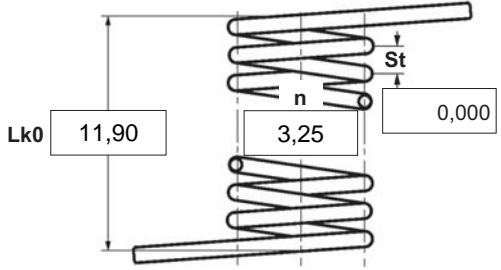



|            |        |                                       |
|------------|--------|---------------------------------------|
| $\alpha$   | degree | Unstressed leg position               |
| $\alpha 1$ | degree | Prestressed rotational angle          |
| $\alpha 2$ | degree | Loaded rotational angle               |
| $\alpha h$ | 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 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  $\alpha 0$

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

$\alpha, n, Di$

**Prices**

| Grupa ilociowa | Cena jednostkowa [EUR] |
|----------------|------------------------|
| 1              |                        |
| 2              | 5,5300 €               |
| 3              | 3,9000 €               |
| 7              | 3,7100 €               |
| 17             | 2,9000 €               |
| 37             | 1,4300 €               |
| 75             | 1,1000 €               |
| 125            | 0,9400 €               |
| 175            | 0,6511 €               |
| 250            | 0,6135 €               |
| 350            | 0,5760 €               |
| 450            | 0,5306 €               |
|                | 0,4927 €               |

**Remarks**

Kraj pochodzenia: DE | Numer taryfy celnej: 73202089