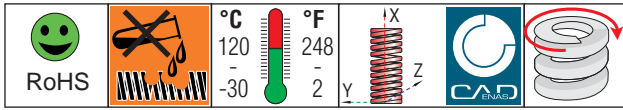
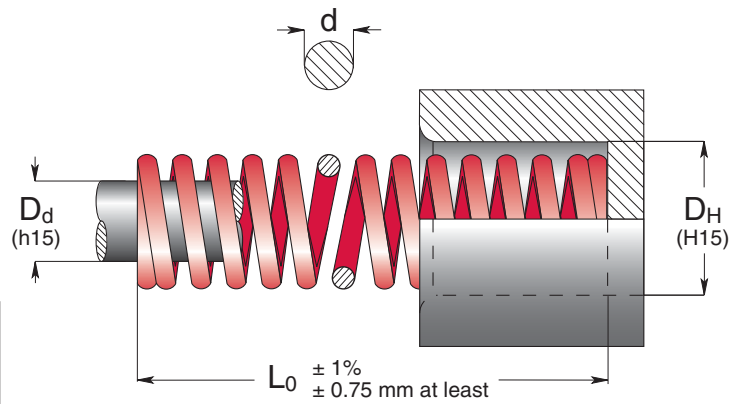


EN Heavy load springs
Red color

ES Muelles carga fuerte
Color rojo

FR Ressorts charge forte
Couleur rouge



| 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 | | 25% L_0 | | 27.5% L_0 | | 30% L_0 | | approx. | |
| | | | | | mm | N | mm | N | mm | N | mm | N | mm | |
| | | | | $\pm 10\%$ | $+ 3.000.000$ | | $\sim 1.500.000$ | | 300 - 500.000 | | 100 - 200.000 | | | |
| | | | | N/mm | mm | N | mm | N | mm | N | mm | N | mm | |
| TR 10 - 025 | 10 | 5 | 25 | 20.7 | 5.0 | 103 | 6.3 | 129 | 6.9 | 142 | 7.5 | 155 | 8.6 | 50 |
| TR 10 - 032 | | | 32 | 16.1 | 6.4 | 103 | 8.0 | 129 | 8.8 | 142 | 9.6 | 155 | 10.9 | 50 |
| TR 10 - 038 | | | 38 | 13.0 | 7.6 | 98 | 9.5 | 123 | 10.5 | 136 | 11.4 | 148 | 13.2 | 50 |
| TR 10 - 044 | | | 44 | 10.9 | 8.8 | 96 | 11.0 | 119 | 12.1 | 132 | 13.2 | 143 | 14.7 | 50 |
| TR 10 - 051 | | | 51 | 9.6 | 10.2 | 98 | 12.8 | 123 | 14.0 | 135 | 15.3 | 147 | 17.8 | 25 |
| TR 10 - 064 | | | 64 | 7.7 | 12.8 | 98 | 16.0 | 123 | 17.6 | 136 | 19.2 | 147 | 22.9 | 25 |
| TR 10 - 076 | | | 76 | 6.3 | 15.2 | 96 | 19.0 | 119 | 20.9 | 132 | 22.8 | 143 | 26.9 | 25 |
| TR 10 - 305 | 1.6 | | 305 | 1.5 | 61.0 | 93 | 76.3 | 116 | 83.9 | 126 | 91.5 | 139 | 110 | 10 |
| TR 13 - 025 | 12.5 | 6.3 | 25 | 37.5 | 5.0 | 187 | 6.3 | 234 | 6.9 | 258 | 7.5 | 281 | 8.9 | 50 |
| TR 13 - 032 | | | 32 | 28.9 | 6.4 | 185 | 8.0 | 231 | 8.8 | 254 | 9.6 | 277 | 11.2 | 50 |
| TR 13 - 038 | | | 38 | 23.5 | 7.6 | 178 | 9.5 | 223 | 10.5 | 246 | 11.4 | 268 | 13.7 | 50 |
| TR 13 - 044 | | | 44 | 19.6 | 8.8 | 173 | 11.0 | 216 | 12.1 | 237 | 13.2 | 259 | 15.7 | 25 |
| TR 13 - 051 | | | 51 | 17.3 | 10.2 | 177 | 12.8 | 221 | 14.0 | 243 | 15.3 | 265 | 18.8 | 25 |
| TR 13 - 064 | | | 64 | 13.5 | 12.8 | 173 | 16.0 | 216 | 17.6 | 238 | 19.2 | 259 | 23.6 | 25 |
| TR 13 - 076 | | | 76 | 11.2 | 15.2 | 170 | 19.0 | 213 | 20.9 | 234 | 22.8 | 256 | 28.4 | 25 |
| TR 13 - 089 | 89 | 9.5 | 17.8 | 168 | 22.3 | 210 | 24.5 | 233 | 26.7 | 252 | 33.0 | 20 | | |
| TR 13 - 305 | 2.2 | | 305 | 2.7 | 61.0 | 162 | 76.3 | 203 | 83.9 | 226 | 91.5 | 244 | 114 | 10 |
| TR 16 - 025 | 16 | 8 | 25 | 81.6 | 5.0 | 408 | 6.3 | 510 | 6.9 | 561 | 7.5 | 612 | 9.1 | 50 |
| TR 16 - 032 | | | 32 | 61.3 | 6.4 | 392 | 8.0 | 490 | 8.8 | 539 | 9.6 | 588 | 11.4 | 50 |
| TR 16 - 038 | | | 38 | 49.9 | 7.6 | 379 | 9.5 | 474 | 10.5 | 521 | 11.4 | 569 | 14.2 | 25 |
| TR 16 - 044 | | | 44 | 40.8 | 8.8 | 359 | 11.0 | 449 | 12.1 | 494 | 13.2 | 539 | 16.3 | 25 |
| TR 16 - 051 | | | 51 | 35.6 | 10.2 | 363 | 12.8 | 453 | 14.0 | 499 | 15.3 | 544 | 18.8 | 25 |
| TR 16 - 064 | | | 64 | 27.8 | 12.8 | 356 | 16.0 | 446 | 17.6 | 489 | 19.2 | 535 | 23.9 | 25 |
| TR 16 - 076 | | | 76 | 22.8 | 15.2 | 346 | 19.0 | 433 | 20.9 | 477 | 22.8 | 519 | 29.0 | 20 |
| TR 16 - 089 | 89 | 19.6 | 17.8 | 349 | 22.3 | 436 | 24.5 | 480 | 26.7 | 524 | 34.3 | 20 | | |
| TR 16 - 102 | | | 102 | 17.0 | 20.4 | 347 | 25.5 | 433 | 28.1 | 477 | 30.6 | 520 | 39.4 | 20 |
| TR 16 - 305 | 2.8 | | 305 | 5.4 | 61.0 | 330 | 76.3 | 413 | 83.9 | 453 | 91.5 | 495 | 119 | 10 |