

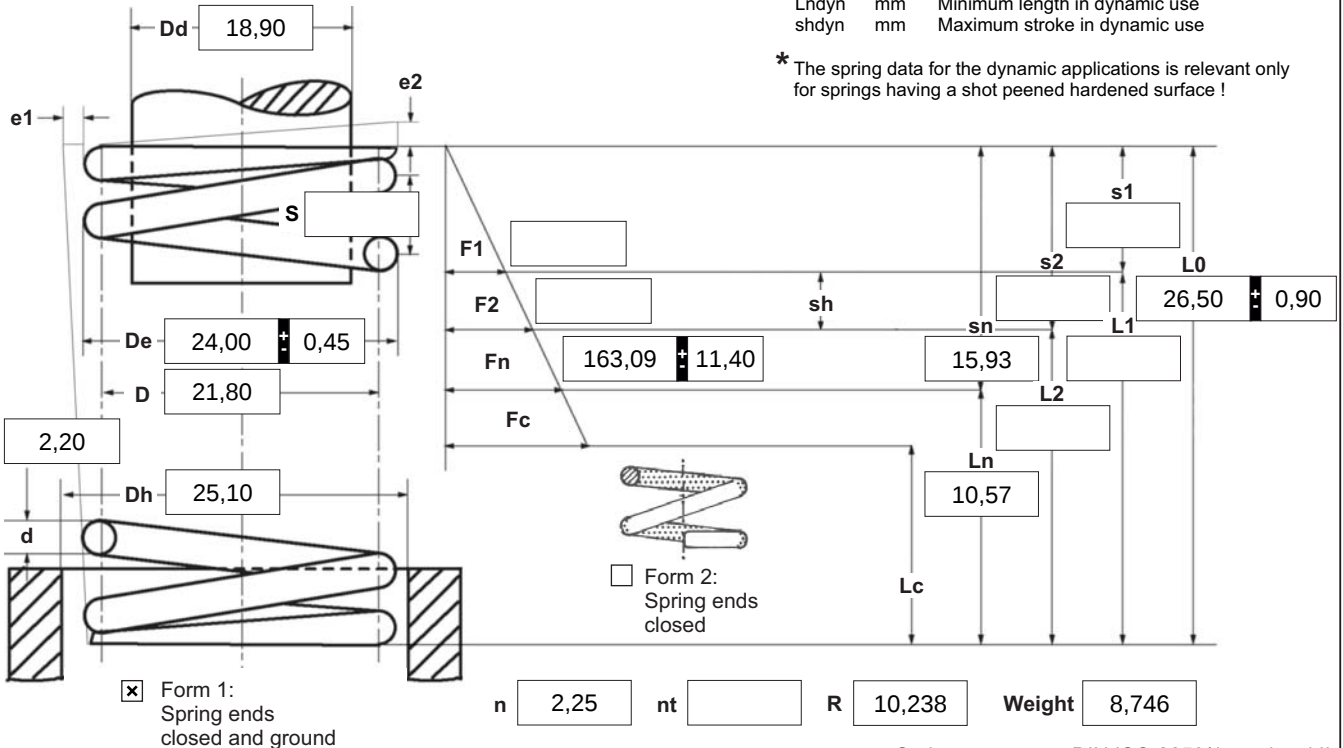
07.2025

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

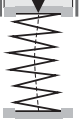
F _n	N	Maximum force in static use
F _c	N	Theoretic maximum force at L _c
L ₀	mm	Length of unstressed spring
L ₁	mm	Prestressed spring length
L ₂	mm	Loaded spring length
L _k	mm	Buckling length
L _n	mm	Minimum length in static use
L _c	mm	Block length
n	pc.	Active coils

nt	pc.	Total coils	07.2
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 0,00 mm		12 Tolerances to DIN EN 15800 <table><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	☐	☐	☐	☐						
Grade	De,Di,D	L0	F1,F2	e1,e2	Wire diameter d to DIN 2076																												
1	☐	☐	☐	☐	☒																												
2	☒	☒	☒	☒																													
3	☐	☐	☐	☐																													
2 Dynamic load * <table><tr><td>Fndyn</td><td> 156,64 </td></tr><tr><td>Fndtol</td><td> 11,31 </td></tr><tr><td>Lndyn</td><td> 11,20 </td></tr><tr><td>shdyn</td><td> 5,70 </td></tr></table>		Fndyn	156,64	Fndtol	11,31	Lndyn	11,20	shdyn	5,70	8 Material EN 10270-1		13 Prouction compensation through <table><tr><td>A spring resistance and associated length of tensed spring</td><td>L0</td><td>☐</td></tr><tr><td>A spring resistance, associated length of tensed spring and L0</td><td>n, d</td><td>☒</td></tr><tr><td></td><td>n, De, Di</td><td>☐</td></tr><tr><td>Two spring resistances and associated lengths of tensed spring</td><td>L0, n, d</td><td>☐</td></tr><tr><td></td><td>L0,n,De,Di</td><td>☐</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	☐					
Fndyn	156,64																																
Fndtol	11,31																																
Lndyn	11,20																																
shdyn	5,70																																
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	☐																															
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><tr><th>Desconto por quantidade</th><th>Preço individual</th></tr><tr><td>1</td><td>[EUR]</td></tr><tr><td>2</td><td>5,0100 €</td></tr><tr><td>3</td><td>3,5300 €</td></tr><tr><td>7</td><td>3,3700 €</td></tr><tr><td>17</td><td>2,1400 €</td></tr><tr><td>37</td><td>1,0400 €</td></tr><tr><td>75</td><td>0,6600 €</td></tr><tr><td>125</td><td>0,5000 €</td></tr><tr><td>175</td><td>0,4132 €</td></tr><tr><td>250</td><td>0,3696 €</td></tr><tr><td>350</td><td>0,3256 €</td></tr><tr><td>450</td><td>0,2842 €</td></tr><tr><td></td><td>0,2464 €</td></tr></table>		Desconto por quantidade	Preço individual	1	[EUR]	2	5,0100 €	3	3,5300 €	7	3,3700 €	17	2,1400 €	37	1,0400 €	75	0,6600 €	125	0,5000 €	175	0,4132 €	250	0,3696 €	350	0,3256 €	450	0,2842 €		0,2464 €
Desconto por quantidade	Preço individual																																
1	[EUR]																																
2	5,0100 €																																
3	3,5300 €																																
7	3,3700 €																																
17	2,1400 €																																
37	1,0400 €																																
75	0,6600 €																																
125	0,5000 €																																
175	0,4132 €																																
250	0,3696 €																																
350	0,3256 €																																
450	0,2842 €																																
	0,2464 €																																
5 Stress cycle frequ. n /		11 Surface treatment ☐ shot peened 																															
6 Application temp. °C																																	
Remarks País de origem: DE Número de tarifa alfandegária: 73202081																																	