

12.2025

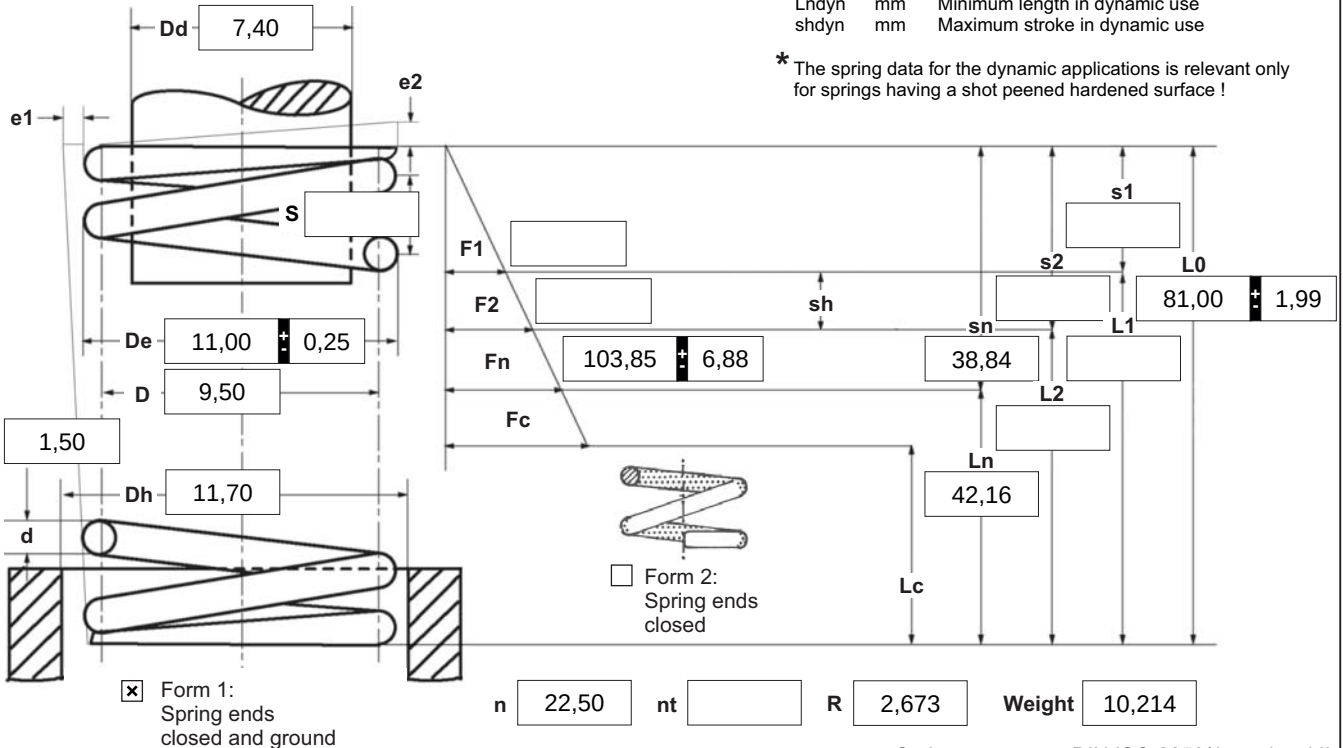
d mm Wire diameter
D mm Mean coil diameter
Dd mm Diameter of mandrel
De mm Outer coil diameter
Dh mm Diameter of bush
e1 mm Perm.dev. perpendicular line
e2 mm Perm.dev. parallel line
F1 N Prestressed spring force
F2 N Loaded spring force

Fn N Maximum force in static use
Fc N Theoretic maximum force at Lc
L0 mm Length of unstressed spring
L1 mm Prestressed spring length
L2 mm Loaded spring length
Lk mm Buckling length
Ln mm Minimum length in static use
Lc mm Block length
n pc. Active coils

nt pc. Total coils
R N/mm Spring rate
S mm Pitch (distance between coils)
s1 mm Prestressed spring deflection
s2 mm Loaded spring deflection
sh mm Maximum stroke in static use
sn mm Maximum spring deflection in static use
Weight g Weight of one spring in grammes

Fndyn N Maximum force in dynamic force
Fndtol N (+/-) tolerance of maximum dynamic force
Lndyn mm Minimum length in dynamic use
shdyn mm Maximum stroke in dynamic use

* The spring data for the dynamic applications is relevant only for springs having a shot peened hardened surface !



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

1 Coiling direction

☐ left ☒ right

2 Dynamic load *

Fndyn 96,59
Fndtol 6,77
Lndyn 44,87
shdyn 18,71

3 Excursion sh

mm

4 Stress cyc. end. N

mm

5 Stress cycle frequ. n

/

6 Application temp.

°C

Remarks

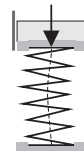
Kraj pochodzenia: DE | Numer taryfy celnej: 73202081

7 Guidance and seat to DIN EN 13906-1

☐ mandrel ☐ bush

Buckling length **Lk** at

v=0,5 / Bild 5 67,33 mm

**8 Material**

EN 10270-1

9 Wire or rod surface

☒ drawn ☐ rolled ☐ metal-cut

10 Springs deburred

☐ inside ☐ outside

11 Surface treatment

☐ shot peened

12 Tolerances to DIN EN 15800

Grade	De, Di, D	L0	F1, F2	e1, e2	Wire diameter d to DIN 2076
1	☐	☐	☐	☐	☐
2	☒	☒	☒	☒	☒
3	☐	☐	☐	☐	☐

13 Production compensation through

A spring resistance and associated length of tensed spring	L0	☐
A spring resistance, associated length of tensed spring and L0	n, d	☒
	n, De, Di	☐
Two spring resistances and associated lengths of tensed spring	L0, n, d	☐
	L0, n, De, Di	☐

14 Setting springs

All springs which show setting tendency because of their size are pre-set within the production process.

Prices

Grupa ilociowa	Cena jednostkowa [EUR]
1	
2	5,0100 €
3	3,5300 €
7	3,3700 €
17	2,1400 €
37	1,0400 €
75	0,6600 €
125	0,5000 €
175	0,4132 €
250	0,3696 €
350	0,3256 €
450	0,2842 €
	0,2464 €