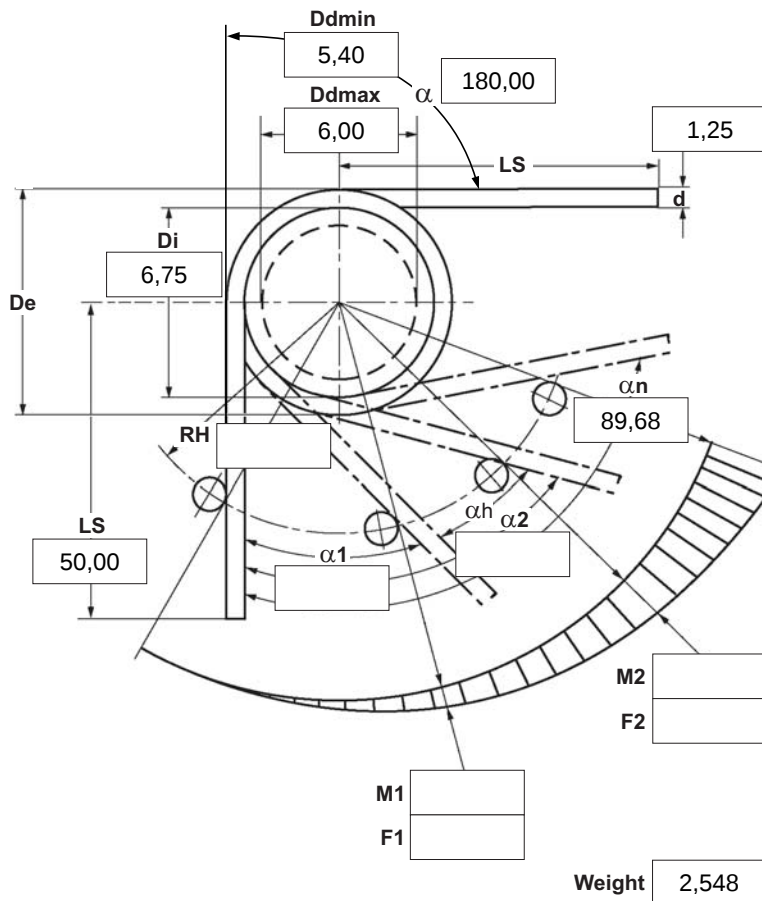


07.2025



|            |        |                                       |
|------------|--------|---------------------------------------|
| $\alpha$   | 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                         |
| $D_{dmin}$ | mm     | Min. possible mandrel diameter        |
| $D_{dmax}$ | mm     | Max. possible mandrel diameter        |
| $D_e$      | mm     | Outer coil diameter                   |
| $D_i$      | mm     | Inner coil diameter                   |
| $F_1$      | N      | Prestressed spring force              |
| $F_2$      | N      | Loaded spring force                   |
| $Lk_0$     | mm     | Length of spring body when relaxed    |
| $LS$       | mm     | Length of leg                         |
| $M_1$      | Nmm    | Prestressed torque                    |
| $M_2$      | Nmm    | Loaded torque                         |
| $M_n$      | 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**

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                | $\alpha$        | <input checked="" type="checkbox"/> |
| A spring torque and the associated swing angle and $\alpha 0$ | $n, d$          | <input type="checkbox"/>            |
|                                                               | $n, Di$         | <input type="checkbox"/>            |
| Two spring resistances and the associated swing angle         | $\alpha, n, d$  | <input type="checkbox"/>            |
|                                                               | $\alpha, n, Di$ | <input type="checkbox"/>            |

**Prices**

| Grupa ilociowa | Cena jednostkowa [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**

Kraj pochodzenia: DE | Numer taryfy celnej: 73202089