

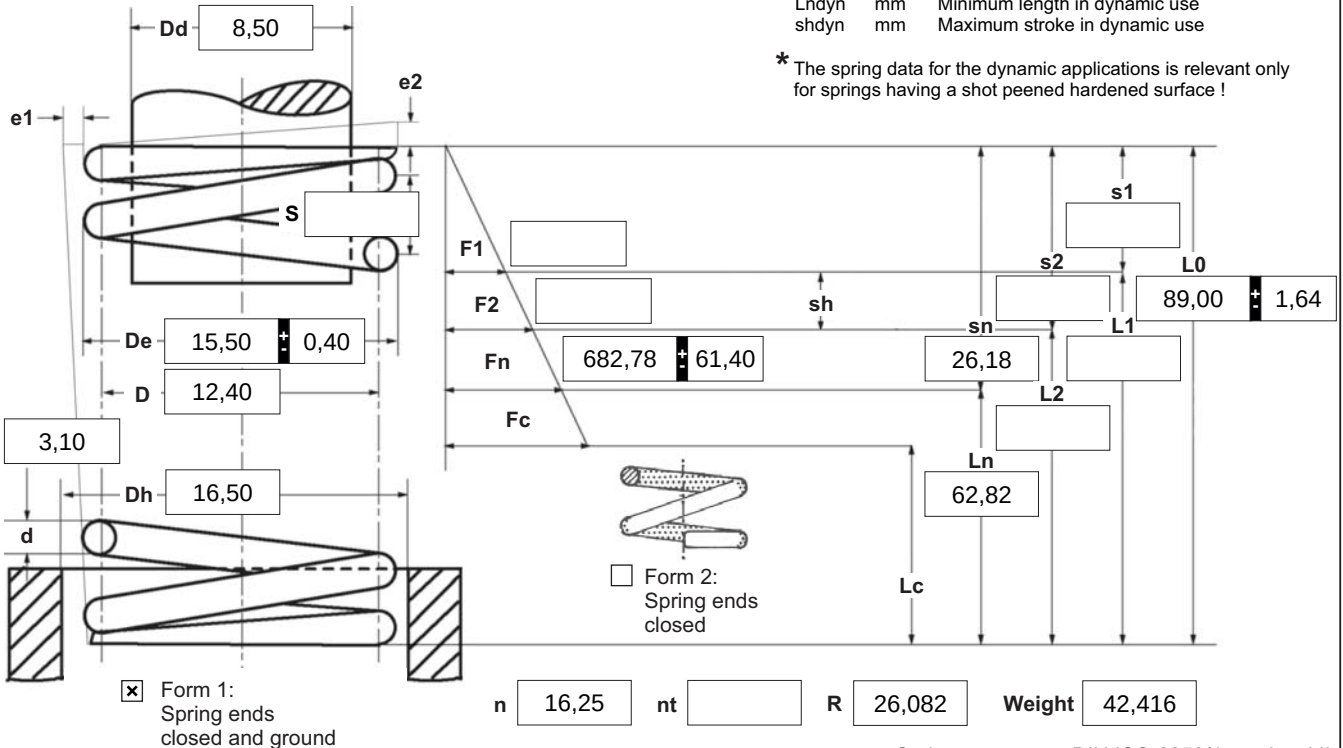
08.2025

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

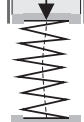
F _n	N	Maximum force in static use
F _c	N	Theoretic maximum force at L _c
L ₀	mm	Length of unstressed spring
L ₁	mm	Prestressed spring length
L ₂	mm	Loaded spring length
L _k	mm	Buckling length
L _n	mm	Minimum length in static use
L _c	mm	Block length
n	pc.	Active coils

nt	pc.	Total coils	08.
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 66,53 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 rowspan="4">Wire diameter d to DIN 2076</th> </tr> <tr> <td>1</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</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> <tr> <td colspan="5"></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: 15%;">Fndyn</td> <td style="border: 1px solid black; padding: 2px 10px;">524,24</td> </tr> <tr> <td>Fndtol</td> <td style="border: 1px solid black; padding: 2px 10px;">59,98</td> </tr> <tr> <td>Lndyn</td> <td style="border: 1px solid black; padding: 2px 10px;">68,90</td> </tr> <tr> <td>shdyn</td> <td style="border: 1px solid black; padding: 2px 10px;">4,72</td> </tr> </table>	Fndyn	524,24	Fndtol	59,98	Lndyn	68,90	shdyn	4,72	8 Material 1.4310	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 style="width: 20%;">L0 ☐</td> </tr> <tr> <td>A spring resistance, associated length of tensed spring and L0</td> <td>n, d ☒</td> </tr> <tr> <td></td> <td>n, De, Di ☐</td> </tr> <tr> <td>Two spring resistances and associated lengths of tensed spring</td> <td>L0, n, d ☐</td> </tr> <tr> <td></td> <td>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;">Stupnice množství</th> <th style="text-align: left;">Jedn. cena [EUR]</th> </tr> <tr><td>1</td><td>6,1900 €</td></tr> <tr><td>2</td><td>4,3600 €</td></tr> <tr><td>3</td><td>4,1600 €</td></tr> <tr><td>7</td><td>3,3600 €</td></tr> <tr><td>17</td><td>2,1300 €</td></tr> <tr><td>37</td><td>1,6200 €</td></tr> <tr><td>75</td><td>1,5200 €</td></tr> <tr><td>125</td><td>1,2327 €</td></tr> <tr><td>175</td><td>1,1268 €</td></tr> <tr><td>250</td><td>1,0518 €</td></tr> <tr><td>350</td><td>0,9700 €</td></tr> <tr><td>450</td><td>0,9095 €</td></tr> </table>	Stupnice množství	Jedn. cena [EUR]	1	6,1900 €	2	4,3600 €	3	4,1600 €	7	3,3600 €	17	2,1300 €	37	1,6200 €	75	1,5200 €	125	1,2327 €	175	1,1268 €	250	1,0518 €	350	0,9700 €	450	0,9095 €	
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5 Stress cycle frequ. n /	11 Surface treatment ☐ shot peened 																												
6 Application temp. °C	Remarks Zem pvodu: DE islo celního sazebníku: 73202081																												