
MR 20 - 115	115	38.4	23.0	883	28.8	1106	31.6	1214	34.5	1325	42.6	10			
MR 20 - 127	127	34.1	25.4	866	31.8	1084	34.9	1191	38.1	1299	45.5	10			
MR 20 - 139	139	31.0	28.0	868	35.0	1085	38.2	1185	42.0	1302	50.1	10			
MR 20 - 152	152	28.2	30.4	857	38.0	1072	41.8	1179	45.6	1286	55.8	10			
MR 20 - 305	4.0 x 3.3	305	15.0	61.0	915	76.3	1145	83.9	1258	91.5	1373	114	10		








Code	D _H	D _d	L ₀	R		A		B		C		D		E		
	Hole Diameter		Free Length	Spring Constant	20% L ₀	25% L ₀	27.5% L ₀	30% L ₀	do not use							
	b x h		± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	approx.		do not use		do not use				
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	N	Pcs	
MR 25 - 025	25	12.5	25	375	5.0	1875	6.3	2363	6.9	2578	7.5	2813	8.5	50		
MR 25 - 032			32	297	6.4	1901	8.0	2376	8.8	2614	9.6	2851	11.0	25		
MR 25 - 038			38	219	7.6	1664	9.5	2081	10.5	2289	11.4	2497	12.6	25		
MR 25 - 044			44	187	8.8	1646	11.0	2057	12.1	2263	13.2	2468	14.8	25		
MR 25 - 051			51	156	10.2	1591	12.8	1997	14.0	2188	15.3	2387	17.9	25		
MR 25 - 064			64	123	12.8	1574	16.0	1968	17.6	2165	19.2	2362	23.1	25		
MR 25 - 076			76	99.0	15.2	1505	19.0	1881	20.9	2069	22.8	2257	26.3	20		
MR 25 - 089			89	84.0	17.8	1495	22.3	1873	24.5	2056	26.7	2243	30.5	20		
MR 25 - 102			102	73.0	20.4	1489	25.5	1862	28.1	2048	30.6	2234	37.3	20		
MR 25 - 115			115	65.0	23.0	1495	28.8	1872	31.6	2056	34.5	2243	41.9	10		
MR 25 - 127			127	57.7	25.4	1466	31.8	1835	34.9	2015	38.1	2198	46.2	10		
MR 25 - 139			139	52.7	28.0	1476	35.0	1845	38.2	2014	42.0	2213	49.3	10		
MR 25 - 152			152	47.8	30.4	1453	38.0	1816	41.8	1998	45.6	2180	55.7	10		
MR 25 - 178			178	41.0	35.6	1460	44.5	1825	49.0	2007	53.4	2189	65.1	10		
MR 25 - 203			203	35.8	40.6	1453	50.8	1819	55.8	1999	60.9	2180	74.5	10		
MR 25 - 305			5.5 x 4.2	305	22.9	61.0	1397	76.3	1747	83.9	1921	91.5	2095	110	5	
MR 32 - 038	32	16	38	388	7.6	2949	9.5	3686	10.5	4055	11.4	4423	12.5	20		
MR 32 - 044			44	324	8.8	2851	11.0	3564	12.1	3920	13.2	4277	14.9	20		
MR 32 - 051			51	272	10.2	2774	12.8	3482	14.0	3815	15.3	4162	17.8	20		
MR 32 - 064			64	212	12.8	2714	16.0	3392	17.6	3731	19.2	4070	22.4	20		
MR 32 - 076			76	172	15.2	2614	19.0	3268	20.9	3595	22.8	3922	26.1	20		
MR 32 - 089			89	141	17.8	2510	22.3	3144	24.5	3451	26.7	3765	30.8	10		
MR 32 - 102			102	122	20.4	2489	25.5	3111	28.1	3422	30.6	3733	36.8	10		
MR 32 - 115			115	107	23.0	2461	28.8	3082	31.6	3384	34.5	3692	41.4	10		
MR 32 - 127			127	93.0	25.4	2362	31.8	2957	34.9	3248	38.1	3543	44.4	10		
MR 32 - 139			139	86.0	28.0	2408	35.0	3010	38.2	3287	42.0	3612	48.5	10		
MR 32 - 152			152	78.0	30.4	2371	38.0	2964	41.8	3260	45.6	3557	54.8	10		
MR 32 - 178			178	67.2	35.6	2392	44.5	2990	49.0	3289	53.4	3588	63.6	5		
MR 32 - 203			203	59.1	40.6	2399	50.8	3002	55.8	3299	60.9	3599	72.5	5		
MR 32 - 254			254	46.4	50.8	2357	63.5	2946	69.9	3241	76.2	3536	92.8	5		
MR 32 - 305			7.1 x 5.4	305	38.0	61.0	2318	76.3	2899	83.9	3187	91.5	3477	112	5	
MR 40 - 051			40	20	51	350	10.2	3570	12.8	4480	14.0	4909	15.3	5355	17.0	20
MR 40 - 064	64	269			12.8	3443	16.0	4304	17.6	4734	19.2	5165	21.9	10		
MR 40 - 076	76	219			15.2	3329	19.0	4161	20.9	4577	22.8	4993	26.7	10		
MR 40 - 089	89	190			17.8	3382	22.3	4237	24.5	4650	26.7	5073	31.3	10		
MR 40 - 102	102	163			20.4	3325	25.5	4157	28.1	4572	30.6	4988	37.1	10		
MR 40 - 115	115	142			23.0	3266	28.8	4090	31.6	4491	34.5	4899	41.0	10		
MR 40 - 127	127	128			25.4	3251	31.8	4070	34.9	4470	38.1	4877	46.5	5		
MR 40 - 139	139	115			28.0	3220	35.0	4025	38.2	4396	42.0	4830	53.1	5		
MR 40 - 152	152	105			30.4	3192	38.0	3990	41.8	4389	45.6	4788	56.1	5		
MR 40 - 178	178	89			35.6	3168	44.5	3961	49.0	4357	53.4	4753	67.4	5		
MR 40 - 203	203	77			40.6	3126	50.8	3912	55.8	4299	60.9	4689	76.2	5		
MR 40 - 254	254	61			50.8	3099	63.5	3874	69.9	4261	76.2	4648	96.2	2		
MR 40 - 305	8.4 x 6.2	305			51	61.0	3111	76.3	3891	83.9	4278	91.5	4667	115	2	
MR 50 - 064	50	25			64	413	12.8	5286	16.0	6608	17.6	7269	19.2	7930	22.4	5
MR 50 - 076					76	339	15.2	5153	19.0	6441	20.9	7085	22.8	7729	26.5	5
MR 50 - 089					89	288	17.8	5126	22.3	6422	24.5	7049	26.7	7690	31.5	5
MR 50 - 102			102	245	20.4	4998	25.5	6248	28.1	6872	30.6	7497	37.6	5		
MR 50 - 115			115	215	23.0	4945	28.8	6192	31.6	6799	34.5	7418	42.7	5		
MR 50 - 127			127	192	25.4	4877	31.8	6106	34.9	6706	38.1	7315	47.5	5		
MR 50 - 139			139	168	28.0	4704	35.0	5880	38.2	6422	42.0	7056	51.8	5		
MR 50 - 152			152	154	30.4	4682	38.0	5852	41.8	6437	45.6	7022	57.8	2		
MR 50 - 178			178	134	35.6	4770	44.5	5963	49.0	6559	53.4	7156	68.5	2		
MR 50 - 203			203	117	40.6	4750	50.8	5944	55.8	6532	60.9	7125	77.6	2		
MR 50 - 254			254	89	50.8	4521	63.5	5652	69.9	6217	76.2	6782	97.9	2		
MR 50 - 305			11.1 x 7.6	305	73	61.0	4453	76.3	5570	83.9	6123	91.5	6680	121	2	
MR 63 - 076			63	38	76	618	15.2	9394	19.0	11742	20.9	12916	22.8	14090	24.7	5
MR 63 - 089					89	515	17.8	9167	22.3	11485	24.5	12605	26.7	13751	30.0	5
MR 63 - 102					102	438	20.4	8935	25.5	11169	28.1	12286	30.6	13403	35.1	5
MR 63 - 115					115	370	23.0	8510	28.8	10656	31.6	11701	34.5	12765	37.5	5
MR 63 - 127	127	333			25.4	8458	31.8	10589	34.9	11630	38.1	12687	45.9	2		
MR 63 - 152	152	269			30.4	8178	38.0	10222	41.8	11244	45.6	12266	56.5	2		
MR 63 - 178	178	226			35.6	8046	44.5	10057	49.0	11063	53.4	12068	66.8	2		
MR 63 - 203	203	198			40.6	8039	50.8	10058	55.8	11053	60.9	12058	78.8	2		
MR 63 - 254	254	155			50.8	7874	63.5	9843	69.9	10827	76.2	11811	102	2		
MR 63 - 305	11.6 x 12.3	305			128	61.0	7808	76.3	9766	83.9	10736	91.5	11712	122	2	

Estimated life 100.000 cycles

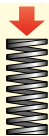




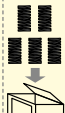


MAT ACCIAIO PER MOLLE / SPRINGS STEEL

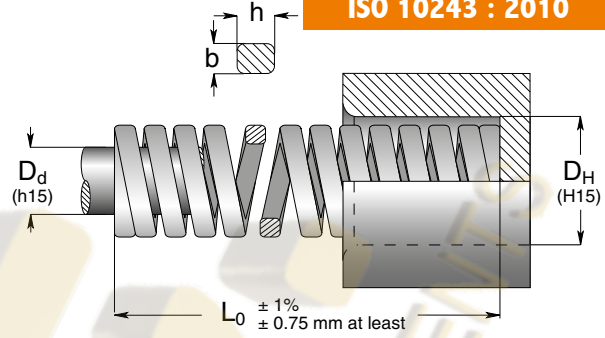
Code per n. pezzi
MG / Dh / L

RoHS       **PAINT**
Yellow


Code	D _H Hole Diameter	D _d Hole Diameter	L ₀ Free Length	R Spring Constant	A 17% L ₀		B 20% L ₀		C 22.5% L ₀		D 25% L ₀		E approx. do not use	Pcs
					mm	N	mm	N	mm	N	mm	N		
<div style="display: flex; justify-content: space-between;"> <div> <p>± 10%</p> <p>+ 3.000.000</p> <p>~ 1.500.000</p> <p>300 - 500.000</p> <p>100 - 200.000</p> </div> <div> <p>do not use</p> </div> </div>														
	b x h													
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	
MG 10 - 025	10	5	25	36.8	4.3	158	5.0	184	5.6	207	6.3	232	7.7	50
MG 10 - 032			32	27.9	5.4	151	6.4	179	7.2	201	8.0	223	10.6	50
MG 10 - 038			38	23.7	6.5	154	7.6	180	8.6	203	9.5	225	12.6	50
MG 10 - 044			44	19.2	7.5	144	8.8	169	9.9	190	11.0	211	13.8	50
MG 10 - 051			51	16.5	8.7	144	10.2	168	11.5	189	12.8	211	16.2	25
MG 10 - 064			64	13.2	10.9	144	12.8	169	14.4	190	16.0	211	20.4	25
MG 10 - 076			76	10.9	12.9	141	15.2	166	17.1	186	19.0	207	25.2	25
MG 10 - 305			1.9 x 1.6	305	2.6	51.9	135	61.0	159	68.6	178	76.3	198	111
MG 13 - 025	12.5	6.3	25	58.5	4.3	252	5.0	293	5.6	329	6.3	369	8.1	50
MG 13 - 032			32	43.9	5.4	237	6.4	281	7.2	316	8.0	351	9.9	50
MG 13 - 038			38	36.0	6.5	234	7.6	274	8.6	308	9.5	342	12.9	50
MG 13 - 044			44	30.3	7.5	227	8.8	267	9.9	300	11.0	333	14.1	25
MG 13 - 051			51	26.2	8.7	228	10.2	267	11.5	301	12.8	335	17.4	25
MG 13 - 064			64	21.2	10.9	231	12.8	271	14.4	305	16.0	339	21.0	25
MG 13 - 076			76	17.1	12.9	221	15.2	260	17.1	292	19.0	325	26.4	25
MG 13 - 089			89	14.5	15.1	219	17.8	258	20.0	290	22.3	323	31.5	20
MG 13 - 102	102	12.7	17.3	220	20.4	259	23.0	291	25.5	324	36.0	10		
MG 13 - 305	2.6 x 2.0	305	4.3	51.9	223	61.0	262	68.6	295	76.3	328	111	10	
MG 16 - 025	16	8	25	118	4.3	507	5.0	590	5.6	664	6.3	743	8.5	50
MG 16 - 032			32	89.0	5.4	481	6.4	570	7.2	641	8.0	712	11.0	50
MG 16 - 038			38	72.1	6.5	469	7.6	548	8.6	616	9.5	685	13.2	25
MG 16 - 044			44	60.9	7.5	457	8.8	536	9.9	603	11.0	670	14.7	25
MG 16 - 051			51	52.3	8.7	455	10.2	533	11.5	600	12.8	669	17.7	25
MG 16 - 064			64	41.2	10.9	449	12.8	527	14.4	593	16.0	659	21.9	25
MG 16 - 076			76	34.1	12.9	440	15.2	518	17.1	583	19.0	648	27.8	20
MG 16 - 089			89	29.5	15.1	445	17.8	525	20.0	591	22.3	658	31.2	20
MG 16 - 102	102	25.6	17.3	443	20.4	522	23.0	588	25.5	653	37.9	20		
MG 16 - 115	115	22.4	19.6	439	23.0	515	25.9	580	28.8	645	44.5	10		
MG 16 - 305	3.2 x 2.9	305	8.4	51.9	436	61.0	512	68.6	576	76.3	641	113	10	
MG 20 - 025	20	10	25	293	4.3	1260	5.0	1465	5.6	1648	6.3	1846	6.9	50
MG 20 - 032			32	224	5.4	1210	6.4	1434	7.2	1613	8.0	1792	9.4	50
MG 20 - 038			38	177	6.5	1151	7.6	1345	8.6	1513	9.5	1682	12.0	25
MG 20 - 044			44	149	7.5	1118	8.8	1311	9.9	1475	11.0	1639	13.5	25
MG 20 - 051			51	128	8.7	1114	10.2	1306	11.5	1469	12.8	1638	16.2	25
MG 20 - 064			64	99.0	10.9	1079	12.8	1267	14.4	1426	16.0	1584	21.2	25
MG 20 - 076			76	81.7	12.9	1054	15.2	1242	17.1	1397	19.0	1552	24.7	25
MG 20 - 089			89	69.5	15.1	1049	17.8	1237	20.0	1392	22.3	1550	28.8	20
MG 20 - 102	102	60.6	17.3	1048	20.4	1236	23.0	1391	25.5	1545	34.8	20		
MG 20 - 115	115	53.0	19.6	1039	23.0	1219	25.9	1371	28.8	1526	39.0	10		
MG 20 - 127	127	47.5	21.6	1026	25.4	1207	28.6	1357	31.8	1511	43.0	10		
MG 20 - 139	139	43.0	23.6	1015	27.8	1195	31.3	1346	34.8	1496	45.3	10		
MG 20 - 152	152	39.0	25.8	1006	30.4	1186	34.2	1334	38.0	1482	50.4	10		
MG 20 - 305	4.1 x 3.8	305	21.2	51.9	1100	61.0	1293	68.6	1455	76.3	1618	103	10	

Code	D _H	D _d	L ₀	R		A		B		C		D		E			
	Hole Diameter	Rod Diameter	Free Length	Spring Constant												17% L ₀	20% L ₀
	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	N	Pcs		
MG 25 - 025	25	12.5	25	459	4.3	1974	5.0	2295	5.6	2570	6.3	2892	6.7	50			
MG 25 - 032			32	374	5.4	2020	6.4	2394	7.2	2693	8.0	2992	10.7	25			
MG 25 - 038			38	300	6.5	1950	7.6	2280	8.6	2580	9.5	2850	12.0	25			
MG 25 - 044			44	244	7.5	1830	8.8	2147	9.9	2416	11.0	2684	14.4	25			
MG 25 - 051			51	208	8.7	1810	10.2	2122	11.5	2392	12.8	2662	17.4	25			
MG 25 - 064			64	161	10.9	1755	12.8	2061	14.4	2318	16.0	2576	21.4	25			
MG 25 - 076			76	131	12.9	1690	15.2	1991	17.1	2240	19.0	2489	26.9	20			
MG 25 - 089			89	111	15.1	1676	17.8	1976	20.0	2220	22.3	2475	30.9	20			
MG 25 - 102			102	96.3	17.3	1666	20.4	1965	23.0	2210	25.5	2456	36.7	20			
MG 25 - 115			115	85.7	19.6	1680	23.0	1971	25.9	2217	28.8	2468	40.3	10			
MG 25 - 127			127	76.3	21.6	1648	25.4	1938	28.6	2180	31.8	2426	45.1	10			
MG 25 - 139			139	66.0	23.6	1558	27.8	1835	31.3	2066	34.8	2297	47.6	10			
MG 25 - 152			152	63.5	25.8	1638	30.4	1930	34.2	2172	38.0	2413	53.5	10			
MG 25 - 178			178	53.9	30.3	1633	35.6	1919	40.1	2159	44.5	2399	63.9	10			
MG 25 - 203			203	47.0	34.5	1622	40.6	1908	45.7	2147	50.8	2388	70.2	10			
MG 25 - 305			5.4 x 4.6	305	30.9	51.9	1604	61.0	1885	68.6	2121	76.3	2358	110	5		
MG 32 - 038	32	16	38	480	6.5	3120	7.6	3648	8.6	4128	9.5	4560	11.4	20			
MG 32 - 044			44	390	7.5	2925	8.8	3432	9.9	3861	11.0	4290	13.7	20			
MG 32 - 051			51	320	8.7	2784	10.2	3264	11.5	3680	12.8	4096	15.6	20			
MG 32 - 064			64	269	10.9	2934	12.8	3446	14.4	3876	16.0	4307	20.0	20			
MG 32 - 076			76	219	12.9	2825	15.2	3329	17.1	3745	19.0	4161	24.4	20			
MG 32 - 089			89	180	15.1	2723	17.8	3209	20.0	3611	22.3	4021	29.7	10			
MG 32 - 102			102	155	17.3	2682	20.4	3162	23.0	3557	25.5	3953	35.1	10			
MG 32 - 115			115	140	19.6	2744	23.0	3220	25.9	3623	28.8	4032	39.0	10			
MG 32 - 127			127	124	21.6	2678	25.4	3150	28.6	3543	31.8	3943	42.8	10			
MG 32 - 139			139	112	23.6	2643	27.8	3114	31.3	3506	34.8	3898	48	10			
MG 32 - 152			152	102	25.8	2632	30.4	3101	34.2	3488	38.0	3876	52.4	10			
MG 32 - 178			178	88.2	30.3	2672	35.6	3140	40.1	3532	44.5	3925	60.9	5			
MG 32 - 203			203	76.0	34.5	2622	40.6	3086	45.7	3471	50.8	3861	69.2	5			
MG 32 - 254			254	60.8	43.2	2627	50.8	3089	57.2	3475	63.5	3861	88.1	5			
MG 32 - 305			7.3 x 5.9	305	49.0	51.9	2543	61.0	2989	68.6	3363	76.3	3739	104	5		
MG 40 - 051			40	20	51	628	8.7	5464	10.2	6406	11.5	7206	12.8	8038	15.0	20	
MG 40 - 064	64	487			10.9	5308	12.8	6234	14.4	7013	16.0	7792	19.5	10			
MG 40 - 076	76	379			12.9	4889	15.2	5761	17.1	6481	19.0	7201	23.3	10			
MG 40 - 089	89	321			15.1	4847	17.8	5714	20.0	6428	22.3	7158	26.7	10			
MG 40 - 102	102	281			17.3	4861	20.4	5732	23.0	6449	25.5	7166	33.8	10			
MG 40 - 115	115	245			19.6	4802	23.0	5635	25.9	6339	28.8	7056	36.2	10			
MG 40 - 127	127	221			21.6	4774	25.4	5613	28.6	6315	31.8	7028	40.7	5			
MG 40 - 139	139	171			23.6	4036	27.8	4754	31.3	5352	34.8	5951	42.0	5			
MG 40 - 152	152	168			25.8	4334	30.4	5107	34.2	5746	38.0	6384	49.6	5			
MG 40 - 178	178	150			30.3	4545	35.6	5325	40.1	6015	44.5	6675	56.5	5			
MG 40 - 203	203	132			34.5	4554	40.6	5359	45.7	6029	50.8	6706	67.1	5			
MG 40 - 254	254	107			43.2	4622	50.8	5436	57.2	6115	63.5	6795	86.3	2			
MG 40 - 305	8.4 x 7.5	305			87.8	51.9	4557	61.0	5356	68.6	6025	76.3	6699	104	2		
MG 50 - 064	50	25			64	709	10.9	7728	12.8	9075	14.4	10210	16.0	11344	19.3	5	
MG 50 - 076					76	572	12.9	7379	15.2	8694	17.1	9781	19.0	10868	24.2	5	
MG 50 - 089					89	475	15.1	7173	17.8	8455	20.0	9512	22.3	10593	28.0	5	
MG 50 - 102			102	405	17.3	7007	20.4	8262	23.0	9295	25.5	10328	33.5	5			
MG 50 - 115			115	352	19.6	6899	23.0	8096	25.9	9108	28.8	10138	38.6	5			
MG 50 - 127			127	316	21.6	6826	25.4	8026	28.6	9030	31.8	10049	41.4	5			
MG 50 - 139			139	289	23.6	6820	27.8	8034	31.3	9046	34.8	10057	47.3	5			
MG 50 - 152			152	239	25.8	6166	30.4	7266	34.2	8174	38.0	9082	50.2	2			
MG 50 - 178			178	215	30.3	6515	35.6	7654	40.1	8611	44.5	9568	61.1	2			
MG 50 - 203			203	187	34.5	6452	40.6	7592	45.7	8541	50.8	9500	67.7	2			
MG 50 - 254			254	153	43.2	6610	50.8	7772	57.2	8744	63.5	9716	87.0	2			
MG 50 - 305			11.5 x 9.0	305	127	51.9	6591	61.0	7747	68.6	8715	76.3	9690	104	2		
MG 63 - 076			63	38	76	952	12.9	12280	15.2	14470	-	-	-	-	15.5	5	
MG 63 - 089					89	819	15.1	12360	17.8	14580	-	-	-	-	-	20.0	5
MG 63 - 102					102	700	17.3	12110	20.4	14280	23.0	16065	25.5	17850	30.7	5	
MG 63 - 115					115	620	19.6	12152	23.0	14260	25.9	16043	28.8	17860	34.9	5	
MG 63 - 127	127	565			21.6	12204	25.4	14351	28.6	16145	31.8	17967	38.0	2			
MG 63 - 152	152	458			25.8	11816	30.4	13923	34.2	15664	38.0	17404	47.2	2			
MG 63 - 178	178	384			30.3	11635	35.6	13670	40.1	15379	44.5	17088	55.8	2			
MG 63 - 203	203	337			34.5	11627	40.6	13682	45.7	15392	50.8	17120	64.8	2			
MG 63 - 254	254	263			43.2	11362	50.8	13360	57.2	15030	63.5	16701	86.7	2			
MG 63 - 305	11.6 x 14.9	305			218	51.9	11314	61.0	13298	68.6	14960	76.3	16633	106	2		

Estimated life 100.000 cycles

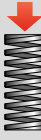







MAT_ACCIAIO PER MOLLE / SPRINGS STEEL

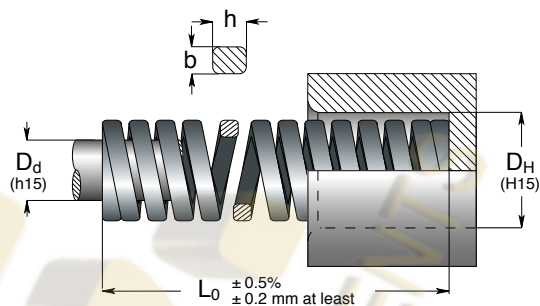
Code per n. pezzi
MA / Dh / L

RoHS		°C 120 -30	°F 248 2					PAINT Silver
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Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A		B		C		D		E	Pcs
					10% L ₀	N	12% L ₀	N	13.5% L ₀	N	15% L ₀	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	
new MA 10 - 025	10	5	25	167	2.5	418	3.0	501	3.4	564	3.8	626	5.9	50
MA 10 - 032			32	130	3.2	416	3.8	499	4.3	562	4.8	624	7.5	50
MA 10 - 038			38	105	3.8	399	4.6	479	5.1	539	5.7	599	8.2	50
MA 10 - 044			44	86	4.4	378	5.3	454	5.9	511	6.6	568	11.0	50
MA 10 - 051			51	79	5.1	403	6.1	483	6.9	544	7.7	604	12.5	25
MA 10 - 064			64	62	6.4	397	7.7	476	8.6	536	9.6	595	15.8	25
MA 10 - 076			76	51	7.6	388	9.1	465	10.3	523	11.4	581	19.0	25
MA 10 - 305			2.0 x 2.8	305	11.5	30.5	351	36.6	421	41.2	474	45.8	526	89.0
new MA 13 - 025	12.5	6.3	25	288	2.5	720	3.0	864	3.4	972	3.8	1080	5.6	50
MA 13 - 032			32	216	3.2	691	3.8	829	4.3	933	4.8	1037	7.3	50
MA 13 - 038			38	176	3.8	669	4.6	803	5.1	903	5.7	1003	9.2	50
MA 13 - 044			44	149	4.4	656	5.3	787	5.9	885	6.6	983	11.1	25
MA 13 - 051			51	128	5.1	653	6.1	783	6.9	881	7.7	979	12.6	25
MA 13 - 064			64	100	6.4	640	7.7	768	8.6	864	9.6	960	16.1	25
MA 13 - 076			76	84	7.6	638	9.1	766	10.3	862	11.4	958	19.3	25
MA 13 - 089			89	71	8.9	632	10.7	758	12.0	853	13.4	948	23.3	20
MA 13 - 102	102	61	10.2	622	12.2	747	13.8	840	15.3	933	26.9	10		
MA 13 - 305	2.75 x 3.4	305	22	30.5	671	36.6	805	41.2	906	45.8	1007	94.0	10	
new MA 16 - 032	16	8	32	449	3.2	1437	3.8	1724	4.3	1940	4.8	2155	6.6	50
MA 16 - 038			38	363	3.8	1379	4.6	1655	5.1	1862	5.7	2069	8.1	25
MA 16 - 044			44	309	4.4	1360	5.3	1632	5.9	1835	6.6	2039	10.1	25
MA 16 - 051			51	256	5.1	1306	6.1	1567	6.9	1763	7.7	1958	11.3	25
MA 16 - 064			64	203	6.4	1299	7.7	1559	8.6	1754	9.6	1949	14.3	25
MA 16 - 076			76	166	7.6	1262	9.1	1514	10.3	1703	11.4	1892	18.0	20
MA 16 - 089			89	139	8.9	1237	10.7	1485	12.0	1670	13.4	1856	20.5	20
MA 16 - 102			102	114	10.2	1163	12.2	1395	13.8	1570	15.3	1744	24.3	20
MA 16 - 115	115	105	11.5	1208	13.8	1449	15.5	1630	17.3	1811	27.0	10		
MA 16 - 127	127	94	12.7	1194	15.2	1433	17.1	1612	19.1	1791	31.5	10		
MA 16 - 152	152	78	15.2	1186	18.2	1423	20.5	1601	22.8	1778	38.0	10		
MA 16 - 305	3.5 x 4.75	305	38.8	30.5	1183	36.6	1420	41.2	1598	45.8	1775	77.2	10	
new MA 20 - 044	20	10	44	452	4.4	1989	5.3	2387	5.9	2685	6.6	2983	8.9	25
MA 20 - 051			51	378	5.1	1928	6.1	2313	6.9	2603	7.7	2892	10.6	25
MA 20 - 064			64	301	6.4	1926	7.7	2312	8.6	2601	9.6	2890	13.8	25
MA 20 - 076			76	247	7.6	1877	9.1	2253	10.3	2534	11.4	2816	16.2	25
MA 20 - 089			89	208	8.9	1851	10.7	2221	12.0	2499	13.4	2777	20.1	20
MA 20 - 102			102	188	10.2	1918	12.2	2301	13.8	2589	15.3	2876	22.3	20
MA 20 - 115			115	159	11.5	1829	13.8	2194	15.5	2468	17.3	2743	25.5	10
MA 20 - 127			127	146	12.7	1854	15.2	2225	17.1	2503	19.1	2781	27.9	10
MA 20 - 152	152	120	15.2	1824	18.2	2189	20.5	2462	22.8	2736	34.1	10		
MA 20 - 305	4.0 x 6.0	305	60	30.5	1830	36.6	2196	41.2	2471	45.8	2745	68.8	10	






Code	D _H	D _d	L ₀	R		A		B		C		D		E	
	Hole Diameter	Rod Diameter													
	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	N	Pcs
MA 25 - 044	25	12.5	44	1158	4.4	5095	5.3	6114	5.9	6879	6.6	7643	9.8	25	
MA 25 - 051			51	933	5.1	4758	6.1	5710	6.9	6424	7.7	7137	11.0	25	
MA 25 - 064			64	644	6.4	4122	7.7	4959	8.6	5564	9.6	6182	13	25	
MA 25 - 076			76	556	7.6	4226	9.1	5060	10.3	5705	11.4	6338	16	20	
MA 25 - 089			89	462	8.9	4112	10.7	4943	12.0	5551	13.4	6168	20	20	
MA 25 - 102			102	390	10.2	3978	12.2	4758	13.8	5370	15.3	5967	23	20	
MA 25 - 115			115	360	11.5	4140	13.8	4968	15.5	5589	17.3	6210	26	10	
MA 25 - 127			127	326	12.7	4140	15.2	4955	17.1	5589	19.1	6210	28	10	
MA 25 - 152			152	255	15.2	3876	18.2	4641	20.5	5233	22.8	5814	34	10	
MA 25 - 178			178	230	17.8	4094	21.4	4922	24.0	5527	26.7	6141	39	10	
MA 25 - 203			203	202	20.3	4101	24.4	4929	27.4	5536	30.5	6151	45	10	
MA 25 - 305			5.6 x 7.5	305	136	30.5	4148	36.6	4978	41.2	5600	45.8	6222	63	5
MA 32 - 044	32	16	44	1300	4.4	5720	5.3	6890	5.9	7670	6.6	8643	9.3	20	
MA 32 - 051			51	1150	5.1	5865	6.1	7015	6.9	7935	7.7	8855	10.4	20	
MA 32 - 064			64	1077	6.4	6892	7.7	8270	8.6	9305	9.6	10337	13	20	
MA 32 - 076			76	874	7.6	6642	9.1	7971	10.3	8967	11.4	9964	16	20	
MA 32 - 089			89	721	8.9	6419	10.7	7702	12.0	8663	13.4	9628	20	10	
MA 32 - 102			102	620	10.2	6324	12.2	7589	13.8	8537	15.3	9486	23	10	
MA 32 - 115			115	560	11.5	6440	13.8	7728	15.5	8694	17.3	9660	26	10	
MA 32 - 127			127	496	12.7	6299	15.2	7559	17.1	8504	19.1	9449	28	10	
MA 32 - 152			152	408	15.2	6202	18.2	7442	20.5	8372	22.8	9302	34	10	
MA 32 - 178			178	353	17.8	6280	21.4	7536	24.0	8483	26.7	9420	39	5	
MA 32 - 203			203	304	20.3	6171	24.4	7405	27.4	8331	30.5	9257	45	5	
MA 32 - 254			254	243	25.4	6177	30.5	7413	34.3	8332	38.1	9266	62	5	
MA 32 - 305	7.5 x 9.2	305	196	30.5	5978	36.6	7174	41.2	8070	45.8	8967	75	5		
MA 40 - 064	40	20	64	1128	6.4	7219	7.7	8663	8.6	9746	9.6	10829	12	10	
MA 40 - 076			76	1017	7.6	7729	9.1	9275	10.3	10434	11.4	11594	14.5	10	
MA 40 - 089			89	880	8.9	7832	10.7	9416	12.0	10573	13.4	11748	20	10	
MA 40 - 102			102	762	10.2	7772	12.2	9296	13.8	10493	15.3	11659	23	10	
MA 40 - 115			115	679	11.5	7809	13.8	9370	15.5	10541	17.3	11713	26	10	
MA 40 - 127			127	622	12.7	7899	15.2	9454	17.1	10664	19.1	11849	28	5	
MA 40 - 152			152	509	15.2	7737	18.2	9264	20.5	10445	22.8	11605	36	5	
MA 40 - 178			178	429	17.8	7636	21.4	9181	24.0	10309	26.7	11454	43	5	
MA 40 - 203			203	374	20.3	7592	24.4	9126	27.4	10249	30.5	11388	49	5	
MA 40 - 254			254	296	25.4	7518	30.5	9028	34.3	10150	38.1	11278	62	2	
MA 40 - 305			8.5 x 11.0	305	246	30.5	7530	36.6	9004	41.2	10129	45.8	11255	75	2
MA 50 - 064			50	25	64	1980	6.4	12672	7.7	15206	8.6	17107	9.6	19008	13.4
MA 50 - 076	76	1811			7.6	13764	9.1	16516	10.3	18581	11.4	20645	16.3	5	
MA 50 - 089	89	1410			8.9	12549	10.7	15087	12.0	16941	13.4	18824	19	5	
MA 50 - 102	102	1215			10.2	12393	12.2	14823	13.8	16731	15.3	18590	22	5	
MA 50 - 115	115	1076			11.5	12374	13.8	14849	15.5	16705	17.3	18561	25	5	
MA 50 - 127	127	968			12.7	12294	15.2	14714	17.1	16596	19.1	18440	28	5	
MA 50 - 152	152	806			15.2	12251	18.2	14669	20.5	16539	22.8	18377	34	2	
MA 50 - 178	178	698			17.8	12424	21.4	14937	24.0	16773	26.7	18637	40	2	
MA 50 - 203	203	612			20.3	12424	24.4	14933	27.4	16772	30.5	18635	45	2	
MA 50 - 254	254	472			25.4	11989	30.5	14396	34.3	16185	38.1	17983	58	2	
MA 50 - 305	11.8 x 13.5	305			388	30.5	11834	36.6	14201	41.2	15976	45.8	17751	70	2
MA 63 - 076	63	38			76	1900	7.6	14440	9.1	17328	10.3	19494	11.4	21660	13
MA 63 - 089			89	1517	8.9	13501	10.7	16202	12.0	18227	13.4	20252	20	5	
MA 63 - 102			102	1295	10.2	13209	12.2	15851	13.8	17832	15.3	19814	23	5	
MA 63 - 115			115	1070	11.5	12305	13.8	14766	15.5	16612	17.3	18458	27	5	
MA 63 - 127			127	979	12.7	12433	15.2	14920	17.1	16785	19.1	18650	30	2	
MA 63 - 152			152	775	15.2	11780	18.2	14136	20.5	15903	22.8	17670	35	2	
MA 63 - 178			178	630	17.8	11214	21.4	13457	24.0	15139	26.7	16821	44	2	
MA 63 - 203			203	546	20.3	11084	24.4	13301	27.4	14963	30.5	16626	48	2	
MA 63 - 254			254	423	25.4	10744	30.5	12893	34.3	14505	38.1	16116	62	2	
MA 63 - 305			11.8 x 17.8	305	349	30.5	10645	36.6	12773	41.2	14370	45.8	15967	77	2

new

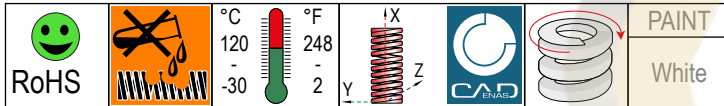
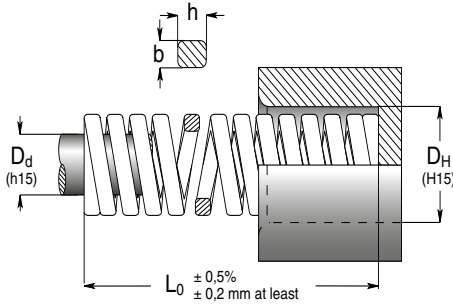


MAT ACCIAIO PER MOLLE / SPRINGS STEEL

Code per n. pezzi
MT / DH / L

 RoHS		°C 120 -30	°F 248 -2				PAINT Titanium
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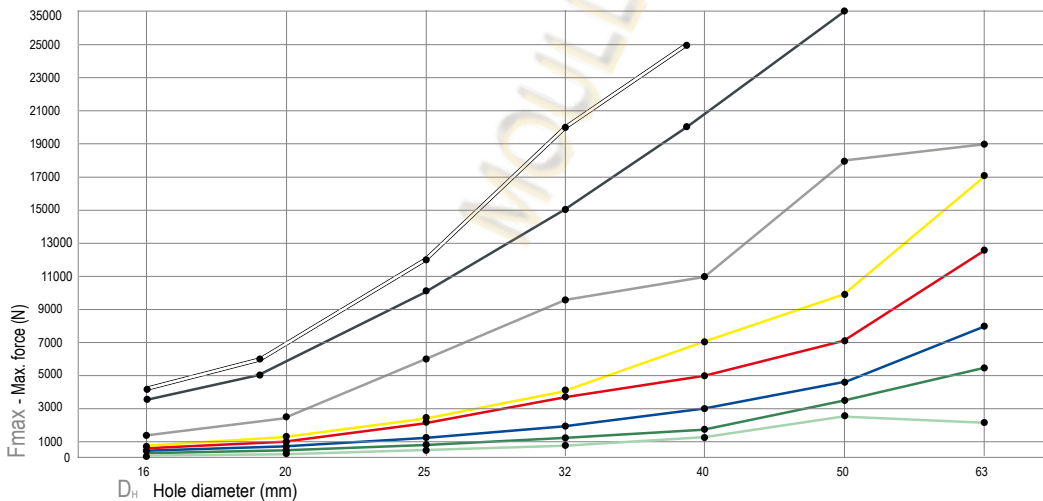
Code	D _H Hole Diameter b x h mm	D _d Rod Diameter mm	L ₀ Free Length mm	R Spring Constant ± 10% N/mm	F max mm N	Pcs	
MT 10 - 020	10	5	20	580	2.2	25	
MT 10 - 030			30	360	3.5	25	
MT 10 - 040			40	260	4.8	1.250	12
MT 10 - 050			50	200	6.0	12	
MT 13 - 020	12.5	6.3	20	970	2.4	25	
MT 13 - 030			30	590	3.3	2.000	25
MT 13 - 040			40	400	5.0	12	
MT 13 - 050			50	320	6.0	12	
MT 16 - 020	16	8	20	1650	2.1	16	
MT 16 - 035			35	920	3.8	16	
MT 16 - 050			50	580	6.0	3.500	12
MT 16 - 075			75	410	8.5	8	
MT 16 - 100			100	280	12.5	8	
MT 19 - 025	19	10	25	2270	2.2	16	
MT 19 - 040			40	1160	4.3	16	
MT 19 - 050			50	830	6.0	5.000	12
MT 19 - 075			75	500	10.0	8	
MT 19 - 100			100	380	14.0	8	
MT 25 - 030	25	12.5	30	4550	2.2	10	
MT 25 - 050			50	2000	5.0	10	
MT 25 - 060			60	1500	6.5	10.000	4
MT 25 - 075			75	1250	8.0	4	
MT 25 - 100			100	900	11.1	4	
MT 25 - 125			125	710	14.0	4	
MT 32 - 035	32	16	35	5360	2.8	8	
MT 32 - 050			50	3000	5.0	8	
MT 32 - 075			75	1670	9.0	15.000	4
MT 32 - 100			100	1200	12.5	4	
MT 32 - 125			125	940	16.0	2	
MT 32 - 150			150	810	18.5	2	
MT 38 - 040	38	20	40	5710	3.5	4	
MT 38 - 050			50	4000	5.0	4	
MT 38 - 075			75	2220	9.0	20.000	4
MT 38 - 100			100	1540	13.0	2	
MT 38 - 150			150	1050	19.0	2	
MT 38 - 200			200	740	27.0	2	
MT 50 - 060	50	25	60	4605	7.6	4	
MT 50 - 075			75	3932	8.9	4	
MT 50 - 100			100	2650	13.2	35.000	2
MT 50 - 125			125	2000	17.5	2	
MT 50 - 150			150	1605	21.8	2	
MT 50 - 200			200	1167	30.0	2	



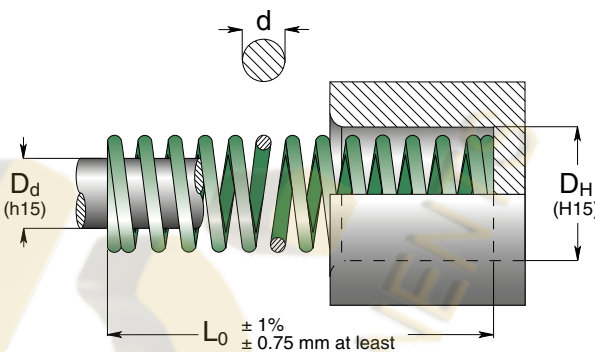
MAT ACCIAIO PER MOLLE / SPRINGS STEEL

Code per n. pezzi
MW / Dh / L

Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	F max	Pcs	
	b x h			± 10%			
	mm	mm	mm	N/mm	mm N		
MW 16 - 020	16	6.3	20	1.818	2.2	16	
MW 16 - 035			35	1.000	4.0	16	
MW 16 - 050			50	615	6.5	4.000	12
MW 16 - 075			75	400	10.0		8
MW 16 - 100			100	286	14.0		8
	4.6 x 5.0						
MW 19 - 025	19	8	25	2.400	2.5	16	
MW 19 - 040			40	1.333	4.5	6.000	16
MW 19 - 050			50	1.000	6.0		12
MW 19 - 075			75	600	10.0		8
MW 19 - 100			100	429	14.0		8
	5.1 x 6.5						
MW 25 - 030	25	10	30	4.800	2.5	10	
MW 25 - 050			50	2.400	5.0	12.000	10
MW 25 - 075			75	1.500	8.0		4
MW 25 - 100			100	1.000	12.0		4
MW 25 - 125			125	857	14.0		4
	6.9 x 9.1						
MW 32 - 035	32	12.5	35	6.667	3.0	8	
MW 32 - 050			50	3.636	5.5	20.000	8
MW 32 - 075			75	2.222	9.0		4
MW 32 - 100			100	1.538	13.0		4
MW 32 - 125			125	1.250	16.0		2
MW 32 - 150	150	1.053	19.0		2		
	9.25 x 10.8						
MW 38 - 040	38	16	40	7.143	3.5	4	
MW 38 - 050			50	5.000	5.0	25.000	4
MW 38 - 075			75	2.778	9.0		4
MW 38 - 100			100	1.923	13.0		2
MW 38 - 150			150	1.316	19.0		2
MW 38 - 200	200	926	27.0		2		
	10.5 x 12.6						



SERIES	STD.	LOAD
W	Sp. Sp.	Hyper-strong
T	Sp. Sp.	Super-Strong
A	Sp. Sp.	Ultra-Strong
G	ISO	Extra-Strong
R	ISO	Strong
B	ISO	Medium
V	ISO	Light
VL	Sp. Sp.	Extra-light



MAT ACCIAIO PER MOLLE / SPRINGS STEEL

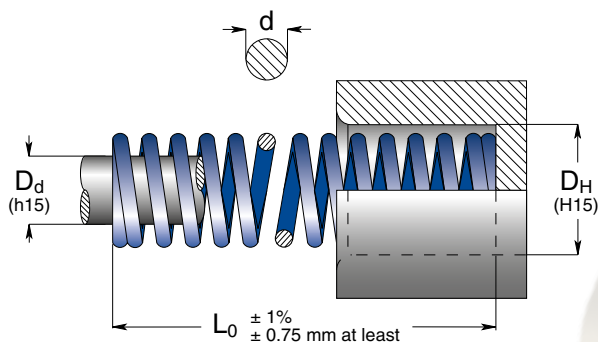
Code per n. pezzi
MTV / DH / L

RoHS		°C 120 -30	°F 248 -2				PAINT Green
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Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A 25% L ₀		B 30% L ₀		C 35% L ₀		D 40% L ₀		E approx. do not use	Pcs
					mm	N	mm	N	mm	N	mm	N		
MTV 10 - 025	10	5	25	4.4	6.3	28	7.5	33	8.8	39	10.0	44	13.2	50
MTV 10 - 032			32	3.4	8.0	27	9.6	33	11.2	38	12.8	44	16.5	50
MTV 10 - 038			38	2.8	9.5	26	11.4	32	13.3	37	15.2	42	19.8	50
MTV 10 - 044			44	2.4	11.0	26	13.2	31	15.4	37	17.6	42	23.1	50
MTV 10 - 051			51	2.1	12.8	27	15.3	32	17.9	37	20.4	43	26.9	25
MTV 10 - 064			64	1.6	16.0	26	19.2	31	22.4	36	25.6	42	33.3	25
MTV 10 - 076			76	1.3	19.0	25	22.8	30	26.6	35	30.4	40	39.6	25
MTV 10 - 305			305	0.3	76.3	24	91.5	29	107	32	122	38	157	10
MTV 13 - 025	12.5	6.3	25	8.5	6.3	53	7.5	64	8.8	74	10.0	85	13.5	50
MTV 13 - 032			32	6.5	8.0	52	9.6	62	11.2	73	12.8	83	16.8	50
MTV 13 - 038			38	5.3	9.5	51	11.4	61	13.3	70	15.2	81	20.3	50
MTV 13 - 044			44	4.4	11.0	49	13.2	59	15.4	68	17.6	78	23.9	25
MTV 13 - 051			51	3.8	12.8	48	15.3	58	17.9	68	20.4	78	26.9	25
MTV 13 - 064			64	2.9	16.0	47	19.2	56	22.4	65	25.6	75	33.3	25
MTV 13 - 076			76	2.5	19.0	48	22.8	57	26.6	67	30.4	76	41.1	25
MTV 13 - 089			89	2.1	22.3	48	26.7	57	31.2	65	35.6	76	48.3	20
MTV 13 - 305	305	0.6	76.3	45	91.5	54	107	64	122	73	163	10		
MTV 16 - 025	16	8	25	17.9	6.3	112	7.5	134	8.8	157	10.0	179	14.7	50
MTV 16 - 032			32	13.5	8.0	108	9.6	129	11.2	151	12.8	173	18.5	50
MTV 16 - 038			38	10.5	9.5	100	11.4	120	13.3	140	15.2	160	22.4	25
MTV 16 - 044			44	8.8	11.0	96	13.2	116	15.4	136	17.6	154	25.9	25
MTV 16 - 051			51	7.6	12.8	97	15.3	116	17.9	136	20.4	155	30.0	25
MTV 16 - 064			64	5.9	16.0	95	19.2	114	22.4	132	25.6	152	37.8	25
MTV 16 - 076			76	4.8	19.0	91	22.8	109	26.6	128	30.4	145	45.2	20
MTV 16 - 089			89	4.0	22.3	90	26.7	108	31.2	125	35.6	144	52.8	20
MTV 16 - 102	102	3.5	25.5	90	30.6	108	35.7	125	40.8	144	60.7	20		
MTV 16 - 305	305	1.1	76.3	85	91.5	103	107	117	122	137	184	10		

MOULDS & DIE

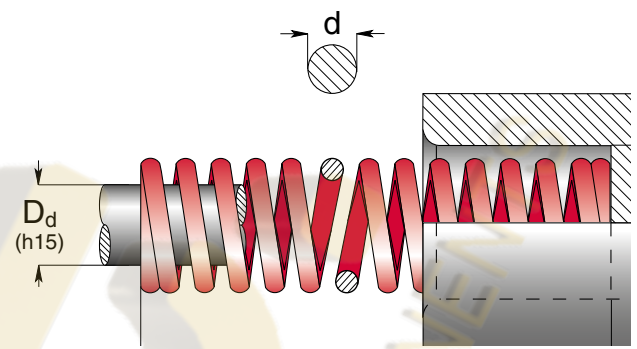
FILO TONDO - ROUND WIRE



MAT ACCIAIO PER MOLLE / SPRINGS STEEL

Code per n. pezzi
MTB / DH / L

Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A 25% L ₀		B 30% L ₀		C 33.75% L ₀		D 37.5% L ₀		E do not use approx.	Pcs
					mm	N	mm	N	mm	N	mm	N		
MTB 10 - 025	10	5	25	12.3	6.3	77	7.5	92	8.4	104	9.4	115	10.4	50
MTB 10 - 032			32	9.5	8.0	76	9.6	91	10.8	103	12.0	113	13.2	50
MTB 10 - 038			38	7.8	9.5	74	11.4	88	12.8	100	14.3	111	16.0	50
MTB 10 - 044			44	6.5	11.0	72	13.2	86	14.9	97	16.5	108	18.5	50
MTB 10 - 051			51	5.6	12.8	72	15.3	86	17.2	96	19.1	108	21.1	25
MTB 10 - 064			64	4.5	16.0	71	19.2	86	21.6	97	24.0	107	26.4	25
MTB 10 - 076			76	3.7	19.0	70	22.8	84	25.7	95	28.5	105	31.8	25
MTB 10 - 305	1.5	305	0.9	76.3	68	91.5	82	103	93	114	102	129	10	
MTB 13 - 025	12.5	6.3	25	21.7	6.3	136	7.5	163	8.4	183	9.4	204	11.2	50
MTB 13 - 032			32	16.8	8.0	134	9.6	161	10.8	181	12.0	202	14.0	50
MTB 13 - 038			38	13.8	9.5	131	11.4	158	12.8	177	14.3	197	17.3	50
MTB 13 - 044			44	11.6	11.0	127	13.2	153	14.9	172	16.5	191	19.8	25
MTB 13 - 051			51	10.0	12.8	127	15.3	153	17.2	172	19.1	191	22.9	25
MTB 13 - 064			64	7.8	16.0	125	19.2	150	21.6	168	24.0	187	28.4	25
MTB 13 - 076			76	6.4	19.0	122	22.8	146	25.7	164	28.5	183	34.3	25
MTB 13 - 089	89	5.6	22.3	125	26.7	150	30.0	168	33.4	188	41.4	20		
MTB 13 - 305	1.8	305	1.5	76.3	118	91.5	141	103	154	114	176	139	10	
MTB 16 - 025	16	8	25	31.9	6.3	199	7.5	239	8.4	269	9.4	299	10.9	50
MTB 16 - 032			32	24.0	8.0	192	9.6	230	10.8	259	12.0	288	13.7	50
MTB 16 - 038			38	19.4	9.5	185	11.4	222	12.8	249	14.3	277	16.5	25
MTB 16 - 044			44	16.1	11.0	177	13.2	213	14.9	239	16.5	266	19.3	25
MTB 16 - 051			51	13.8	12.8	176	15.3	212	17.2	238	19.1	265	22.1	25
MTB 16 - 064			64	10.7	16.0	171	19.2	205	21.6	231	24.0	256	27.4	25
MTB 16 - 076			76	8.8	19.0	166	22.8	200	25.7	226	28.5	250	33.0	20
MTB 16 - 089	89	7.5	22.3	167	26.7	200	30.0	225	33.4	250	38.6	20		
MTB 16 - 102	102	6.5	25.5	167	30.6	200	34.4	224	38.3	250	44.5	20		
MTB 16 - 305	2.2	305	2.1	76.3	159	91.5	191	103	216	114	238	134	10	



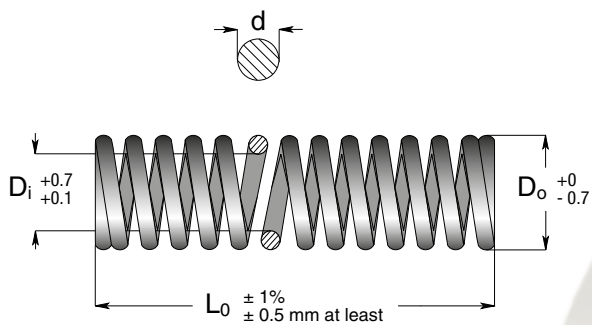
MAT ACCIAIO PER MOLLE / SPRINGS STEEL

Code per n. pezzi
MTR / Dh / L

Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A 20% L ₀		B 25% L ₀		C 27.5% L ₀		D 30% L ₀		E approx.	Pcs
					mm	N	mm	N	mm	N	mm	N		
	d			± 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	
MTR 10 - 025	10	5	25	20.7	5.0	103	6.3	129	6.9	142	7.5	155	8.6	50
MTR 10 - 032			32	16.1	6.4	103	8.0	129	8.8	142	9.6	155	10.9	50
MTR 10 - 038			38	13.0	7.6	98	9.5	123	10.5	136	11.4	148	13.2	50
MTR 10 - 044			44	10.9	8.8	96	11.0	119	12.1	132	13.2	143	14.7	50
MTR 10 - 051			51	9.6	10.2	98	12.8	123	14.0	135	15.3	147	17.8	25
MTR 10 - 064			64	7.7	12.8	98	16.0	123	17.6	136	19.2	147	22.9	25
MTR 10 - 076			76	6.3	15.2	96	19.0	119	20.9	132	22.8	143	26.9	25
MTR 10 - 305	1.6		305	1.5	61.0	93	76.3	116	83.9	126	91.5	139	110	10
MTR 13 - 025	12.5	6.3	25	37.5	5.0	187	6.3	234	6.9	258	7.5	281	8.9	50
MTR 13 - 032			32	28.9	6.4	185	8.0	231	8.8	254	9.6	277	11.2	50
MTR 13 - 038			38	23.5	7.6	178	9.5	223	10.5	246	11.4	268	13.7	50
MTR 13 - 044			44	19.6	8.8	173	11.0	216	12.1	237	13.2	259	15.7	25
MTR 13 - 051			51	17.3	10.2	177	12.8	221	14.0	243	15.3	265	18.8	25
MTR 13 - 064			64	13.5	12.8	173	16.0	216	17.6	238	19.2	259	23.6	25
MTR 13 - 076			76	11.2	15.2	170	19.0	213	20.9	234	22.8	256	28.4	25
MTR 13 - 089	89	9.5	17.8	168	22.3	210	24.5	233	26.7	252	33.0	20		
MTR 13 - 305	2.2		305	2.7	61.0	162	76.3	203	83.9	226	91.5	244	114	10
MTR 16 - 025	16	8	25	81.6	5.0	408	6.3	510	6.9	561	7.5	612	9.1	50
MTR 16 - 032			32	61.3	6.4	392	8.0	490	8.8	539	9.6	588	11.4	50
MTR 16 - 038			38	49.9	7.6	379	9.5	474	10.5	521	11.4	569	14.2	25
MTR 16 - 044			44	40.8	8.8	359	11.0	449	12.1	494	13.2	539	16.3	25
MTR 16 - 051			51	35.6	10.2	363	12.8	453	14.0	499	15.3	544	18.8	25
MTR 16 - 064			64	27.8	12.8	356	16.0	446	17.6	489	19.2	535	23.9	25
MTR 16 - 076			76	22.8	15.2	346	19.0	433	20.9	477	22.8	519	29.0	20
MTR 16 - 089	89	19.6	17.8	349	22.3	436	24.5	480	26.7	524	34.3	20		
MTR 16 - 102	102	17.0	20.4	347	25.5	433	28.1	477	30.6	520	39.4	20		
MTR 16 - 305	2.8		305	5.4	61.0	330	76.3	413	83.9	453	91.5	495	119	10

MOULDS & DIE

FILO TONDO - ROUND WIRE



MAT ACCIAIO PER MOLLE / SPRINGS STEEL

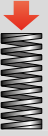
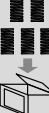
Unpainted oiled

Code per n. pezzi
ML / DH / L

Code	Do Outside Diameter	Di Inside Diameter	L0 Free Length	R Spring Constant	A 16% L0		B 24% L0		C 28% L0		D 32% L0		Pcs
					mm	N	mm	N	mm	N	mm	N	
ML 3 - 010	3	2	10	2.94	1.6	4.4	2.4	6.62	2.8	6.9	3.2	8.8	50
ML 3 - 015			15	1.96	2.4		3.6		4.2		4.8		
ML 3 - 020			20	0.98	3.2		4.8		5.6		6.4		
ML 3 - 025			25	0.98	4		6		7.0		8		
ML 4 - 010	4	2.6	10	4.9	1.6	7.8	2.4	11.6	2.8	14.5	3.2	15.7	50
ML 4 - 015			15	2.94	2.4		3.6		4.2		4.8		
ML 4 - 020			20	2.94	3.2		4.8		5.6		6.4		
ML 4 - 025			25	1.96	4		6		7.0		8		
ML 4 - 030			30	1.96	4.8		7.2		8.4		9.6		
ML 6 - 015	6	4	15	7.85	2.4	17.7	3.6	26.5	4.2	32.4	4.8	35.5	50
ML 6 - 020			20	5.88	3.2		4.8		5.6		6.4		
ML 6 - 025			25	4.9	4		6		7.0		8		
ML 6 - 030			30	3.92	4.8		7.2		8.4		9.6		
ML 6 - 035			35	2.94	5.6		8.4		9.8		11.2		
ML 8 - 015	8	5.4	15	12.75	2.4	31.4	3.6	47.1	4.2	55.6	4.8	62.8	50
ML 8 - 020			20	9.81	3.2		4.8		5.6		6.4		
ML 8 - 025			25	7.85	4		6		7.0		8		
ML 8 - 030			30	6.86	4.8		7.2		8.4		9.6		
ML 8 - 035			35	5.88	5.6		8.4		9.8		11.2		
ML 8 - 040			40	4.9	6.4		9.6		11.2		12.8		
ML 10 - 025	10	6.5	25	12.75	4	49	6	73.6	7.0	85.8	8	98	50
ML 10 - 030			30	9.81	4.8		7.2		8.4		9.6		
ML 10 - 035			35	8.83	5.6		8.4		9.8		11.2		
ML 10 - 040			40	7.85	6.4		9.6		11.2		12.8		
ML 10 - 045			45	6.86	7.2		10.8		12.6		14.4		
ML 10 - 050			50	5.88	8		12		14.0		16		
ML 12 - 025	12	8	25	17.65	4	70.6	6	106.9	7.0	124.1	8	141.2	50
ML 12 - 030			30	14.71	4.8		7.2		8.4		9.6		
ML 12 - 035			35	12.75	5.6		8.4		9.8		11.2		
ML 12 - 040			40	10.79	6.4		9.6		11.2		12.8		
ML 12 - 045			45	9.81	7.2		10.8		12.6		14.4		
ML 12 - 050			50	8.83	8		12		14.0		16		
ML 12 - 055			55	7.85	8.8		13.2		15.4		17.6		
ML 12 - 060			60	7.85	9.6		14.4		16.8		19.2		



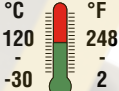

Code	D _o Outside Diameter	D _i Inside Diameter	L ₀ Free Length	R Spring Constant	A		B		C		D		Pcs
					16% L ₀		24% L ₀		28% L ₀		32% L ₀		
					d	± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	mm	N	
mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N		
ML 14 - 025	14	9.3	25	24.52	4	96.1	144.2	167.7	192.2	50	50		
ML 14 - 030			30	19.61	4.8					6	7.0	8	
ML 14 - 035			35	17.65	5.6					7.2	8.4	9.4	
ML 14 - 040			40	14.71	6.4					8.4	9.8	11.2	
ML 14 - 045			45	13.73	7.2					9.6	11.2	12.8	
ML 14 - 050			50	11.77	8					10.8	12.6	14.4	
ML 14 - 055			55	10.79	8.8					12	14.0	16	
ML 14 - 060			60	9.81	9.6					13.2	15.4	17.6	
ML 14 - 065			65	8.83	10.4					14.4	16.8	19.2	
ML 14 - 070			70	8.83	11.2					15.6	18.2	20.8	
	2.2												
ML 16 - 025	16	10.7	25	31.38	4	125.5	188.3	219.8	251.1	50	50		
ML 16 - 030			30	26.48	4.8					6	7.0	8	
ML 16 - 035			35	22.56	5.6					7.2	8.4	9.4	
ML 16 - 040			40	19.61	6.4					8.4	9.8	11.2	
ML 16 - 045			45	17.65	7.2					9.6	11.2	12.8	
ML 16 - 050			50	15.69	8					10.8	12.6	14.4	
ML 16 - 055			55	14.71	8.8					12	14.0	16	
ML 16 - 060			60	12.75	9.6					13.2	15.4	17.6	
ML 16 - 065			65	11.77	10.4					14.4	16.8	19.2	
ML 16 - 070			70	10.79	11.2					15.6	18.2	20.8	
ML 16 - 075	75	10.79	12	16.8	19.6	22.4							
ML 16 - 080	80	9.81	12.8	18	21.0	24							
	2.4												
ML 18 - 025	18	12	25	40.21	4	158.9	238.3	280.4	317.7	50	50		
ML 18 - 030			30	33.34	4.8					6	7.0	8	
ML 18 - 035			35	28.44	5.6					7.2	8.4	9.4	
ML 18 - 040			40	24.52	6.4					8.4	9.8	11.2	
ML 18 - 045			45	22.56	7.2					9.6	11.2	12.8	
ML 18 - 050			50	19.61	8					10.8	12.6	14.4	
ML 18 - 055			55	17.65	8.8					12	14.0	16	
ML 18 - 060			60	16.67	9.6					13.2	15.4	17.6	
ML 18 - 065			65	15.69	10.4					14.4	16.8	19.2	
ML 18 - 070			70	14.71	11.2					15.6	18.2	20.8	
ML 18 - 075	75	13.73	12	16.8	19.6	22.4							
ML 18 - 080	80	12.75	12.8	18	21.0	24							
ML 18 - 090	90	10.79	14.4	19.2	22.4	25.6							
	2.8												
ML 20 - 025	20	13.5	25	49.03	4	196.1	294.2	346.3	392.3	50	50		
ML 20 - 030			30	41.19	4.8					6	7.0	8	
ML 20 - 035			35	35.3	5.6					7.2	8.4	9.4	
ML 20 - 040			40	30.4	6.4					8.4	9.8	11.2	
ML 20 - 045			45	27.46	7.2					9.6	11.2	12.8	
ML 20 - 050			50	24.52	8					10.8	12.6	14.4	
ML 20 - 055			55	22.56	8.8					12	14.0	16	
ML 20 - 060			60	20.59	9.6					13.2	15.4	17.6	
ML 20 - 065			65	18.63	10.4					14.4	16.8	19.2	
ML 20 - 070			70	17.65	11.2					15.6	18.2	20.8	
ML 20 - 075	75	16.67	12	16.8	19.6	22.4							
ML 20 - 080	80	15.69	12.8	18	21.0	24							
ML 20 - 090	90	13.73	14.4	19.2	22.4	25.6							
ML 20 - 100	100	12.75	16	21.6	25.2	28.8							
	3												
ML 22 - 025	22	14.7	25	59.82	4	237.3	356	415.9	474.6	50	50		
ML 22 - 030			30	49.03	4.8					6	7.0	8	
ML 22 - 035			35	42.17	5.6					7.2	8.4	9.4	
ML 22 - 040			40	37.27	6.4					8.4	9.8	11.2	
ML 22 - 045			45	33.34	7.2					9.6	11.2	12.8	
ML 22 - 050			50	29.42	8					10.8	12.6	14.4	
ML 22 - 055			55	27.46	8.8					12	14.0	16	
ML 22 - 060			60	24.52	9.6					13.2	15.4	17.6	
ML 22 - 065			65	22.56	10.4					14.4	16.8	19.2	
ML 22 - 070			70	21.57	11.2					15.6	18.2	20.8	
ML 22 - 075	75	19.61	12	16.8	19.6	22.4							
ML 22 - 080	80	18.63	12.8	18	21.0	24							
ML 22 - 090	90	16.67	14.4	19.2	22.4	25.6							
ML 22 - 100	100	14.71	16	21.6	25.2	28.8							
	3.4												

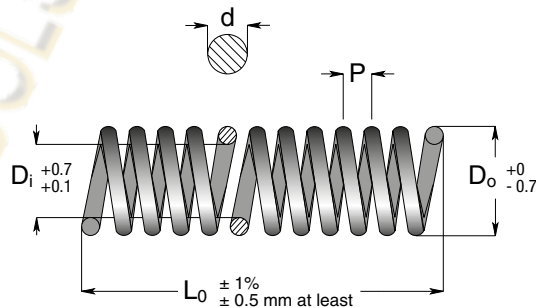
FILO TONDO - ROUND WIRE


Code	D _o Outside Diameter	D _i Inside Diameter	L ₀ Free Length	R Spring Constant		A		B		C		D		
						16% L ₀	N	24% L ₀	N	28% L ₀	N	32% L ₀	N	
	d			± 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	Pcs	
ML 25 - 025	25	17	25	76.49	4		6		7.0		8		50	
ML 25 - 030			30	63.74	4.8		7.2		8.4		9.6		25	
ML 25 - 035			35	54.92	5.6		8.4		9.8		11.2		25	
ML 25 - 040			40	48.05	6.4		9.6		11.2		12.8		25	
ML 25 - 045			45	42.17	7.2		10.8		12.6		14.4		25	
ML 25 - 050			50	38.25	8		12		14.0		16		25	
ML 25 - 055			55	35.3	8.8		13.2	307	15.4	537.9	17.6	613.9	20	
ML 25 - 060			60	32.36	9.6		14.4		16.8		19.2		20	
ML 25 - 065			65	29.42	10.4		15.6		18.2		20.8		20	
ML 25 - 070			70	27.46	11.2		16.8		19.6		22.4		20	
ML 25 - 075			75	25.5	12		18		21.0		24		20	
ML 25 - 080			80	23.54	12.8		19.2		22.4		25.6		20	
ML 25 - 090			90	21.57	14.4		21.6		25.2		28.8		20	
ML 25 - 100			3.8	100	19.61	16	24		28.0		32		20	
ML 30 - 050	30	20	50	51.94	8		12		14.0		16		20	
ML 30 - 060			60	44.1	9.6		14.4		16.8		19.2		20	
ML 30 - 070			70	37.24	11.2		16.8		19.6		22.4		20	
ML 30 - 080			80	32.34	12.8		19.2	414	22.4	724.1	25.6	828	10	
ML 30 - 090			90	28.42	14.4		21.6		25.2		28.8		10	
ML 30 - 100			100	25.48	16		24		28.0		32		10	
ML 30 - 125	4.5	125	20.58	20	30		35.0		40		10			

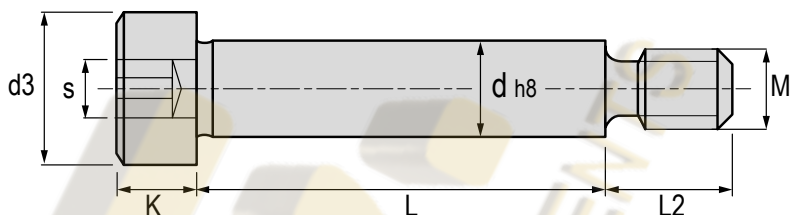
ML

SPEZZONI CON TERMINALI APERTI
LONG SIZE OPEN ENDS

RoHS     Un-painted oiled



Code	D _o Outside Diameter	D _i Inside Diameter	d Wire Diameter	L ₀ Free Length	P Pitch	
ML 03 - 300	3	2.0	0.4	300	1.04	10
ML 04 - 300	4	2.6	0.6	300	1.50	10
ML 06 - 300	6	4.0	0.9	300	2.00	10
ML 08 - 300	8	5.4	1.2	300	2.80	10
ML 10 - 300	10	6.5	1.5	300	3.50	10
ML 12 - 300	12	8.0	1.8	300	4.30	10
ML 14 - 300	14	9.3	2.2	300	4.80	10
ML 16 - 300	16	10.7	2.4	300	5.50	10
ML 18 - 300	18	12.0	2.8	300	5.30	10
ML 20 - 300	20	13.5	3.0	300	6.80	10
ML 22 - 300	22	14.7	3.4	300	6.70	10
ML 25 - 300	25	17.0	3.8	300	8.20	10

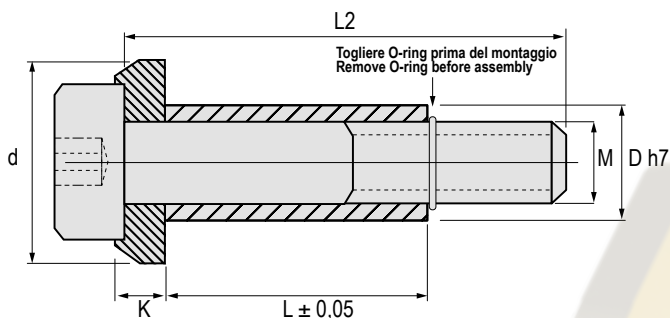


MATERIALE/MATERIAL: ISO 12.9
RESISTENZA TRAZIONE/TENSIL STRENGTH: 110/120 KG/mm²
DUREZZA/HARDNESS: HRC 39/44
ALLUNGAMENTO/STRETCH: 9% min



Code per n. pezzi
VR / M / d / L (VR M6 8x50)

M	M4	M5	M6	M8	M10	M12	M16	M20
d	5	6	8	10	12	16	20	24
d3	8	10	13	16	18	24	30	36
K	4	4,5	5,5	7	9	11	14	16
L2	8	9,5	11	13	16	18	22	27
S	2,5	3	4	5	6	8	10	12
L	disponibilità / available							
10	•	•	•	•	•			
12	•	•	•	•	•			
15	•	•	•	•	•			
16	•	•	•	•	•			
20	•	•	•	•	•			
25	•	•	•	•	•	•		
30	•	•	•	•	•	•	•	
35	•	•	•	•	•	•	•	
40	•	•	•	•	•	•	•	•
45	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•
55		•	•	•	•	•	•	•
60		•	•	•	•	•	•	•
65		•	•	•	•	•	•	•
70		•	•	•	•	•	•	•
80		•	•	•	•	•	•	•
90			•	•	•	•	•	•
100			•	•	•	•	•	•
110				•	•	•	•	•
120				•	•	•	•	•
140					•	•	•	•
160						•	•	•
180						•	•	•
200						•	•	•



Code per n. pezzi
KRT / M / D / L (KRT M8 12,5x80)

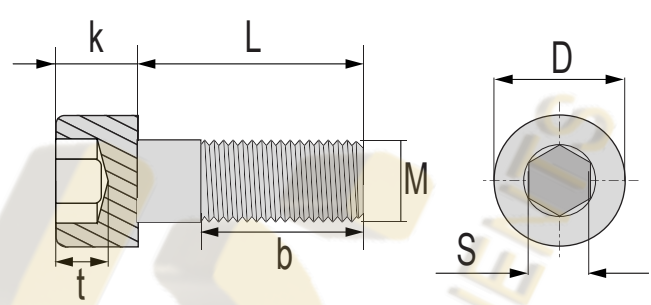
VITE/SCREW: UNI5931 DIN 912 ISO 12.9
DUREZZA DISTANZIALE/ SPACER HARDNESS: HRC 120/140 kg/mm²
RONDELLA/WASHER: 100kg/mm²

M	M6	M8	M10	M12	M16					
D	10	12,5	15	17,5	23					
K	6	6,5	7,5	9	11					
d	15	19	23	27	34					
L ± 0,05	L2	disp. avail.	L2	disp. avail.	L2	disp. avail.	L2	disp. avail.	L2	disp. avail.
15	30	•								
20	35	•	35	•	40	•				
25	40	•	40	•	45	•				
30	45	•	45	•	50	•	50	•		
35	50	•	50	•	55	•	60	•		
40	55	•	55	•	60	•	60	•	70	•
45	60	•	60	•	65	•	65	•	75	•
50	65	•	65	•	70	•	70	•	80	•
55	70	•	70	•	75	•	80	•	90	•
60	80	•	80	•	80	•	90	•	90	•
65	80	•	80	•	85	•	90	•	100	•
70	90	•	90	•	90	•	100	•	100	•
80	100	•	100	•	100	•	110	•	110	•
90	110	•	110	•	110	•	120	•	120	•
100	120	•	120	•	120	•	130	•	130	•
110	130	•	130	•	130	•	140	•	140	•
120			140	•	140	•	150	•	150	•
140			160	•	160	•	180	•	180	•
150					170	•	180	•	180	•
160					180	•	200	•	200	•
180					200	•	220	•	210	•
200					220	•	240	•	240	•
220							260	•	250	•
230									260	•

VB

VITE DI ACCIAIO A TESTA CILINDRICA CON ESAGONO INCASSATO
CYLINDRICAL HEAD STEEL SCREW WITH HEXAGON SOCKET

ISO 4762 - DIN 912 - UNI5931



MAT ISO 12.9

Code per n. pezzi
VB / M / L (VB M8 x 60)

(30) = quantità economica consigliata.
(30) = minimal suggested quantity

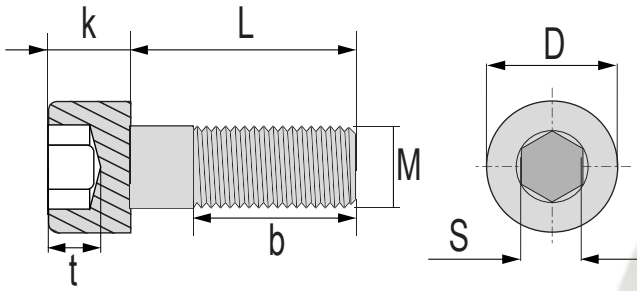
M	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
D	5,5	7	8,5	10	13	16	18	21	24	27	30	33	36
K	3	4	5	6	8	10	12	14	16	18	20	22	24
S	2,5	3	4	5	6	8	10	12	14	14	17	17	19
t	1,5	2,2	2,9	3,5	4,5	5,9	7	8,3	9,3	10,3	11,2	11,8	13,5
b	18	20	22	24	28	32	36	40	44	48	52	56	60
L	disponibile / available												
6	(50)	(50)	(50)										
8	(50)	(50)	(50)	(50)									
10	(50)	(50)	(50)	(50)	(50)								
12	(50)	(50)	(50)	(50)	(50)								
14	(50)	(50)	(50)	(50)	(50)								
16	(50)	(50)	(50)	(50)	(50)	(30)							
18	(50)	(50)	(50)	(50)	(50)	(30)							
20	(50)	(50)	(50)	(50)	(50)	(30)	(25)	(10)					
22	(50)	(50)	(50)	(50)	(50)	(30)							
25	(50)	(50)	(50)	(50)	(50)	(30)	(25)	(10)	(10)				
30	(50)	(50)	(50)	(50)	(50)	(30)	(25)	(10)	(10)	•	•		
35	(30)	(50)	(50)	(50)	(50)	(30)	(25)	(10)	(10)	•	•		
40	(20)	(50)	(50)	(50)	(50)	(30)	(25)	(10)	(10)	•	•		•
45	(20)	(30)	(50)	(50)	(50)	(30)	(25)	(10)	(10)	•	•	•	•
50	(20)	(30)	(50)	(50)	(50)	(30)	(25)	(10)	(10)	•	•	•	•
55		(30)	(25)	(25)	(50)	(30)	(25)	(10)	(10)	•	•	•	•
60	•	(30)	(25)	(25)	(50)	(30)	(25)	(10)	(10)	•	•	•	•
65		(20)	(25)	(25)	(25)	(30)	(20)	(10)	(10)	•	•	•	•
70		(20)	(20)	(25)	(25)	(30)	(20)	(10)	(10)	•	•	•	•
75			(20)	(20)	(25)	(30)	(20)	(10)	(10)	•	•	•	•
80		•	(20)	(20)	(25)	(30)	(20)	(10)	(10)	•	•	•	•
85			(20)	•	(25)	(10)	(20)		(10)				
90			(10)	(10)	(25)	(25)	(20)	(10)	(10)	•	•	•	•
100		•	(10)	(10)	(20)	(10)	(10)	(10)	(10)	•	•	•	•
110		•	•	•	•	(10)	(10)	•	•	•	•	•	•
120			•	•	•	(10)	(8)	•	•	•	•	•	•
130			•	•	•	(8)	(8)	•	•	•	•	•	•
140			•	•	•	(8)	(8)	•	•	•	•	•	•
150			•	•	•	(8)	(8)	•	•	•	•	•	•
160			•	•	•	(8)	(8)	•	•	•	•	•	•
180			•	•	•	•	•	•	•	•	•	•	•
200			•	•	•	•	•	•	•	•	•	•	•



VITE DI ACCIAIO A TESTA CILINDRICA CON ESAGONO INCASSATO
CYLINDRICAL HEAD STEEL SCREW WITH HEXAGON SOCKET

VB

ISO 4762 - DIN 912 - UNI5931



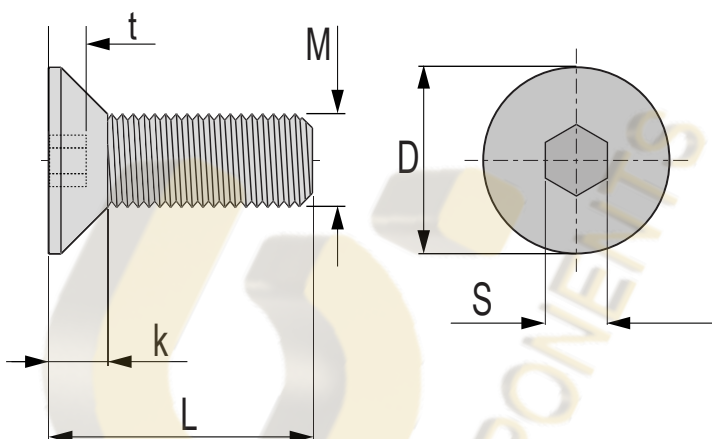
MAT ISO 12.9



Code per n. pezzi

VB / M / L (VB M16 x 160)

M	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48
D	13	16	18	21	24	27	30	33	36	40	45	50	54	58	63	72	78
K	8	10	12	14	16	18	20	22	24	27	30	33	36	39	42	45	48
S	6	8	10	12	14	14	17	17	19	19	22	24	27	27	32	36	36
t	4,5	5,9	7	8,3	9,3	10,3	11,2	11,8	13,5	13,5	13,5	18	19	21	24	26	28
b	28	32	36	40	44	48	52	56	60	66	72	78	84	90	96	100	108
L	disponibile / available																
50																	
55																	
60																	
65																	
70																	
80																	
90																	
100																	
110																	
120																	
130																	
140																	
150																	
160																	
170																	
180																	
190																	
200																	
210																	
220																	
230																	
240																	
250																	
260																	
280																	
300																	
320																	
330																	
340																	
360																	
380																	
400																	



MAT ISO 10.9

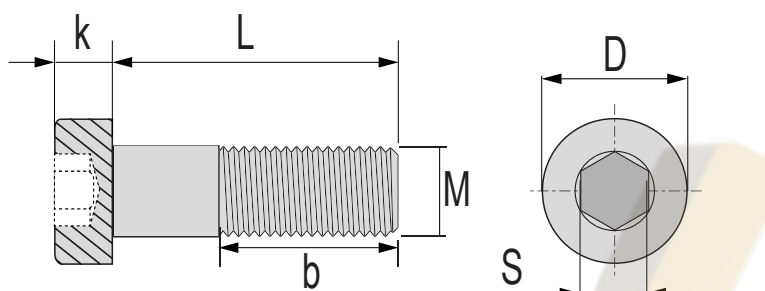


Code per n. pezzi
VS / M / L (VS M6 x 20)

(30) = quantità economica consigliata.
(30) = minimal suggested quantity

M	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24
D	6	8	10	12	16	20	24	27	30	33	36	39
K	1,7	2,3	2,8	3,3	4,4	5,5	6,5	7	7,5	8	8,5	14
S	2	2,5	3	4	5	6	8	10	10	12	12	14
t	1,2	2	2,4	2,8	3,8	4,8	5	5,3	5,8	6	6,5	10,3
L	disponibile / available											
6	(50)	(50)	(50)									
8	(50)	(50)	(50)	(50)								
10	(50)	(50)	(50)	(50)	(50)							
12	(50)	(50)	(50)	(50)	(50)	(20)						
14	(50)	(50)	(50)	(50)	(50)	(20)						
16	(50)	(50)	(50)	(50)	(50)	(30)						
18	(50)	(50)	(50)	(50)	(50)	(20)						
20	(50)	(50)	(50)	(50)	(50)	(30)	(20)					
22		(50)	(50)	(50)	(50)	(20)						
25	(50)	(50)	(50)	(50)	(50)	(30)	(20)	(10)				
30	(50)	(50)	(50)	(50)	(50)	(30)	(20)	(10)	(10)	(10)	(10)	
35		(50)	(50)	(50)	(50)	(30)	(20)	(10)	(10)			
40	(25)	(50)	(50)	(50)	(50)	(20)	(20)	(10)	(10)	(10)	(10)	
45		(50)	(50)	(50)	(50)	(20)	(20)	(10)	(10)	(10)	(10)	
50		(50)	(50)	(50)	(30)	(20)	(20)	(10)	(10)	(10)	(10)	•
55			(30)	(30)	•	(10)	(10)	(10)	(10)	(10)	(10)	•
60		(30)	(30)	(30)	(20)	(10)	(10)	(10)	(10)	(10)	(10)	•
70		(50)	(20)	(30)	(20)	(10)	•	•	•	•	•	•
75					(20)	(10)			•		•	•
80			(20)	(30)	(20)	(10)	•	•	•	•	•	•
90				(30)	(10)	•	•	•	•	•	•	•
100				(20)	(10)	•	•	•	•	•	•	•
110				(10)	•	•	•	•	•	•	•	•
120				(10)	•	•	•	•	•	•	•	•

DIN 7984



MAT ISO 8.8



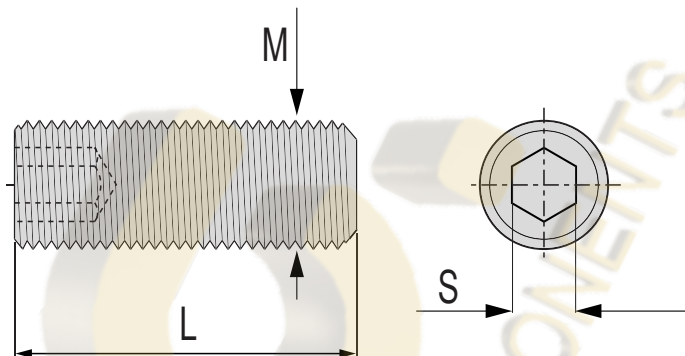
Code per n. pezzi

VBR / M / L (VBR M8 x 20)

(25) = quantità economica consigliata.

(25) = minimal suggested quantity

M	M3	M4	M5	M6	M8	M10	M12	M16
D	5,5	7	8,5	10	13	16	18	24
K	2	2,8	3,5	4	5	6	7	9
S	2	2,5	3	4	5	7	8	12
b	12	14	16	18	22	26	30	38
L	disponibile / available							
6	(50)	(50)	(50)					
8	(50)	(50)	(50)	(50)				
10	(50)	(50)	(50)	(50)	(50)			
12		(50)	(50)	(50)	(50)	(25)		
14		(50)	(50)	(50)	(50)			
16		(50)	(50)	(50)	(50)	(25)		
18				(50)	(50)	(25)		
20	(50)	(50)	(50)	(50)	(50)	(25)	(20)	(10)
22				(50)	(50)			
25		(50)	(50)	(50)	(50)	(25)	(20)	(10)
30		(50)	(50)	(50)	(50)	(25)	(20)	(10)
35		(50)	(50)	(50)	(50)	(25)	(20)	(10)
40		(50)	(50)	(50)	(50)	(25)	(20)	(10)
45					(50)	(25)	(20)	(10)
50				(50)	(50)	(25)	(20)	(10)
55				(20)	(20)			
60				(20)	(20)	(20)	(20)	(10)
70					(20)	(20)	(10)	(10)
80				(20)	(20)	(20)		(10)
90						(10)		(8)
100						(10)	(10)	(8)



MAT_45H / 14.9



Code per n. pezzi
VG913 / M / L (VG913 M6 x 20)

(20) = quantità economica consigliata.
(20) = minimal suggested quantity

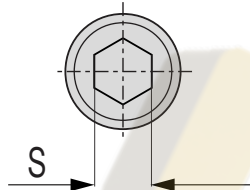
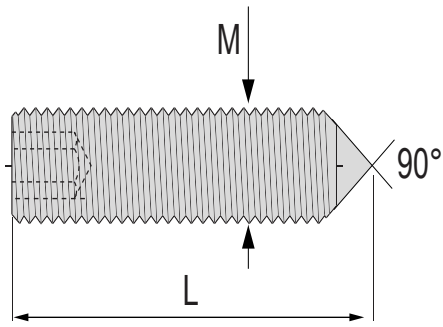
M	M2	M2,5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M30
S	0,9	1,3	1,5	2	2,5	3	4	5	6	6	8	10	10	12	12	14
L	disponibile / available															
2	(50)															
2,5		(50)	(50)													
3	(50)	(50)	(50)	(50)												
4	(50)	(50)	(50)	(50)	(50)	(50)										
5			(50)	(50)	(50)	(50)										
6	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(20)								
8		(50)	(50)	(50)	(50)	(50)	(50)	(20)								
10	(50)		(50)	(50)	(50)	(50)	(50)	(20)	(20)	(10)						
12			(50)	(50)	(50)	(50)	(50)	(20)	(20)	(10)						
14			(50)	(50)	(50)	(50)	(50)	(20)	(20)	(10)	(10)					
16			(50)	(50)	(50)	(50)	(50)	(20)	(20)	(10)	(10)					
20			(50)	(50)	(50)	(50)	(50)	(20)	(20)	(10)	(10)	(10)	(10)	•	•	
25			(50)	(50)	(50)	(50)	(50)	(20)	(20)	(10)	(10)	(10)	(10)	•	•	
30			(50)	(50)	(50)	(50)	(50)	(20)	(20)	(10)	(10)	(10)	(10)	•	•	
35				(20)	(20)	(20)	(50)	(20)	(20)	(10)	(10)	(10)	(10)	•	•	
40				(20)	(20)	(20)	(50)	(20)	(10)	(10)	(10)	(10)	(10)	•	•	•
45					•	•	(20)	(20)	•	(10)	(10)	(10)	(10)	•	•	
50				(20)	•	•	(20)	(20)	•	(10)	(10)	(10)	(10)	•	•	•
55						•		•	•	•	•	•	•		•	
60						•	•	•	•	•	•	•	•	•	•	•
65								•		•	•	•	•	•	•	
70					•	•	•	•	•	•	•	•	•	•	•	•
75										•				•	•	
80						•	•	•	•		•	•	•	•	•	•

GRANO SENZA TESTA CON CAVA ESAGONALE A PUNTA CONICA
 HEX-SOCKET SET SCREW WITH TAPERED TIP

VG914

T.P.B.
 COMPONENTS FOR MOULDS & DIE

ISO 4027 - DIN 914 - UNI5927



MAT_45H / 14.9

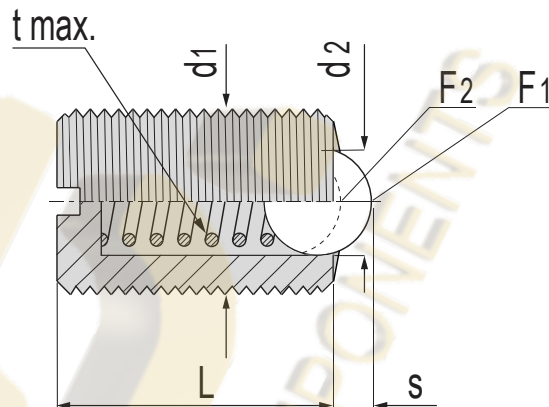


Code per n. pezzi

VG914 / M / L (VG914 M6 x 20)

(10) = quantità economica consigliata.
 (10) = minimal suggested quantity

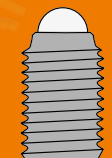
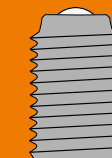
d	M2	M2,5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M30
S	0,9	1,3	1,5	2	2,5	3	4	5	6	6	8	10	10	12	12	14
L	disponibile / available															
2																
2,5																
3			(50)													
4			(50)	(50)												
5			(50)	(50)	(50)	(50)										
6			(50)	(50)	(50)	(50)	(50)									
8			(50)	(50)	(50)	(50)	(50)	(30)								
10			(50)	(50)	(50)	(50)	(50)	(30)	(20)							
12			(50)	(50)	(50)	(50)	(50)	(30)	(20)							
14			(50)	(50)	(50)	(50)	(50)	(30)	(20)	(10)						
16			(50)	(50)	(50)	(50)	(50)	(30)	(20)	(10)	(10)					
20			(50)	(50)	(50)	(50)	(50)	(30)	(20)	(10)	(10)	•	•			
25			(50)	(50)	(50)	(50)	(50)	(30)	(20)	(10)	•	•	•	•	•	
30			(50)	(50)	(25)	(50)	(50)	(30)	(20)	(10)	•	•	•	•	•	
35				(25)	(25)	(50)	(30)	(20)	(20)	•	•	•	•	•	•	
40				(25)	(25)	(30)	(30)	(20)	(20)	•	•	•	•	•	•	
45					(25)	(25)	(30)	(20)	(10)	•	•	•	•	•	•	
50					(25)	(25)	(30)	(20)	(10)	•	•	•	•	•	•	
55							•	•	•	•	•	•	•	•	•	
60						(25)	•	•	•	•	•	•	•	•	•	
65										•	•	•	•	•	•	
70							•	•	•	•	•	•	•	•	•	
75										•	•	•	•	•	•	
80							•	•	•	•	•	•	•	•	•	
90							•	•	•	•	•	•	•	•	•	

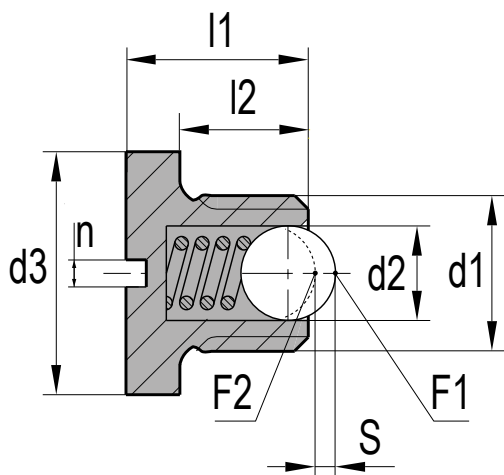


CORPO/BODY: ACCIAIO BRUNITO/OXIDIZED STEEL 5.8
SFERA/BALL: ACCIAIO INOX TEMPRATO/ HARDENED STAINED STEEL



Code per n. pezzi
VGS / d1 / L (VGS 6x14)

Codice / Code	d1	L	s	d2	↓ F0	↓ F1
						
		mm	mm	mm	N	N
VGS/04x09	M4	9	0,8	2,5	6	12
VGS/05x12	M5	12	0,9	3,0	7	13
VGS/06x14	M6	14	1,0	3,5	9	15
VGS/08x16	M8	16	1,5	5,0	20	35
VGS/10x19	M10	19	2,0	6,0	25	45
VGS/12x22	M12	22	2,5	8,0	35	60
VGS/16x24	M16	24	3,5	10,0	65	110



MAT_1.0718 MAX 250°

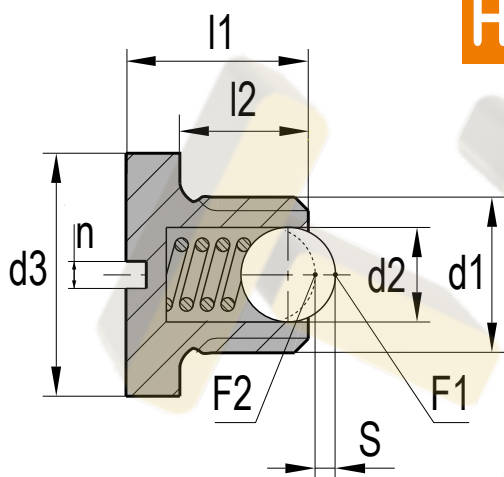


Code per n. pezzi
HZ36 / d1 / l1

Codice / Code	d1	d2	d3	l1	l2	n	s	F1	F2
	mm	mm	mm	mm	mm	mm	mm	N	N
HZ36/4x9	M4	2,5	6	9,5	6,5	0,6	0,8	8	14
HZ36/5x12	M5	3,0	8	12,5	8,5	0,8	0,9	8	14
HZ36/6x14	M6	3,5	10	14,0	9,0	1,0	1,0	11	18
HZ36/8x16	M8	4,5	13	16,5	11,0	1,2	1,5	18	31
HZ36/10x20	M10	6,0	16	20,0	14,0	1,5	2,0	24	45
HZ36/12x22	M12	8,0	18	22,0	15,0	2,0	2,5	26	49

HZ361

POSIZIONATORI CON SFERA E TESTA CON TAGLIO A CACCIAVITE
 SPRING PLUNGER, WITH SLOTTED HEAD

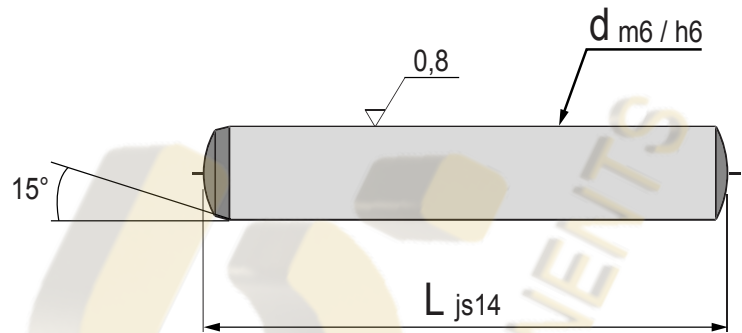


MAT_INOX 1.4305 MAX 250°



Code per n. pezzi
HZ361 / d1 / l1

Codice / Code	d1	d2	d3	l1	l2	n	s	F1	F2
	mm	mm	mm	mm	mm	mm	mm	N	N
HZ361/4x9	M4	2,5	6	9,5	6,5	0,6	0,8	8	14
HZ361/5x12	M5	3,0	8	12,5	8,5	0,8	0,9	8	14
HZ361/6x14	M6	3,5	10	14,0	9,0	1,0	1,0	11	18
HZ361/8x16	M8	4,5	13	16,5	11,0	1,2	1,5	18	31
HZ361/10x20	M10	6,0	16	20,0	14,0	1,5	2,0	24	45
HZ361/12x22	M12	8,0	18	22,0	15,0	2,0	2,5	26	49



MAT ACCIAIO/STEEL MIN. 600N/mm² - 60±2HRC



Code per n. pezzi

SPC / d / L (SPC 5 x 30 m6)*

***IN FASE D'ORDINE, SPECIFICARE TOLLERANZA m6 o h6**

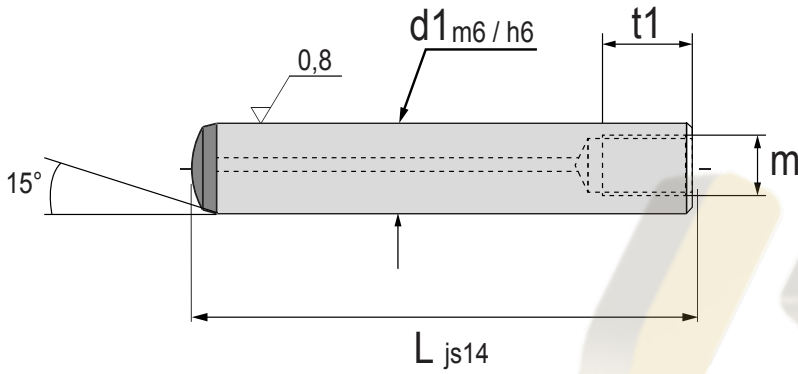
***WHEN ORDERING, SPECIFY TOLERANCE m6 or h6**

d m6 / h6	1*	1,5*	2	2,5*	3	4	5	6	8	10	12	14	16	18	20
L															
4	(100)	(100)	(100)												
5	(100)	(100)	(100)	(100)	(100)										
6	(100)	(100)	(100)	(100)	(100)	(100)									
8	(100)	(100)	(100)	(100)	(100)	(100)									
10	(100)	(100)	(50)	(100)	(50)	(50)	(50)	(50)							
12	(100)	(100)	(50)	(100)	(50)	(50)	(50)	(50)							
14		(100)	(50)	(100)	(50)	(50)	(50)	(50)							
16		(100)	(50)	(100)	(50)	(50)	(50)	(50)	(50)						
18		(100)	(50)	(100)	(50)	(50)	(50)	(50)	(50)	(25)					
20		(100)	(50)	(100)	(50)	(50)	(50)	(50)	(50)	(25)	(10)				
24		(100)	(50)	(100)	(50)	(50)	(50)	(50)	(50)	(25)	(10)				
28			(25)	(100)	(50)	(50)	(50)	(50)	(50)	(25)	(10)	(10)			
30			(25)	(100)	(50)	(50)	(50)	(50)	(50)	(25)	(10)	(10)	(10)	(10)	
32			(25)	(100)	(25)	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	
36					(25)	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	
40			(25)		(25)	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	•
45					(25)	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	•
50					(25)	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	•
55					(10)	(10)	(10)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	•
60					(10)	(10)	(10)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	•
70						(10)	(10)	(10)	(25)	(25)	(10)	(10)	(10)	(10)	•
80						(10)	(10)	(10)	(25)	(25)	(10)	(10)	(10)	(10)	•
90							(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	•
100							(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	•
120									(10)	(10)	(10)	(10)	(10)	(10)	•
130										(10)	(10)	(10)	(10)	(10)	•
140										(10)	(10)	(10)	(10)	(10)	•
150										(10)	(10)	(10)	(10)	(10)	•

* disponibilità a richiesta solo in tolleranza **m6**
m6 only available on demand

(50) quantità economica consigliata
(50) suggested economic quantity

ISO 8735 - DIN 7979 - UNI 6364B



MAT_ACCIAIO/STEEL MIN. 600N/mm² - 60±2HRC

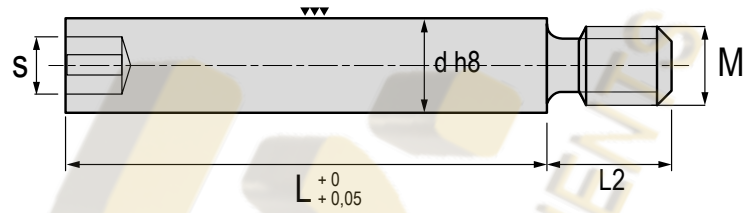
***IN FASE D'ORDINE, SPECIFICARE TOLLERANZA m6 o h6**

***WHEN ORDERING, SPECIFY TOLERANCE m6 or h6**

Code per n. pezzi
SPF / d1 / L (SPF / 8 x 40 h6)*

d1 m6 / h6 *	4	5	6	8	10	12	14	16	18	20
m	M3	M3	M4	M5	M6	M6	M8	M8	M8	M10
t1	4,5-6	4,5-6	6	8	10	10	12	12	12	16
L js14										
8										
10	(25)	(25)								
12	(25)	(25)	(25)							
14	(25)	(25)	(25)							
16	(25)	(25)	(25)	(25)						
18	(25)	(25)	(25)	(25)						
20	(25)	(25)	(25)	(25)	(25)	(10)				
24	(25)	(25)	(25)	(25)	(25)	(10)				
28	(25)	(25)	(25)	(25)	(25)	(10)				
30	(25)	(25)	(25)	(25)	(25)	(10)	(10)			
32	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)		
36	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)		
40	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	(10)
45	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	(10)
50	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	(10)
55	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	(10)
60	(25)	(25)	(25)	(25)	(25)	(10)	(10)	(10)	(10)	(10)
70	(25)	(10)	(10)	(25)	(25)	(10)	(10)	(10)	(10)	(10)
80	(25)	(10)	(10)	(25)	(25)	(10)	(10)	(10)	(10)	(10)
90		(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
100		(10)	(10)	(10)	(10)	(10)	(10)	(10)	•	•
120				(10)	(10)	(10)	(10)	(10)	•	•
130					(10)	(10)	(10)	(10)	•	•
140					(10)	(10)	(10)	(10)	•	•
150					(10)	(10)	(10)	(10)	•	•

(25) quantità economica consigliata
(25) suggested economic quantity



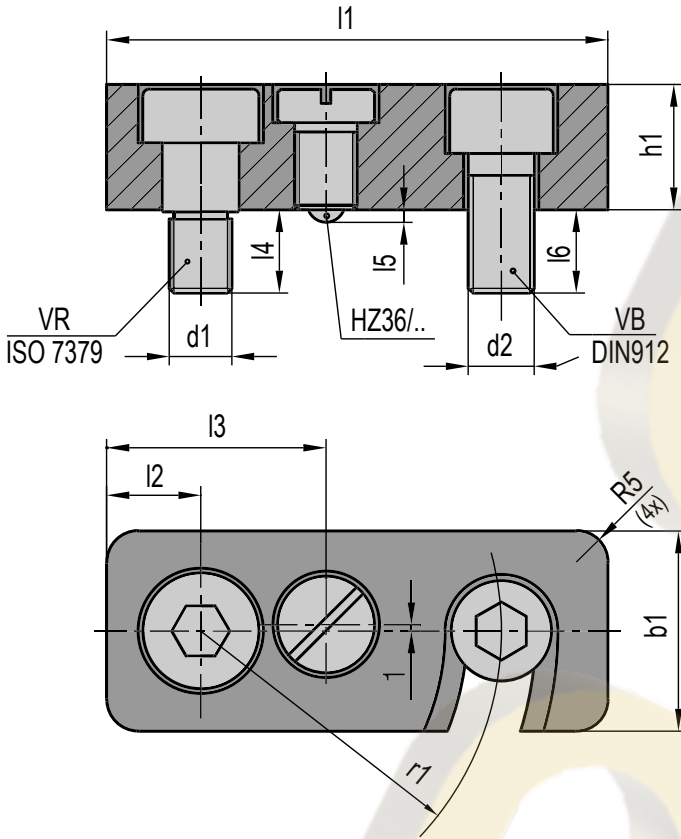
MATERIALE/MATERIAL: ISO 12.9
RESISTENZA TRAZIONE/TENSIL STRENGTH: 110/120 Kg/mm²
LIMITE ELASTICITÀ/ELASTICITY LIMIT: 90 Kg/mm
ALLUNGAMENTO/STRETCH: 90% min



Code per n. pezzi
CGM / M / d x L (CGM / M8 / 10x50)

d	6	8	10	13	16	20	25
M	M4	M6	M8	M10	M12	M16	M20
L2	6	9	15	15	18	25	30
S	3	4	5	6	8	10	14
L +0 / +0,05							
15	•	•	•	•			
20	•	•	•	•	•		
25	•	•	•	•	•	•	
32	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•
63		•	•	•	•	•	•
80		•	•	•	•	•	•
95			•	•	•	•	•
118				•	•	•	•
140					•	•	•
180					•	•	•
200						•	•



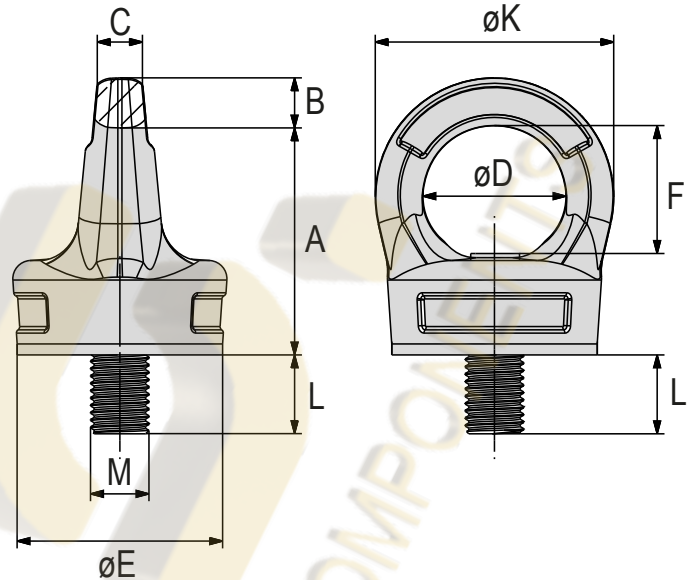


MAT_1.2312/1080 N/mm²



Code per n. pezzi
HZ73/h1/b1/l1

Codice/Code	h1	b1	l1	VR	VB	HZ36	d1	d2	r1	l2	l3	l4	l5	l6
HZ73/12/20/50	12	20	50	VR/6x6	VB/6x14	VGS/5x12	M6	M6	30	10	24	9	0,9	8
HZ73/16/25/63	16	25	63	VR/8x10	VB/8x18	VGS/8x16	M8	M8	38	13	30	11	1,5	11
HZ73/20/32/80	20	32	80	VR/10x12	VB/10x22	VGS/10x20	M10	M10	48	15	35	13	2	13



**AMMESSA ROTAZIONE SOTTO CARICO CONTINUA
ROTATION ALLOWED DURING CONTINUOUS LOADING**

 Code per n. pezzi
G817 x C / M

Codice Code	Misura Size	W.L.L. l	A mm	B mm	C mm	D ømm	E ømm	F mm	K ømm	L mm	Peso Weight Kg
	mm										
G817XC12	M12	0,75	53,5	11	11	34	44	32	56	18	0,460
G817XC16	M16	1,5	56,5	13	14,5	39	56	33	65	24	0,900
G817XC20	M20	2,3	67	14	17	42	58	40	70	30	1,150
G817XC24	M24	3,2	80	18	19	52	73	44,5	88	38,5	2,050
G817XC30	M30	4,5	101	22	27	62	80	53	106	44	4,000

Codice Code	Misura Size mm	0°	0°	90°	90°	0° - 45°	45° - 60°	Asimm	0° - 45°	45° - 60°	Asimm	Coppia max di serraggio Max tightening couple (Nm)
		*	2 bracci 2 legs	1 braccio 1 leg	2 bracci 2 legs	2 bracci 2 legs			3-4 bracci 3-4 legs			
G817XC12	M12	0,75	1,5	0,75	1,5	1	0,75	0,75	1,6	1,12	0,75	28
G817XC16	M16	1,5	3	1,5	3	2	1,5	1,5	3,15	2,25	1,5	70
G817XC20	M20	2,3	4,6	2,3	4,6	3,22	2,3	2,3	4,83	3,45	2,3	135
G817XC24	M24	3,2	6,4	3,2	6,4	4,48	3,2	3,2	6,7	4,8	3,2	230
G817XC30	M30	4,5	9	4,5	9	6,3	4,5	4,5	9,4	6,7	4,5	465

* tiro assiale con rotazione sotto carico
axial pull with rotation during continuous loading

USO PREVISTO:

Punto di ancoraggio destinato al sollevamento dei carichi idoneo alla rotazione continua sotto carico con tiro assiale.

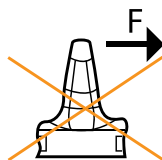
- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche **GS-MO 1504 - EN 1677**
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Orientabile a 360°
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- Ideali per rotazione sotto carico
- Vite imperdibile
- Il dispositivo è idoneo alla rotazione sotto carico solo nella condizione di tiro assiale; il golfare è comunque utilizzabile in tutte le altre direzioni di tiro senza rotazione (per i carichi vedere la tabella di riferimento)

FORESEEN USE:

Fastening points for lifting loads suitable to continuous rotation during loading with axial pull

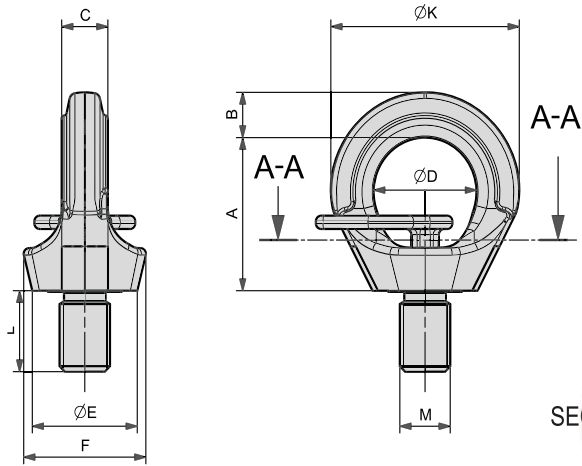
- Safety coefficient 4 in all loading directions
- Designed, tested and certified in compliance with the technical directives GS-MO 1504 EN 1677;
- Suitable for safe lifting in compliance with the machinery directive /2006/42 /IEC
- Can be oriented at 360°
- Tested at 100% magnaflux
- Tested at 20.000 stress cycles
- Ideal for rotation during loading
- Captive screws
- The device is suitable for rotation during loading only with axial pull; the eyebolt can be used in every other pull direction without rotation (for loads see reference table);

Configurazione non consigliata
Configuration not recommended



Posizione che soddisfa il coefficiente di sicurezza 4 richieste dalle norme tecniche di riferimento
Position which is in compliance with the safety coefficient 4 as per the related technical directives)

Non superare in fase di rotazione sotto carico i 50 giri/minuto
Do not exceed during rotation phase loads 50rpm



Code per n. pezzi
G807 x CHT / M36

Codice Code	Misura Size	W.L.L.	A	B	C	D	E	F	K	L	CH	0°		90°		0° - 45°		45° - 60°		Asimm		Coppia max serraggio Max tightening couple (Nm)	Peso Weight (Kg)
												1	2	1	2	2 bracci / 2 legs	2 bracci / 2 legs	3-4 bracci / 3-4 legs	3-4 bracci / 3-4 legs				
G807xCHT08	M08	0,3	33,7	10	9,8	25	25,5	30	46	12	6	1	2	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	8	0,120
G807xCHT10	M10	0,4	33,7	10	9,8	25	25,5	30	46	15	6	1	2	0,4	0,8	0,56	0,4	0,4	0,84	0,6	0,4	16	0,120
G807xCHT12	M12	0,75	41,5	12,5	11,5	30	30,6	36,5	55,5	18	8	2	4	0,75	1,5	1	0,75	0,75	1,6	1,12	0,75	25	0,200
G807xCHT14	M14	0,75	41,5	12,5	11,5	30	30,6	36,5	55,5	18	8	2	4	0,75	1,5	1	0,75	0,75	1,6	1,12	0,75	30	0,200
G807xCHT16	M16	1,5	49,5	14,5	15,7	35	36,5	42	64,5	24	10	4	8	1,5	3	2	1,5	1,5	3,15	2,25	1,5	60	0,350
G807xCHT18	M18	1,5	49,5	14,5	15,7	35	36,5	42	64,5	24	10	4	8	1,5	3	2	1,5	1,5	3,15	2,25	1,5	70	0,350
G807xCHT20	M20	2,3	58	16	18	40	42	52,5	74,5	30	12	6	12	2,3	4,6	3,22	2,3	2,3	4,83	3,45	2,3	110	0,600
G807xCHT22	M22	2,3	58	16	18	40	42	52,5	74,5	30	12	6	12	2,3	4,6	3,22	2,3	2,3	4,83	3,45	2,3	120	0,600
G807xCHT24	M24	3,2	69	20,5	22	49	50	61	90	36	12	8	16	3,2	6,4	4,48	3,2	3,2	6,7	4,8	3,2	195	1,000
G807xCHT27	M27	3,2	69	20,5	22	49	50	61	90	36	12	8	16	3,2	6,4	4,48	3,2	3,2	6,7	4,8	3,2	240	1,000
G807xCHT30	M30	4,5	86	25,5	28	60	66	75	111	45	17	12	24	4,5	9	6,3	4,5	4,5	9,4	6,7	4,5	320	2,000
G807xCHT33	M33	4,5	86	25,5	28	60	66	75	111	45	17	12	24	4,5	9	6,3	4,5	4,5	9,4	6,7	4,5	350	2,000
G807xCHT36	M36	7	105	32	30	74	77	96,5	135	55	22	16	32	7	14	9,8	7	7	14,7	10,5	7	585	3,400
G807xCHT42	M42	9	118	38	37	82	87	110	158	65	24	24	45	9	18	12,6	9	9	18,9	13,5	9	920	5,700
G807xCHT48	M48	12	137	43	38	95	102	124,5	180	72	27	32	64	12	24	16,8	12	12	25,2	18	12	1590	8,500

USO PREVISTO:

Punto di ancoraggio destinato al sollevamento dei carichi.

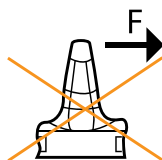
- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche **GS-MO 1504 - EN 1677**
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Orientabile a 360°
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- Ideali per ancoraggi a 90°
- Vite imperdibile
- Sul tiro assiale è consentito uno scostamento di ± 5° con una riduzione della portata del 10%

FORESEEN USE:

Anchorage point for load lifting

- Safety coefficient 4 in all loading directions
- Designed, tested and certified in compliance with the technical directives **GS-MO 1504 EN 1677**
- Suitable for safe lifting in compliance with the machinery directive 2006/42 /EC
- Can be oriented at 360°
- Tested at 100% magnaflux
- Tested at 20.000 stress cycles
- Ideal for anchorage at 90°
- Captive screws
- On the axial pull there can be variation of ±5% with a 10% decrease in capacity.

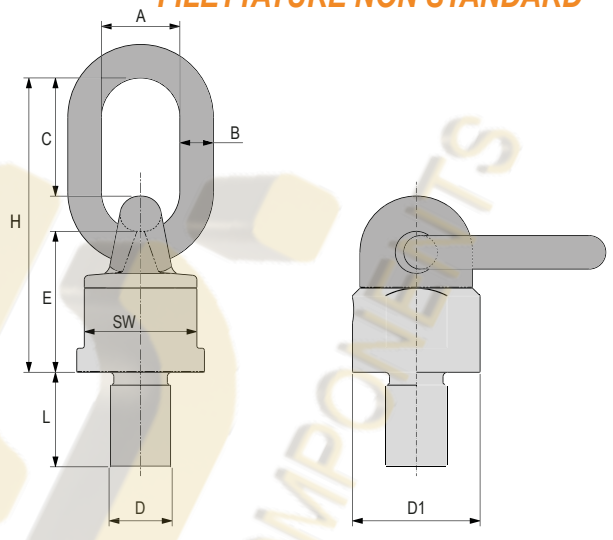
Configurazione non consigliata
Configuration not recommended



Posizione che soddisfa il coefficiente di sicurezza 4 richieste dalle norme tecniche di riferimento
Position which is in compliance with the safety coefficient 4 as per the related technical directives)

Attenzione: il dispositivo non è idoneo alla rotazione sotto carico
Warning: the device is not suitable for rotation during loading

DISPONIBILE SU RICHIESTA
FILETTATURE NON STANDARD



**ORIENTABILE SOTTO CARICO
CAN BE ORIENTED DURING LOADING**

Code per n. pezzi
G800X / t / M 42x63

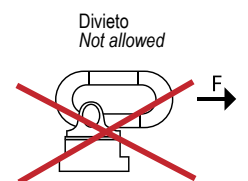
Codice Code	Misura Size mm	W.L.L. t	A mm	B mm	C mm	E mm	H mm	SW mm	D1 mm	0°	0°	90°	90°	0° -45°	45° -60°	Asimm	0° -45°	45° -60°	Asimm	Coppia max di serraggio Max tightening couple (Nm)	Peso Weight Kg
										1 braccio 1 leg	2 bracci 2 legs	1 braccio 1 leg	2 bracci 2 legs	2 bracci / 2 legs		3-4 bracci / 3-4 legs					
G800X030816	0,3t-M8x16	0,3	30	13	46	50	105	30	38	0,6	1,2	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	16	0,480
G800X051018	0,5t-M10x18	0,5	30	13	46	50	105	30	38	1	2	0,5	1	0,75	0,5	0,5	1	0,75	0,5	16	0,480
G800X071218	0,7t-M12x18	0,7	30	13	46	50	105	30	38	1,4	2,4	0,7	1,4	1	0,7	0,7	1,4	1	0,7	28	0,500
G800X101420	1t-M14x20	1	30	13	46	50	105	30	38	2	4	1	2	1,4	1	1	2,1	1,5	1	46	0,530
G800X141620	1,4t-M16x20	1,4	30	13	46	50	105	30	38	2,8	5,6	1,4	2,8	2	1,4	1,4	3	2,1	1,4	70	0,530
G800X172030	1,7t-M20x30	1,7	30	13	46	50	105	30	38	3,4	6,8	1,7	3,4	2,4	1,7	1,7	3,6	2,5	1,7	135	0,530
G800X252030	2,5t-M20x30	2,5	34	16	57	61	131	40	50	5	10	2,5	5	3,5	2,5	2,5	5,3	3,7	2,5	135	1,050
G800X402430	4t-M24x30	4	40	18	70	68	153	48	58	8	16	4	8	5,6	4	4	8,4	6	4	230	1,630
G800X673035	6,7t-M30x35	6,7	45	22	65	71	156	70	80	12	26,8	6,7	13,4	9,4	6,7	6,7	14	10	6,7	465	2,850
G800X803045	8t-M30x45	8	50	23	91	86	200	80	90	12,5	25	8	16	11,2	8	8	16,8	12	8	465	4,400
G800X1003654	10t-M36x54	10	50	23	91	86	200	80	90	15	30	10	20	14	10	10	21,2	15	10	814	4,620
G800X1254263	12,5t-M42x63	12,5	50	23	91	86	200	80	90	15	34	12,5	25	17,5	12,5	12,5	26,2	18,7	12,5	1304	5,200
G800X1604560	16t-M45x60	16	70	32	120	112	262	100	120	25	50	16	30	21,2	15	15	31,5	22,4	15	1670	5,200
G800X1704860	17t-M48x60	17	70	32	120	112	262	100	120	25	50	17	34	23,5	17	17	35,7	25,5	17	1981	5,200
G800X1805678	18t-M56x78	18	70	32	120	112	262	100	120	25	50	18	36	25,2	18	18	37	27	18	3000	10,900
G800X2006496	20t-M64x96	20(25)	70	32	120	112	262	100	120	25	50	20	40	28	20	20	42,5	30	20	4738	10,900
G800X2806496	28t-M64x96	28	90	45	124	165	333	140	170	32,5	84	28	56	39,2	28	28	58,8	42	28	4738	29
G800X31572108	31,5t-M72x108	31,5	90	45	124	165	333	140	170	50	100	31,5	63	44,1	31,5	31,5	66,2	47,2	31,5	6913	29
G800X35080120	35t-M80x120	35	90	45	124	165	333	140	170	50	100	35	70	49	35	35	73,5	52,5	35	9625	29
G800X40090135	40t-M90x135	40	90	45	124	165	333	140	170	50	100	40	80	56	40	40	85	60	40	14000	29

USO PREVISTO:
Golfare girevole destinato al sollevamento di carichi da assemblare al carico stesso mediante idoneo foro filettato generalmente utilizzato per girare o ribaltare carichi pesanti.

- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche **GS-OA 15-04 - EN 1677**
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Orientabile a 360° con anello ribaltabile a 180° autoallineante
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- Filettatura e lunghezza gambo fuori standard su richiesta
- Assemblato con sfere per facilitare l'orientamento del carico
- Sul tiro assiale è consentito uno scostamento di +/-5° con una riduzione della portata del 10%

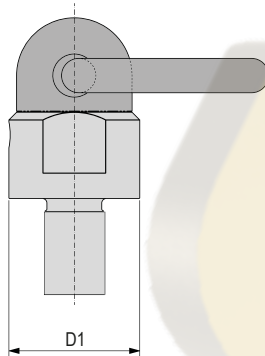
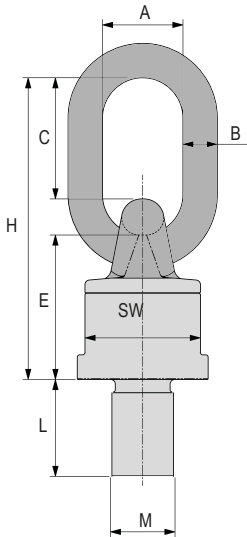
FORESEEN USE:
Turning eyebolt needed to lift loads to assemble to the load itself with specific threaded hole generally used to turn or tilt heavy loads.

- Safety coefficient 4 in all loading directions
- Designed, tested and certified in compliance with the technical directives GS-OA 15-04 EN 1677;
- Suitable for safe lifting in compliance with the machinery directive /2006/42 /EC
- Can be oriented at 360° with self aligning tilting ring at 180°
- Tested at 100% magnaflux
- Tested at 20.000 stress cycles
- Non standard threading and stem lenght upon request
- Assembled with spheres to make load orientation easier
- On the axial pull there can be variation of +/-5° with a 10% decrease in capacity



Non idoneo per il movimento rotatorio continuato a pieno carico.
Not suitable for continuous rotation movement during loading

**DISPONIBILE SU RICHIESTA
FILETTATURE NON STANDARD**



**ORIENTABILE SOTTO CARICO
CAN BE ORIENTED DURING LOADING**

Code per n. pezzi
G800/ M 30x35 / t8

Codice Code	Misura Size	W.L.L.	A	B	C	E	H	SW	D1	Peso Weight	0°		90°		0° -45°		45° -60°		Asimm		Coppia max di serraggio Max tightening couple
											braccio 1 leg	2 bracci 2 legs	1 braccio 1 leg	2 bracci 2 legs	2 bracci / 2 legs		3-4 bracci / 3-4 legs		(Nm)		
G800/..	M08x16	0,3	30	13	46	50	105	30	38	0,480	0,6	1,2	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	16
	M08x18	0,3	30	13	46	50	105	30	38	0,480	0,6	1,2	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	16
	M10x18	0,3	30	13	46	50	105	30	38	0,480	0,6	1,2	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	16
	M12x18	0,5	30	13	46	50	105	30	38	0,500	1	2	0,5	1	0,75	0,5	0,5	1,1	0,75	0,5	28
	M12x25	0,5	30	13	46	50	105	30	38	0,500	1	2	0,5	1	0,75	0,5	0,5	1,1	0,75	0,5	28
	M16x20	1,12	30	13	46	50	105	30	38	0,530	2	4	1,12	2	1,5	1,12	1,12	2,36	1,6	1,12	70
	M16x30	1,12	30	13	46	50	105	30	38	0,530	2	4	1,12	2	1,5	1,12	1,12	2,36	1,6	1,12	70
	M20x30	1,12	30	13	46	50	105	30	38	0,530	2	4	1,12	2	1,5	1,12	1,12	2,36	1,6	1,12	135
	M20x30	2	34	16	57	61	131	40	50	1,050	4	8	2	4	2,8	2	2	4	3	2	135
	M24x30	3,15	40	18	70	68	153	48	58	1,630	6,3	12,5	3,15	6,3	4,25	3,15	3,15	6,3	4,75	3,15	230
	M30x35	5,3	45	22	65	80	165	65	75	2,230	10,6	21,2	5,3	10,6	7,1	5,3	5,3	11,2	8	5,3	465
	M30x45	5,3	45	22	65	80	165	65	75	2,230	10,6	21,2	5,3	10,6	7,1	5,3	5,3	11,2	8	5,3	465
	M30x35/t8	8	50	23	95	95	205	75	85	5,300	12,5	25	8	16	11,2	8	8	16,8	12	8	465
	M30x45/t8	8	50	23	95	95	205	75	85	5,300	12,5	25	8	16	11,2	8	8	16,8	12	8	465
	M36x54	8	50	23	95	95	205	75	85	5,500	12,5	25	8	16	11,2	8	8	16,8	12	8	814
	M42x63	10	50	23	95	95	205	75	85	10,000	15	30	10	20	14	10	10	21,2	15	10	1304
	M48x60	15	70	32	120	130	280	95	120	10,000	25	50	15	30	21	15	15	31,5	22,5	15	1981
	M56x78	15	70	32	120	130	280	95	120	10,000	25	50	15	30	21	15	15	31,5	22,5	15	3000
	M64x96	15	70	32	120	130	280	95	120	10,000	25	50	15	30	21	15	15	31,5	22,5	15	4738
	M72x108	25	90	45	130	165	338	140	170	29,000	35	70	25	50	35	25	25	52,5	37,5	25	6913
	M80x120	30	90	45	130	165	338	140	170	29,000	35	70	30	60	42	30	30	63	45	30	9625
	M90x135	35	90	45	130	165	338	140	170	29,000	35	70	35	70	49	35	35	73,5	52,5	35	14000

USO PREVISTO:

Golfare girevole destinato al sollevamento di carichi da assemblare al carico stesso mediante idoneo foro filettato generalmente utilizzato per girare o ribaltare carichi pesanti.

- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche **GS-OA 15-04 EN 1677**;
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- Filettatura e lunghezza gambo fuori standard su richiesta
- Orientabile a 360° con anello ribaltabile a 180° autoallineante
- Assemblato con sfere per facilitare l'orientamento del carico
- Sul tiro assiale è consentito uno scostamento di +/-5° con riduzione della portata del 10%

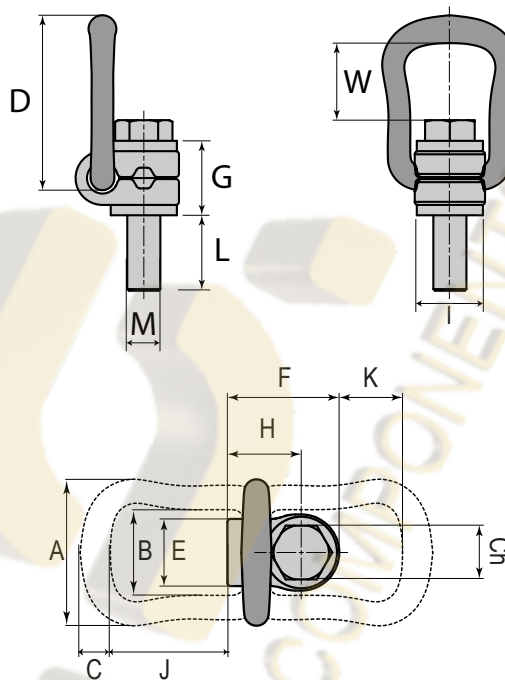
FORESEEN USE:

Turning eyebolt needed to lift loads to assemble to the load itself with specific threaded hole generally used to turn or tilt heavy loads.

- Coefficient 4 in all loading directions
- Designed, tested and certified in compliance with the technical directives **GS-OA 15-04 EN 1677**;
- Suitable for safe lifting in compliance with the machinery directive /2006/42/EC
- Tested at 100% magnaflux
- Tested at 20.000 stress cycles
- Non standard threading and temp length upon request
- Can be oriented at 360° with self aligning tilting ring at 180°
- Assembled with spheres to make load orientation easier
- On the axial pull there can be variation of +/-5° with a 10% decrease in capacity



Non idoneo per il movimento rotatorio continuato a pieno carico
Not suitable for continuous rotation movement during loading



**TIRO A 90° CON MINIMO INGOMBRO
PULL AT 90° WITH MINIMUM OVERALL DIMENSION**

Code per n. pezzi
G806X / M24

Codice Code	Misura Size	W.L.L.	A	B	C	D	E	F	G	H	I	L	W	J	K	Ch	0°		90°		0° - 45°		45° - 60°		Asimm		Coppia max di serraggio Max tightening couple (Nm)	Peso Weight (Kg)
																	1 braccio 1 leg	2 bracci 2 legs	1 braccio 1 leg	2 bracci 2 legs	2 bracci / 2 legs		3-4 bracci / 3-4 legs					
G806X/..	M8	0,3	57	34	10	78	24	41	30	26,5	25	15	43	51	35	13	0,3	0,6	0,3	0,6	0,42	0,3	0,3	0,63	0,45	0,3	30	0,275
	M10	0,63	57	34	10	78	24	41	30	26,5	25	15	42	51	35	17	0,63	1,26	0,63	1,26	0,88	0,63	0,63	1,32	0,95	0,63	60	0,290
	M12	1	66	38	13,5	85	30	50	36	33	32	23	40	52	28	19	1	2	1	2	1,4	1	1	2,1	1,5	1	100	0,500
	M16	1,5	66	38	13,5	85	30	50	36	33	32	24	38	52	28	24	1,5	3	1,5	3	2,1	1,5	1,5	3,15	2,25	1,5	150	0,510
	M20	2,5	87	55	16	111	48	68	44	42,5	45	31	54	71	36	30	2,5	5	2,5	5	3,5	2,5	2,5	5,25	3,75	2,5	250	1,250
	M24	4	87	55	16	111	48	68	44	42,5	45	37	51	71	36	36	4	8	4	8	5,6	4	4	8,4	6	4	400	1,300
	M27	4	109	66	22,5	145	54	91	63	58,5	60	37	64	86	47	41	4	8	4	8	5,6	4	4	8,4	6	4	400	3,150
	M30	5	109	66	22,5	145	54	91	65	58,5	60	45	62	86	47	46	5	10	5	10	7	5	5	10,5	7,5	5	500	3,250
	M36	7	109	66	22,5	145	54	91	55	58,5	60	50	60	86	43	55	7	14	7	14	9,8	7	7	14,7	10,4	7	700	3,300
	M36	8	136	78	28	190	62	108	81	72,5	70	59	88	115	74	55	8	16	8	16	11,2	8	8	16,8	12	8	800	5,900
	M42	10	136	78	28	190	62	108	75	72,5	70	75	86	115	70	65	10	20	10	20	14	10	10	21	15	10	925	6,500
M42	15	169	97	36	242	68	131	89	87,5	85	63	121	151	97	65	15	30	15	30	21	15	15	31,5	22,5	15	1500	11,200	
M48	20	169	97	36	242	68	131	89	87,5	95	71	117	151	93	75	20	40	20	40	28	20	20	42	30	20	2000	11,600	

USO PREVISTO:

Punto di ancoraggio destinato al sollevamento dei carichi.

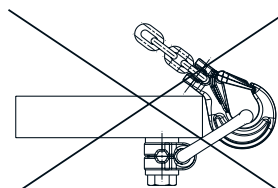
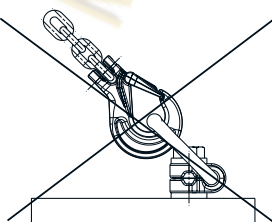
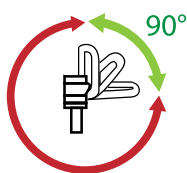
- Coefficiente di sicurezza 4 in tutte le direzioni di carico
- Progettato, testato e certificato secondo norme tecniche GS-OA 15-04-EN1677
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Orientabile a 360°
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- La vite viene protetta con il sistema GEOMET che garantisce una protezione durevole nel tempo
- Ideali per ancoraggi a 90°
- Vite imperdibile
- Le viti dei golfari sono state realizzate per poter essere serrate anche con chiavi esagonali universali

FORESEEN USE:

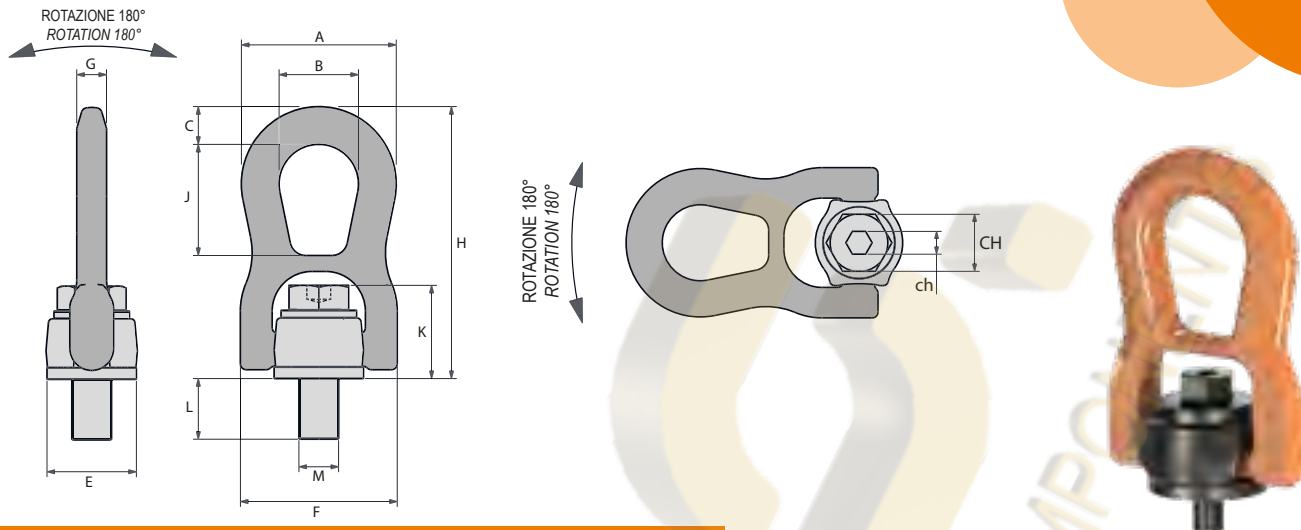
Anchorage point for load lifting.

- Safety coefficient 5 in all loading directions
- Designed, tested and certified in compliance with the technical directives GS-OA 15-04-EN1677
- Suitable for safe lifting in compliance with the machinery directive /2006/42/EC
- Can be oriented at 360°
- Tested at 100% magnaflux
- Tested at 20.000 stress cycles
- The screw is protected with the GEOMET system which guarantees lasting protection
- Ideal for fastening at 90°
- Captive screws
- Eyebolt screws have been realized also to hexagonal universal spanners

Divieto
Not allowed



Attenzione: il dispositivo non è idoneo alla rotazione sotto carico
Warning: the device is not suitable for rotation during loading



**TIRO ASSIALE CON MINIMO INGOMBRO CON COEFFICIENTE 5
IN AXIS PULL WITH MINIMUM OVERALL DIMENSIONS WITH COEFFICIENT 5**

Code per n. pezzi
G811X / M 20

DISPONIBILE SU RICHIESTA FILETTATURE E LUNGHEZZA GAMBO FUORI STANDARD.
AVAILABLE ON DEMAND NOT STANDARD THREADING AND STEM LENGTH.

Codice Code	Misura Size	W.L.L	A	B	C	E	F	G	H	J	K	L	CH	ch	0°	0°	90°	90°	0°	45°	Asimm	0°	45°	Asimm	Coppia max di serraggio Max tightening couple	Peso Weight
															1 braccio 1 leg	2 bracci 2 legs	1 braccio 1 leg	2 bracci 2 legs	2 bracci / 2 legs	3-4 bracci / 3-4 legs	(Nm)	Kg				
G811X/..	M8	0,3	56	28	14	30	55	11	99	40	33,5	12	13	5	0,5	1	0,3	0,6	0,4	0,3	0,3	0,6	0,45	0,3	10	0,375
	M10	0,6	56	28	14	30	55	11	99	40	34,5	15	17	6	1	2	0,6	1,2	0,8	0,6	0,6	1,3	0,9	0,6	15	0,375
	M12	1	56	28	14	30	55	11	99	40	35,5	18	19	7	1,3	2,6	1	2	1,4	1	1	2,1	1,5	1	25	0,375
	M14	1,3	74,5	38	18	47	78	17	135,5	55	46	21	22	7	2	4	1,3	2,6	1,8	1,3	1,3	2,7	1,9	1,3	30	1,300
	M16	1,6	74,5	38	18	47	78	17	135,5	55	46,5	25	24	10	2,5	5	1,6	3,2	2,2	1,6	1,6	3,4	2,4	1,6	60	1,300
	M18	2	74,5	38	18	47	78	17	135,5	55	47	27	27	10	3	6	2	4	2,8	2	2	4,2	3	2	100	1,300
	M20	2,5	74,5	38	18	47	78	17	135,5	55	48	30	30	12	3,5	7	2,5	5	3,5	2,5	2,5	5,3	3,7	2,5	120	1,300
	M22	3	106	56	25	62	114,5	22	198,5	84	63,5	33	32	12	4,5	9	3	6	4,2	3	3	6,3	4,5	3	130	4,000
	M24	4	106	56	25	62	114,5	22	198,5	84	64,5	36	36	14	5,5	11	4	8	5,6	4	4	8,4	6	4	200	4,000
	M27	5	106	56	25	62	114,5	22	198,5	84	66,5	40	41	14	6,5	13	5	10	7	5	5	10,5	7,5	5	250	4,000
M30	6,3	106	56	25	62	114,5	22	198,5	84	68	45	46	17	7	14	6,3	12,6	8,8	6,3	6,3	13,2	9,4	6,3	300	4,000	

USO PREVISTO:

Punto di ancoraggio destinato al sollevamento dei carichi.

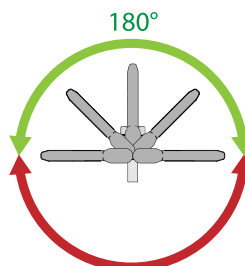
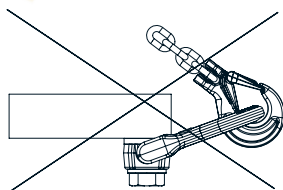
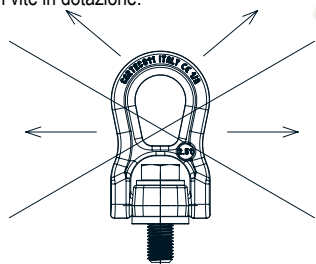
- Coefficiente di sicurezza 5 in tutte le direzioni di carico
- Idoneo al sollevamento in sicurezza secondo direttiva macchine 2006/42/EC
- Orientabile a 360°
- Testato 100% magnaflux
- Testato a 20.000 cicli di fatica
- La vite viene protetta con il sistema GEOMET che garantisce una protezione durevole nel tempo
- Ideali per ancoraggi a 90°
- Vite imperdibile
- Le viti dei golfari sono state realizzate per poter essere serrate anche con chiavi esagonali universali
- Usare solamente con viti in dotazione.

FORESEEN USE:

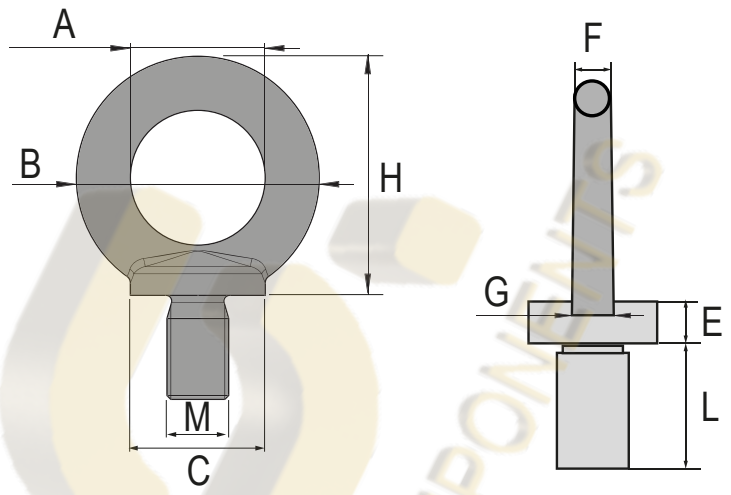
Anchorage point for load lifting.

- Safety coefficient 5 in all loading directions
- Suitable for safe lifting in compliance with the machinery directive /2006/42 /EC
- Can be oriented at 360°
- Tested at 100% magnaflux
- Tested at 20.000 stress cycles
- The screw is protected with the GEOMET system which guarantees lasting protection
- Ideal for fastening at 90°
- Captive screws
- Eyebolt screws have been realized also to hexagonal universal spanners
- Use with the supplied screw

Divieto
Not allowed



Attenzione: il dispositivo non è idoneo alla rotazione sotto carico
Warning: the device is not suitable for rotation during loading



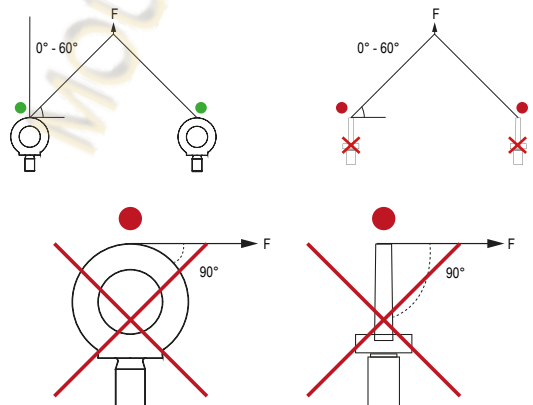
MAT ACCIAIO/STEEL 8.8

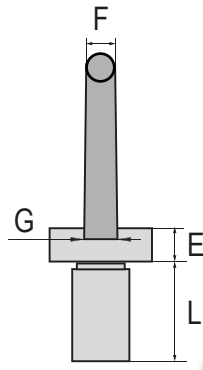
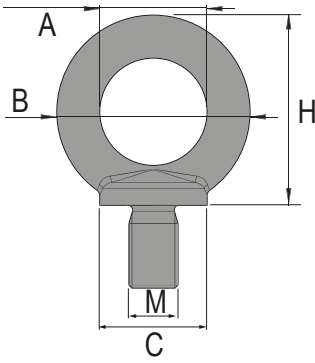
Code per n. pezzi
G803 / M24

Codice Code	Misura Size	A	B	C	E	F	H	0°	0°	0° - 45°	45° - 60°	0 - 45°	45° - 60°	Coppia max di serraggio Max tightening couple (Nm)	Peso Weight Kg
								1 braccio / leg	2 bracci / 2 legs	2 bracci / 2 legs	3-4 bracci / 3-4 legs	3-4 bracci / 3-4 legs			
G803/M06	M6 x 13	25	45	25	10	10	45	0,4	0,8	0,14	0,1	0,2	0,14	3,5	0,090
G803/M08	M8 x 13	25	45	25	10	10	45	0,8	1,6	0,28	0,2	0,4	0,28	8	0,090
G803/M10	M10 x 17	25	45	25	10	10	45	1	2	0,35	0,25	0,5	0,35	16	0,110
G803/M12	M12 x 21	35	63	35	14	14	62	1,6	3,2	0,56	0,4	0,8	0,56	28	0,270
G803/M14	M14 x 21	35	63	35	14	14	62	3	6	1	0,75	1,5	1	45	0,290
G803/M16	M16 x 27	35	63	35	14	14	62	4	8	1,4	1	2	1,4	70	0,310
G803/M18	M18 x 27	50	90	50	20	20	90	5	10	1,8	1,25	2,5	1,8	95	0,840
G803/M20	M20 x 30	50	90	50	20	20	90	6	12	2,1	1,5	3	2,1	135	0,860
G803/M22	M22 x 36	50	90	50	20	20	90	7	14	2,4	1,75	3,5	2,4	182	0,900
G803/M24	M24 x 36	50	90	50	20	20	90	8	16	2,8	2	4	2,8	230	0,900
G803/M27	M27 x 45	60	108	65	24	24	109	10	20	3,5	2,5	5	3,5	343	1,660
G803/M30	M30 x 45	60	108	65	24	24	109	12	24	4,2	3	6	4,2	465	1,700
G803/M33	M33 x 54	70	126	75	26	28	128	14	28	4,8	3,4	6,8	4,8	632	2,000
G803/M36	M36 x 54	70	126	75	26	28	128	16	32	5,6	3,9	7,8	5,4	814	2,150
G803/M42	M42 x 63	80	144	85	30	32	147	24	48	8,4	5,9	11,8	8,2	1304	4,150
G803/M48	M48 x 68	90	166	100	35	38	168	32	64	11,2	7,8	15,6	10,9	1981	6,200
G803/M56	M56 x 78	100	184	110	38	42	187	36	72	12,6	8,8	17,6	12,3	3000	8,800
G803/M64	M64 x 90	110	206	120	42	48	208	45	90	15,7	11	22	15,4	4736	12,400

Coefficiente di sicurezza: 4
Safety ratio: 4

Avvitare a mano
To be screwed by hand





MAT ACCIAIO/STEEL C15E



Code per n. pezzi
GOLF / M36

Codice Code	M	A	B	C	E	F	G	H	L	WLL	45° WLL	90° WLL	Coppia max di serraggio Max tightening couple	Peso Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg	Kg		
GOLF/M06	M6	20	36	20	6	8	10	36	13	90	60	45	3,5	0,060
GOLF/ M08	M8	20	36	20	6	8	10	36	13	140	100	70	8	0,060
GOLF/ M10	M10	25	45	25	8	10	12	45	17	230	170	115	16	0,110
GOLF/ M12	M12	30	54	30	10	12	14	53	20,5	340	240	170	28	0,180
GOLF/ M14	M14	30	54	30	10	12	14	53	20,5	500	350	250	45	0,190
GOLF/ M16	M16	35	63	35	12	14	16	62	27	700	500	350	70	0,280
GOLF/ M18	M18	35	63	35	12	14	16	62	27	930	650	465	95	0,330
GOLF/ M20	M20	40	72	40	14	16	19	71	30	1200	860	600	135	0,450
GOLF/ M22	M22	40	72	40	14	16	19	71	30	1500	1050	750	182	0,500
GOLF/ M24	M24	50	90	50	18	20	24	90	36	1800	1290	900	230	0,740
GOLF/ M27	M27	54	98	62	20	22	26	99	40	2500	1830	1250	343	1,250
GOLF/ M30	M30	60	108	65	22	24	28	109	45	3200	2300	1600	465	1,660
GOLF/ M33	M33	60	108	65	22	24	28	109	45	4200	3050	2100	632	1,900
GOLF/ M36	M36	70	126	75	26	28	32	128	54	4600	3300	2300	814	2,650
GOLF/ M39	M39	80	144	85	30	32	38	147	63	6000	4400	3000	1059	3,780
GOLF/ M42	M42	80	144	85	30	32	38	147	63	6300	4500	3150	1304	4,030
GOLF/ M45	M45	90	166	100	35	38	46	168	68	7800	5500	3900	1638	6,240
GOLF/ M48	M48	90	166	100	35	38	46	168	68	8600	6100	4300	1981	6,380
GOLF/ M52	M52	100	184	110	38	42	50	187	78	9900	7100	4950	2540	8,570
GOLF/ M56	M56	100	184	110	38	42	50	187	78	11500	8200	5750	3000	8,800
GOLF/ M64	M64	110	206	120	42	48	58	208	90	16000	11000	8000	4736	12,400
GOLF/ M72	M72	140	260	150	50	60	72	260	100	20000	14000	10000	6913	23,300
GOLF/ M80	M80	160	296	170	55	68	80	298	112	28000	20000	14000	9625	34,200
GOLF/ M100	M100	180	330	190	60	75	88	330	130	40000	29000	20000	19613	49,100



Via Maestri del Lavoro, 12
33080 Fiume Veneto (PN) Italy
Telefono/Phone: +39 0434 564010
Fax: +39 0434 564008

Per richieste di informazioni, offerte e ordini / *For enquires, quotations and orders:*
UFFICIO COMMERCIALE/COMMERCIAL OFFICE: commerciale@tdspn.it

Per informazioni amministrative / *For administrative informations:*
AMMINISTRAZIONE/ADMINISTRATION OFFICE: amministrazione@tdspn.it