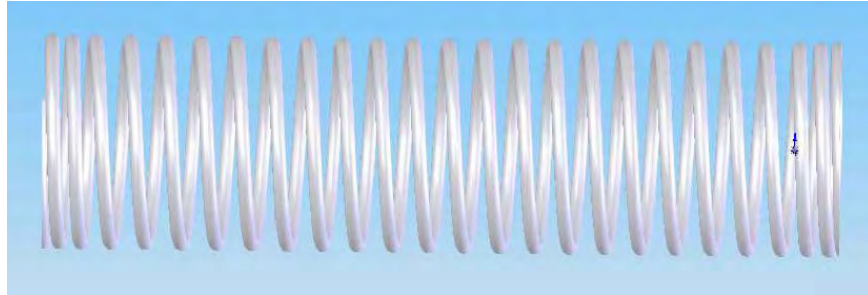




MORRIS
springs



METRIC STEEL COMPRESSION SPRINGS

FROM STOCK

When ordering it is necessary to specify the full spring reference number.

Please note wire sizes under 0.5mm are un-ground.



All orders subject to a Carriage Charge

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 1	3.00	2.37	0.315	10	3.86	10 ³ / ₄	0.0581
MMC 2				15	5.28	15 ¹ / ₄	0.0384
MMC 3				20	6.78	20	0.0282
MMC 4				25	8.19	24 ¹ / ₂	0.0226
MMC 5				30	9.61	29	0.0188
MMC 6	3.00	2.33	0.335	10	4.11	10 ³ / ₄	0.0760
MMC 7				15	5.78	15 ³ / ₄	0.0483
MMC 8				20	7.46	20 ³ / ₄	0.0354
MMC 9				25	9.13	25 ³ / ₄	0.0280
MMC 10				30	10.73	30 ¹ / ₂	0.0233
MMC 11	3.00	2.29	0.355	10	4.44	11	0.0953
MMC 12				15	6.31	16 ¹ / ₄	0.0602
MMC 13				20	8.17	21 ¹ / ₂	0.0440
MMC 14				25	9.95	26 ¹ / ₂	0.0350
MMC 15				30	11.81	31 ³ / ₄	0.0288
MMC 16	3.00	2.25	0.375	10	4.88	11 ¹ / ₂	0.1150
MMC 17				15	6.94	17	0.0728
MMC 18				20	9.00	22 ¹ / ₂	0.0533
MMC 19				25	11.00	27 ³ / ₄	0.0424
MMC 20				30	13.04	33 ¹ / ₄	0.0349
MMC 21	3.50	2.75	0.375	10	4.09	9 ¹ / ₄	0.0893
MMC 22				15	5.63	13 ¹ / ₂	0.0563
MMC 23				20	7.22	17 ³ / ₄	0.0411
MMC 24				25	8.82	22	0.0324
MMC 25				30	10.41	26 ¹ / ₄	0.0267
MMC 26				35	12.00	30 ¹ / ₂	0.0227
MMC 27				40	13.60	34 ³ / ₄	0.0197
MMC 28				50	16.79	43 ¹ / ₄	0.0157
MMC 29	3.50	2.70	0.400	10	4.45	9 ¹ / ₂	0.1145
MMC 30				15	6.20	14	0.0716
MMC 31				20	7.98	18 ¹ / ₄	0.0528
MMC 32				25	9.70	22 ³ / ₄	0.0414
MMC 33				30	11.50	27	0.0343
MMC 34				35	13.20	31 ¹ / ₂	0.0291
MMC 35				40	15.00	36	0.0252
MMC 36				50	18.50	44 ³ / ₄	0.0201
MMC 37	3.50	2.65	0.425	10	4.79	9 ³ / ₄	0.1447
MMC 38				15	6.80	14 ¹ / ₂	0.0897
MMC 39				20	8.72	19	0.0660
MMC 40				25	10.63	23 ¹ / ₂	0.0521
MMC 41				30	12.54	28	0.0431
MMC 42				35	14.46	32 ¹ / ₂	0.0367
MMC 43				40	16.42	37	0.0320
MMC 44				50	20.30	46 ¹ / ₄	0.0253

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 45	3.50	2.60	0.450	10	5.18	10	0.1806
MMC 46				15	7.32	14 ³ / ₄	0.1133
MMC 47				20	9.45	19 ¹ / ₂	0.0825
MMC 48				25	11.58	24	0.0656
MMC 49				30	13.68	28 ³ / ₄	0.0540
MMC 50				35	15.78	33 ¹ / ₂	0.0458
MMC 51				40	17.89	38 ¹ / ₄	0.0398
MMC 52				50	22.17	17 ³ / ₄	0.0315
MMC 53	4.00	3.20	0.400	10	3.90	8 ¹ / ₄	0.0877
MMC 54				15	5.30	11 ³ / ₄	0.0562
MMC 55				20	6.70	15 ¹ / ₄	0.0414
MMC 56				25	8.10	18 ³ / ₄	0.0327
MMC 57				30	9.50	22 ¹ / ₄	0.0270
MMC 58				35	10.90	25 ³ / ₄	0.0231
MMC 59				40	12.30	29 ¹ / ₄	0.0201
MMC 60				50	15.20	36 ¹ / ₂	0.0159
MMC 61	4.00	3.15	0.425	10	4.25	8 ¹ / ₂	0.1098
MMC 62				15	5.85	12 ¹ / ₄	0.0696
MMC 63				20	7.44	16	0.0510
MMC 64				25	9.04	19 ³ / ₄	0.0402
MMC 65				30	10.63	23 ¹ / ₂	0.0332
MMC 66				35	12.12	27	0.0285
MMC 67				40	13.60	30 ¹ / ₂	0.0250
MMC 68				50	16.69	37 ³ / ₄	0.0199
MMC 69	4.00	3.10	0.450	10	4.50	8 ¹ / ₂	0.1410
MMC 70				15	6.30	12 ¹ / ₂	0.0872
MMC 71				20	8.10	16 ¹ / ₂	0.0632
MMC 72				25	9.79	20 ¹ / ₄	0.0502
MMC 73				30	11.50	24	0.0416
MMC 74				35	13.17	27 ³ / ₄	0.0355
MMC 75				40	14.97	31 ³ / ₄	0.0308
MMC 76				50	18.34	39 ¹ / ₄	0.0246
MMC 77	4.00	3.00	0.500	10	4.88	9 ¹ / ₄	0.2010
MMC 78				15	6.89	13 ¹ / ₄	0.1295
MMC 79				20	9.00	17 ¹ / ₂	0.0940
MMC 80				25	11.00	21 ¹ / ₂	0.0747
MMC 81				30	13.07	25 ¹ / ₂	0.0620
MMC 82				35	15.13	29 ³ / ₄	0.0525
MMC 83				40	17.13	33 ³ / ₄	0.0459
MMC 84				50	21.25	42	0.0364
MMC 85	4.50	3.60	0.450	10	4.05	7 ¹ / ₂	0.1122
MMC 86				15	5.52	10 ³ / ₄	0.0705
MMC 87				20	6.98	14	0.0514
MMC 88				25	8.45	17 ¹ / ₄	0.0404
MMC 89				30	9.92	20 ¹ / ₂	0.0333
MMC 90				35	11.37	23 ³ / ₄	0.0283
MMC 91				40	12.85	27	0.0246
MMC 92				50	15.76	33 ¹ / ₂	0.0195

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 93	4.50	3.50	0.500	10	4.25	8	0.1627
MMC 94				15	6.02	11½	0.1027
MMC 95				20	7.68	14¾	0.0765
MMC 96				25	9.38	18¼	0.0600
MMC 97				30	11.13	21¾	0.0494
MMC 98				35	12.88	25¼	0.0492
MMC 99				40	14.50	28½	0.0368
MMC 100				50	17.90	35¼	0.0293
MMC 101	4.50	3.38	0.56	10	4.95	8¼	0.2572
MMC 102				15	7.00	12	0.1607
MMC 103				20	9.10	15¾	0.1169
MMC 104				25	11.07	19¼	0.0932
MMC 105				30	13.16	23	0.0765
MMC 106				35	15.26	26¾	0.0649
MMC 107				40	17.22	30¼	0.0569
MMC 108				50	21.30	37½	0.0452
MMC 109	4.50	3.30	0.60	10	5.40	8½	0.3361
MMC 110				15	7.65	12¼	0.2131
MMC 111				20	9.90	16	0.1560
MMC 112				25	12.15	19¾	0.1230
MMC 113				30	14.40	23½	0.1016
MMC 114				35	16.65	27¼	0.0865
MMC 115				40	18.90	31	0.0753
MMC 116				50	23.41	38½	0.0598
MMC 117	5.00	4.00	0.50	10	3.79	7	0.1371
MMC 118				15	5.25	10	0.0857
MMC 119				20	6.67	12¾	0.0638
MMC 120				25	8.13	15¾	0.0498
MMC 121				30	9.54	18½	0.0415
MMC 122				35	11.00	21½	0.0351
MMC 123				40	12.40	24¼	0.0308
MMC 124				50	15.25	30	0.0244
MMC 125	5.00	3.88	0.56	10	4.48	7½	0.2042
MMC 126				15	6.22	10½	0.1321
MMC 127				20	7.98	13¾	0.0956
MMC 128				25	9.80	17	0.0749
MMC 129				30	11.48	20	0.0624
MMC 130				35	13.16	23	0.0535
MMC 131				40	14.98	26¼	0.0463
MMC 132				50	18.48	32½	0.0368
MMC 133	5.00	3.74	0.63	10	5.20	7¾	0.3283
MMC 134				15	7.25	11	0.2097
MMC 135				20	9.45	14½	0.1510
MMC 136				25	11.50	17¾	0.1198
MMC 137				30	13.55	21	0.0993
MMC 138				35	15.60	24¼	0.0848
MMC 139				40	17.80	27¾	0.0733
MMC 140				50	22.05	24½	0.0580

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 141	5.00	3.66	0.67	10	5.53	7¾	0.4317
MMC 142				15	7.88	11¼	0.2683
MMC 143				20	10.05	14½	0.1985
MMC 144				25	12.40	18	0.1551
MMC 145				30	14.74	21½	0.1273
MMC 146				35	16.92	24¾	0.1091
MMC 147				40	19.27	28¼	0.0945
MMC 148				50	23.79	35	0.0752
MMC 149	5.50	4.38	0.56	15	5.52	9¼	0.1125
MMC 150				20	7.00	12	0.0815
MMC 151				25	8.42	14½	0.0652
MMC 152				30	10.02	17¼	0.0534
MMC 153				35	11.48	20	0.0453
MMC 154				40	12.88	22½	0.0397
MMC 155				50	15.82	27¾	0.0316
MMC 156				60	18.90	33¼	0.0261
MMC 157	5.50	4.25	0.63	15	6.48	9¾	0.1759
MMC 158				20	8.35	12¾	0.1268
MMC 159				25	10.08	15½	0.1010
MMC 160				30	11.97	18½	0.0826
MMC 161				35	13.71	21¼	0.0708
MMC 162				40	15.60	24¼	0.0612
MMC 163				50	19.23	30	0.0487
MMC 164				60	22.68	35½	0.0407
MMC 165	5.50	4.08	0.71	15	7.64	10¼	0.2802
MMC 166				20	9.77	13¼	0.2055
MMC 167				25	11.92	16¼	0.1622
MMC 168				30	14.20	19½	0.1321
MMC 169				35	16.33	22½	0.1128
MMC 170				40	18.46	25½	0.0983
MMC 171				50	22.90	31¾	0.0777
MMC 172				60	27.16	37¾	0.0646
MMC 173	5.50	4.00	0.75	15	8.07	10¼	0.3578
MMC 174				20	10.50	13½	0.2567
MMC 175				25	12.78	16½	0.2036
MMC 176				30	15.19	19¾	0.1663
MMC 177				35	17.51	22¾	0.1422
MMC 178				40	19.88	26	0.1230
MMC 179				50	24.57	32¼	0.0976
MMC 180				60	29.25	38½	0.0808
MMC 181	6.00	4.74	0.63	15	5.83	8¾	0.1507
MMC 182				20	7.40	11¼	0.1099
MMC 183				25	8.89	13¾	0.0865
MMC 184				30	10.56	16¼	0.0713
MMC 185				35	12.13	18¾	0.0607
MMC 186				40	13.72	21¼	0.0528
MMC 187				50	16.87	26¼	0.0419
MMC 188				60	20.02	31¼	0.0347

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 189	6.00	4.58	0.71	15	8.07	9¼	0.2367
MMC 190				20	8.88	12	0.1716
MMC 191				25	10.83	14¾	0.1346
MMC 192				30	12.65	17¼	0.1125
MMC 193				35	14.56	20	0.0953
MMC 194				40	16.51	22¾	0.0827
MMC 195				50	20.42	28¼	0.0653
MMC 196				60	24.32	33¾	0.0540
MMC 197	6.00	4.40	0.80	15	8.00	9½	0.3884
MMC 198				20	10.40	12½	0.2774
MMC 199				25	12.60	15¼	0.2198
MMC 200				30	15.00	18¼	0.1792
MMC 201				35	17.20	21	0.1533
MMC 202				40	19.50	23¾	0.1339
MMC 203				50	24.05	29½	0.1059
MMC 204				60	28.62	35¼	0.0876
MMC 205	6.00	4.30	0.85	15	8.72	9¾	0.4931
MMC 206				20	11.27	12¾	0.3554
MMC 207				25	13.60	15½	0.2830
MMC 208				30	16.15	18½	0.2316
MMC 209				35	18.70	21½	0.1959
MMC 210				40	21.07	24¼	0.1717
MMC 211				50	26.14	30¼	0.1352
MMC 212				60	31.07	36	0.1123
MMC 213	7.00	5.58	0.71	15	5.86	7¾	0.1775
MMC 214				20	7.28	9¾	0.1317
MMC 215				25	8.88	12	0.1021
MMC 216				30	10.30	14	0.0850
MMC 217				35	11.72	16	0.0729
MMC 218				40	13.33	18¼	0.0628
MMC 219				50	16.65	22½	0.0498
MMC 220				60	19.35	26¾	0.0412
MMC 221	7.00	5.40	0.80	15	6.80	8	0.2864
MMC 222				20	8.60	10¼	0.2083
MMC 223				25	10.48	12½	0.1636
MMC 224				30	12.35	14¾	0.1347
MMC 225				35	14.15	17	0.1145
MMC 226				40	16.00	19½	0.0982
MMC 227				50	19.60	24	0.0781
MMC 228				60	23.35	28½	0.0648
MMC 229	7.00	5.20	0.90	15	7.88	8¼	0.4624
MMC 230				20	10.13	10¾	0.3303
MMC 231				25	12.38	13¼	0.2569
MMC 232				30	14.63	15¾	0.2102
MMC 233				35	16.88	18¼	0.1778
MMC 234				40	18.90	20½	0.1562
MMC 235				50	23.40	25½	0.1229
MMC 236				60	27.90	30½	0.1014

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 237	7.00	5.10	0.95	15	8.55	8½	0.5658
MMC 238				20	10.93	11	0.4087
MMC 239				25	13.30	13½	0.3198
MMC 240				30	15.68	16	0.2627
MMC 241				35	18.05	18½	0.2229
MMC 242				40	20.43	21	0.1935
MMC 243				50	25.18	26	0.1532
MMC 244				60	29.93	31	0.1268
MMC 245	8.00	6.40	0.80	15	6.00	7	0.2194
MMC 246				20	7.40	8¾	0.1625
MMC 247				25	8.80	10½	0.1291
MMC 248				30	10.40	12½	0.1045
MMC 249				40	13.25	16	0.0783
MMC 250				50	16.20	19¾	0.0618
MMC 251				60	19.20	23½	0.0510
MMC 252				70	22.20	27	0.0438
MMC 253	8.00	6.20	0.90	15	7.00	7¼	0.3491
MMC 254				20	8.78	9¼	0.2528
MMC 255				25	10.58	11¼	0.1981
MMC 256				30	12.38	13¼	0.1629
MMC 257				40	15.98	17¼	0.1202
MMC 258				50	19.58	21¼	0.0952
MMC 259				60	23.18	25¼	0.0788
MMC 260				70	26.78	29¼	0.0672
MMC 261	8.00	6.00	1.00	15	8.00	7½	0.5300
MMC 262				20	10.00	9½	0.3887
MMC 263				25	12.75	11¾	0.2990
MMC 264				30	14.50	14	0.2429
MMC 265				40	18.75	18¼	0.1794
MMC 266				50	23.00	22½	0.1422
MMC 267				60	27.25	26¾	0.1177
MMC 268				70	31.50	31	0.1005
MMC 269	8.00	5.76	1.12	15	8.96	7½	0.8785
MMC 270				20	11.48	9¾	0.6234
MMC 271				25	14.00	12	0.4831
MMC 272				30	16.52	14¼	0.3944
MMC 273				40	21.56	18¾	0.2884
MMC 274				50	26.60	23¼	0.2273
MMC 275				60	31.64	27¾	0.1876
MMC 276				70	36.68	32¼	0.1597
MMC 277	9.00	7.20	0.90	20	7.65	8	0.2057
MMC 278				25	9.23	9¾	0.1592
MMC 279				30	10.62	11¼	0.1334
MMC 280				40	13.73	14¾	0.0968
MMC 281				50	16.65	18	0.0771
MMC 282				60	19.80	21½	0.0633
MMC 283				70	22.73	24¾	0.0542
MMC 284				80	25.65	28	0.0474

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 285	9.00	7.00	1.00	20	9.00	8½	0.3004
MMC 286				25	10.75	10¼	0.2367
MMC 287				30	12.50	12	0.1953
MMC 288				40	16.00	15½	0.1446
MMC 289				50	19.75	19¼	0.1132
MMC 290				60	23.75	22¾	0.0941
MMC 291				70	26.75	26¼	0.0805
MMC 292				80	30.32	29¾	0.0703
MMC 293				9.00	6.76	1.12	20
MMC 294	25	12.32	10½				0.3783
MMC 295	30	14.56	12½				0.3062
MMC 296	40	18.86	16¼				0.2256
MMC 297	50	23.24	20¼				0.1762
MMC 298	60	27.44	24				0.1461
MMC 299	70	31.64	27¾				0.1248
MMC 300	80	35.84	31½				0.1090
MMC 301	9.00	6.50	1.25				20
MMC 302				25	14.07	10¾	0.5994
MMC 303				30	16.57	12¾	0.4879
MMC 304				40	21.57	16¾	0.3555
MMC 305				50	26.57	20¾	0.2797
MMC 306				60	31.57	24¾	0.2305
MMC 307				70	36.57	28¾	0.196
MMC 308				80	41.57	32¾	0.1705
MMC 309				10.00	8.00	1.00	20
MMC 310	25	9.50	9				0.1959
MMC 311	30	11.00	10½				0.1613
MMC 312	40	14.00	13½				0.1192
MMC 313	50	17.00	16½				0.0946
MMC 314	60	20.00	19½				0.0783
MMC 315	70	23.00	22½				0.0669
MMC 316	80	26.00	25½				0.0583
MMC 317	10.00	7.76	1.12				20
MMC 318				25	10.98	9¼	0.3099
MMC 319				30	12.88	11	0.2496
MMC 320				40	16.52	14¼	0.1834
MMC 321				50	20.16	17½	0.1449
MMC 322				60	23.80	20¾	0.1198
MMC 323				70	27.44	24	0.1021
MMC 324				80	31.10	27¼	0.0889
MMC 325				10.00	7.50	1.25	20
MMC 326	25	12.82	9¾				0.4702
MMC 327	30	15.00	11½				0.3836
MMC 328	40	19.07	14¾				0.2858
MMC 329	50	23.44	18¼				0.2242
MMC 330	60	27.82	21				0.1845
MMC 331	70	32.19	25¼				0.1567
MMC 332	80	36.25	28½				0.1375

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 333	10.00	7.20	1.40	20	11.90	8	1.0066
MMC 334				25	14.39	9¾	0.7793
MMC 335				30	17.10	11¾	0.6194
MMC 336				40	22.05	15¼	0.4558
MMC 337				50	27.30	19	0.3552
MMC 338				60	32.20	22½	0.2946
MMC 339				70	37.45	26¼	0.2490
MMC 340				80	42.35	29¾	0.2176
MMC 341	11.00	8.76	1.12	25	9.80	8¼	0.2610
MMC 342				30	11.48	9¾	0.2105
MMC 343				40	14.56	12½	0.1553
MMC 344				50	17.64	15¼	0.1231
MMC 345				60	20.92	18	0.1019
MMC 346				70	24.08	21	0.0858
MMC 347				80	27.16	23¾	0.0750
MMC 348				100	33.32	29¼	0.0598
MMC 349	11.00	8.50	1.25	25	11.57	8¾	0.3902
MMC 350				30	13.44	10¼	0.3192
MMC 351				40	17.19	13¼	0.2341
MMC 352				50	20.94	16¼	0.1848
MMC 353				60	24.69	19¼	0.1527
MMC 354				70	28.44	22¼	0.1300
MMC 355				80	32.19	25¼	0.1132
MMC 356				100	39.69	31¼	0.0900
MMC 357	11.00	8.20	1.40	25	13.30	9	0.6203
MMC 358				30	15.40	10½	0.5108
MMC 359				40	19.95	13¾	0.3695
MMC 360				50	24.50	17	0.2894
MMC 361				60	28.70	20	0.2412
MMC 362				70	33.24	23¼	0.2043
MMC 363				80	37.80	26½	0.1772
MMC 364				100	46.55	32¾	0.1412
MMC 365	11.00	8.00	1.50	25	14.25	9	0.8435
MMC 366				30	16.88	10¾	0.6748
MMC 367				40	21.75	14	0.4920
MMC 368				50	26.63	17¼	0.3872
MMC 369				60	31.50	20½	0.3192
MMC 370				70	36.38	23¾	0.2714
MMC 371				80	41.25	27	0.2362
MMC 372				100	51.00	33½	0.1874
MMC 373	12.00	9.50	1.25	25	10.32	7¾	0.3417
MMC 374				30	12.19	9¼	0.2710
MMC 375				40	15.32	11¾	0.2015
MMC 376				50	18.44	14¼	0.1604
MMC 377				60	21.88	17	0.1310
MMC 378				70	25.00	19½	0.1122
MMC 379				80	28.44	22¼	0.0970
MMC 380				100	35.00	27½	0.0770

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 381	12.00	9.20	1.40	25	12.14	8	0.5375
MMC 382				30	14.00	9½	0.4300
MMC 383				40	18.05	12¼	0.3146
MMC 384				50	22.05	15¼	0.2434
MMC 385				60	25.90	18	0.2015
MMC 386				70	29.82	20¾	0.1720
MMC 387				80	33.90	23½	0.1500
MMC 388				100	40.60	29¼	0.1183
MMC 389	12.00	8.80	1.60	25	14.12	8¼	0.9321
MMC 390				30	16.50	9¾	0.7517
MMC 391				40	21.20	12¾	0.5419
MMC 392				50	26.05	15¾	0.4237
MMC 393				60	30.83	18¾	0.3478
MMC 394				70	35.60	21¾	0.2949
MMC 395				80	40.40	24¾	0.2560
MMC 396				100	50.00	30¾	0.2026
MMC 397	12.00	8.60	1.70	25	15.30	8½	1.1758
MMC 398				30	17.85	10	0.9553
MMC 399				40	22.95	13	0.6948
MMC 400				50	28.05	16	0.5459
MMC 401				60	33.15	19	0.4495
MMC 402				70	38.68	22¼	0.3774
MMC 403				80	43.78	25¼	0.3287
MMC 404				100	53.98	31¼	0.2612
MMC 405	13.00	10.36	1.32	30	11.88	8½	0.2931
MMC 406				40	14.85	10¾	0.2177
MMC 407				50	18.15	13¼	0.1693
MMC 408				60	21.12	15½	0.1411
MMC 409				70	24.42	18	0.119
MMC 410				80	27.39	20¼	0.1044
MMC 411				10	33.66	25	0.0828
MMC 412				120	39.93	29¾	0.0686
MMC 413	13.00	10.20	1.40	30	19.95	8¾	0.3646
MMC 414				40	16.45	11¼	0.266
MMC 415				50	19.95	13¾	0.2094
MMC 416				60	23.10	16	0.1757
MMC 417				70	26.60	18½	0.1491
MMC 418				80	30.10	21	0.1295
MMC 419				10	37.10	26	0.1025
MMC 420				120	44.10	31	0.0848
MMC 421	13.00	9.80	1.60	30	15.20	9	0.6319
MMC 422				40	19.60	11¾	0.4536
MMC 423				50	24.00	14½	0.3538
MMC 424				60	28.06	17	0.2948
MMC 425				70	32.40	19¾	0.2492
MMC 426				80	36.80	22½	0.2157
MMC 427				10	45.60	28	0.1701
MMC 428				120	54.00	33¼	0.1415

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 429	13.00	9.40	1.80	30	17.55	9¼	1.0306
MMC 430				40	22.66	12	0.7471
MMC 431				50	27.90	15	0.5747
MMC 432				60	32.85	17¾	0.4744
MMC 433				70	37.92	20½	0.4038
MMC 434				80	43.20	23½	0.3475
MMC 435				10	53.55	29¼	0.2742
MMC 436				120	63.45	34¾	0.2281
MMC 437	14.00	11.20	1.40	30	11.90	8	0.3200
MMC 438				40	14.82	10	0.2400
MMC 439				50	17.85	12¼	0.1873
MMC 440				60	21.00	14½	0.1536
MMC 441				70	24.15	16¾	0.1302
MMC 442				80	27.30	19	0.1129
MMC 443				10	33.25	23¼	0.0903
MMC 444				120	39.80	27½	0.00753
MMC 445	14.00	10.80	1.60	30	14.00	8¼	0.5499
MMC 446				40	18.00	10¾	0.3928
MMC 447				50	21.81	13	0.3124
MMC 448				60	25.60	15½	0.2546
MMC 449				70	29.60	18	0.2148
MMC 450				80	33.23	20¼	0.1883
MMC 451				10	41.20	25¼	0.1478
MMC 452				120	48.80	30	0.1227
MMC 453	14.00	10.40	1.80	30	16.40	8½	0.8893
MMC 454				40	20.70	11¼	0.6249
MMC 455				50	25.65	13¾	0.4920
MMC 456				60	30.19	16¼	0.4056
MMC 457				70	35.10	19	0.3400
MMC 458				80	39.60	21½	0.2964
MMC 459				10	48.72	26½	0.2359
MMC 460				120	58.05	31¾	3.1943
MMC 461	14.00	10.00	2.00	30	18.50	8¾	1.3717
MMC 462				40	24.00	11½	0.9746
MMC 463				50	29.14	14	0.7716
MMC 464				60	34.50	16¾	0.6277
MMC 465				70	40.00	19½	0.5291
MMC 466				80	45.50	22¼	0.4572
MMC 467				10	56.00	27½	0.3631
MMC 468				120	66.60	32¾	0.3011
MMC 469	15.00	12.00	1.50	30	12.00	7½	0.3741
MMC 470				40	15.00	9½	0.2743
MMC 471				50	18.20	11½	0.2165
MMC 472				60	21.38	13¾	0.1751
MMC 473				70	24.38	15¾	0.1496
MMC 474				80	27.38	17¾	0.1306
MMC 475				10	33.75	22	0.1028
MMC 476				120	39.75	26	0.0857

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 477	15.00	11.60	1.70	30	14.33	7 ³ / ₄	0.6173
MMC 478				40	18.28	10 ¹ / ₄	0.4303
MMC 479				50	22.10	12 ¹ / ₂	0.3380
MMC 480				60	25.93	14 ³ / ₄	0.2784
MMC 481				70	29.75	17	0.2366
MMC 482				80	33.58	19 ¹ / ₄	0.2057
MMC 483				10	41.23	23 ³ / ₄	0.1632
MMC 484				120	48.88	28 ¹ / ₄	0.1352
MMC485				15.00	11.20	1.90	30
MMC486	40	20.90	10 ¹ / ₂				0.6819
MMC487	50	25.65	13				0.5270
MMC488	60	29.96	15 ¹ / ₄				0.4375
MMC489	70	34.68	17 ³ / ₄				0.3680
MMC490	80	39.18	20				0.3220
MMC491	10	48.45	25				0.2520
MMC492	120	57.48	29 ³ / ₄				0.2088
MMC 493	15.00	10.76	2.12				30
MMC 494				40	23.85	10 ³ / ₄	1.0804
MMC 495				50	29.15	13 ¹ / ₄	0.8403
MMC 496				60	34.45	15 ³ / ₄	0.6875
MMC 497				70	39.75	18 ¹ / ₄	0.5817
MMC 498				80	45.05	20 ³ / ₄	0.5041
MMC 499				10	55.65	25 ³ / ₄	0.398
MMC 500				120	66.00	30 ¹ / ₂	0.3317
MMC 501				16.00	12.80	1.60	40
MMC 502	50	18.40	11				0.2438
MMC 503	60	21.60	13				0.1995
MMC 504	70	24.87	14 ³ / ₄				0.1721
MMC 505	80	27.77	16 ³ / ₄				0.1488
MMC 506	100	34.00	20 ³ / ₄				0.1170
MMC 507	120	40.35	24 ¹ / ₂				0.0975
MMC 508	140	46.40	28 ¹ / ₂				0.0828
MMC 509	16.00	12.40	1.80				40
MMC 510				50	22.05	11 ³ / ₄	0.5688
MMC 511				60	25.71	13 ³ / ₄	0.4664
MMC 512				70	29.70	16	0.3953
MMC 513				80	33.31	18	0.3430
MMC 514				100	40.95	22 ¹ / ₄	0.2712
MMC 515				120	48.60	26 ¹ / ₂	0.2242
MMC 516				140	56.25	30 ³ / ₄	0.1911
MMC 517				16.00	12.00	2.00	40
MMC 518	50	25.50	12 ¹ / ₄				0.5688
MMC 519	60	30.00	14 ¹ / ₂				0.4664
MMC 520	70	34.50	16 ³ / ₄				0.3953
MMC 521	80	39.00	19				0.3430
MMC 522	100	48.00	23 ¹ / ₂				0.2712
MMC 523	120	57.00	28				0.2242
MMC 524	140	66.00	32 ¹ / ₂				0.1911

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 525	16.00	11.52	2.24	40	23.66	10	1.2079
MMC 526				50	29.12	12½	0.9203
MMC 527				60	34.16	14¾	0.7579
MMC 528				70	39.35	17	0.6442
MMC 529				80	44.80	19½	0.5522
MMC 530				100	55.04	24	0.4392
MMC 531				120	65.52	28¾	0.3612
MMC 532				140	76.16	33½	0.3067
MMC533				17.00	13.60	1.70	40
MMC534	50	18.70	10½				0.2743
MMC535	60	22.10	12½				0.2220
MMC536	70	25.08	14¼				0.1903
MMC537	80	28.10	16				0.1665
MMC538	100	34.43	19¾				0.1313
MMC539	120	40.80	23½				0.1084
MMC540	140	47.18	27¼				0.0923
MMC 541	17.00	13.20	1.90				40
MMC 542				50	22.33	11¼	0.4091
MMC 543				60	26.313	13¼	0.3364
MMC 544				70	29.93	15¼	0.2856
MMC 545				80	33.73	17¼	0.2482
MMC 546				100	41.33	21¼	0.1966
MMC 547				120	48.93	25¼	0.1627
MMC 548				140	56.53	29¼	0.1389
MMC 549				17.00	12.76	2.12	40
MMC 550	50	25.44	11½				0.6453
MMC 551	60	30.21	13¾				0.5217
MMC 552	70	34.45	15¾				0.4458
MMC 553	80	39.22	18				0.3831
MMC 554	100	47.88	22				0.3065
MMC 555	120	56.80	26¼				0.2528
MMC 556	140	65.72	30½				0.2151
MMC 557	17.00	12.28	2.36				40
MMC 558				50	28.91	11¾	1.0139
MMC 559				60	34.22	14	0.8238
MMC 560				70	39.53	16¼	0.6937
MMC 561				80	44.84	18½	0.5991
MMC 562				100	54.93	22¾	0.4764
MMC 563				120	65.70	27	0.3954
MMC 564				140	75.92	31½	0.3351
MMC 565				18.00	14.40	1.80	40
MMC 566	50	19.00	10				0.3086
MMC 567	60	22.18	11¾				0.2532
MMC 568	70	25.39	13½				0.2147
MMC 569	80	28.80	15½				0.1828
MMC 570	100	35.10	19				0.1452
MMC 571	120	41.40	22½				0.1204
MMC 572	140	47.70	26				0.1028

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 573	18.00	14.00	2.00	40	18.50	8¾	0.5787
MMC 574				50	22.20	10½	0.4595
MMC 575				60	26.00	12½	0.3720
MMC 576				70	30.00	14½	0.3125
MMC 577				80	34.00	16½	0.2693
MMC 578				100	41.50	20¼	0.2140
MMC 579				120	49.00	24	0.1775
MMC 580				140	56.50	27¾	0.1517
MMC 581	18.00	13.52	2.24	40	21.28	9	0.9187
MMC 582				50	25.76	11	0.7146
MMC 583				60	30.24	13	0.5846
MMC 584				70	34.72	15	0.4947
MMC 585				80	39.20	17	0.4287
MMC 586				100	48.16	21	0.3384
MMC 587				120	57.12	25	0.2796
MMC 588				140	66.08	29	0.2381
MMC 589	18.00	13.00	2.50	40	24.38	9¼	1.4468
MMC 590				50	29.38	11¼	1.1340
MMC 591				60	34.38	13¼	0.9324
MMC 592				70	40.00	15½	0.7770
MMC 593				80	45.00	17½	0.6767
MMC 594				100	55.63	21¾	0.5311
MMC 595				120	66.25	26	0.4370
MMC 596				140	76.48	30	0.3746
MMC 597	19.00	15.20	1.90	40	16.15	8	0.4343
MMC 598				50	19.48	9¾	0.3362
MMC 599				60	22.60	11¼	0.2817
MMC 600				70	25.65	13	0.2369
MMC 601				80	28.98	14¾	0.2044
MMC 602				100	35.31	18	0.1628
MMC 603				120	41.80	21½	0.1336
MMC 604				140	48.00	24¾	0.1145
MMC 605	19.00	14.76	2.12	40	18.55	8¼	0.6719
MMC 606				50	22.55	10	0.5249
MMC 607				60	26.50	12	0.4199
MMC 608				70	30.21	13¾	0.3574
MMC 609				80	33.92	15½	0.3111
MMC 610				100	41.65	19	0.2470
MMC 611				120	49.29	22¾	0.2023
MMC 612				140	56.80	26¼	0.1731
MMC 613	19.00	14.28	2.36	40	21.28	8½	1.0357
MMC 614				50	25.96	10½	0.7920
MMC 615				60	30.47	12¼	0.6568
MMC 616				70	34.81	14¼	0.5496
MMC 617				80	39.53	16¼	0.4724
MMC 618				100	48.38	20	0.3740
MMC 619				120	57.33	23¾	0.3095
MMC 620				140	66.67	27¾	0.2614

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 621	19.00	13.70	2.65	40	24.52	8¾	1.6715
MMC 622				50	29.82	10¾	1.2894
MMC 623				60	35.12	12¾	1.0495
MMC 624				70	40.42	14¾	0.8849
MMC 625				80	45.72	16¾	0.7649
MMC 626				100	56.32	20¾	0.6017
MMC 627				120	66.92	24¾	0.4959
MMC 628				140	77.52	28¾	0.4217
MMC 629	20.00	16.00	2.00	40	16.50	7¾	0.4771
MMC 630				50	19.50	9¼	0.3784
MMC 631				60	23.00	11	0.3048
MMC 632				70	26.00	12½	0.2612
MMC 633				80	29.50	14¼	0.2239
MMC 634				100	36.00	17½	0.1769
MMC 635				120	42.00	20½	0.1482
MMC 636				140	48.50	23¾	0.1261
MMC 637	20.00	15.52	2.25	40	19.04	8	0.7490
MMC 638				50	22.96	9¾	0.5798
MMC 639				60	26.88	11½	0.4730
MMC 640				70	30.63	13	0.4085
MMC 641				80	34.36	14¾	0.3524
MMC 642				100	42.00	18¼	0.2765
MMC 643				120	29.84	21¾	0.2275
MMC 644				140	57.68	25¼	0.1933
MMC 645	20.00	15.00	2.50	40	21.88	8¼	1.1661
MMC 646				50	26.30	10	0.9110
MMC 647				60	31.25	12	0.7288
MMC 648				70	35.63	13¾	0.6203
MMC 649				80	40.00	15½	0.5399
MMC 650				100	49.38	19¼	0.4225
MMC 651				120	58.75	23	0.3470
MMC 652				140	67.50	26½	0.2975
MMC 653	20.00	14.40	2.80	40	24.69	8¼	1.9327
MMC 654				50	30.10	10¼	1.4642
MMC 655				60	35.50	12	1.2079
MMC 656				70	40.60	14	1.0066
MMC 657				80	46.20	16	0.8628
MMC 658				100	56.70	19¾	0.6805
MMC 659				120	67.32	23½	0.5618
MMC 660				140	78.16	27¼	0.4784
MMC 661	22.00	17.52	2.24	50	20.72	8¾	0.4834
MMC 662				60	24.08	10¼	0.3955
MMC 663				70	27.39	11½	0.3434
MMC 664				80	30.67	13	0.2966
MMC 665				100	37.21	16	0.2330
MMC 666				120	43.75	19	0.1919
MMC 667				140	50.4	22	0.1631
MMC 668				160	57.12	25	0.1418

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 669	22.00	17.00	2.50	50	23.75	9	0.7526
MMC 670				60	28.09	10½	0.6198
MMC 671				70	31.88	12¼	0.5140
MMC 672				80	35.89	13¾	0.4483
MMC 673				100	43.75	17	0.3512
MMC 674				120	51.88	20¼	0.2886
MMC 675				140	60.00	23½	0.2450
MMC 676				160	68.13	26¾	0.2128
MMC 677	22.00	16.40	2.80	50	27.30	9¼	1.1978
MMC 678				60	32.20	11	0.9649
MMC 679				70	37.10	12¾	0.8078
MMC 680				80	42.65	14¼	0.7089
MMC 681				100	51.10	17¾	0.5513
MMC 682				120	60.60	21	0.4570
MMC 683				140	70.00	24½	0.3859
MMC 684				160	79.40	27¾	0.3372
MMC 685	22.00	16.00	3.00	50	30.00	9½	1.5747
MMC 686				60	35.25	11¼	1.2767
MMC 687				70	40.15	12¾	1.0986
MMC 688				80	45.29	14½	0.9447
MMC 689				100	55.57	18	0.7381
MMC 690				120	66.00	21½	0.6056
MMC 691				140	76.50	25	0.5134
MMC 692				160	87.00	28½	0.4456
MMC 693	24.00	19.00	2.50	50	21.88	8¼	0.6288
MMC 694				60	25.22	9½	0.5240
MMC 695				70	28.75	11	0.4367
MMC 696				80	32.47	12¼	0.3834
MMC 697				100	39.38	15¼	0.2966
MMC 698				120	46.25	18	0.2456
MMC 699				140	53.13	20¾	0.2096
MMC 700				160	60.29	23½	0.1828
MMC 701	24.00	18.40	2.80	50	25.20	8½	0.9924
MMC 702				60	29.40	10	0.8063
MMC 703				70	33.60	11½	0.6790
MMC 704				80	37.80	13	0.5864
MMC 705				100	46.20	16	0.4607
MMC 706				120	54.60	19	0.3794
MMC 707				140	63.00	22	0.3225
MMC 708				160	71.40	25	0.2804
MMC 709	24.00	18.00	3.00	50	27.75	8¾	1.2957
MMC 710				60	32.25	10¼	1.0602
MMC 711				70	36.75	10¾	0.8970
MMC 712				80	41.25	13¼	0.7774
MMC 713				100	51.00	16½	0.6032
MMC 714				120	60.00	19½	0.4997
MMC 715				140	69.75	22¾	0.4215
MMC 716				160	78.75	25¾	0.3682

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 717	24.00	17.30	3.35	50	30.99	8¾	2.1190
MMC 718				60	36.85	10½	1.6827
MMC 719				70	41.88	12	1.4302
MMC 720				80	47.74	13¾	1.2172
MMC 721				100	58.14	16¾	0.9696
MMC 722				120	68.91	20	0.7946
MMC 723				140	79.69	23¼	0.6730
MMC 724				160	90.46	26½	0.5837
MMC 725	26.00	20.70	2.65	50	21.87	7¾	0.6736
MMC 726				60	25.18	9	0.5533
MMC 727				70	28.49	10¼	0.4695
MMC 728				80	31.80	11½	0.4077
MMC 729				100	38.43	14	0.3227
MMC 730				120	45.72	16¾	0.2626
MMC 731				140	52.34	19¼	0.2245
MMC 732				160	58.97	21¾	0.1961
MMC 733	26.00	20.40	2.80	50	23.10	7¾	0.8560
MMC 734				60	26.94	9	0.7031
MMC 735				70	30.80	10½	0.5790
MMC 736				80	34.30	11¾	0.5048
MMC 737				100	42.14	14¼	0.4018
MMC 738				120	49.15	17	0.3281
MMC 739				140	56.70	19¾	0.2773
MMC 740				160	64.36	22¼	0.2430
MMC 741	26.00	19.70	3.15	50	26.78	8	1.3753
MMC 742				60	31.50	9½	1.1003
MMC 743				70	36.23	11	0.9169
MMC 744				80	40.27	12¼	0.8051
MMC 745				100	49.62	15¼	0.6228
MMC 746				120	58.28	18	0.5157
MMC 747				140	67.73	21	0.4343
MMC 748				160	76.39	23¾	0.3794
MMC 749	26.00	18.90	3.55	50	31.07	8¼	2.2460
MMC 750				60	36.39	9¾	1.8112
MMC 751				70	41.72	11¼	1.5176
MMC 752				80	47.04	12¾	1.3058
MMC 753				100	57.69	15¾	1.0208
MMC 754				120	68.34	18¾	0.8380
MMC 755				140	78.99	21¾	0.7107
MMC 756				160	89.64	24¾	0.6169
MMC 757	28.00	22.40	2.80	60	24.70	8¼	0.6145
MMC 758				70	28.00	9½	0.5121
MMC 759				80	31.50	10¾	0.4389
MMC 760				100	37.86	13	0.3491
MMC 761				120	44.80	15½	0.2845
MMC 762				140	51.10	17¾	0.2438
MMC 763				160	58.10	20¼	0.2104
MMC 764				180	64.40	22½	0.1873

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 765	28.00	21.70	3.15	60	29.14	8¾	0.9505
MMC 766				70	33.08	10	0.8020
MMC 767				80	37.02	11¼	0.6936
MMC 768				100	45.68	14	0.5346
MMC 769				120	53.55	16½	0.4424
MMC 770				140	61.43	19	0.3773
MMC 771				160	70.09	21¾	0.3248
MMC 772				180	77.97	24¼	0.2883
MMC 773				28.00	20.90	3.55	60
MMC 774	70	38.75	10¼				1.3170
MMC 775	80	43.49	11¾				1.1145
MMC 776	100	53.25	14½				0.8692
MMC 777	120	63.02	17¼				0.7125
MMC 778	140	72.78	20				0.6036
MMC 779	160	82.54	22¾				0.5236
MMC 780	180	92.30	25½				0.4623
MMC 781	28.00	20.50	3.75				60
MMC 782				70	41.25	10½	1.6315
MMC 783				80	46.88	12	1.3868
MMC 784				100	57.19	14¾	1.0877
MMC 785				120	67.50	17½	0.8947
MMC 786				140	77.82	20¼	0.7599
MMC 787				160	88.13	23	0.6603
MMC 788				180	98.57	25¾	0.5838
MMC 789	30.00	24.00	3.00	60	25.5	8	0.6858
MMC 790				70	28.5	9	0.5878
MMC 791				80	32.25	10¼	0.4988
MMC 792				100	39	12½	0.3919
MMC 793				120	45.75	14¾	0.3227
MMC 794				140	52.5	17	0.2743
MMC 795				160	58.5	19	0.2420
MMC 796				180	65.25	21¼	0.2137
MMC 797	30.00	23.30	3.35	60	29.32	8¼	1.0645
MMC 798				70	33.5	9½	0.8871
MMC 799				80	37.69	10¾	0.7604
MMC 800				100	45.37	13	0.6048
MMC 801				120	56.6	15½	0.4928
MMC 802				140	61.98	18	0.4158
MMC 803				160	69.52	20¼	0.3646
MMC 804				180	77.89	22¾	0.3206
MMC 805	30.00	22.90	3.55	60	31.95	8½	1.3204
MMC 806				70	36.39	9¾	1.1074
MMC 807				80	40.83	11	0.9536
MMC 808				100	49.70	13½	0.7463
MMC 809				120	58.17	15¾	0.6242
MMC 810				140	66.92	18¼	0.5281
MMC 811				160	75.68	20¾	0.4577
MMC 812				180	84.44	23¼	0.4039

Part no.	Outside Diameter	Inside Diameter	Wire Diameter	Free Length	Minimum Working Length	Total Coils	Spring Rate Kg/mm
MMC 813	30.00	22.00	4.00	60	36.31	8½	2.2407
MMC 814				70	42.00	10	1.8206
MMC 815				80	47.00	11¼	1.5747
MMC 816				100	57.17	13¾	1.2396
MMC 817				120	68.00	16½	1.0045
MMC 818				140	78.03	19	0.8568
MMC 819				160	89.00	21¾	0.7374
MMC 820				180	99.00	24¼	0.6546