

05.2025

Symbol	Unit	Description	Value
F_n	N	Maximum spring force	139,70
L_h	mm	Loop height	11,60
L_k	mm	Lenght of unstressed spring body	21,00
L_0	mm	Unstressed spring length	41,00
s_2	mm	Loaded spring deflection	1,10
s_n	mm	Maximum spring deflection	23,80
sh	mm	Excursion	
R	N/mm	Spring rate	10,000

The technical drawing shows a spring with a hook and a coiled body. Key dimensions are labeled: L_h (loop height), L_k (length of unstressed spring body), L_0 (unstressed spring length), L_1 , L_2 , and L_n (total length at different states). The hook dimensions include D_h (hook diameter), d (hook wire diameter), and m (hook radius). The coiled body dimensions include D (coil diameter), d (wire diameter), and De (mean diameter). The force-displacement diagram on the right shows the relationship between force (F) and displacement (s). The curve starts at F_0 (11,60 N) and s_0 (0 mm) and ends at F_n (139,70 N) and s_n (23,80 mm). The spring rate R is 10,000 N/mm.

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;"> <thead> <tr> <th>Grade</th> <th>De,Di,D</th> <th>L0</th> <th>F0-Fn</th> <th>Loops</th> <th>Wire diameter d to DIN 2076</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">☒</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> </tbody> </table>	Grade	De,Di,D	L0	F0-Fn	Loops	Wire diameter d to DIN 2076	1	☐	☐	☐	☐	☒	2	☒	☒	☒	☒	3	☐	☐	☐	☐
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1	☐	☐	☐	☐	☒																			
2	☒	☒	☒	☒																				
3	☐	☐	☐	☐																				
2 Loop shape and loop position Loop shape 1/1 German loop Loops offset to one another by 180,0 ☒ 17,0 degrees (in the dir. of the right helix)	5 Stress cycle frequ. n /	6 Application temp. °C																						
3 Excursion sh mm	7 Material 1.4310	11 Production compensation through <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <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>A spring resistance, associated length of tensed spring and F0</td> <td>L0, n, d ☐ L0, D ☐</td> </tr> <tr> <td>Two spring resistances and associated length of tensed spring</td> <td>L0, n, d ☐ F0,D ☐</td> </tr> </tbody> </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 ☐																
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8 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut	9 Surface treatment 	Prices Quantità progressive Prezzo singolo [EUR]																						

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11	Production compensation	through
	A spring resistance, associated length of tensed spring and L0	F0, D ☒
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	Two spring resistances and associated length of tensed spring	L0, n, d ☐ F0, D ☐

Prices

Quantità progressive	Prezzo singolo [EUR]
1	6.2300 €
2	3.9200 €
3	2.5300 €
7	2.1100 €
17	1.0500 €
37	0,6800 €
75	0,5300 €
125	0,5300 €
175	0,5300 €
250	0,5300 €
350	0,5300 €
450	0,5300 €