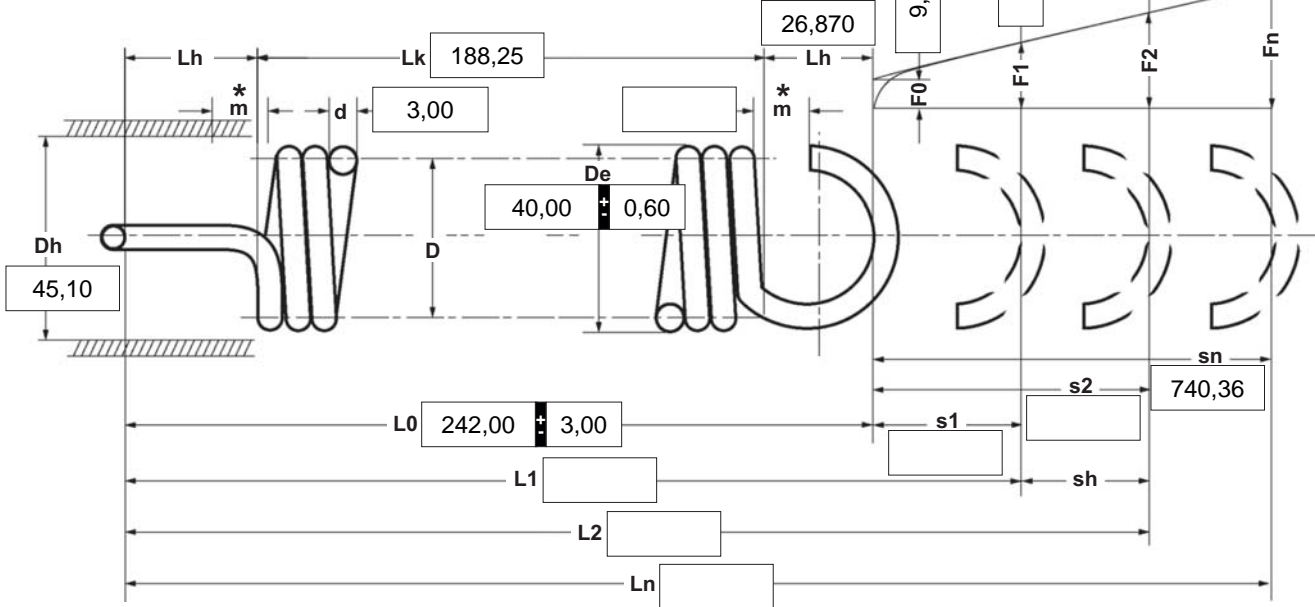


|       |                                  |        |                               |
|-------|----------------------------------|--------|-------------------------------|
| d mm  | Wire diameter                    | L1 mm  | Prestressed spring length     |
| D mm  | Mean coil diameter               | L2 mm  | Loaded spring length          |
| De mm | Outer coil diameter              | Ln mm  | Maximum spring length         |
| Dh mm | Minimum diameter of bush         | m mm   | Loop opening width            |
| F0 N  | Initial tension                  | n pc.  | Number of aktive coils        |
| F1 N  | Prestressed spring force         | nt pc. | Total number of coils         |
| F2 N  | Loaded spring force              | s1 mm  | Prestressed spring deflection |
| Fn N  | Maximum spring force             | s2 mm  | Loaded spring deflection      |
| Lh mm | Loop height                      | sn mm  | Maximum spring deflection     |
| Lk mm | Lenght of unstressed spring body | sh mm  | Excursion                     |
| L0 mm | Unstressed spring length         | R N/mm | Spring rate                   |

Weight g Weight of one spring

\*Loops are stocked without openings (m = 0,00). However it is possible to have an opening cut into the loop at an extra cost, without causing any delay.

10,03  
+  
176,90



n  nt  R 0,227 Weight 412,550

Spring test acc. to DIN ISO 2859/1 test level II

| <b>1 Coiling direction</b><br><input type="checkbox"/> left <input checked="" type="checkbox"/> right  |                                     | <b>4 Stress cyc. end. N</b> <input type="text"/>   |                                     | <b>10 Tolerances to DIN 2097</b>  |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
|--|-------------------------------------|--|-------------------------------------|---|-------------------------------------|---------------------|---------------------|----|-----------|-------|-----------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <b>2 Loop shape and loop position</b><br>Loop shape: 1/1 German loop<br>Loops offset to one another by <input type="text"/> 270,0 <input type="text"/> 58,0 degrees (in the dir. of the right helix) |                                     | <b>5 Stress cycle frequ. n</b> <input type="text"/> / <input type="text"/>   |                                     | <table border="1"> <thead> <tr> <th>Grade</th> <th>De,Di,D</th> <th>L0</th> <th>F0-Fn</th> <th>Loops</th> <th>Wire diameter d to DIN 2076</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>2</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>3</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> |                                     | Grade               | De,Di,D             | L0 | F0-Fn     | Loops | Wire diameter d to DIN 2076 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 3   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Grade  | De,Di,D                             | L0   | F0-Fn                               | Loops   | Wire diameter d to DIN 2076         |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 1  | <input type="checkbox"/>            | <input type="checkbox"/>   | <input type="checkbox"/>            | <input type="checkbox"/>  | <input type="checkbox"/>            |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 2  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   | <input checked="" type="checkbox"/> |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 3  | <input type="checkbox"/>            | <input type="checkbox"/>   | <input type="checkbox"/>            | <input type="checkbox"/>  | <input checked="" type="checkbox"/> |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| <b>3 Excursion sh</b> <input type="text"/> mm  |                                     | <b>6 Application temp.</b> <input type="text"/> °C   |                                     | <b>11 Production compensation through</b>   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| <b>7 Material</b><br>EN 10270-3-1.4310   |                                     | <b>8 Wire or rod surface</b><br><input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut |                                     | A spring resistance, associated length of tensed spring and L0: F0, D <input checked="" type="checkbox"/><br>A spring resistance, associated length of tensed spring and F0: L0, n, d <input type="checkbox"/><br>L0, D <input type="checkbox"/><br>Two spring resistances and associated length of tensed spring: L0, n, d <input type="checkbox"/><br>F0, D <input type="checkbox"/>  |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| <b>9 Surface treatment</b> <input type="text"/>  |                                     | <b>Prices</b>  |                                     | <table border="1"> <thead> <tr> <th>Cantidad progresiva</th> <th>Precio unidad [EUR]</th> </tr> </thead> <tbody> <tr><td>1</td><td>12,9200 €</td></tr> <tr><td>2</td><td>10,2900 €</td></tr> <tr><td>3</td><td>5,8600 €</td></tr> <tr><td>7</td><td>3,7100 €</td></tr> <tr><td>17</td><td>3,7100 €</td></tr> <tr><td>37</td><td>3,7100 €</td></tr> <tr><td>75</td><td>3,7100 €</td></tr> <tr><td>125</td><td>3,7100 €</td></tr> <tr><td>175</td><td>3,7100 €</td></tr> <tr><td>250</td><td>3,7100 €</td></tr> <tr><td>350</td><td>3,7100 €</td></tr> </tbody> </table>  |                                     | Cantidad progresiva | Precio unidad [EUR] | 1  | 12,9200 € | 2     | 10,2900 €                   | 3 | 5,8600 €                 | 7                        | 3,7100 €                 | 17                       | 3,7100 €                 | 37 | 3,7100 €                            | 75                                  | 3,7100 €                            | 125                                 | 3,7100 €                            | 175 | 3,7100 €                 | 250                      | 3,7100 €                 | 350                      | 3,7100 €                            |
| Cantidad progresiva  | Precio unidad [EUR]                 |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 1  | 12,9200 €                           |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 2  | 10,2900 €                           |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 3  | 5,8600 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 7  | 3,7100 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 17   | 3,7100 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 37   | 3,7100 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 75   | 3,7100 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 125  | 3,7100 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 175  | 3,7100 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 250  | 3,7100 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |
| 350  | 3,7100 €                            |  |                                     |   |                                     |                     |                     |    |           |       |                             |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |

**Remarks**  
 País de origen: DE | Número de arancel aduanero: 73202085