

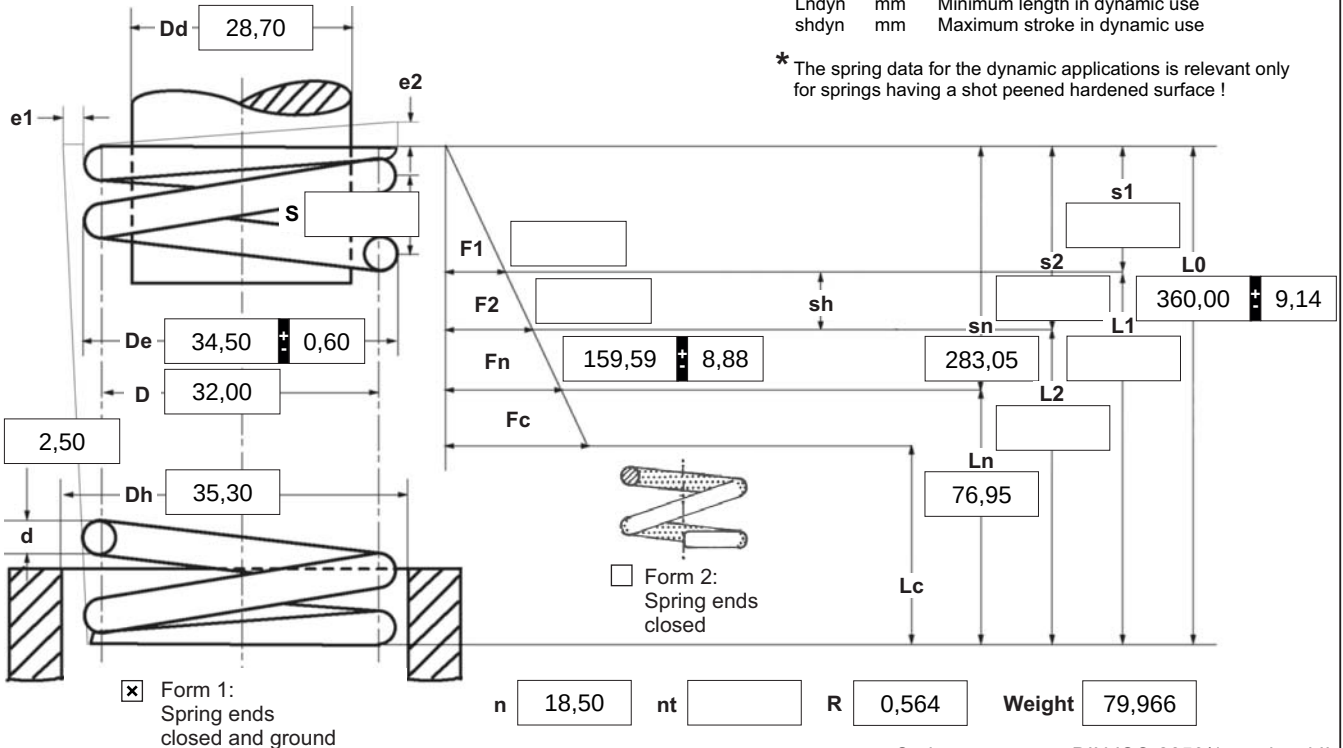
d mm Wire diameter
D mm Mean coil diameter
Dd mm Diameter of mandrel
De mm Outer coil diameter
Dh mm Diameter of bush
e1 mm Perm.dev. perpendicular line
e2 mm Perm.dev. parallel line
F1 N Prestressed spring force
F2 N Loaded spring force

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 !

**1 Coiling direction**

☐ left ☒ right

2 Dynamic load *F_{ndyn} 143,44F_{ndtol} 8,80L_{ndyn} 105,60sh_{dyn} 65,45**3 Excursion sh** [] mm**4 Stress cyc. end. N** []**5 Stress cycle frequ. n** [] /**6 Application temp.** [] °C**Remarks**

Country of origin: DE | Customs tariff number: 73202081

7 Guidance and seat to DIN EN 13906-1☐ mandrel ☐ bushBuckling length **L_k** at

v=0,5 / Bild 5 326,80 mm

8 Material

1.4310

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

Quantity scale	Single price [EUR]
1	5,7800 €
2	4,0800 €
3	3,8900 €
7	3,0700 €
17	1,5900 €
37	1,2800 €
75	1,1200 €
125	0,8513 €
175	0,7951 €
250	0,7263 €
350	0,6128 €
450	0,5811 €