

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	Pre stressed 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	06.
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

06.2025

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

L_{ndyn} mm Minimum length in dynamic use
 s_{hdyn} mm Maximum stroke in dynamic use

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

Form 1: ☒ Spring ends closed and ground
 Form 2: ☐ Spring ends closed

n 15,50 nt R 5,135 Weight 0,171

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

1 Coiling direction

☐ left ☒ right

2 Dynamic load *	
Fndyn	18,02
Fndtol	2,52
Lndyn	10,19
shdyn	1,06

3 Excursion sh

4 Stress cyc. end. N

5 Stress cycle frequ. n /

6 Application temp.

Remarks

7 Guidance and seat to DIN EN 13906-1

☐ mandrel ☐ bush

Buckling length **L_k** at

$v=0,5$ / Bild 5 **9,82** mm

A technical diagram showing a spring assembly. A spring is shown in a vertical orientation. Above it, a guide and seat assembly is depicted, consisting of a cylindrical component with a central hole and a smaller inner cylinder. A downward arrow indicates the direction of force or movement. The assembly is shown in a cross-sectional view.

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	
Desconto por quantidade	Preço individual
1	[EUR]
2	4,7200 €
3	3,3300 €
7	3,1700 €
17	1,7700 €
37	0,7400 €
75	0,4200 €
125	0,2000 €
175	0,1664 €
250	0,1253 €
350	0,1002 €
450	0,0758 €
	0,0694 €