

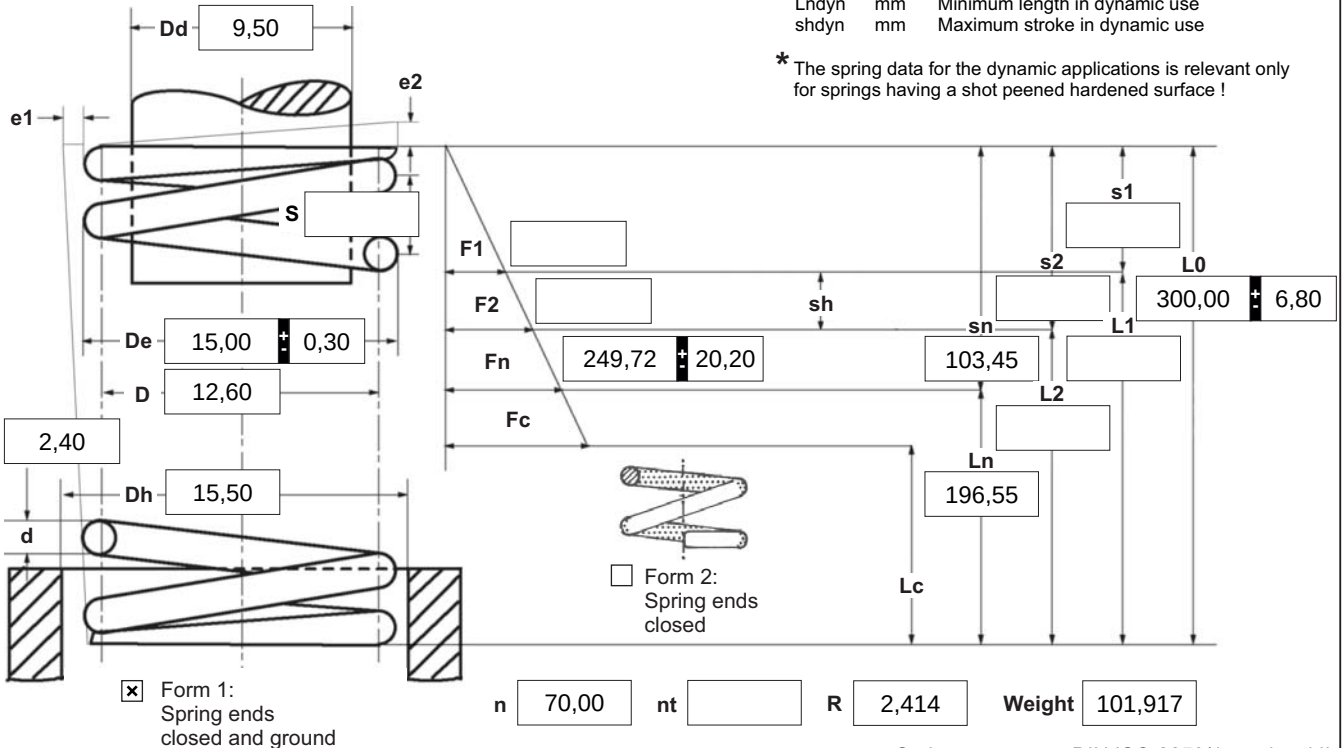
07.2025

d	mm	Wire diameter
D	mm	Mean coil diameter
De	mm	Diameter of mandrel
Dd	mm	Outer coil diameter
Dh	mm	Diameter of bush
e1	mm	Perm.dev. perpendicular line
e2	mm	Perm.dev. parallel line
F1	N	Prestressed spring force
F2	N	Loaded spring force

F _n	N	Maximum force in static use
F _c	N	Theoretic maximum force at L _c
L ₀	mm	Length of unstressed spring
L ₁	mm	Prestressed spring length
L ₂	mm	Loaded spring length
L _k	mm	Buckling length
L _n	mm	Minimum length in static use
L _c	mm	Block length
n	pc.	Active coils

nt	pc.	Total coils	07.
R	N/mm	Spring rate	
S	mm	Pitch (distance between coils)	
s1	mm	Prestressed spring deflection	
s2	mm	Loaded spring deflection	
sh	mm	Maximum stroke in static use	
sn	mm	Maximum spring deflection in static use	
Weight	g	Weight of one spring in grammes	
Fndyn	N	Maximum force in dynamic force	
Fndtol	N	(+/-) tolerance of maximum dynamic force	
Lndyn	mm	Minimum length in dynamic use	
shdyn	mm	Maximum stroke in dynamic use	

* The spring data for the dynamic applications is relevant only for springs having a shot peened hardened surface !



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

1 Coiling direction ☐ left ☒ right	7 Guidance and seat to DIN EN 13906-1 ☐ mandrel ☐ bush Buckling length L_k at v=0,5 / Bild 5 294,00 mm	12 Tolerances to DIN EN 15800 <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th>Grade</th> <th>De,Di,D</th> <th>L0</th> <th>F1,F2</th> <th>e1,e2</th> <th>Wire diameter d to DIN 2076</th> </tr> <tr> <td>1</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td rowspan="3">☒</td> </tr> <tr> <td>2</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> <tr> <td>3</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>	Grade	De,Di,D	L0	F1,F2	e1,e2	Wire diameter d to DIN 2076	1	☐	☐	☐	☐	☒	2	☒	☒	☒	☒	3	☐	☐	☐	☐						
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2 Dynamic load * <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Fndyn</td> <td> 221,06 </td> </tr> <tr> <td>Fndtol</td> <td> 19,77 </td> </tr> <tr> <td>Lndyn</td> <td> 208,42 </td> </tr> <tr> <td>shdyn</td> <td> 65,30 </td> </tr> </table>	Fndyn	221,06	Fndtol	19,77	Lndyn	208,42	shdyn	65,30	8 Material EN 10270-1	13 Prouction compensation through <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">A spring resistance and associated length of tensed spring</td> <td>L0 ☐</td> </tr> <tr> <td>A spring resistance, associated length of tensed spring and L0</td> <td>n, d ☒ n, De, Di ☐</td> </tr> <tr> <td>Two spring resistances and associated lengths of tensed spring</td> <td>L0, n, d ☐ L0,n,De,Di ☐</td> </tr> </table>	A spring resistance and associated length of tensed spring	L0 ☐	A spring resistance, associated length of tensed spring and L0	n, d ☒ n, De, Di ☐	Two spring resistances and associated lengths of tensed spring	L0, n, d ☐ L0,n,De,Di ☐														
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3 Excursion sh mm	9 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut	14 Setting springs All springs which show setting tendency because of their size are pre-set within the production process.																												
4 Stress cyc. end. N	10 Springs deburred ☐ inside ☐ outside	Prices <table style="width: 100%;"> <tr> <th style="text-align: left;">Desconto por quantidade</th> <th style="text-align: left;">Preço individual [EUR]</th> </tr> <tr><td>1</td><td></td></tr> <tr><td>2</td><td>5,5300 €</td></tr> <tr><td>3</td><td>3,9000 €</td></tr> <tr><td>7</td><td>3,7100 €</td></tr> <tr><td>17</td><td>2,9000 €</td></tr> <tr><td>37</td><td>1,4300 €</td></tr> <tr><td>75</td><td>1,1000 €</td></tr> <tr><td>125</td><td>0,9400 €</td></tr> <tr><td>175</td><td>0,6511 €</td></tr> <tr><td>250</td><td>0,6135 €</td></tr> <tr><td>350</td><td>0,5760 €</td></tr> <tr><td>450</td><td>0,5306 €</td></tr> <tr><td></td><td>0,4927 €</td></tr> </table>	Desconto por quantidade	Preço individual [EUR]	1		2	5,5300 €	3	3,9000 €	7	3,7100 €	17	2,9000 €	37	1,4300 €	75	1,1000 €	125	0,9400 €	175	0,6511 €	250	0,6135 €	350	0,5760 €	450	0,5306 €		0,4927 €
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6 Application temp. °C	Remarks País de origem: DE Número de tarifa alfandegária: 73202081																													