

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 !

L_{ndyn} mm Minimum length in dynamic use
 s_{hdyn} mm Maximum stroke in dynamic use

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

Form 1: Spring ends closed and ground
 Form 2: Spring ends closed

Dimensions and values:
 Dd : 0,80
 $e1$: []
 $e2$: []
 S : []
 De : 1,32 $\pm$ 0,10
 D : 1,20
 $0,12$: []
 Dh : 1,60
 d : []
 $F1$: []
 $F2$: []
 F_n : 0,50 $\pm$ 0,05
 F_c : []
 sh : []
 sn : 3,51
 $L0$: 5,20 $\pm$ 0,30
 $L1$: []
 $L2$: []
 L_n : 1,70
 Lc : []
 n : 8,50
 nt : []
 R : 0,144
 Weight: 0,004

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

1 Coiling direction

☐ left ☒ right

2 Dynamic load *	
Fndyn	0,49
Fndtol	0,05
Lndyn	1,82
shdyn	1,11

3 Excursion sh

4 Stress cyc. end. N

5 Stress cycle frequ. n /

6 Application temp.	
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Remarks

Paese d'origine: DE | Numero della tariffa doganale: 73202081

7 Guidance and seat to DIN EN 13906-1

☐ mandrel ☐ bush

Buckling length **L_k** at

v=0,5 / Bild 5	0,00	mm
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8 Material

EN 10270-1

9 Wire or rod surface

☒ drawn ☐ rolled ☐ metal-cut

10 Springs deburred ☐ inside ☐ outside

11 Surface treatment ☐ shot peened

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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12 Tolerances to DIN EN 15800

Grade	De,Di,D	L0	F1,F2	e1,e2	Wire diameter d DIN 2076
1	☐	☐	☐	☐	
2	☒	☒	☒	☒	
3	☐	☐	☐	☐	

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	☐ ☐

14 Setting springs

All springs which show setting tendency because of their size are pre-set within the production process.

Prices

Quantità progressiva	Prezzo singolo [EUR]
1	4,8500 €
2	3,4200 €
3	3,2600 €
7	1,8400 €
17	0,8300 €
37	0,5200 €
75	0,3400 €
125	0,2817 €
175	0,2192 €
250	0,1878 €
350	0,1452 €
450	0,1264 €