

07.2025

Symbol	Unit	Description	Value
F_n	N	Maximum spring force	44,20
L_h	mm	Loop height	14,730
L_k	mm	Length of unstressed spring body	85,05
L_0	mm	Unstressed spring length	114,50
s_2	mm	Loaded spring deflection	2,40
s_n	mm	Maximum spring deflection	482,70
sh	mm	Excursion	
R	N/mm	Spring rate	

The technical drawing illustrates a spring assembly with the following dimensions and parameters:

- Dimensions:**
 - L_h : Loop height = 14,730 mm
 - L_k : Length of unstressed spring body = 85,05 mm
 - L_0 : Unstressed spring length = 114,50 mm
 - L_1 , L_2 , L_n : Additional length parameters (values to be determined)
 - d : Wire diameter = 1,40 mm
 - De : Mean coil diameter = 20,00 mm
 - D : Outer diameter = 23,00 mm
 - s_1 , s_2 , sh , s_n : Spring deflection parameters (values to be determined)
- Force-Displacement Diagram:**
 - The diagram shows a linear relationship between force (F) and displacement (s).
 - Key points on the curve include F_0 , F_1 , F_2 , and F_n .
 - Corresponding displacement values are s_1 , s_2 , sh , and s_n .
 - The maximum spring force F_n is 44,20 N, and the maximum spring deflection s_n is 482,70 mm.

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

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