

07.2025

Symbol	Unit	Description
F_n	N	Maximum spring force
L_h	mm	Loop height
L_k	mm	Length of unstressed spring body
L_0	mm	Unstressed spring length
s_2	mm	Loaded spring deflection
s_n	mm	Maximum spring deflection
sh	mm	Excursion
R	N/mm	Spring rate

The technical drawing illustrates a spring assembly with the following dimensions and parameters:

- Dimensions:**
 - L_h : Loop height (14,70 mm)
 - L_k : Length of unstressed spring body (14,70 mm)
 - L_0 : Unstressed spring length (44,00 mm)
 - L_1 : Dimension (1,30 mm)
 - L_2 : Dimension (1,30 mm)
 - L_n : Dimension (1,30 mm)
 - d : Wire diameter (1,40 mm)
 - De : Mean diameter (20,00 mm)
 - D : Outer diameter (0,35 mm)
 - D_h : Hook diameter (23,00 mm)
 - s_1 : Dimension (2,00 mm)
 - s_2 : Dimension (2,00 mm)
 - sh : Excursion (2,00 mm)
 - s_n : Maximum spring deflection (76,75 mm)
- Force Diagram:**
 - Shows a linear relationship between force and deflection.
 - Forces F_0, F_1, F_2, F_n are indicated at various points.
 - The maximum force F_n is 44,20 N.

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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2 Loop shape and loop position Loop shape 1/1 German loop Loops offset to one another by 180,0 + 22,0 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 																										
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