

07.2025

Symbol	Unit	Description	Value
F_n	N	Maximum spring force	11,53
L_h	mm	Loop height	7,230
L_k	mm	Length of unstressed spring body	34,65
L_0	mm	Unstressed spring length	49,10
s_2	mm	Loaded spring deflection	1,30
s_n	mm	Maximum spring deflection	201,80
sh	mm	Excursion	
R	N/mm	Spring rate	

The technical drawing shows a spring with a hook and a coiled body. Key dimensions are labeled: D_h (hook diameter, 11,40), L_h (hook height, 7,230), L_k (unstressed body length, 34,65), L_0 (unstressed total length, 49,10), L_1 , L_2 , and L_n (total lengths at different force levels), d (wire diameter, 0,70), D (coil diameter, 10,00), De (pitch diameter, 0,30), s_1 , s_2 , sh , and s_n (deflections), and m (hook radius). A force-displacement diagram on the right shows the relationship between force (F_0, F_1, F_2, F_n) and deflection (s_1, s_2, sh, s_n), with a spring rate R indicated by the slope of the line.

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><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><tr><td>1</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></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	☐	☐	☐	☐						
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3	☐	☐	☐	☐																											
2 Loop shape and loop position Loop shape 1/1 German loop Loops offset to one another by 180,0 ☒ 53,0 degrees  (in the dir. of the right helix)	6 Application temp. °C	11 Production compensation through <table><tr><td>A spring resistance, associated length of tensed spring and L0</td><td>F0, D</td><td>☒</td></tr><tr><td>A spring resistance, associated length of tensed spring and F0</td><td>L0, n, d</td><td>☐</td></tr><tr><td></td><td>L0, D</td><td>☐</td></tr><tr><td>Two spring resistances and associated length of tensed spring</td><td>L0, n, d</td><td>☐</td></tr><tr><td></td><td>F0,D</td><td>☐</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	☐													
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3 Excursion sh mm	7 Material 1.4310	Prices <table><tr><th>Grupa ilociowa</th><th>Cena jednostkowa [EUR]</th></tr><tr><td>1</td><td></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>		Grupa ilociowa	Cena jednostkowa [EUR]	1		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 €
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8 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut																															
9 Surface treatment 																															
Remarks Kraj pochodzenia: DE Numer taryfy celnej: 73202085																															