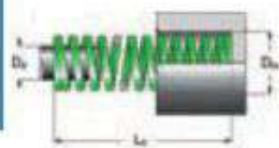


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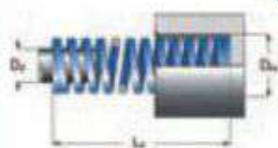
The heat and surface treatment plus the high quality of steel used in the manufacturing process ensure the springs will bear a high number of stresses without breaking or without appreciable loss of load. Every batch of springs is subject to a rigorous testing procedure to ensure that a consistent quality is maintained. Longer springs should be guided along their course.

**Light Load Springs
Colour-Coded Green**



| Product Number | Diameter | | L ₀ (mm) | Rigidity (N/mm) | Weight each | Order Code |
|----------------|----------|----------------|---------------------|-----------------|-------------|------------|
| | DH | D _d | | | | |
| V10 x 25 | 10 | 4.5 | 25 | 10 | 4g | -8000A |
| V10 x 32 | 10 | 4.5 | 32 | 8.5 | 6g | -8001B |
| V10 x 38 | 10 | 4.5 | 38 | 6.8 | 7g | -8002C |
| V10 x 44 | 10 | 4.5 | 44 | 6.0 | 7g | -8003D |
| V10 x 51 | 10 | 4.5 | 51 | 5.0 | 8g | -8004E |
| V10 x 64 | 10 | 4.5 | 64 | 4.3 | 10g | -8005F |
| V10 x 76 | 10 | 4.5 | 76 | 3.2 | 11g | -8006G |
| V10 x 305 | 10 | 4.5 | 305 | 1.1 | 45g | -8007H |
| V13 x 25 | 13 | 7.0 | 25 | 17.9 | 6g | -8108J |
| V13 x 32 | 13 | 7.0 | 32 | 16.4 | 7g | -8109K |
| V13 x 38 | 13 | 7.0 | 38 | 13.6 | 9g | -8110L |
| V13 x 44 | 13 | 7.0 | 44 | 12.1 | 11g | -8111M |
| V13 x 51 | 13 | 7.0 | 51 | 11.4 | 12g | -8112N |
| V13 x 64 | 13 | 7.0 | 64 | 9.3 | 14g | -8113P |
| V13 x 76 | 13 | 7.0 | 76 | 7.1 | 16g | -8114Q |
| V13 x 305 | 13 | 7.0 | 305 | 1.4 | 63g | -8115R |
| V16 x 25 | 16 | 8.0 | 25 | 23.4 | 9g | -8216S |
| V16 x 32 | 16 | 8.0 | 32 | 22.9 | 11g | -8217T |
| V16 x 38 | 16 | 8.0 | 38 | 19.3 | 13g | -8218V |
| V16 x 44 | 16 | 8.0 | 44 | 17.1 | 17g | -8219W |
| V16 x 51 | 16 | 8.0 | 51 | 15.7 | 18g | -8220X |
| V16 x 64 | 16 | 8.0 | 64 | 10.7 | 22g | -8221Y |
| V16 x 76 | 16 | 8.0 | 76 | 10.0 | 26g | -8222Z |
| V16 x 102 | 16 | 8.0 | 102 | 7.8 | 35g | -8224B |
| V20 x 25 | 20 | 10.0 | 25 | 55.8 | 15g | -8326D |
| V20 x 32 | 20 | 10.0 | 32 | 45.0 | 20g | -8327E |
| V20 x 38 | 20 | 10.0 | 38 | 33.30 | 22g | -8328F |
| V20 x 44 | 20 | 10.0 | 44 | 30.0 | 28g | -8329G |
| V20 x 51 | 20 | 10.0 | 51 | 24.5 | 31g | -8330H |
| V20 x 64 | 20 | 10.0 | 64 | 20.0 | 40g | -8331J |
| V20 x 76 | 20 | 10.0 | 76 | 16.0 | 47g | -8332K |
| V20 x 89 | 20 | 10.0 | 89 | 14.0 | 54g | -8333L |
| V20 x 102 | 20 | 10.0 | 102 | 12.0 | 110g | -8334M |
| V20 x 115 | 20 | 10.0 | 115 | 10.9 | 123g | -8335N |
| V20 x 127 | 20 | 10.0 | 127 | 9.5 | 135g | -8336P |
| V20 x 152 | 20 | 10.0 | 152 | 7.5 | 90g | -8338R |
| V25 x 25 | 26 | 12.5 | 25 | 100.0 | 27g | -8440T |
| V25 x 32 | 26 | 12.5 | 32 | 80.3 | 35g | -8441V |
| V25 x 38 | 26 | 12.5 | 38 | 62.0 | 44g | -8442W |
| V25 x 51 | 26 | 12.5 | 51 | 44.0 | 57g | -8444Y |
| V25 x 64 | 26 | 12.5 | 64 | 35.2 | 71g | -8445Z |
| V25 x 76 | 26 | 12.5 | 76 | 28.0 | 87g | -8446A |
| V25 x 89 | 26 | 12.5 | 89 | 29.0 | 96g | -8447B |
| V25 x 102 | 26 | 12.5 | 102 | 21.1 | 110g | -8448C |
| V25 x 115 | 26 | 12.5 | 115 | 18.7 | 125g | -8449D |
| V25 x 127 | 26 | 12.5 | 127 | 16.7 | 135g | -8450E |
| V25 x 152 | 26 | 12.5 | 152 | 14.0 | 165g | -8452G |
| V25 x 203 | 26 | 12.5 | 203 | 10.4 | 215g | -8454J |
| V32 x 38 | 32 | 16.0 | 38 | 94.0 | 60g | -8557M |
| V32 x 76 | 32 | 16.0 | 76 | 44.0 | 132g | -8561R |
| V32 x 115 | 32 | 16.0 | 115 | 29.0 | 190g | -8564V |
| V32 x 152 | 32 | 16.0 | 152 | 21.5 | 262g | -8567Y |
| V32 x 178 | 32 | 16.0 | 178 | 18.2 | 300g | -8568Z |
| V32 x 203 | 32 | 16.0 | 203 | 1.40 | 350g | -8569K |
| V40 x 64 | 40 | 20.0 | 64 | 73.0 | 165g | -8673E |
| V40 x 102 | 40 | 20.0 | 102 | 43.0 | 247g | -8676H |
| V50 x 64 | 50 | 25.0 | 64 | 156.0 | 305g | -8785S |
| V50 x 76 | 50 | 25.0 | 76 | 125.0 | 450g | -8786T |
| V50 x 102 | 50 | 25.0 | 102 | 94.0 | 470g | -8788W |
| V50 x 115 | 50 | 25.0 | 115 | 81.0 | 590g | -8789X |

**Medium Load Springs
Colour-Coded Blue**



| Product Number | Diameter | | L ₀ (mm) | Rigidity (N/mm) | Weight each | Order Code |
|----------------|----------|----------------|---------------------|-----------------|-------------|------------|
| | DH | D _d | | | | |
| B10 x 25 | 10 | 4.5 | 25 | 16.0 | 3g | -6000A |
| B10 x 32 | 10 | 4.5 | 32 | 13.0 | 4g | -6001B |
| B10 x 38 | 10 | 5.0 | 44 | 11.9 | 4g | -6002C |
| B10 x 44 | 10 | 4.5 | 44 | 10.3 | 5g | -6003D |
| B10 x 51 | 10 | 4.5 | 51 | 8.9 | 7g | -6004E |
| B10 x 64 | 10 | 4.5 | 64 | 7.5 | 9g | -6005F |
| B10 x 76 | 10 | 4.5 | 76 | 5.3 | 11g | -6006G |
| B10 x 305 | 10 | 4.5 | 305 | 1.6 | 45g | -6007H |
| B13 x 25 | 13 | 7.0 | 25 | 30.0 | 6g | -6108J |
| B13 x 32 | 13 | 7.0 | 32 | 24.8 | 8g | -6109K |
| B13 x 38 | 13 | 7.0 | 38 | 21.4 | 10g | -6110L |
| B13 x 44 | 13 | 7.0 | 44 | 18.5 | 12g | -6111M |
| B13 x 51 | 13 | 7.0 | 51 | 15.5 | 13g | -6112N |
| B13 x 64 | 13 | 7.0 | 64 | 12.1 | 15g | -6113P |
| B13 x 76 | 13 | 7.0 | 76 | 10.2 | 17g | -6114Q |
| B13 x 305 | 13 | 7.0 | 305 | 2.1 | 73g | -6115R |
| B16 x 25 | 16 | 8.0 | 25 | 49.4 | 12g | -6216S |
| B16 x 32 | 16 | 8.0 | 32 | 37.1 | 14g | -6217T |
| B16 x 38 | 16 | 8.0 | 38 | 33.9 | 15g | -6218V |
| B16 x 44 | 16 | 8.0 | 44 | 30.0 | 19g | -6219W |
| B16 x 51 | 16 | 8.0 | 51 | 26.4 | 21g | -6220X |
| B16 x 64 | 16 | 8.0 | 64 | 20.5 | 27g | -6221Y |
| B16 x 76 | 16 | 8.0 | 76 | 17.8 | 33g | -6222Z |
| B16 x 102 | 16 | 8.0 | 102 | 13.5 | 43g | -6224B |
| B20 x 25 | 20 | 10.0 | 25 | 98.0 | 19g | -6326D |
| B20 x 32 | 20 | 10.0 | 32 | 72.6 | 23g | -6327E |
| B20 x 38 | 20 | 10.0 | 38 | 56.0 | 26g | -6328F |
| B20 x 44 | 20 | 10.0 | 44 | 47.5 | 32g | -6329G |
| B20 x 51 | 20 | 10.0 | 51 | 41.7 | 35g | -6330H |
| B20 x 64 | 20 | 10.0 | 64 | 32.3 | 46g | -6331J |
| B20 x 76 | 20 | 10.0 | 76 | 25.1 | 55g | -6332K |
| B20 x 89 | 20 | 10.0 | 89 | 22.0 | 61g | -6333L |
| B20 x 102 | 20 | 10.0 | 102 | 19.8 | 68g | -6334M |
| B20 x 127 | 20 | 10.0 | 127 | 16.6 | 85g | -6336P |
| B20 x 152 | 20 | 10.0 | 152 | 1.30 | 103g | -6338R |
| B25 x 25 | 26 | 12.5 | 25 | 147.0 | 33g | -6440T |
| B25 x 32 | 26 | 12.5 | 32 | 118.0 | 42g | -6441V |
| B25 x 38 | 26 | 12.5 | 38 | 93.0 | 48g | -6442W |
| B25 x 44 | 26 | 12.5 | 44 | 80.8 | 56g | -6443X |
| B25 x 51 | 26 | 12.5 | 51 | 68.6 | 65g | -6444Y |
| B25 x 64 | 26 | 12.5 | 64 | 53.0 | 90g | -6445Z |
| B25 x 76 | 26 | 12.5 | 76 | 43.2 | 96g | -6446A |
| B25 x 89 | 26 | 12.5 | 89 | 38.2 | 118g | -6447B |
| B25 x 102 | 26 | 12.5 | 102 | 33.0 | 131g | -6448C |
| B25 x 152 | 26 | 12.5 | 152 | 20.8 | 190g | -6452G |
| B32 x 38 | 32 | 16.0 | 38 | 185.0 | 80g | -6557M |
| B32 x 44 | 32 | 16.0 | 44 | 158.0 | 90g | -6558N |
| B32 x 51 | 32 | 16.0 | 51 | 134.0 | 100g | -6559P |
| B32 x 64 | 32 | 16.0 | 64 | 99.0 | 130g | -6560Q |
| B32 x 76 | 32 | 16.0 | 76 | 80.5 | 152g | -6561R |
| B32 x 102 | 32 | 16.0 | 102 | 58.8 | 203g | -6563T |
| B32 x 115 | 32 | 16.0 | 115 | 51.5 | 223g | -6564V |
| B32 x 127 | 32 | 16.0 | 127 | 44.8 | 252g | -6565W |
| B32 x 152 | 32 | 16.0 | 152 | 37.8 | 292g | -6567Y |
| B32 x 178 | 32 | 16.0 | 178 | 32.5 | 320g | -6568Z |
| B40 x 51 | 40 | 20.0 | 51 | 181.6 | 157g | -6672D |
| B40 x 64 | 40 | 20.0 | 64 | 140.0 | 194g | -6673E |
| B40 x 89 | 40 | 20.0 | 89 | 90.7 | 265g | -6675G |
| B40 x 102 | 40 | 20.0 | 102 | 81.0 | 300g | -6676H |
| B50 x 64 | 51 | 25.0 | 65 | 209.0 | 340g | -6785S |
| B50 x 76 | 51 | 25.0 | 76 | 168.0 | 395g | -6786T |

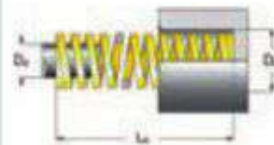
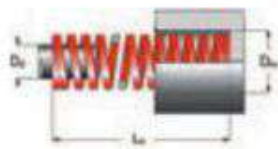
INDEXA Die Springs

The heat and surface treatment plus the high quality of steel used in the manufacturing process ensure the springs will bear a high number of stresses without breaking or without appreciable loss of load. Every batch of springs is subject to a rigorous testing procedure to ensure that a consistent quality is maintained. Longer springs should be guided along their course.

Heavy-Load Springs
Colour Coded Red



Extra Heavy-Load Springs
Colour Coded Yellow



| Product Number | Diameter DH | Dd | L0 (mm) | Rigidity (N/mm) | Weight each | Order Code IND-460 |
|----------------|-------------|------|---------|-----------------|-------------|--------------------|
| R10 x 25 | 10 | 4.5 | 25 | 22.10 | 4g | -1000A |
| R10 x 32 | 10 | 4.5 | 32 | 17.50 | 5g | -1001B |
| R10 x 38 | 10 | 4.5 | 38 | 17.10 | 6g | -1002C |
| R10 x 44 | 10 | 5.0 | 180 | 15.00 | 8g | -1003D |
| R10 x 51 | 10 | 4.5 | 51 | 12.80 | 8g | -1004E |
| R10 x 64 | 10 | 4.5 | 64 | 10.7 | 11g | -1005F |
| R13 x 25 | 13 | 7.0 | 25 | 42.1 | 12g | -1108J |
| R13 x 38 | 13 | 7.0 | 38 | 29.3 | 13g | -1110L |
| R13 x 44 | 13 | 7.0 | 44 | 24.6 | 15g | -1111M |
| R13 x 51 | 13 | 7.0 | 51 | 19.6 | 17g | -1112N |
| R13 x 64 | 13 | 7.0 | 64 | 15.0 | 21g | -1113P |
| R13 x 76 | 13 | 7.0 | 76 | 13.2 | 24g | -1114Q |
| R16 x 25 | 16 | 8.0 | 25 | 75.7 | 12g | -1216S |
| R16 x 32 | 16 | 8.0 | 32 | 52.8 | 14g | -1217T |
| R16 x 38 | 16 | 8.0 | 38 | 48.5 | 17g | -1218V |
| R16 x 44 | 16 | 8.0 | 44 | 42.8 | 20g | -1219W |
| R16 x 51 | 16 | 8.0 | 51 | 37.1 | 23g | -1220X |
| R16 x 64 | 16 | 8.0 | 64 | 30.3 | 27g | -1221Y |
| R16 x 76 | 16 | 8.0 | 76 | 25.7 | 34g | -1222Z |
| R20 x 25 | 20 | 10.0 | 25 | 216.0 | 20g | -1326D |
| R20 x 32 | 20 | 10.0 | 32 | 168.0 | 28g | -1327E |
| R20 x 38 | 20 | 10.0 | 38 | 129.0 | 32g | -1328F |
| R20 x 44 | 20 | 10.0 | 44 | 112.0 | 38g | -1329G |
| R20 x 51 | 20 | 10.0 | 51 | 94.0 | 44g | -1330H |
| R20 x 64 | 20 | 10.0 | 64 | 72.1 | 54g | -1331J |
| R20 x 76 | 20 | 10.0 | 76 | 59.7 | 63g | -1332K |
| R20 x 89 | 20 | 10.0 | 89 | 50.5 | 75g | -1333L |
| R20 x 102 | 20 | 10.0 | 102 | 44.2 | 88g | -1334M |
| R20 x 127 | 20 | 10.0 | 127 | 34.1 | 107g | -1336P |
| R25 x 32 | 26 | 12.5 | 32 | 297.0 | 48g | -1441V |
| R25 x 38 | 26 | 12.5 | 38 | 219.0 | 56g | -1442W |
| R25 x 44 | 26 | 12.5 | 44 | 187.0 | 57g | -1443X |
| R25 x 51 | 26 | 12.5 | 51 | 156.0 | 63g | -1444Y |
| R25 x 64 | 26 | 12.5 | 64 | 123.0 | 85g | -1445Z |
| R25 x 76 | 26 | 12.5 | 76 | 99.0 | 110g | -1446A |
| R25 x 89 | 26 | 12.5 | 89 | 84.0 | 139g | -1447B |
| R25 x 102 | 26 | 12.5 | 102 | 73.0 | 144g | -1448C |
| R25 x 115 | 26 | 12.5 | 115 | 65.0 | 168g | -1449D |
| R25 x 127 | 26 | 12.5 | 127 | 57.7 | 182g | -1450E |
| R25 x 152 | 26 | 12.5 | 152 | 47.8 | 222g | -1452G |
| R32 x 38 | 32 | 16.0 | 38 | 388.0 | 93g | -1557M |
| R32 x 44 | 32 | 16.0 | 44 | 324.0 | 105g | -1558N |
| R32 x 51 | 32 | 16.0 | 51 | 272.0 | 117g | -1559P |
| R32 x 64 | 32 | 16.0 | 64 | 212.0 | 148g | -1560Q |
| R32 x 76 | 32 | 16.0 | 76 | 172.0 | 178g | -1561R |
| R32 x 89 | 32 | 16.0 | 89 | 141.0 | 204g | -1562S |
| R32 x 102 | 32 | 16.0 | 102 | 122.0 | 230g | -1563T |
| R32 x 152 | 32 | 16.0 | 152 | 78.0 | 380g | -1567Y |
| R32 x 178 | 32 | 16.0 | 178 | 67.2 | 410g | -1568Z |
| R40 x 51 | 40 | 20.0 | 51 | 350.0 | 181g | -1672D |
| R40 x 64 | 40 | 20.0 | 64 | 269.0 | 220g | -1673E |
| R40 x 76 | 40 | 20.0 | 76 | 219.0 | 261g | -1674F |
| R40 x 102 | 40 | 20.0 | 102 | 163.0 | 341g | -1676H |
| R40 x 127 | 40 | 20.0 | 127 | 128.0 | 420g | -1678K |
| R40 x 152 | 40 | 20.0 | 152 | 105.0 | 500g | -1680M |
| R50 x 64 | 51 | 25.0 | 64 | 413.0 | 416g | -1785S |
| R50 x 76 | 51 | 25.0 | 76 | 339.0 | 438g | -1786T |

| Product Number | Diameter DH | Dd | L0 (mm) | Rigidity (N/mm) | Weight each | Order Code IND-460 |
|----------------|-------------|------|---------|-----------------|-------------|--------------------|
| G10 x 25 | 10 | 4.5 | 25 | 36.8 | 5g | -3000A |
| G10 x 32 | 10 | 4.5 | 32 | 27.9 | 7g | -3001B |
| G10 x 38 | 10 | 4.5 | 38 | 23.7 | 8g | -3002C |
| G10 x 44 | 10 | 4.5 | 44 | 19.2 | 9g | -3003D |
| G10 x 51 | 10 | 4.5 | 51 | 16.5 | 10g | -3004E |
| G10 x 64 | 10 | 5.0 | 64 | 13.2 | 11g | -3005F |
| G13 x 25 | 13 | 7.0 | 25 | 58.5 | 11g | -3108J |
| G13 x 32 | 13 | 7.0 | 32 | 43.9 | 11g | -3109K |
| G13 x 38 | 13 | 7.0 | 38 | 3.70 | 13g | -3110L |
| G13 x 44 | 13 | 7.0 | 44 | 30.3 | 15g | -3111M |
| G13 x 51 | 13 | 7.0 | 51 | 26.2 | 80g | -3112N |
| G13 x 64 | 13 | 7.0 | 64 | 21.2 | 22g | -3113P |
| G16 x 32 | 16 | 8.0 | 32 | 89.0 | 17g | -3217T |
| G16 x 38 | 16 | 8.0 | 38 | 72.1 | 22g | -3218V |
| G16 x 44 | 16 | 8.0 | 44 | 60.9 | 25g | -3219W |
| G16 x 51 | 16 | 8.0 | 51 | 52.3 | 29g | -3220X |
| G16 x 64 | 16 | 8.0 | 64 | 41.2 | 36g | -3221Y |
| G16 x 76 | 16 | 8.0 | 76 | 34.1 | 42g | -3222Z |
| G20 x 25 | 20 | 10.0 | 25 | 293.0 | 23g | -3326D |
| G20 x 32 | 20 | 10.0 | 32 | 224.0 | 28g | -3327E |
| G20 x 38 | 20 | 10.0 | 38 | 177.0 | 33g | -3328F |
| G20 x 44 | 20 | 10.0 | 44 | 149.0 | 39g | -3329G |
| G20 x 51 | 20 | 10.0 | 51 | 128.0 | 45g | -3330H |
| G20 x 64 | 20 | 10.0 | 64 | 99.0 | 56g | -3331J |
| G20 x 76 | 20 | 10.0 | 76 | 81.7 | 64g | -3332K |
| G20 x 89 | 20 | 10.0 | 89 | 69.5 | 73g | -3333L |
| G20 x 102 | 20 | 10.0 | 102 | 60.6 | 86g | -3334M |
| G25 x 32 | 26 | 12.5 | 32 | 374.4 | 48g | -3441V |
| G25 x 38 | 26 | 12.5 | 38 | 346.0 | 60g | -3442W |
| G25 x 44 | 26 | 12.5 | 44 | 244.0 | 70g | -3443X |
| G25 x 51 | 26 | 12.5 | 51 | 207.5 | 80g | -3444Y |
| G25 x 64 | 26 | 12.5 | 64 | 161.0 | 99g | -3445Z |
| G25 x 76 | 26 | 12.5 | 76 | 130.8 | 114g | -3446A |
| G25 x 89 | 26 | 12.5 | 89 | 110.5 | 134g | -3447B |
| G25 x 102 | 26 | 12.5 | 102 | 96.3 | 151g | -3448C |
| G25 x 115 | 25 | 12.5 | 115 | 85.7 | 174g | -3449D |
| G32 x 38 | 32 | 16.0 | 38 | 528.2 | 98g | -3557M |
| G32 x 44 | 32 | 16.0 | 44 | 424.4 | 115g | -3558N |
| G32 x 51 | 32 | 16.0 | 51 | 353.0 | 131g | -3559P |
| G32 x 64 | 32 | 16.0 | 64 | 269.2 | 163g | -3560Q |
| G32 x 76 | 32 | 16.0 | 76 | 218.5 | 200g | -3561R |
| G32 x 102 | 32 | 16.0 | 102 | 155.0 | 252g | -3563T |
| G32 x 140 | 32 | 16.0 | 140 | 112.3 | 350g | -3566X |
| G32 x 152 | 32 | 16.0 | 152 | 102.0 | 380g | -3567Y |
| G40 x 51 | 40 | 20.0 | 51 | 628.0 | 190g | -3672D |
| G40 x 64 | 40 | 20.0 | 64 | 487.0 | 238g | -3673E |
| G40 x 76 | 40 | 20.0 | 76 | 379.0 | 275g | -3674F |
| G40 x 89 | 40 | 20.0 | 89 | 321.0 | 330g | -3675G |
| G50 x 64 | 50 | 25.0 | 64 | 709.0 | 410g | -3785S |
| G50 x 89 | 51 | 25.0 | 89 | 475.0 | 593g | -3787V |