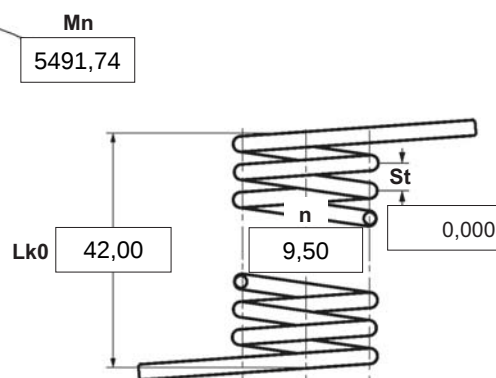


α	degree	Unstressed leg position
α_1	degree	Prestressed rotational angle
α_2	degree	Loaded rotational angle
αh	degree	Excursion
αn	degree	Maximum rotational angle
d	mm	Wire diameter
Ddmin	mm	Min. possible mandrel diameter
Ddmax	mm	Max. possible mandrel diameter
De	mm	Outer coil diameter
Di	mm	Inner coil 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

1 Coiling direction ☐ left ☒ right	5 Excursion αh degr.	12 Tolerances to DIN 2194 <table border="1" style="width: 100%; border-collapse: collapse;"> <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> <tr> <td>1</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td rowspan="3">☒</td> </tr> <tr> <td>2</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> <tr> <td>3</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>		Grade	Di	Lk0	LSH,LSR	$\alpha, \alpha 1, \alpha 2$	M1,M2	Wire diameter d to DIN 2076	1	☐	☐	☐	☐	☐	☒	2	☒	☒	☒	☒	☒	3	☐	☐	☐	☐	☐
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2 Form of legs tangential, straight, no bends * *We can also supply torsion springs with any form of leg for an extra charge.	6 Stress cyc. end. N																												
7 Stress cycle frequ. n /	8 Application temp. °C																												
9 Material 1.4310		13 Production compensation through <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>A spring torque and the associated swing angle</td> <td>α</td> <td>☒</td> </tr> <tr> <td>A spring torque and the associated swing angle and $\alpha 0$</td> <td>n, d</td> <td>☐</td> </tr> <tr> <td></td> <td>n, Di</td> <td>☐</td> </tr> <tr> <td>Two spring resistances and the associated swing angle</td> <td>α, n, d</td> <td>☐</td> </tr> <tr> <td></td> <td>α, n, Di</td> <td>☐</td> </tr> </table>		A spring torque and the associated swing angle	α	☒	A spring torque and the associated swing angle and $\alpha 0$	n, d	☐		n, Di	☐	Two spring resistances and the associated swing angle	α , n, d	☐		α , n, Di	☐											
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11 Surface treatment 																													
3 Fixing Recumbent leg Lever leg		Prices <table style="width: 100%;"> <tr> <th style="text-align: left;">Cantidad progresiva</th> <th style="text-align: left;">Precio unidad [EUR]</th> </tr> <tr><td>1</td><td>6,3100 €</td></tr> <tr><td>2</td><td>4,4500 €</td></tr> <tr><td>3</td><td>4,2400 €</td></tr> <tr><td>7</td><td>3,4500 €</td></tr> <tr><td>17</td><td>2,2200 €</td></tr> <tr><td>37</td><td>1,7500 €</td></tr> <tr><td>75</td><td>1,6000 €</td></tr> </table>		Cantidad progresiva	Precio unidad [EUR]	1	6,3100 €	2	4,4500 €	3	4,2400 €	7	3,4500 €	17	2,2200 €	37	1,7500 €	75	1,6000 €										
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