

D	mm	Wire diameter	L1	mm	Prestressed spring length
D	mm	Mean coil diameter	L2	mm	Loaded spring length
De	mm	Outer coil diameter	Ln	mm	Maximum spring length
Dh	mm	Minimum diameter of bush	m	mm	Loop opening width
F0	N	Initial tension	n	pc.	Number of active coils
F1	N	Prestressed spring force	nt	pc.	Total number of coils
F2	N	Loaded spring force	s1	mm	Prestressed spring deflection
Fn	N	Maximum spring force	s2	mm	Loaded spring deflection
Lh	mm	Loop height	sn	mm	Maximum spring deflection
Lk	mm	Length of unstressed spring body	sh	mm	Excursion
L0	mm	Unstressed spring length	R	N/mm	Spring rate

Symbol	Unit	Description	Value
Fh	N	Maximum spring force	19,09
Lh	mm	Loop height	10,30
Lk	mm	Length of unstressed spring body	32,60
L0	mm	Unstressed spring length	44,30
sn	mm	Loaded spring deflection	101,54
sh	mm	Excursion	1,21
R	N/mm	Spring rate	5,850

The drawing shows a spring with a hook on the left and a loop on the right. Dimensions are given in mm. The hook has a height $D_h = 10,30$ and a length $L_h = 10,30$. The loop has a height $L_h = 10,30$ and a length $L_k = 32,60$. The total length of the unstressed spring is $L_0 = 44,30$. The loaded spring deflection is $s_n = 101,54$. The excursions are $s_1 = 1,21$ and $s_2 = 1,21$. The forces are $F_0 = 1,21$, $F_1 = 1,21$, $F_2 = 1,21$, and $F_n = 19,09$. The spring rate is $R = 5,850$. The diameter of the wire is $d = 0,80$. The diameter of the loop is $D = 8,80$. The diameter of the hook is $D_h = 10,30$. The diameter of the spring body is $D_s = 0,30$. The diameter of the spring body is $D_s = 0,30$. The diameter of the spring body is $D_s = 0,30$.

Spring test acc. to DIN ISO 2859/1 test level II

1 Coiling direction ☐ left ☒ right	4 Stress cyc. end. N	10 Tolerances to DIN 2097 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Grade</th> <th>De, Di, D</th> <th>L0</th> <th>F0-Fn</th> <th>Loops</th> <th rowspan="4">Wire diameter d to DIN 2076</th> </tr> <tr> <td>1</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>2</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> <tr> <td>3</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>		Grade	De, Di, D	L0	F0-Fn	Loops	Wire diameter d to DIN 2076	1	☐	☐	☐	☐	2	☒	☒	☒	☒	3	☐	☐	☐	☐							
Grade	De, Di, D	L0	F0-Fn	Loops	Wire diameter d to DIN 2076																										
1	☐	☐	☐	☐																											
2	☒	☒	☒	☒																											
3	☐	☐	☐	☐																											
2 Loop shape and loop position Loop shape 1/1 German loop Loops offset to one another by 270,0 + 41,0 degrees (in the dir. of the right helix)	5 Stress cycle frequ. n /	11 Production compensation through <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">A spring resistance, associated length of tensed spring and L0</td> <td style="width: 20%;">F0, D ☒</td> </tr> <tr> <td rowspan="2">A spring resistance, associated length of tensed spring and F0</td> <td>L0, n, d ☐</td> </tr> <tr> <td>L0, D ☐</td> </tr> <tr> <td rowspan="2">Two spring resistances and associated length of tensed spring</td> <td>L0, n, d ☐</td> </tr> <tr> <td>F0, D ☐</td> </tr> </table>		A spring resistance, associated length of tensed spring and L0	F0, D ☒	A spring resistance, associated length of tensed spring and F0	L0, n, d ☐	L0, D ☐	Two spring resistances and associated length of tensed spring	L0, n, d ☐	F0, D ☐																				
A spring resistance, associated length of tensed spring and L0	F0, D ☒																														
A spring resistance, associated length of tensed spring and F0	L0, n, d ☐																														
	L0, D ☐																														
Two spring resistances and associated length of tensed spring	L0, n, d ☐																														
	F0, D ☐																														
3 Excursion sh mm	6 Application temp. °C	Prices <table style="width: 100%;"> <tr> <th style="text-align: left;">Desconto por quantidade</th> <th style="text-align: left;">Preço individual</th> </tr> <tr> <td>1</td> <td>[EUR]</td> </tr> <tr> <td>2</td> <td>6,4000 €</td> </tr> <tr> <td>3</td> <td>4,0300 €</td> </tr> <tr> <td>7</td> <td>2,8200 €</td> </tr> <tr> <td>17</td> <td>2,3500 €</td> </tr> <tr> <td>37</td> <td>1,1600 €</td> </tr> <tr> <td>75</td> <td>0,8500 €</td> </tr> <tr> <td>125</td> <td>0,6900 €</td> </tr> <tr> <td>175</td> <td>0,6356 €</td> </tr> <tr> <td>250</td> <td>0,6220 €</td> </tr> <tr> <td>350</td> <td>0,6172 €</td> </tr> <tr> <td>450</td> <td>0,5899 €</td> </tr> <tr> <td></td> <td>0,5461 €</td> </tr> </table>		Desconto por quantidade	Preço individual	1	[EUR]	2	6,4000 €	3	4,0300 €	7	2,8200 €	17	2,3500 €	37	1,1600 €	75	0,8500 €	125	0,6900 €	175	0,6356 €	250	0,6220 €	350	0,6172 €	450	0,5899 €		0,5461 €
Desconto por quantidade	Preço individual																														
1	[EUR]																														
2	6,4000 €																														
3	4,0300 €																														
7	2,8200 €																														
17	2,3500 €																														
37	1,1600 €																														
75	0,8500 €																														
125	0,6900 €																														
175	0,6356 €																														
250	0,6220 €																														
350	0,6172 €																														
450	0,5899 €																														
	0,5461 €																														
7 Material 	8 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut																														
9 Surface treatment 	Remarks País de origem: DE Número de tarifa alfandegária: 73202085																														