



- $\alpha$  degree Unstressed leg position
- $\alpha1$  degree Prestressed rotational angle
- $\alpha2$  degree Loaded rotational angle
- $\alpha h$  degree Excursion
- $\alpha n$  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><b>1 Coiling direction</b></p> <p><input checked="checked" type="checkbox"/> left     <input type="checkbox"/> right</p>	<p><b>5 Excursion <math>\alpha h</math></b>     <input style="width: 50px;" type="text"/> degr.</p>	<p><b>12 Tolerances to DIN 2194</b></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><math>\alpha, \alpha1, \alpha2</math></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 rowspan="3" style="text-align: center; vertical-align: middle;">X</td> </tr> <tr> <td>2</td> <td><input checked="checked" type="checkbox"/></td> <td><input checked="checked" type="checkbox"/></td> <td><input checked="checked" type="checkbox"/></td> <td><input checked="checked" type="checkbox"/></td> <td><input checked="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> </tbody> </table>	Grade	Di	Lk0	LSH,LSR	$\alpha, \alpha1, \alpha2$	M1, M2	Wire diameter d to DIN 2076	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	2	<input checked="checked" type="checkbox"/>	<input checked="checked" type="checkbox"/>	<input checked="checked" type="checkbox"/>	<input checked="checked" type="checkbox"/>	<input checked="checked" type="checkbox"/>	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<p><b>2 Form of legs</b></p> <p>tangential, straight, no bends *</p> <p>*We can also supply torsion springs with any form of leg for an extra charge.</p>	<p><b>6 Stress cyc. end. N</b>     <input style="width: 50px;" type="text"/></p> <p><b>7 Stress cycle frequ. n</b>     <input style="width: 50px;" type="text"/> /</p>	<p><b>13 Production compensation through</b></p> <table style="width: 100%;"> <tr> <td>A spring torque and the associated swing angle</td> <td><math>\alpha</math></td> <td><input checked="checked" type="checkbox"/></td> </tr> <tr> <td>A spring torque and the associated swing angle and <math>\alpha0</math></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><math>\alpha, n, d</math></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td><math>\alpha, n, Di</math></td> <td><input type="checkbox"/></td> </tr> </table>	A spring torque and the associated swing angle	$\alpha$	<input checked="checked" type="checkbox"/>	A spring torque and the associated swing angle and $\alpha0$	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"/>											
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<p><b>3 Fixing</b></p> <p>Recumbent leg     Lever leg</p> <p><input style="width: 50px;" type="text"/>     <input style="width: 50px;" type="text"/></p>	<p><b>8 Application temp.</b>     <input style="width: 50px;" type="text"/> °C</p> <p><b>9 Material</b></p> <p>EN 10270-3-1.4310</p>	<p><b>Prices</b></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 €
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<p><b>4 Load</b></p> <p><input type="checkbox"/> in winding direction  <input type="checkbox"/> against winding direction</p>	<p><b>10 Wire or rod surface</b></p> <p><input checked="checked" type="checkbox"/> drawn     <input type="checkbox"/> rolled     <input type="checkbox"/> metal-cut</p> <p><b>11 Surface treatment</b></p> <p><input style="width: 50px;" type="text"/></p>																											
<p><b>Remarks</b></p> <p>Country of origin: DE   Customs tariff number: 73202089</p>																												