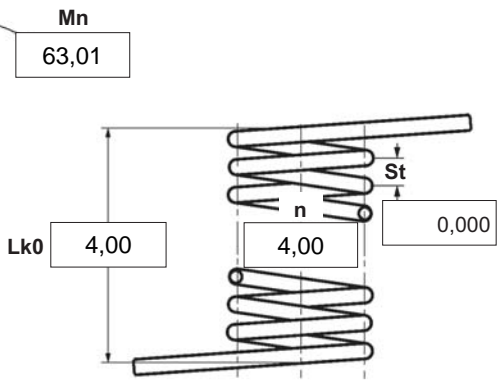


$\alpha$  degree Unstressed leg position  
 $\alpha 1$  degree Prestressed rotational angle  
 $\alpha 2$  degree Loaded rotational angle  
 $\alpha h$  degree Excursion  
 $\alpha n$  degree Maximum rotational angle  
 $d$  mm Wire diameter  
 $Ddmin$  mm Min. possible mandrel diameter  
 $Ddmax$  mm 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"/>	
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"/>	<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	5,1100 €
2	3,6000 €
3	3,4300 €
7	2,2200 €
17	1,1200 €
37	0,7400 €
75	0,5500 €
125	0,4570 €
175	0,4069 €
250	0,3567 €
350	0,3095 €
450	0,2652 €

**Remarks**

Country of origin: DE | Customs tariff number: 73202089