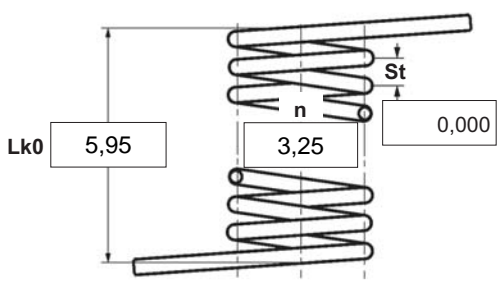



- α degree Unstressed leg position
- α_1 degree Prestressed rotational angle
- α_2 degree Loaded rotational angle
- α_h degree Excursion
- α_n degree Maximum rotational angle
- d mm Wire diameter
- Ddmin mm Min. possible mandrel diameter
- Ddmax mm Max. possible mandrel diameter
- De mm Outer coil diameter
- 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 <input checked="" type="checkbox"/> left <input type="checkbox"/> right</p> | <p>5 Excursion α_h <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 tangential, straight, no bends *  *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>7 Stress cycle frequ. n <input type="text"/> /</p> | <p>13 Production compensation through</p> <table style="width: 100%;"> <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 α_0</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> </table> | A spring torque and the associated swing angle | α | <input checked="" type="checkbox"/> | A spring torque and the associated swing angle and α_0 | 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 α_0 | 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"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>3 Fixing Recumbent leg <input type="checkbox"/> Lever leg <input type="checkbox"/></p> | <p>8 Application temp. <input type="text"/> °C</p> <p>9 Material EN 10270-3-1.4310</p> | <p>10 Wire or rod surface <input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>4 Load <input type="checkbox"/> in winding direction <input type="checkbox"/> against winding direction</p> | <p>11 Surface treatment <input type="text"/></p> | <p>Prices</p> <table style="width: 100%;"> <thead> <tr> <th>Quantity scale</th> <th>Single price [EUR]</th> </tr> </thead> <tbody> <tr><td>1</td><td>5,1600 €</td></tr> <tr><td>2</td><td>3,6400 €</td></tr> <tr><td>3</td><td>3,4700 €</td></tr> <tr><td>7</td><td>2,4200 €</td></tr> <tr><td>17</td><td>1,1500 €</td></tr> <tr><td>37</td><td>0,8500 €</td></tr> <tr><td>75</td><td>0,6800 €</td></tr> <tr><td>125</td><td>0,4859 €</td></tr> <tr><td>175</td><td>0,4196 €</td></tr> <tr><td>250</td><td>0,3695 €</td></tr> <tr><td>350</td><td>0,3536 €</td></tr> <tr><td>450</td><td>0,3284 €</td></tr> </tbody> </table> | Quantity scale | Single price [EUR] | 1 | 5,1600 € | 2 | 3,6400 € | 3 | 3,4700 € | 7 | 2,4200 € | 17 | 1,1500 € | 37 | 0,8500 € | 75 | 0,6800 € | 125 | 0,4859 € | 175 | 0,4196 € | 250 | 0,3695 € | 350 | 0,3536 € | 450 | 0,3284 € | | |
| Quantity scale | Single price [EUR] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 450 | 0,3284 € | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Remarks Country of origin: DE Customs tariff number: 73202089</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |