

07.2025

Symbol	Unit	Description	Value
F_n	N	Maximum spring force	78,31
L_h	mm	Loop height	10,150
L_k	mm	Length of unstressed spring body	87,20
L_0	mm	Unstressed spring length	107,50
s_2	mm	Loaded spring deflection	181,66
s_n	mm	Maximum spring deflection	181,66
sh	mm	Excursion	2,40
R	N/mm	Spring rate	15,50

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

- Dimensions:**
 - L_h : Loop height = 10,150 mm
 - L_k : Length of unstressed spring body = 87,20 mm
 - L_0 : Unstressed spring length = 107,50 mm
 - L_1 , L_2 , L_n : Additional length parameters (values to be determined)
 - d : Wire diameter = 1,60 mm
 - De : Mean coil diameter = 15,50 mm
 - D : Outer diameter = 18,30 mm
 - s_1 , s_2 , s_n : Spring deflections (values to be determined)
 - sh : Excursion = 2,40 mm
- Force-Displacement Diagram:**
 - The diagram shows a linear relationship between force (F) and displacement (s).
 - Key points on the curve include F_0 (at s_0), F_1 (at s_1), F_2 (at s_2), and F_n (at s_n).
 - The slope of the line represents the spring rate R .

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

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