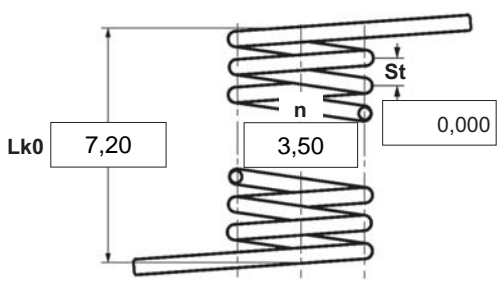





- α degree Unstressed leg position
- α1 degree Prestressed rotational angle
- α2 degree Loaded rotational angle
- αh degree Excursion
- αn degree Maximum rotational angle
- d mm Wire diameter
- Ddmin mm Min. possible mandrel diameter
- Ddmax mm Max. possible mandrel diameter
- De mm Outer coil diameter
- Di mm Inner coil diameter
- F1 N Prestressed spring force
- F2 N Loaded spring force
- Lk0 mm Length of spring body when relaxed
- LS mm Length of leg
- M1 Nmm Prestressed torque
- M2 Nmm Loaded torque
- Mn Nmm Maximum torque
- n pc. Active coils
- RH mm Distance power flow point from centre
- St mm Distance between coils (pitch)
- Weight g Weight of one spring in grammes



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>5 Excursion αh</b> <input type="text"/> degr.   | <b>12 Tolerances to DIN 2194</b> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Grade</th> <th>Di</th> <th>Lk0</th> <th>LSH,LSR</th> <th>α, α1, α2</th> <th>M1, M2</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> <td></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> <td></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 type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> | Grade  | Di                                  | Lk0                                 | LSH,LSR   | α, α1, α2 | M1, M2                   | 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 type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--|--|--|-------------------------------------|-------------------------------------|---|-----------|--------------------------|-----------------------------|----------|--------------------------|---|--------------------------|--------------------------|--------------------------|----------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----|----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| Grade   | Di   | Lk0  | LSH,LSR  | α, α1, α2                           | M1, M2                              | 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 type="checkbox"/>            | <input checked="" type="checkbox"/>                   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| <b>2 Form of legs</b><br>tangential, straight, no bends * <br>*We can also supply torsion springs with any form of leg for an extra charge.  | <b>6 Stress cyc. end. N</b> <input type="text"/>   | <b>7 Stress cycle frequ. n</b> <input type="text"/> / <input type="text"/>   |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| <b>3 Fixing</b><br>Recumbent leg <input type="checkbox"/> Lever leg <input type="checkbox"/>  | <b>8 Application temp.</b> <input type="text"/> °C | <b>13 Production compensation through</b> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tbody> <tr> <td>A spring torque and the associated swing angle</td> <td>α</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>A spring torque and the associated swing angle and α0</td> <td>n, d</td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>n, Di</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Two spring resistances and the associated swing angle</td> <td>α, n, d</td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td>α, n, Di</td> <td><input type="checkbox"/></td> </tr> </tbody> </table>  | A spring torque and the associated swing angle | α                                   | <input checked="" type="checkbox"/> | A spring torque and the associated swing angle and α0 | n, d      | <input type="checkbox"/> |                             | n, Di    | <input type="checkbox"/> | Two spring resistances and the associated swing angle | α, n, d                  | <input type="checkbox"/> |                          | α, n, Di | <input type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| A spring torque and the associated swing angle  | α  | <input checked="" type="checkbox"/>  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| A spring torque and the associated swing angle and α0   | n, d   | <input type="checkbox"/>   |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
|   | n, Di  | <input type="checkbox"/>   |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| Two spring resistances and the associated swing angle   | α, n, d  | <input type="checkbox"/>   |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
|   | α, n, Di   | <input type="checkbox"/>   |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| <b>4 Load</b><br><input type="checkbox"/> in winding direction<br><input type="checkbox"/> against winding direction  | <b>9 Material</b><br>EN 10270-3-1.4310             | <b>10 Wire or rod surface</b><br><input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| <b>Remarks</b><br>Származási ország: DE   Vámtarifaszám: 73202089   | <b>11 Surface treatment</b> <input type="text"/>   | <b>Prices</b> <table style="width: 100%; font-size: small;"> <thead> <tr> <th>Mennyiségi lépcsők</th> <th>Egységár (EUR)</th> </tr> </thead> <tbody> <tr><td>1</td><td>5,2700 €</td></tr> <tr><td>2</td><td>3,7200 €</td></tr> <tr><td>3</td><td>3,5400 €</td></tr> <tr><td>7</td><td>2,5100 €</td></tr> <tr><td>17</td><td>1,2200 €</td></tr> <tr><td>37</td><td>0,9000 €</td></tr> <tr><td>75</td><td>0,7300 €</td></tr> <tr><td>125</td><td>0,5070 €</td></tr> <tr><td>175</td><td>0,4444 €</td></tr> <tr><td>250</td><td>0,4132 €</td></tr> <tr><td>350</td><td>0,3853 €</td></tr> <tr><td>450</td><td>0,3536 €</td></tr> </tbody> </table>  | Mennyiségi lépcsők                             | Egységár (EUR)                      | 1                                   | 5,2700 €  | 2         | 3,7200 €                 | 3                           | 3,5400 € | 7                        | 2,5100 €  | 17                       | 1,2200 €                 | 37                       | 0,9000 € | 75                       | 0,7300 €                            | 125                                 | 0,5070 €                            | 175                                 | 0,4444 €                            | 250 | 0,4132 € | 350                      | 0,3853 €                 | 450                      | 0,3536 €                 |                          |                                     |
| Mennyiségi lépcsők  | Egységár (EUR)                                     |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 1   | 5,2700 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 2   | 3,7200 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 3   | 3,5400 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 7   | 2,5100 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 17  | 1,2200 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 37  | 0,9000 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 75  | 0,7300 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 125   | 0,5070 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 175   | 0,4444 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 250   | 0,4132 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 350   | 0,3853 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |
| 450   | 0,3536 €   |  |  |                                     |                                     |   |           |                          |                             |          |                          |   |                          |                          |                          |          |                          |                                     |                                     |                                     |                                     |                                     |     |          |                          |                          |                          |                          |                          |                                     |