

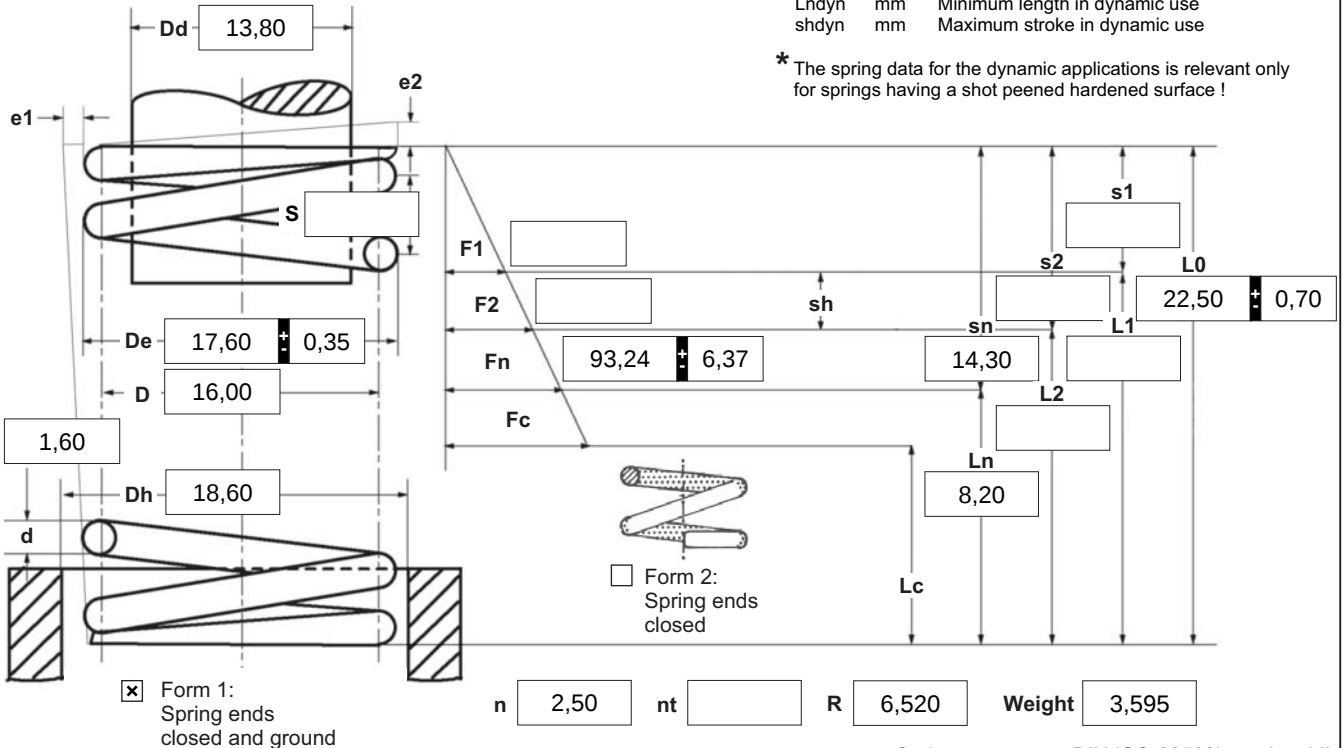
05.2025

d	mm	Wire diameter
D	mm	Mean coil diameter
De	mm	Diameter of mandrel
Dd	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
L ₀	mm	Length of unstressed spring
L ₁	mm	Prestressed spring length
L ₂	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	05.
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	89,32
Fndtol	3,10
Lndyn	8,80
shdyn	5,00

3 Excursion sh

4 Stress cyc. end. <u>N</u>	
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5 Stress cycle frequ. n /

6 Application temp.	
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Remarks

Paese d'origine: DE | Numero della tariffa doganale: 73202081

7 Guidance and seat to DIN EN 13906-1

☐ mandrel ☐ bush

Buckling length **L_k** at

$v=0,5$ / Bild 5 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

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

13	Prouction 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	
Quantità progressive	Prezzo singolo [EUR]
1	4,9400 €
2	3,4800 €
3	3,3200 €
7	1,9900 €
17	1,0000 €
37	0,6100 €
75	0,4600 €
125	0,3945 €
175	0,3631 €
250	0,3193 €
350	0,2780 €
450	0,2212 €