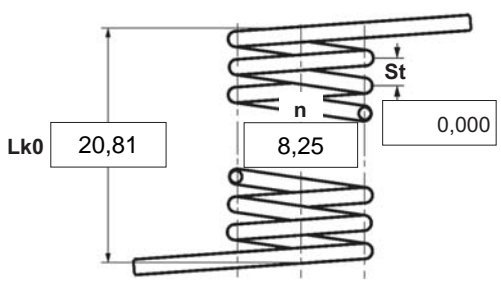


α	degree	Unstressed leg position
α_1	degree	Prestressed rotational angle
α_2	degree	Loaded rotational angle
α_h	degree	Excursion
α_n	degree	Maximum rotational angle
d	mm	Wire diameter
Ddmin	mm	Min. possible mandrel diameter
Ddmax	mm	Max. possible mandrel diameter
De	mm	Outer coil diameter
Di	mm	Inner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

1 Coiling direction <input type="checkbox"/> left <input checked="" type="checkbox"/> right	5 Excursion α_h <input type="text"/> degr.	12 Tolerances to DIN 2194 <table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <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"/>																								
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 <input type="text"/>	7 Stress cycle frequ. n <input type="text"/> / <input type="text"/>																												
3 Fixing Recumbent leg <input type="checkbox"/> Lever leg <input type="checkbox"/>	8 Application temp. <input type="text"/> °C	13 Production compensation through <table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <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"/>																												
4 Load <input type="checkbox"/> in winding direction <input type="checkbox"/> against winding direction	9 Material EN 10270-3-1.4310	10 Wire or rod surface <input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut																												
11 Surface treatment <input type="text"/>		Prices <table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Quantity scale</th> <th>Single price [EUR]</th> </tr> </thead> <tbody> <tr><td>1</td><td>5,4200 €</td></tr> <tr><td>2</td><td>3,8200 €</td></tr> <tr><td>3</td><td>3,6400 €</td></tr> <tr><td>7</td><td>2,6600 €</td></tr> <tr><td>17</td><td>1,3800 €</td></tr> <tr><td>37</td><td>1,0200 €</td></tr> <tr><td>75</td><td>0,8900 €</td></tr> <tr><td>125</td><td>0,5823 €</td></tr> <tr><td>175</td><td>0,5445 €</td></tr> <tr><td>250</td><td>0,4945 €</td></tr> <tr><td>350</td><td>0,4610 €</td></tr> <tr><td>450</td><td>0,4169 €</td></tr> </tbody> </table>	Quantity scale	Single price [EUR]	1	5,4200 €	2	3,8200 €	3	3,6400 €	7	2,6600 €	17	1,3800 €	37	1,0200 €	75	0,8900 €	125	0,5823 €	175	0,5445 €	250	0,4945 €	350	0,4610 €	450	0,4169 €		
Quantity scale	Single price [EUR]																													
1	5,4200 €																													
2	3,8200 €																													
3	3,6400 €																													
7	2,6600 €																													
17	1,3800 €																													
37	1,0200 €																													
75	0,8900 €																													
125	0,5823 €																													
175	0,5445 €																													
250	0,4945 €																													
350	0,4610 €																													
450	0,4169 €																													

Remarks
 Country of origin: DE | Customs tariff number: 73202089