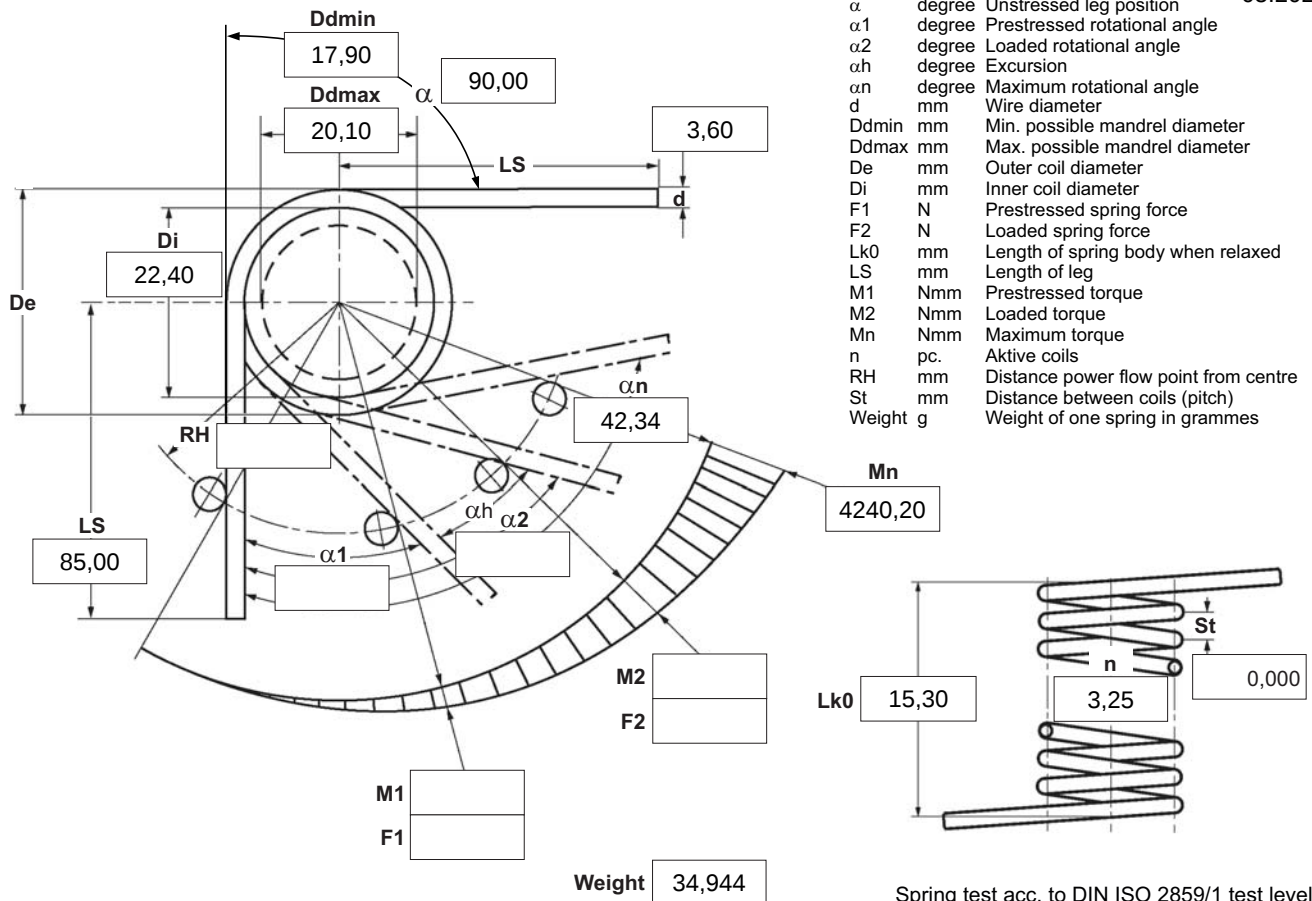


05.2025



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</b> <u>a</u> <input style="width: 80px;" type="text"/> degr.        | <b>12 Tolerances to DIN 2194</b><br><table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th>Grade</th> <th>Di</th> <th>Lk0</th> <th>LSH,LSR</th> <th><math>\alpha, \alpha 1, \alpha 2</math></th> <th>M1,M2</th> <th>Wire diameter <math>d</math> to DIN 2076</th> </tr> <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 rowspan="3"><input checked="" 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 type="checkbox"/></td> </tr> </table> | Grade                                          | Di                                           | Lk0                                                           | LSH,LSR                             | $\alpha, \alpha 1, \alpha 2$        | M1,M2                                                 | Wire diameter $d$ to DIN 2076            | 1                                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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"/> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------------------|------------------------------------------|-------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Grade                                                                                                                                                                                                                         | Di                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lk0                                            | LSH,LSR                                      | $\alpha, \alpha 1, \alpha 2$                                  | M1,M2                               | Wire diameter $d$ to DIN 2076       |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| 1                                                                                                                                                                                                                             | <input type="checkbox"/>                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/>                       | <input type="checkbox"/>                     | <input type="checkbox"/>                                      | <input type="checkbox"/>            | <input checked="" 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"/>                                      |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| <b>2 Form of legs</b><br><div style="border: 1px solid black; padding: 5px; min-height: 60px; margin-bottom: 5px;">           tangential, straight, no bends *         </div>                                                 | <b>6 Stress cyc. end.</b> <u>N</u> <input style="width: 100px;" type="text"/>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| *We can also supply torsion springs with any form of leg for an extra charge.                                                                                                                                                 | <b>7 Stress cycle frequ.</b> <u>n</u> <input style="width: 100px;" type="text"/> / |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| <b>3 Fixing</b><br>Recumbent leg      Lever leg<br><div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input style="width: 100px;" type="text"/> <input style="width: 100px;" type="text"/> </div> | <b>8 Application temp.</b> <input style="width: 100px;" type="text"/> °C           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| <b>4 Load</b><br><input type="checkbox"/> in winding direction<br><input type="checkbox"/> against winding direction                                                                                                          | <b>9 Material</b><br><input style="width: 150px;" type="text"/> 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>13 Production compensation through</b><br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">A spring torque and the associated swing angle</td> <td style="width: 20%;"> <math>\alpha</math> <input checked="" type="checkbox"/> </td> </tr> <tr> <td rowspan="2">A spring torque and the associated swing angle and <math>\alpha 0</math></td> <td>n, d <input type="checkbox"/></td> </tr> <tr> <td>n, Di <input type="checkbox"/></td> </tr> <tr> <td rowspan="2">Two spring resistances and the associated swing angle</td> <td><math>\alpha</math>, n, d <input type="checkbox"/></td> </tr> <tr> <td><math>\alpha</math>, n, Di <input type="checkbox"/></td> </tr> </table>                                                                                                                                                                                                                                                                                                       | A spring torque and the associated swing angle | $\alpha$ <input checked="" type="checkbox"/> | A spring torque and the associated swing angle and $\alpha 0$ | n, d <input type="checkbox"/>       | n, Di <input type="checkbox"/>      | Two spring resistances and the associated swing angle | $\alpha$ , n, d <input type="checkbox"/> | $\alpha$ , n, Di <input type="checkbox"/> |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| A spring torque and the associated swing angle                                                                                                                                                                                | $\alpha$ <input checked="" type="checkbox"/>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| A spring torque and the associated swing angle and $\alpha 0$                                                                                                                                                                 | n, d <input type="checkbox"/>                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
|                                                                                                                                                                                                                               | n, Di <input type="checkbox"/>                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| Two spring resistances and the associated swing angle                                                                                                                                                                         | $\alpha$ , n, d <input type="checkbox"/>                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
|                                                                                                                                                                                                                               | $\alpha$ , n, Di <input type="checkbox"/>                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| <b>11 Surface treatment</b><br><input style="width: 150px;" type="text"/>                                                                                                                                                     |                                                                                    | <b>Prices</b><br><table style="width: 100%;"> <tr> <th style="text-align: left;">Quantità progressive</th> <th style="text-align: left;">Prezzo singolo [EUR]</th> </tr> <tr> <td>1</td> <td>5,5300 €</td> </tr> <tr> <td>2</td> <td>3,9000 €</td> </tr> <tr> <td>3</td> <td>3,7100 €</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quantità progressive                           | Prezzo singolo [EUR]                         | 1                                                             | 5,5300 €                            | 2                                   | 3,9000 €                                              | 3                                        | 3,7100 €                                  |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| Quantità progressive                                                                                                                                                                                                          | Prezzo singolo [EUR]                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| 1                                                                                                                                                                                                                             | 5,5300 €                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| 2                                                                                                                                                                                                                             | 3,9000 €                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |
| 3                                                                                                                                                                                                                             | 3,7100 €                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                              |                                                               |                                     |                                     |                                                       |                                          |                                           |                          |                          |                          |                          |                          |                                     |   |                                     |                                     |                                     |                                     |                                     |   |                          |                          |                          |                          |                          |

### Remarks

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