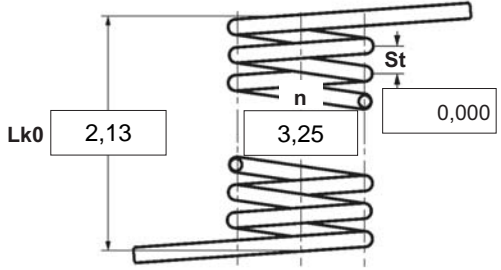


- $\alpha$  degree Unstressed leg position
- $\alpha 1$  degree Prestressed rotational angle
- $\alpha 2$  degree Loaded rotational angle
- $\alpha h$  degree Excursion
- $\alpha n$  degree Maximum rotational angle
- $d$  mm Wire diameter
- $Ddmin$  mm Min. possible mandrel diameter
- $Ddmax$  mm Max. possible mandrel diameter
- $De$  mm Outer coil diameter
- $Di$  mm Inner coil diameter
- $F1$  N Prestressed spring force
- $F2$  N Loaded spring force
- $Lk0$  mm Length of spring body when relaxed
- $LS$  mm Length of leg
- $M1$  Nmm Prestressed torque
- $M2$  Nmm Loaded torque
- $Mn$  Nmm Maximum torque
- $n$  pc. Active coils
- $RH$  mm Distance power flow point from centre
- $St$  mm Distance between coils (pitch)
- Weight g Weight of one spring in grammes



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

**1 Coiling direction**

 left      right

**2 Form of legs**

tangential, straight, no bends \*



\*We can also supply torsion springs with any form of leg for an extra charge.

**3 Fixing**

Recumbent leg    Lever leg

**4 Load**

in winding direction

against winding direction

**5 Excursion  $\alpha h$**   degr.

**6 Stress cyc. end.  $N$**

**7 Stress cycle frequ.  $n$**   /

**8 Application temp.**  °C

**9 Material**

EN 10270-3-1.4310

**10 Wire or rod surface**

drawn     rolled     metal-cut

**11 Surface treatment**

**12 Tolerances to DIN 2194**

| Grade | Di                                  | Lk0                                 | LSH,LSR                             | $\alpha, \alpha 1, \alpha 2$        | M1, M2                              | Wire diameter d to DIN 2076         |
|-------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1     | <input type="checkbox"/>            | <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"/> | <input checked="" type="checkbox"/> |
| 3     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**13 Production compensation through**

A spring torque and the associated swing angle     $\alpha$    

A spring torque and the associated swing angle and  $\alpha 0$      $n, d$    

Two spring resistances and the associated swing angle     $n, Di$    

Two spring resistances and the associated swing angle     $\alpha, n, d$    

Two spring resistances and the associated swing angle     $\alpha, n, Di$    

**Prices**

| Quantità progressive | Prezzo singolo [EUR] |
|----------------------|----------------------|
| 1                    | 5,1600 €             |
| 2                    | 3,6400 €             |
| 3                    | 3,4700 €             |
| 7                    | 2,4200 €             |
| 17                   | 1,1500 €             |
| 37                   | 0,8500 €             |
| 75                   | 0,6800 €             |
| 125                  | 0,4859 €             |
| 175                  | 0,4196 €             |
| 250                  | 0,3695 €             |
| 350                  | 0,3536 €             |
| 450                  | 0,3284 €             |

**Remarks**

Paese d'origine: DE | Numero della tariffa doganale: 73202089