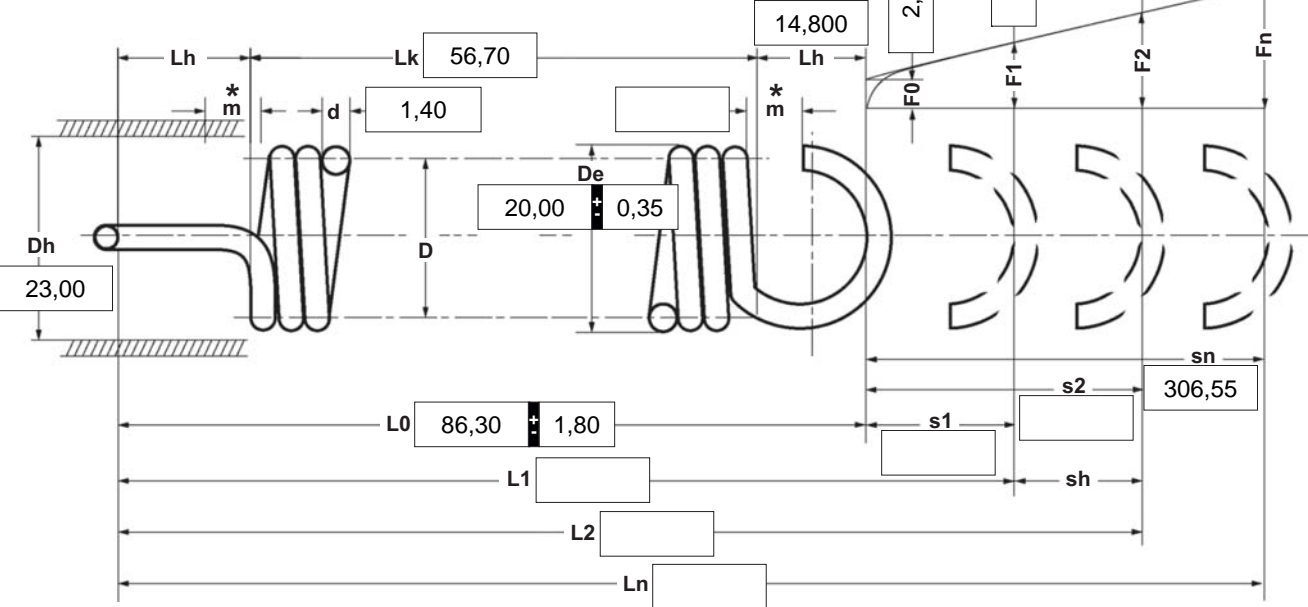


|       |                                  |        |                               |
|-------|----------------------------------|--------|-------------------------------|
| d mm  | Wire diameter                    | L1 mm  | Prestressed spring length     |
| D mm  | Mean coil diameter               | 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.



n  nt  R 0,154 Weight 29,339

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: <input type="text" value="1/1 German loop"/><br>Loops offset to one another by <input type="text" value="180,0"/> $\pm$ <input type="text" value="48,0"/> 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><input type="text" value="EN 10270-1"/>  |   | <b>8 Wire or rod surface</b><br><input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut |                                     | <table border="1"> <tr> <td>A spring resistance, associated length of tensed spring and L0</td> <td>F0, D <input checked="" type="checkbox"/></td> </tr> <tr> <td>A spring resistance, associated length of tensed spring and F0</td> <td>L0, n, d <input type="checkbox"/><br/>L0, D <input type="checkbox"/></td> </tr> <tr> <td>Two spring resistances and associated length of tensed spring</td> <td>L0, n, d <input type="checkbox"/><br/>F0, D <input type="checkbox"/></td> </tr> </table>  |                                     | A spring resistance, associated length of tensed spring and L0 | F0, D <input checked="" type="checkbox"/> | A spring resistance, associated length of tensed spring and F0 | L0, n, d <input type="checkbox"/><br>L0, D <input type="checkbox"/> | Two spring resistances and associated length of tensed spring | L0, n, d <input type="checkbox"/><br>F0, D <input type="checkbox"/> |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| A spring resistance, associated length of tensed spring and L0  | F0, D <input checked="" type="checkbox"/>                           |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| A spring resistance, associated length of tensed spring and F0  | L0, n, d <input type="checkbox"/><br>L0, D <input type="checkbox"/> |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 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>Mennyiségi lépcsők</th> <th>Egységár (EUR)</th> </tr> </thead> <tbody> <tr><td>1</td><td>6,0900 €</td></tr> <tr><td>2</td><td>3,8400 €</td></tr> <tr><td>3</td><td>2,2300 €</td></tr> <tr><td>7</td><td>1,8600 €</td></tr> <tr><td>17</td><td>0,9400 €</td></tr> <tr><td>37</td><td>0,5800 €</td></tr> <tr><td>75</td><td>0,4000 €</td></tr> <tr><td>125</td><td>0,3775 €</td></tr> <tr><td>175</td><td>0,3713 €</td></tr> <tr><td>250</td><td>0,3676 €</td></tr> <tr><td>350</td><td>0,3582 €</td></tr> <tr><td>450</td><td>0,3516 €</td></tr> </tbody> </table>   |                                     | Mennyiségi lépcsők   | Egységár (EUR)                            | 1  | 6,0900 €  | 2   | 3,8400 €  | 3 | 2,2300 €                 | 7                        | 1,8600 €                 | 17                       | 0,9400 €                 | 37 | 0,5800 €                            | 75                                  | 0,4000 €                            | 125                                 | 0,3775 €                            | 175 | 0,3713 €                 | 250                      | 0,3676 €                 | 350                      | 0,3582 €                            | 450 | 0,3516 € |
| Mennyiségi lépcsők  | Egységár (EUR)  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 1   | 6,0900 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 2   | 3,8400 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 3   | 2,2300 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 7   | 1,8600 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 17  | 0,9400 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 37  | 0,5800 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 75  | 0,4000 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 125   | 0,3775 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 175   | 0,3713 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 250   | 0,3676 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 350   | 0,3582 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |
| 450   | 0,3516 €  |  |                                     |   |                                     |  |   |  |   |   |   |   |                          |                          |                          |                          |                          |    |                                     |                                     |                                     |                                     |                                     |     |                          |                          |                          |                          |                                     |     |          |

**Remarks**  
 Származási ország: DE | Vámtarifaszám: 73202085