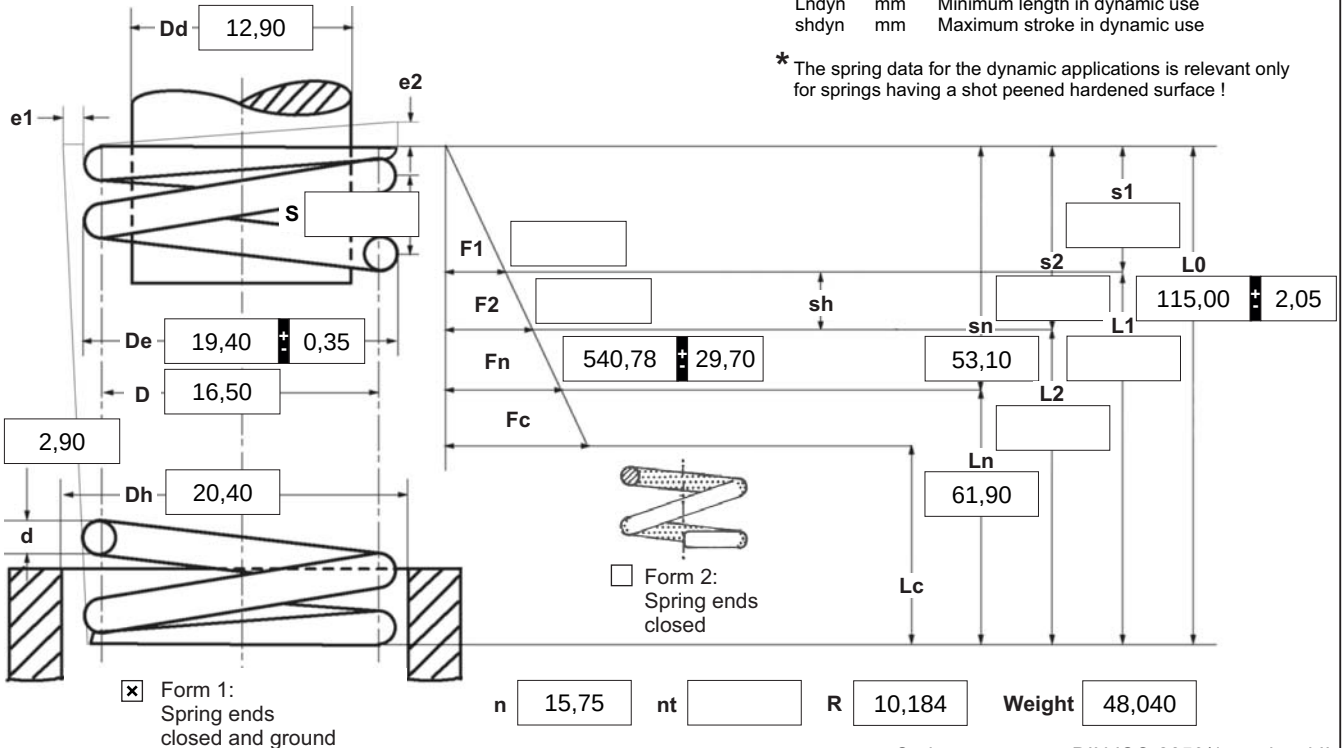


07.2025

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	



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 83,79 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: 15%;">Fndyn</td> <td style="width: 85%;"> 403,30 </td> </tr> <tr> <td>Fndtol</td> <td> 29,29 </td> </tr> <tr> <td>Lndyn</td> <td> 75,40 </td> </tr> <tr> <td>shdyn</td> <td> 16,49 </td> </tr> </table>	Fndyn	403,30	Fndtol	29,29	Lndyn	75,40	shdyn	16,49	8 Material EN 10270-1	13 Prouction compensation through 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																											
4 Stress cyc. end. N	10 Springs deburred ☐ inside ☐ outside																											
5 Stress cycle frequ. n /	11 Surface treatment ☐ shot peened 	14 Setting springs All springs which show setting tendency because of their size are pre-set within the production process.																										
6 Application temp. °C																												
Prices <table style="width: 100%;"> <tr> <th>Desconto por quantidade</th> <th>Preço individual [EUR]</th> </tr> <tr><td>1</td><td>5,9700 €</td></tr> <tr><td>2</td><td>4,2100 €</td></tr> <tr><td>3</td><td>4,0100 €</td></tr> <tr><td>7</td><td>3,2100 €</td></tr> <tr><td>17</td><td>1,7700 €</td></tr> <tr><td>37</td><td>1,3500 €</td></tr> <tr><td>75</td><td>1,1900 €</td></tr> <tr><td>125</td><td>0,9703 €</td></tr> <tr><td>175</td><td>0,8890 €</td></tr> <tr><td>250</td><td>0,8202 €</td></tr> <tr><td>350</td><td>0,7705 €</td></tr> <tr><td>450</td><td>0,7136 €</td></tr> </table>			Desconto por quantidade	Preço individual [EUR]	1	5,9700 €	2	4,2100 €	3	4,0100 €	7	3,2100 €	17	1,7700 €	37	1,3500 €	75	1,1900 €	125	0,9703 €	175	0,8890 €	250	0,8202 €	350	0,7705 €	450	0,7136 €
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