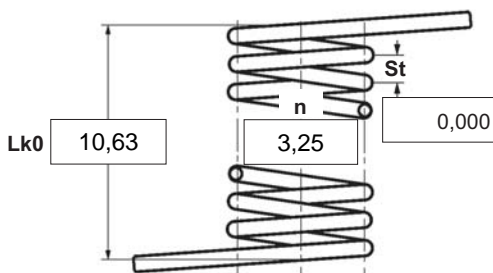



|            |        |                                       |
|------------|--------|---------------------------------------|
| $\alpha$   | degree | Unstressed leg position               |
| $\alpha_1$ | degree | Prestressed rotational angle          |
| $\alpha_2$ | degree | Loaded rotational angle               |
| $\alpha_h$ | 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

|                                                                                                                                                                                                                                   |                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>1 Coiling direction</b><br><input checked="" type="checkbox"/> left <input type="checkbox"/> right                                                                                                                             | <b>5 Excursion <math>\alpha_h</math></b> <input type="text"/> degr. |
| <b>2 Form of legs</b><br>tangential, straight, no bends *<br><br>*We can also supply torsion springs with any form of leg for an extra charge. | <b>6 Stress cyc. end. N</b> <input type="text"/>                    |
| <b>3 Fixing</b><br>Recumbent leg <input type="checkbox"/> Lever leg <input type="checkbox"/>                                                                                                                                      | <b>7 Stress cycle frequ. n</b> <input type="text"/> /               |
| <b>4 Load</b><br><input type="checkbox"/> in winding direction<br><input type="checkbox"/> against winding direction                                                                                                              | <b>8 Application temp.</b> <input type="text"/> °C                  |
| <b>9 Material</b><br>EN 10270-3-1.4310                                                                                                                                                                                            |                                                                     |
| <b>10 Wire or rod surface</b><br><input checked="" type="checkbox"/> drawn <input type="checkbox"/> rolled <input type="checkbox"/> metal-cut                                                                                     |                                                                     |
| <b>11 Surface treatment</b><br><input type="text"/>                                                                                                                                                                               |                                                                     |

| 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                | $\alpha$ <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         |                    |
|----------------|--------------------|
| Quantity scale | Single price [EUR] |
| 1              | 5,4200 €           |
| 2              | 3,8200 €           |
| 3              | 3,6400 €           |
| 7              | 2,6600 €           |
| 17             | 1,3800 €           |
| 37             | 1,0200 €           |
| 75             | 0,8900 €           |
| 125            | 0,5823 €           |
| 175            | 0,5445 €           |
| 250            | 0,4945 €           |
| 350            | 0,4610 €           |
| 450            | 0,4169 €           |

**Remarks**  
 Country of origin: DE | Customs tariff number: 73202089