

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	148,00
Lh	mm	Loop height	27,80
Lk	mm	Length of unstressed spring body	133,10
L0	mm	Unstressed spring length	166,00 ± 3,00
s2	mm	Loaded spring deflection	357,12
sn	mm	Maximum spring deflection	375,00
sh	mm	Excursion	118,12
R	N/mm	Spring rate	1,25

The technical drawing shows a spring with a hook and a body. Key dimensions include:

- Lh**: Loop height = 27,80 mm
- Lk**: Length of unstressed spring body = 133,10 mm
- L0**: Unstressed spring length = 166,00 mm ± 3,00
- De**: Wire diameter = 24,00 mm
- d**: Wire diameter = 2,20 mm
- sn**: Maximum spring deflection = 375,00 mm
- sh**: Excursion = 118,12 mm
- s2**: Loaded spring deflection = 357,12 mm
- R**: Spring rate = 1,25 N/mm

 The force-displacement diagram on the right shows the relationship between force (F) and displacement (s). The force increases linearly from F0 to Fn as displacement increases from 0 to sn. The maximum force Fn is 148,00 N at the maximum deflection sn = 375,00 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; text-align: center;"> <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">☒</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	☐	☐	☐	☐
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	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>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> </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 ☐																							
Loops offset to one another by 180,0 ☒ 50,0 degrees (in the dir. of the right helix)	6 Application temp. °C																							
3 Excursion sh mm	7 Material EN 10270-1	Prices Mennviségi lépcsők Egységár (EUR)																						
	8 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut																							
	9 Surface treatment 																							

Származási ország: DE | Vámtarifaszám: 73202085

Grade	De,Di,D	L0	F0-Fn	Loops	Wire diameter d to DIN 2076
1	☐	☐	☐	☐	
2	☒	☒	☒	☒	☒
3	☐	☐	☐	☐	

11 Production compensation		through
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	☐

Prices

Mennyiségi lépcsők	Egységár (EUR)
1	6,8600 €
2	4,3200 €
3	3,3700 €
7	2,8700 €
17	1,4400 €
37	1,1200 €
75	0,9700 €
125	0,9700 €
175	0,9700 €
250	0,9700 €
350	0,9700 €
450	0,9700 €