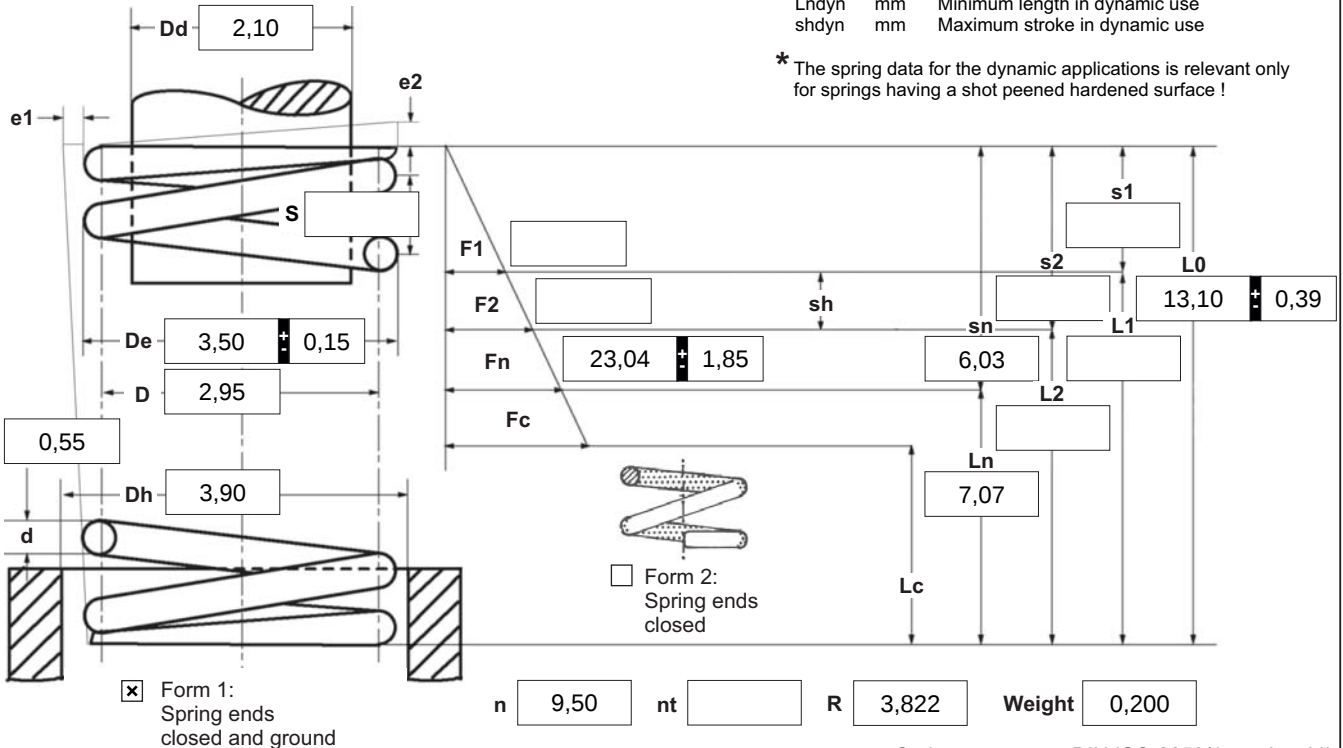


12.2025

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<sub>n</sub> N Maximum force in static use  
 F<sub>c</sub> N Theoretic maximum force at L<sub>c</sub>  
 L0 mm Length of unstressed spring  
 L1 mm Prestressed spring length  
 L2 mm Loaded spring length  
 L<sub>k</sub> mm Buckling length  
 L<sub>n</sub> mm Minimum length in static use  
 L<sub>c</sub> 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<sub>ndyn</sub> N Maximum force in dynamic force  
 F<sub>ndtol</sub> N (+/-) tolerance of maximum dynamic force  
 L<sub>ndyn</sub> mm Minimum length in dynamic use  
 sh<sub>dyn</sub> 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<sub>ndyn</sub> 18,73  
 F<sub>ndtol</sub> 1,83  
 L<sub>ndyn</sub> 8,20  
 sh<sub>dyn</sub> 1,31

## 3 Excursion sh

## 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<sub>k</sub> 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 ☐ outside11 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 type="checkbox"/>            |

## 13 Production 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

| Grupa ilociowa | Cena jednostkowa [EUR] |
|----------------|------------------------|
| 1              |                        |
| 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 €               |