

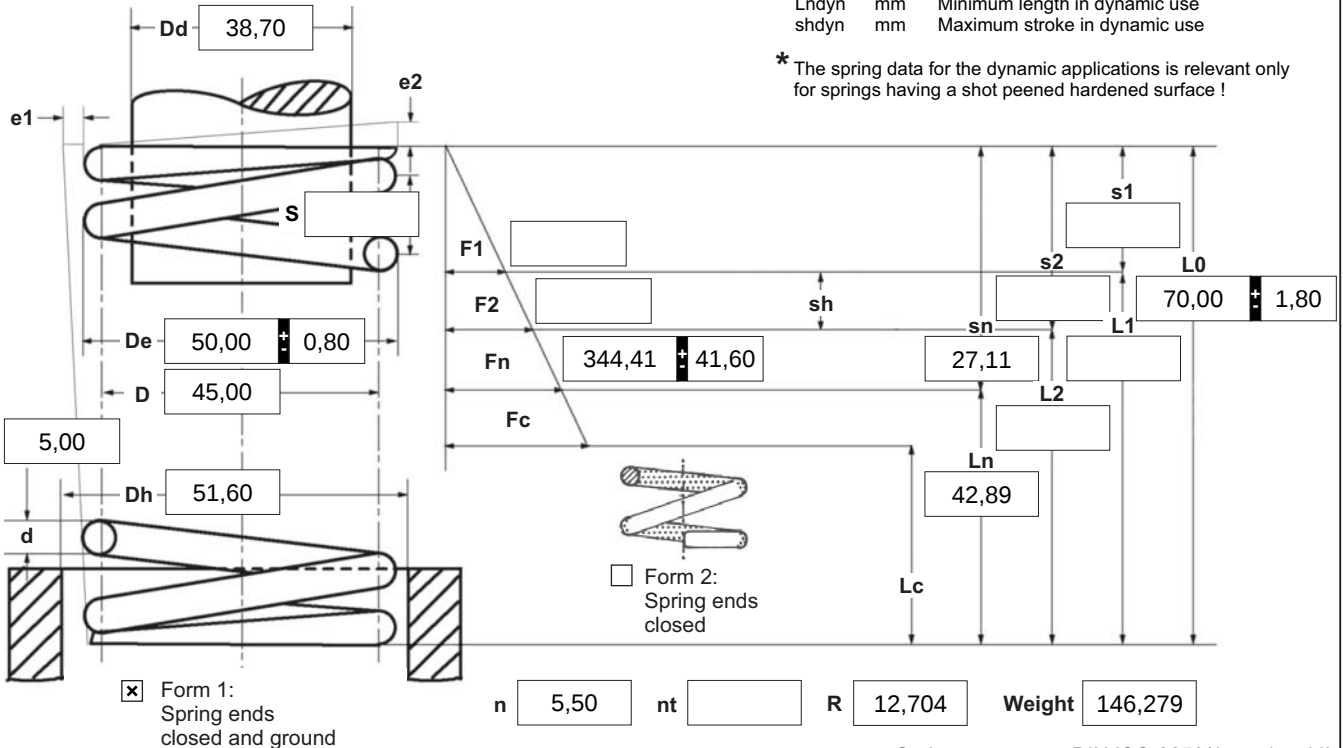
d mm Wire diameter
D mm Mean coil diameter
Dd mm Diameter of mandrel
De mm Outer coil diameter
Dh mm Diameter of bush
e1 mm Perm.dev. perpendicular line
e2 mm Perm.dev. parallel line
F1 N Prestressed spring force
F2 N Loaded spring force

F_n N Maximum force in static use
F_c N Theoretic maximum force at L_c
L0 mm Length of unstressed spring
L1 mm Prestressed spring length
L2 mm Loaded spring length
L_k mm Buckling length
L_n mm Minimum length in static use
L_c 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

F_{ndyn} N Maximum force in dynamic force
F_{ndtol} N (+/-) tolerance of maximum dynamic force
L_{ndyn} mm Minimum length in dynamic use
sh_{dyn} 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 *

F_{ndyn} 296,01
F_{ndtol} 40,90
L_{ndyn} 46,70
sh_{dyn} 23,30

3 Excursion sh

mm

4 Stress cyc. end. N

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 L_k at

v=0,5 / Bild 5 0,00 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	13,3600 €
3	10,6400 €
7	6,1500 €
17	4,0000 €
37	2,6100 €
75	2,2000 €
125	2,1400 €
175	2,1212 €
250	2,1185 €
350	2,0658 €
	2,0208 €