

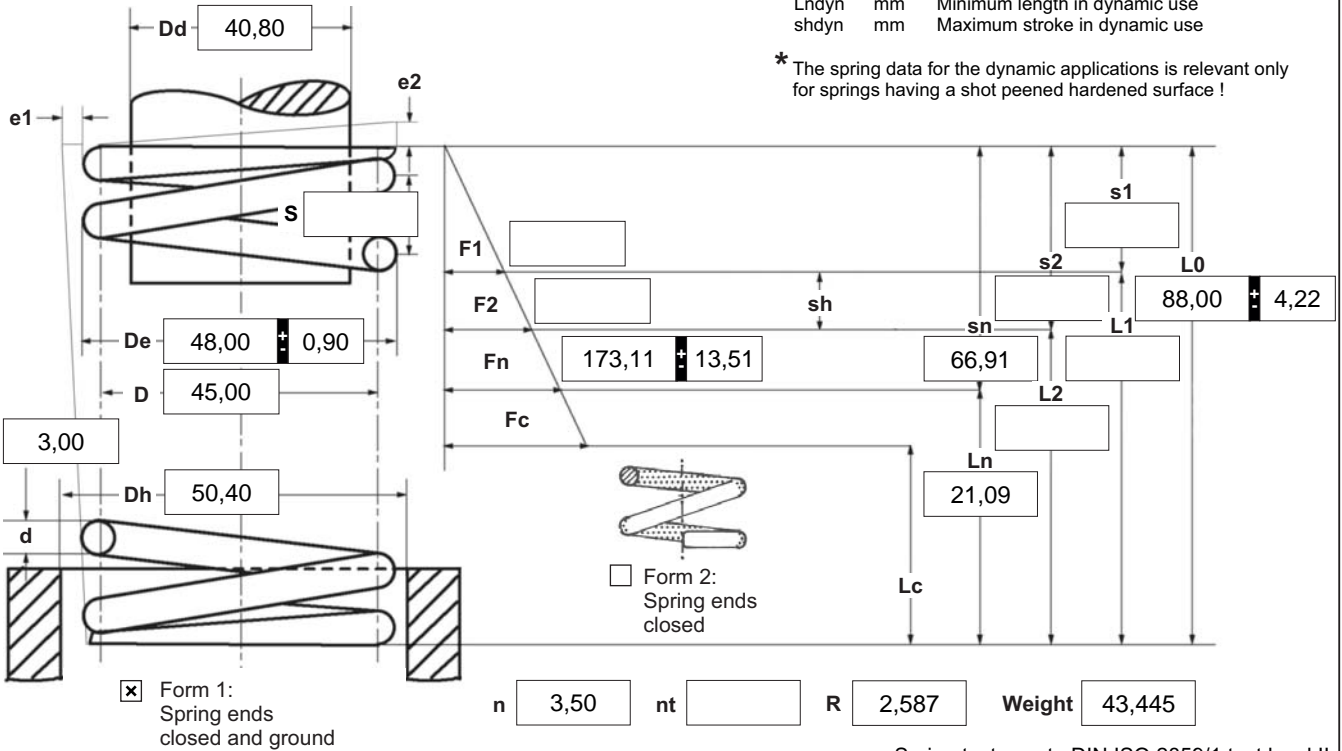
d mm	Wire diameter
D mm	Mean coil diameter
Dd mm	Diameter of mandrel
De mm	Outer coil diameter
Dh mm	Diameter of bush
e1 mm	Perm.dev. perpendicular line
e2 mm	Perm.dev. parallel line
F1 N	Prestressed spring force
F2 N	Loaded spring force

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	167,17
Fndtol	13,42
Lndyn	23,39
shdyn	33,52

3 Excursion sh  mm

4 Stress cyc. end. N

5 Stress cycle frequ. n /

6 Application temp.  °C

Remarks

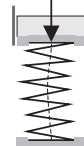
Country of origin: DE | Customs tariff number: 73202081

7 Guidance and seat to DIN EN 13906-1

mandrel  bush

Buckling length Lk 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

12 Tolerances to DIN EN 15800

Grade	De,Di,D	L0	F1,F2	e1,e2	Wire diameter d to DIN 2076
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

13 Prouction compensation through

A spring resistance and associated length of tensed spring	L0	<input type="checkbox"/>
A spring resistance, associated length of tensed spring and L0	n, d	<input checked="" type="checkbox"/>
	n, De, Di	<input type="checkbox"/>
Two spring resistances and associated lengths of tensed spring	L0, n, d	<input type="checkbox"/>
	L0,n,De,Di	<input type="checkbox"/>

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	5,5300 €
2	3,9000 €
3	3,7100 €
7	2,9000 €
17	1,4300 €
37	1,1000 €
75	0,9400 €
125	0,6511 €
175	0,6135 €
250	0,5760 €
350	0,5306 €
450	0,4927 €