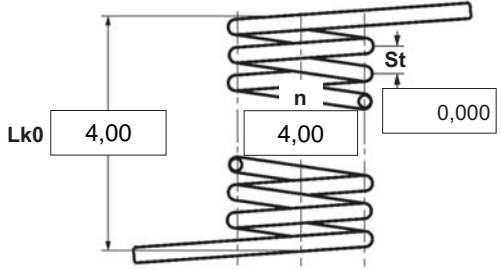


| | | |
|------------|--------|---------------------------------------|
| α | degree | Unstressed leg position |
| $\alpha 1$ | degree | Prestressed rotational angle |
| $\alpha 2$ | degree | Loaded rotational angle |
| αh | degree | Excursion |
| αn | degree | Maximum rotational angle |
| d | mm | Wire 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

| <p>1 Coiling direction</p> <p><input checked="" type="checkbox"/> left <input type="checkbox"/> right</p> | <p>5 Excursion αh <input type="text"/> degr.</p> | <p>12 Tolerances to DIN 2194</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Grade</th> <th>Di</th> <th>Lk0</th> <th>LSH,LSR</th> <th>$\alpha, \alpha 1, \alpha 2$</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 | $\alpha, \alpha 1, \alpha 2$ | M1, M2 | Wire diameter d to DIN 2076 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 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 | $\alpha, \alpha 1, \alpha 2$ | M1, M2 | Wire diameter d to DIN 2076 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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"/> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>2 Form of legs</p> <p>tangential, straight, no bends *</p> <p><input type="checkbox"/> tangential <input type="checkbox"/> straight <input type="checkbox"/> no bends</p> <p>*We can also supply torsion springs with any form of leg for an extra charge.</p> | <p>6 Stress cyc. end. N <input type="text"/></p> | <p>13 Production compensation through</p> <p>A spring torque and the associated swing angle α <input checked="" type="checkbox"/></p> <p>A spring torque and the associated swing angle and $\alpha 0$ <input type="checkbox"/></p> <p>Two spring resistances and the associated swing angle <input type="checkbox"/></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>3 Fixing</p> <p>Recumbent leg <input type="checkbox"/> Lever leg <input type="checkbox"/></p> | <p>7 Stress cycle frequ. n <input type="text"/> / <input type="text"/></p> | <p>Prices</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Quantity scale</th> <th>Single price [EUR]</th> </tr> </thead> <tbody> <tr><td>1</td><td>5,1100 €</td></tr> <tr><td>2</td><td>3,6000 €</td></tr> <tr><td>3</td><td>3,4300 €</td></tr> <tr><td>7</td><td>2,2200 €</td></tr> <tr><td>17</td><td>1,1200 €</td></tr> <tr><td>37</td><td>0,7400 €</td></tr> <tr><td>75</td><td>0,5500 €</td></tr> <tr><td>125</td><td>0,4570 €</td></tr> <tr><td>175</td><td>0,4069 €</td></tr> <tr><td>250</td><td>0,3567 €</td></tr> <tr><td>350</td><td>0,3095 €</td></tr> <tr><td>450</td><td>0,2652 €</td></tr> </tbody> </table> | Quantity scale | Single price [EUR] | 1 | 5,1100 € | 2 | 3,6000 € | 3 | 3,4300 € | 7 | 2,2200 € | 17 | 1,1200 € | 37 | 0,7400 € | 75 | 0,5500 € | 125 | 0,4570 € | 175 | 0,4069 € | 250 | 0,3567 € | 350 | 0,3095 € | 450 | 0,2652 € | | |
| Quantity scale | Single price [EUR] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5,1100 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 3,6000 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3,4300 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2,2200 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 1,1200 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 0,7400 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 0,5500 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 0,4570 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 175 | 0,4069 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 0,3567 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | 0,3095 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | 0,2652 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>4 Load</p> <p><input type="checkbox"/> in winding direction <input type="checkbox"/> against winding direction</p> | <p>8 Application temp. <input type="text"/> °C</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Remarks</p> <p>Country of origin: DE Customs tariff number: 73202089</p> | <p>9 Material</p> <p>EN 10270-3-1.4310</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>10 Wire or rod surface</p> <p><input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>11 Surface treatment</p> <p><input type="text"/></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |