

The following tolerances apply to springs made of standard materials:

Diameter tolerances

Nominal dimension		Admissible tolerances				
D_e or D_i [mm]		D_e [mm]		D_i [mm]		concentricity [mm]
greater than	up to	max.	min.	max.	min.	max.
3	6	0	-0.12	+0.12	0	0.15
6	10	0	-0.15	+0.15	0	0.18
10	18	0	-0.18	+0.18	0	0.22
18	30	0	-0.21	+0.21	0	0.26
30	50	0	-0.25	+0.25	0	0.32
50	80	0	-0.30	+0.30	0	0.60
80	120	0	-0.35	+0.35	0	0.70
120	180	0	-0.40	+0.40	0	0.80
180	250	0	-0.46	+0.46	0	0.92

Allowances for external and internal diameters and concentricity with springs according to DIN 2093

Thickness tolerances

Nominal spring thickness		Admissible tolerances	
t or t' [mm]		t or t' [mm]	
greater than	up to	max.	min.
0.20	0.60	+0.02	-0.06
0.60	1.25	+0.03	-0.09
1.25	3.80	+0.04	-0.12
3.80	6.00	+0.05	-0.15
6.00	16.00	+0.10	-0.10

Allowances for spring thickness with springs according to DIN 2093

Overall height tolerances

Nominal spring thickness		Admissible tolerances	
t or t' [mm]		l_0 [mm]	
greater than	up to	max.	min.
0.20	1.25	+0.10	-0.05
1.25	2.00	+0.15	-0.08
2.00	3.00	+0.20	-0.10
3.00	6.00	+0.30	-0.15
6.00	16.00	+0.30	-0.30

Allowances for the overall height with springs according to DIN 2093

Load tolerances

Nominal spring thickness		Admissible tolerances	
t or t' [mm]		F^* [%]	
greater than	up to	max.	min.
0.20	1.25	+25	-7.5
1.25	3.00	+15	-7.5
3.00	6.00	+10	-5.0
6.00	16.00	+5	-5.0

Allowances for the spring load with springs according to DIN 2093

* F with test length $l_p = l_0 - 0.75 \cdot h_0$

Notes on the disc spring table

The following tables, list the springs according to DIN 2093 as well as those to SCHNORR® Internal standards. Sizes according to DIN 2093 are shown in heavy type. The prefix A, B or C shows the corresponding series. All sizes listed are in production and normally available from stock. The Article number quoted is the normal manufacture from spring steel with phosphate finish.

The load and the corresponding stresses are given for the three points $s = 0.25 h_0$, $s = 0.5 h_0$, $s = 0.75 h_0$. From $s > 0.75 h_0$, the actual characteristic curve increases progressively, contrary to the calculation (the table contains calculated values).

Disc springs according to group 3 are provided with turned bearing surfaces and reduced disc thickness. The disc's force increased by the bearing surfaces is compensated by means of the reduced disc thickness t' .

Disc thickness t' corresponds to the effective thickness of the spring and must be accounted for with parallel stacking for determining the column length. The elastic force applies to disc springs made of spring steel.

Original SCHNORR® disc springs

The following dimension tables describe:

- > Standard materials (C75S and 51CrV4)
- > Corrosion-resistant materials (X10 CrNi 18-8)

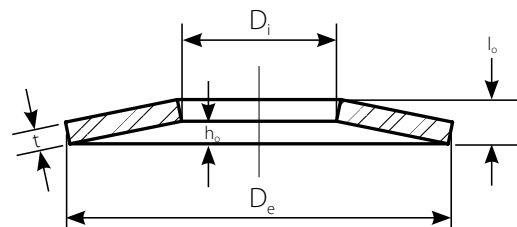
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Further versions:

Furthermore, we also manufacture from special materials, such as:

- > Steel grades for higher temperatures (X22 CrMoV 12-1, X39 CrMo 17-1)
- > Copper alloys (CuSn 8, CuBe 2)
- > Nickel and cobalt alloys (Nimonic 90, Inconel X750, Inconel 718)
- > and other material grades

For this, please see our material grade overview table on pages 38 and 39



Reference for a disc spring

$D_e = 40 \text{ mm}$, $D_i = 20.4 \text{ mm}$, $t = 1.5 \text{ mm}$:
Disc spring 40 x 20.4 x 1.5
according to DIN 2093: DIN 2093-B 40
or Article no. 012 800

Original SCHNORR® disc springs standard material

dia. 6 - 15 mm

Article number/ Order reference	Ordering dimensions						Weight per 1000 pieces [kg]	Spring travel s and force F					
	D_e [mm]	D_i [mm]	t [mm]	t' [mm]	l_o [mm]	h_o [mm]		at $s = 0.25 h_o$ s [mm]	F [N]	at $s = 0.50 h_o$ s [mm]	F [N]	at $s \approx 0.75 h_o$ s [mm]	F [N]
000 100	6.00	3.20	0.30		0.45	0.15	0.044	0.038	45	0.075	84	0.113	119
000 200	8.00	3.20	0.20		0.40	0.20	0.064	0.050	12	0.100	21	0.150	26
000 300	8.00	3.20	0.30		0.55	0.25	0.093	0.063	46	0.125	79	0.188	104
000 400	8.00	3.20	0.40		0.60	0.20	0.126	0.050	69	0.100	130	0.150	186
000 550 C	8.00	4.20	0.20		0.45	0.25	0.055	0.063	21	0.125	33	0.188	39
000 600 B	8.00	4.20	0.30		0.55	0.25	0.080	0.063	52	0.125	89	0.188	118
000 700 A	8.00	4.20	0.40		0.60	0.20	0.107	0.050	78	0.100	147	0.150	210
000 800	10.00	3.20	0.30		0.65	0.35	0.157	0.088	51	0.175	82	0.263	98
000 900	10.00	3.20	0.40		0.70	0.30	0.211	0.075	75	0.150	133	0.225	179
001 000	10.00	3.20	0.50		0.75	0.25	0.266	0.063	104	0.125	196	0.188	279
001 100	10.00	4.20	0.40		0.70	0.30	0.193	0.075	79	0.150	140	0.225	189
001 200	10.00	4.20	0.50		0.75	0.25	0.243	0.063	110	0.125	206	0.188	294
001 300 C	10.00	5.20	0.25		0.55	0.30	0.109	0.075	31	0.150	48	0.225	58
001 400 B	10.00	5.20	0.40		0.70	0.30	0.170	0.075	88	0.150	155	0.225	209
001 500 A	10.00	5.20	0.50		0.75	0.25	0.214	0.063	122	0.125	228	0.188	325
001 600	12.00	4.20	0.40		0.80	0.40	0.297	0.100	85	0.200	141	0.300	178
001 700	12.00	4.20	0.50		0.85	0.35	0.374	0.088	116	0.175	208	0.263	284
001 800	12.00	4.20	0.60		1.00	0.40	0.450	0.100	224	0.200	405	0.300	557
001 900	12.00	5.20	0.50		0.90	0.40	0.345	0.100	151	0.200	263	0.300	350
002 000	12.00	5.20	0.60		0.95	0.35	0.415	0.088	196	0.175	361	0.263	506
002 100	12.00	6.20	0.50		0.85	0.35	0.310	0.088	134	0.175	239	0.263	326
002 200	12.00	6.20	0.60		0.95	0.35	0.373	0.088	214	0.175	394	0.263	552
002 300	12.50	5.20	0.50		0.85	0.35	0.382	0.088	111	0.175	200	0.263	272
002 050 C	12.50	6.20	0.35		0.80	0.45	0.251	0.113	84	0.225	130	0.338	151
002 500 B	12.50	6.20	0.50		0.85	0.35	0.346	0.088	120	0.175	215	0.263	294
002 700 A	12.50	6.20	0.70		1.00	0.30	0.488	0.075	240	0.150	457	0.225	660
002 750 C	14.00	7.20	0.35		0.80	0.45	0.308	0.113	68	0.225	106	0.338	123
002 800 B	14.00	7.20	0.50		0.90	0.40	0.425	0.100	120	0.200	210	0.300	279
002 900 A	14.00	7.20	0.80		1.10	0.30	0.676	0.075	284	0.150	547	0.225	797
003 000	15.00	5.20	0.40		0.95	0.55	0.468	0.138	101	0.275	154	0.413	176
003 100	15.00	5.20	0.50		1.00	0.50	0.588	0.125	133	0.250	221	0.375	278
003 200	15.00	5.20	0.60		1.05	0.45	0.708	0.113	171	0.225	302	0.338	407
003 300	15.00	5.20	0.70		1.10	0.40	0.828	0.100	214	0.200	395	0.300	555
003 500	15.00	6.20	0.50		1.00	0.50	0.553	0.125	138	0.250	230	0.375	289
003 600	15.00	6.20	0.60		1.05	0.45	0.665	0.113	178	0.225	314	0.338	424
003 700	15.00	6.20	0.70		1.10	0.40	0.778	0.100	222	0.200	411	0.300	578
003 800	15.00	8.20	0.70		1.10	0.40	0.654	0.100	256	0.200	474	0.300	666
003 900	15.00	8.20	0.80		1.20	0.40	0.740	0.100	367	0.200	689	0.300	982

Original SCHNORR® disc springs standard material											dia. 16 - 23 mm		
Article number/ Order reference	Ordering dimensions						Weight	Spring travel s and force F					
	D _e	D _i	t	t'	l _o	h _o	per 1000 pieces	at s = 0.25 h _o		at s = 0.50 h _o		at s = 0.75 h _o	
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	s	F	s	F	s	F
								[mm]	[N]	[mm]	[N]	[mm]	[N]
004 100 C	16.00	8.20	0.40		0.90	0.50	0.444	0.125	84	0.250	131	0.375	154
004 300 B	16.00	8.20	0.60		1.05	0.45	0.672	0.113	172	0.225	304	0.338	410
004 400	16.00	8.20	0.70		1.15	0.45	0.786	0.113	254	0.225	461	0.338	637
004 500	16.00	8.20	0.80		1.20	0.40	0.888	0.100	308	0.200	579	0.300	825
004 600 A	16.00	8.20	0.90		1.25	0.35	1.002	0.088	363	0.175	697	0.263	1013
004 700	18.00	6.20	0.40		1.00	0.60	0.677	0.150	85	0.300	126	0.450	139
004 800	18.00	6.20	0.50		1.10	0.60	0.850	0.150	130	0.300	206	0.450	246
004 900	18.00	6.20	0.60		1.20	0.60	1.024	0.150	191	0.300	317	0.450	400
005 000	18.00	6.20	0.70		1.25	0.55	1.197	0.138	236	0.275	414	0.413	553
005 100	18.00	6.20	0.80		1.30	0.50	1.353	0.125	286	0.250	523	0.375	726
005 200	18.00	8.20	0.50		1.10	0.60	0.762	0.150	140	0.300	222	0.450	265
005 300	18.00	8.20	0.70		1.25	0.55	1.073	0.138	255	0.275	446	0.413	596
005 400	18.00	8.20	0.80		1.30	0.50	1.213	0.125	309	0.250	564	0.375	783
005 500	18.00	8.20	1.00		1.40	0.40	1.524	0.100	425	0.200	815	0.300	1181
005 550 C	18.00	9.20	0.45		1.05	0.60	0.651	0.150	121	0.300	186	0.450	214
005 600 B	18.00	9.20	0.70		1.20	0.50	0.999	0.125	233	0.250	417	0.375	566
005 700 A	18.00	9.20	1.00		1.40	0.40	1.418	0.100	451	0.200	865	0.300	1254
005 800	20.00	8.20	0.60		1.30	0.70	1.191	0.175	214	0.350	342	0.525	412
005 900	20.00	8.20	0.70		1.35	0.65	1.393	0.163	262	0.325	442	0.488	569
006 000	20.00	8.20	0.80		1.40	0.60	1.574	0.150	315	0.300	557	0.450	751
006 100	20.00	8.20	0.90		1.45	0.55	1.776	0.138	374	0.275	685	0.413	954
006 200	20.00	8.20	1.00		1.55	0.55	1.978	0.138	494	0.275	918	0.413	1295
006 300 C	20.00	10.20	0.50		1.15	0.65	0.876	0.163	141	0.325	219	0.488	254
006 400 B	20.00	10.20	0.80		1.35	0.55	1.394	0.138	304	0.275	547	0.413	748
006 500	20.00	10.20	0.90		1.45	0.55	1.573	0.138	412	0.275	754	0.413	1050
006 600	20.00	10.20	1.00		1.55	0.55	1.752	0.138	544	0.275	1010	0.413	1425
006 700 A	20.00	10.20	1.10		1.55	0.45	1.913	0.113	548	0.225	1050	0.338	1521
006 800	20.00	10.20	1.25		1.75	0.50	2.181	0.125	890	0.250	1708	0.375	2477
006 900	20.00	10.20	1.50		1.80	0.30	2.610	0.075	857	0.150	1695	0.225	2521
007 000 C	22.50	11.20	0.60		1.40	0.80	1.361	0.200	241	0.400	370	0.600	426
007 100 B	22.50	11.20	0.80		1.45	0.65	1.799	0.163	306	0.325	533	0.488	708
007 200 A	22.50	11.20	1.25		1.75	0.50	2.814	0.125	693	0.250	1330	0.375	1929
007 400	23.00	8.20	0.70		1.50	0.80	1.939	0.200	280	0.400	448	0.600	544
007 500	23.00	8.20	0.80		1.55	0.75	2.192	0.188	332	0.375	560	0.563	719
007 600	23.00	8.20	0.90		1.60	0.70	2.472	0.175	391	0.350	687	0.525	919
007 700	23.00	8.20	1.00		1.70	0.70	2.753	0.175	507	0.350	909	0.525	1240
007 800	23.00	10.20	0.90		1.65	0.75	2.270	0.188	463	0.375	802	0.563	1058
007 900	23.00	10.20	1.00		1.70	0.70	2.527	0.175	538	0.350	964	0.525	1315
008 000	23.00	10.20	1.25		1.90	0.65	3.172	0.163	870	0.325	1627	0.488	2310
008 100	23.00	12.20	1.00		1.60	0.60	2.255	0.150	475	0.300	872	0.450	1217
008 200	23.00	12.20	1.25		1.85	0.60	2.807	0.150	864	0.300	1630	0.450	2331
008 350	23.00	12.20	1.50		2.00	0.50	3.359	0.125	1159	0.250	2250	0.375	3297

Original SCHNORR® disc springs standard material											dia. 25 - 50 mm		
Article number/ Order reference	Ordering dimensions						Weight	Spring travel s and force F					
	D _e	D _i	t	t'	l _o	h _o	per 1000 pieces	at s = 0.25 h _o		at s = 0.50 h _o		at s = 0.75 h _o	
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	s	F	s	F	s	F
								[mm]	[N]	[mm]	[N]	[mm]	[N]
008 600	25.00	10.20	1.00		1.75	0.75	3.105	0.188	492	0.375	870	0.563	1172
008 700 C	25.00	12.20	0.70		1.60	0.90	1.994	0.225	331	0.450	515	0.675	600
008 800 B	25.00	12.20	0.90		1.60	0.70	2.543	0.175	367	0.350	644	0.525	862
008 900	25.00	12.20	1.00		1.80	0.80	2.832	0.200	585	0.400	1021	0.600	1359
009 000	25.00	12.20	1.25		1.95	0.70	3.526	0.175	848	0.350	1573	0.525	2214
009 100 A	25.00	12.20	1.50		2.05	0.55	4.219	0.138	1040	0.275	2007	0.413	2926
009 200	28.00	10.20	0.80		1.75	0.95	3.233	0.238	348	0.475	553	0.713	662
009 300	28.00	10.20	1.00		1.90	0.90	4.062	0.225	512	0.450	872	0.675	1130
009 400	28.00	10.20	1.25		2.05	0.80	5.057	0.200	737	0.400	1339	0.600	1853
009 500	28.00	10.20	1.50		2.20	0.70	6.051	0.175	1003	0.350	1899	0.525	2723
009 600	28.00	12.20	1.00		1.95	0.95	3.789	0.238	590	0.475	992	0.713	1268
009 700	28.00	12.20	1.25		2.10	0.85	4.717	0.213	844	0.425	1519	0.638	2083
009 800	28.00	12.20	1.50		2.25	0.75	5.645	0.188	1149	0.375	2159	0.563	3077
009 900 C	28.00	14.20	0.80		1.80	1.00	2.760	0.250	435	0.500	681	0.750	801
010 000 B	28.00	14.20	1.00		1.80	0.80	3.468	0.200	476	0.400	832	0.600	1107
010 100	28.00	14.20	1.25		2.10	0.85	4.317	0.213	908	0.425	1634	0.638	2240
010 200 A	28.00	14.20	1.50		2.15	0.65	5.166	0.163	1033	0.325	1970	0.488	2841
010 300	31.50	12.20	1.00		2.10	1.10	5.035	0.275	587	0.550	951	0.825	1167
010 400	31.50	12.20	1.25		2.20	0.95	6.268	0.238	761	0.475	1343	0.713	1805
010 500	31.50	12.20	1.50		2.35	0.85	7.501	0.213	1033	0.425	1912	0.638	2688
010 650 C	31.50	16.30	0.80		1.85	1.05	3.442	0.263	384	0.525	594	0.788	687
010 700 B	31.50	16.30	1.25		2.15	0.90	5.384	0.225	791	0.450	1409	0.675	1913
010 800	31.50	16.30	1.50		2.40	0.90	6.443	0.225	1260	0.450	2314	0.675	3230
010 900 A	31.50	16.30	1.75		2.45	0.70	7.546	0.175	1391	0.350	2669	0.525	3871
011 000	31.50	16.30	2.00		2.75	0.75	8.605	0.188	2199	0.375	4239	0.563	6173
011 100	34.00	12.30	1.00		2.25	1.25	6.006	0.313	637	0.625	998	0.938	1174
011 200	34.00	12.30	1.25		2.35	1.10	7.477	0.275	815	0.550	1395	0.825	1818
011 300	34.00	12.30	1.50		2.50	1.00	8.948	0.250	1097	0.500	1982	0.750	2725
011 400	34.00	14.30	1.25		2.40	1.15	7.074	0.288	913	0.575	1546	0.863	1993
011 500	34.00	14.30	1.50		2.55	1.05	8.465	0.263	1224	0.525	2192	0.788	2990
011 600	34.00	16.30	1.50		2.55	1.05	7.911	0.263	1291	0.525	2313	0.788	3155
011 700	34.00	16.30	2.00		2.85	0.85	10.570	0.213	2097	0.425	4003	0.638	5783
011 850 C	35.50	18.30	0.90		2.05	1.15	4.952	0.288	458	0.575	713	0.863	832
011 900 B	35.50	18.30	1.25		2.25	1.00	6.865	0.250	731	0.500	1277	0.750	1699
012 000 A	35.50	18.30	2.00		2.80	0.80	10.970	0.200	1864	0.400	3576	0.600	5187
012 100	40.00	14.30	1.25		2.65	1.40	10.400	0.350	904	0.700	1459	1.050	1780
012 200	40.00	14.30	1.50		2.75	1.25	12.450	0.313	1114	0.625	1929	0.938	2545
012 300	40.00	14.30	2.00		3.05	1.05	16.630	0.263	1800	0.525	3363	0.788	4769
012 400	40.00	16.30	1.50		2.80	1.30	11.890	0.325	1225	0.650	2103	0.975	2749
012 500	40.00	16.30	2.00		3.10	1.10	15.890	0.275	1972	0.550	3663	0.825	5169
012 600	40.00	18.30	2.00		3.15	1.15	15.040	0.288	2182	0.575	4030	0.863	5656
012 700 C	40.00	20.40	1.00		2.30	1.30	7.067	0.325	565	0.650	876	0.975	1017
012 800 B	40.00	20.40	1.50		2.65	1.15	10.530	0.288	1109	0.575	1953	0.863	2622
012 900	40.00	20.40	2.00		3.10	1.10	14.060	0.275	2175	0.550	4041	0.825	5701
013 000 A	40.00	20.40	2.25		3.15	0.90	15.720	0.225	2336	0.450	4481	0.675	6500
013 100	40.00	20.40	2.50		3.45	0.95	17.520	0.238	3351	0.475	6453	0.713	9390
013 250 C	45.00	22.40	1.25		2.85	1.60	11.340	0.400	1041	0.800	1620	1.200	1891
013 300 B	45.00	22.40	1.75		3.05	1.30	15.890	0.325	1524	0.650	2701	0.975	3646
013 400 A	45.00	22.40	2.50		3.50	1.00	22.770	0.250	2773	0.500	5320	0.750	7716
013 500	50.00	18.40	1.25		2.85	1.60	16.130	0.400	757	0.800	1178	1.200	1375
013 600	50.00	18.40	1.50		3.30	1.80	19.310	0.450	1379	0.900	2184	1.350	2606

Original SCHNORR® disc springs standard material											dia. 50 - 100 mm		
Article number/ Order reference	Ordering dimensions						Weight	Spring travel s and force F					
	D _e	D _i	t	t'	l ₀	h ₀	per 1000 pieces	at s = 0.25 h ₀		at s = 0.50 h ₀		at s ≈ 0.75 h ₀	
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	s	F	s	F	s	F
								[mm]	[N]	[mm]	[N]	[mm]	[N]
013 700	50.00	18.40	2.00		3.50	1.50	25.790	0.375	1918	0.750	3393	1.125	4572
013 800	50.00	18.40	2.50		4.10	1.60	32.140	0.400	3703	0.800	6733	1.200	9315
013 900	50.00	18.40	3.00		4.40	1.40	38.350	0.350	5043	0.700	9546	1.050	13688
014 000	50.00	20.40	2.00		3.50	1.50	24.850	0.375	1966	0.750	3478	1.125	4687
014 100	50.00	20.40	2.50		3.85	1.35	30.970	0.338	3008	0.675	5601	1.013	7919
014 200	50.00	22.40	2.00		3.60	1.60	23.820	0.400	2247	0.800	3924	1.200	5222
014 300	50.00	22.40	2.50		3.90	1.40	29.680	0.350	3261	0.700	6044	1.050	8510
014 400 C	50.00	25.40	1.25		2.85	1.60	13.820	0.400	854	0.800	1328	1.200	1550
014 500	50.00	25.40	1.50		3.10	1.60	16.540	0.400	1242	0.800	2029	1.200	2512
014 600 B	50.00	25.40	2.00		3.40	1.40	22.090	0.350	1949	0.700	3491	1.050	4762
014 700	50.00	25.40	2.50		3.90	1.40	27.520	0.350	3473	0.700	6437	1.050	9063
014 800 A	50.00	25.40	3.00		4.10	1.10	32.850	0.275	4255	0.550	8214	0.825	11977
014 950 C	56.00	28.50	1.50		3.45	1.95	20.850	0.488	1458	0.975	2259	1.463	2622
015 000 B	56.00	28.50	2.00		3.60	1.60	27.810	0.400	1910	0.800	3335	1.200	4438
015 100 A	56.00	28.50	3.00		4.30	1.30	41.570	0.325	4142	0.650	7895	0.975	11388
015 200	60.00	20.50	2.00		4.10	2.10	38.160	0.525	2318	1.050	3802	1.575	4730
015 300	60.00	20.50	2.50		4.30	1.80	47.690	0.450	3018	0.900	5379	1.350	7302
015 400	60.00	20.50	3.00		4.70	1.70	57.040	0.425	4449	0.850	8234	1.275	11577
015 500	60.00	25.50	2.50		4.40	1.90	44.200	0.475	3447	0.950	6081	1.425	8175
015 600	60.00	25.50	3.00		4.65	1.65	52.860	0.413	4495	0.825	8352	1.238	11784
015 700	60.00	30.50	2.50		4.30	1.80	39.940	0.450	3447	0.900	6145	1.350	8342
015 800	60.00	30.50	3.00		4.70	1.70	47.770	0.425	5083	0.850	9407	1.275	13226
015 900	60.00	30.50	3.50		5.00	1.50	55.100	0.375	6591	0.750	12574	1.125	18153
016 050 C	63.00	31.00	1.80		4.15	2.35	32.530	0.588	2364	1.175	3658	1.763	4238
016 100 B	63.00	31.00	2.50		4.25	1.75	44.850	0.438	2942	0.875	5270	1.313	7189
016 200	63.00	31.00	3.00		4.80	1.80	53.860	0.450	4891	0.900	8981	1.350	12536
016 300 A	63.00	31.00	3.50		4.90	1.40	62.130	0.350	5399	0.700	10359	1.050	15025
016 400	70.00	25.50	2.00		4.50	2.50	50.780	0.625	2408	1.250	3771	1.875	4437
016 500	70.00	30.50	2.50		4.90	2.40	59.530	0.600	3755	1.200	6297	1.800	8031
016 600	70.00	30.50	3.00		5.10	2.10	71.190	0.525	4676	1.050	8376	1.575	11426
016 700	70.00	35.50	3.00		5.10	2.10	65.210	0.525	5028	1.050	9007	1.575	12288
016 800	70.00	35.50	4.00		5.80	1.80	86.130	0.450	8757	0.900	16634	1.350	23923
016 900	70.00	40.50	4.00		5.60	1.60	77.040	0.400	8391	0.800	16099	1.200	23351
017 000	70.00	40.50	5.00		6.20	1.20	95.150	0.300	11544	0.600	22728	0.900	33672
017 100 C	71.00	36.00	2.00		4.60	2.60	44.660	0.650	2861	1.300	4432	1.950	5144
017 200 B	71.00	36.00	2.50		4.50	2.00	56.110	0.500	2894	1.000	5054	1.500	6725
017 300 A	71.00	36.00	4.00		5.60	1.60	88.630	0.400	7379	0.800	14157	1.200	20535
017 400	80.00	31.00	2.50		5.30	2.80	82.010	0.700	3678	1.400	5933	2.100	7239
017 500	80.00	31.00	3.00		5.50	2.50	98.010	0.625	4531	1.250	7847	1.875	10352
017 600	80.00	31.00	4.00		6.10	2.10	130.000	0.525	7319	1.050	13677	1.575	19394
017 700	80.00	36.00	3.00		5.70	2.70	91.920	0.675	5401	1.350	9196	2.025	11919
017 800	80.00	36.00	4.00		6.20	2.20	121.900	0.550	8164	1.100	15168	1.650	21400
017 850 C	80.00	41.00	2.25		5.20	2.95	63.540	0.738	3698	1.475	5715	2.213	6613
017 900 B	80.00	41.00	3.00		5.30	2.30	84.920	0.575	4450	1.150	7838	1.725	10518
018 000	80.00	41.00	4.00		6.20	2.20	112.600	0.550	8726	1.100	16213	1.650	22874
018 100 A	80.00	41.00	5.00		6.70	1.70	139.500	0.425	11821	0.850	22928	1.275	33559
018 200 C	90.00	46.00	2.50		5.70	3.20	89.740	0.800	4232	1.600	6585	2.400	7684
018 300 B	90.00	46.00	3.50		6.00	2.50	125.300	0.625	5836	1.250	10416	1.875	14161
018 400 A	90.00	46.00	5.00		7.00	2.00	177.600	0.500	11267	1.000	21617	1.500	31354
018 500	100.00	41.00	4.00		7.20	3.20	200.000	0.800	8714	1.600	15219	2.400	20251
018 600	100.00	41.00	5.00		7.75	2.75	248.900	0.688	12345	1.375	22937	2.063	32361

Original SCHNORR® disc springs standard material							dia. 100 - 200 mm						
Article number/ Order reference	Ordering dimensions						Weight	Spring travel s and force F					
	D _e [mm]	D _i [mm]	t [mm]	t' [mm]	l _o [mm]	h _o [mm]	per 1000 pieces [kg]	at s = 0.25 h _o		at s = 0.50 h _o		at s = 0.75 h _o	
								s [mm]	F [N]	s [mm]	F [N]	s [mm]	F [N]
018 750 C	100.00	51.00	2.70		6.20	3.50	120.100	0.875	4779	1.750	7410	2.625	8609
018 800 B	100.00	51.00	3.50		6.30	2.80	155.400	0.700	5624	1.400	9823	2.100	13070
018 900	100.00	51.00	4.00		7.00	3.00	177.600	0.750	8673	1.500	15341	2.250	20674
019 000	100.00	51.00	5.00		7.80	2.80	221.100	0.700	13924	1.400	25810	2.100	36339
019 150 A	100.00	51.00	6.00		8.20	2.20	262.800	0.550	17061	1.100	32937	1.650	48022
019 250 C	112.00	57.00	3.00		6.90	3.90	168.000	0.975	5834	1.950	9038	2.925	10489
019 300 B	112.00	57.00	4.00		7.20	3.20	222.700	0.800	7639	1.600	13341	2.400	17752
019 450 A	112.00	57.00	6.00		8.50	2.50	332.100	0.625	15800	1.250	30215	1.875	43707
019 500	125.00	41.00	4.00		8.20	4.20	338.100	1.050	8501	2.100	13943	3.150	17346
019 600	125.00	51.00	4.00		8.50	4.50	315.600	1.125	10096	2.250	16265	3.375	19817
019 700	125.00	51.00	5.00		8.90	3.90	391.500	0.975	13063	1.950	22931	2.925	30669
019 850	125.00	51.00	6.00		9.40	3.40	465.800	0.850	17027	1.700	31514	2.550	44307
019 900	125.00	61.00	5.00		9.00	4.00	357.600	1.000	14615	2.000	25526	3.000	33966
020 050	125.00	61.00	6.00		9.60	3.60	425.400	0.900	19789	1.800	36336	2.700	50722
020 100	125.00	61.00	8.00	7.50	10.90	2.90	547.300	0.725	34434	1.450	65305	2.175	93577
020 200 C	125.00	64.00	3.50		8.00	4.50	242.300	1.125	8514	2.250	13231	3.375	15416
020 300 B	125.00	64.00	5.00		8.50	3.50	346.200	0.875	12238	1.750	21924	2.625	29908
020 400 A	125.00	64.00	8.00	7.50	10.60	2.60	529.900	0.650	31119	1.300	59520	1.950	85926
020 550	125.00	71.00	6.00		9.30	3.30	377.900	0.825	19538	1.650	36302	2.475	51304
020 600	125.00	71.00	8.00	7.40	10.40	2.40	479.600	0.600	30867	1.200	59149	1.800	85494
020 700	125.00	71.00	10.00	9.20	11.80	1.80	596.300	0.450	42964	0.900	84219	1.350	124124
020 850 C	140.00	72.00	3.80		8.70	4.90	329.700	1.225	9514	2.450	14773	3.675	17195
020 900 B	140.00	72.00	5.00		9.00	4.00	433.200	1.000	12014	2.000	20982	3.000	27920
021 000 A	140.00	72.00	8.00	7.50	11.20	3.20	663.000	0.800	31903	1.600	59967	2.400	85251
021 100	150.00	61.00	5.00		10.30	5.30	565.000	1.325	15292	2.650	25021	3.975	31041
021 250	150.00	61.00	6.00		10.80	4.80	676.800	1.200	19560	2.400	34161	3.600	45456
021 350	150.00	71.00	6.00		10.80	4.80	628.900	1.200	20721	2.400	36189	3.600	48155
021 400	150.00	71.00	8.00	7.50	12.00	4.00	803.600	1.000	35296	2.000	64684	3.000	89851
021 500	150.00	81.00	8.00	7.50	11.70	3.70	732.900	0.925	34518	1.850	63877	2.775	89532
021 600	150.00	81.00	10.00	9.30	13.00	3.00	908.800	0.750	50088	1.500	96121	2.250	139128
021 650 C	160.00	82.00	4.30		9.90	5.60	492.200	1.400	12162	2.800	18833	4.200	21843
021 750 B	160.00	82.00	6.00		10.50	4.50	679.800	1.125	17203	2.250	30431	3.375	41008
021 800 A	160.00	82.00	10.00	9.40	13.50	3.50	1089.000	0.875	50547	1.750	96216	2.625	138331
021 850 C	180.00	92.00	4.80		11.00	6.20	705.300	1.550	14646	3.100	22731	4.650	26442
021 950 B	180.00	92.00	6.00		11.10	5.10	862.500	1.275	16558	2.550	28552	3.825	37502
022 000 A	180.00	92.00	10.00	9.40	14.00	4.00	1381.000	1.000	46850	2.000	88141	3.000	125417
022 100	200.00	82.00	8.00	7.60	14.20	6.20	1554.000	1.550	35029	3.100	60013	4.650	78034
022 200	200.00	82.00	10.00	9.60	15.50	5.50	1962.000	1.375	51105	2.750	93357	4.125	129445
022 300	200.00	82.00	12.00	11.50	16.60	4.60	2351.000	1.150	66924	2.300	127191	3.450	182737
022 400	200.00	92.00	10.00	9.50	15.60	5.60	1840.000	1.400	55136	2.800	100014	4.200	137688
022 500	200.00	92.00	12.00	11.40	16.80	4.80	2208.000	1.200	73913	2.400	139548	3.600	199269
022 600	200.00	92.00	14.00	13.10	18.10	4.10	2537.000	1.025	95633	2.050	184092	3.075	267227
022 650 C	200.00	102.00	5.50		12.50	7.00	999.300	1.750	19817	3.500	30882	5.250	36111
022 700 B	200.00	102.00	8.00	7.50	13.60	5.60	1363.000	1.400	33367	2.800	57955	4.200	76378
022 800	200.00	102.00	10.00	9.40	15.60	5.60	1708.000	1.400	58757	2.800	106099	4.200	145357
022 900 A	200.00	102.00	12.00	11.25	16.20	4.20	2044.000	1.050	66983	2.100	127401	3.150	183020
023 000	200.00	102.00	14.00	13.10	18.20	4.20	2380.000	1.050	103781	2.100	199476	3.150	289181
023 100	200.00	112.00	12.00	11.10	16.20	4.20	1870.000	1.050	72257	2.100	136873	3.150	195830
023 200	200.00	112.00	14.00	12.90	17.50	3.50	2173.000	0.875	91033	1.750	176156	2.625	256758

Original SCHNORR® disc springs standard material											dia. 200 - 250 mm		
Article number/ Order reference	Ordering dimensions						Weight	Spring travel s and force F					
	D _e	D _i	t	t'	l ₀	h ₀	per 1000 pieces	at s = 0.25 h ₀		at s = 0.50 h ₀		at s = 0.75 h ₀	
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	s	F	s	F	s	F
	[mm]							[mm]	[N]	[mm]	[N]	[mm]	[N]
023 300	200.00	112.00	16.00	14.80	18.80	2.80	2493.000	0.700	105268	1.400	206697	2.100	305100
023 350 C	225.00	112.00	6.50	6.20	13.60	7.10	1450.000	1.775	23583	3.550	37417	5.325	44580
023 400 B	225.00	112.00	8.00	7.50	14.50	6.50	1754.000	1.625	32870	3.250	55412	4.875	70749
023 500 A	225.00	112.00	12.00	11.25	17.00	5.00	2631.000	1.250	64497	2.500	120738	3.750	171016
023 600	250.00	102.00	10.00	9.60	18.00	8.00	3075.000	2.000	56867	4.000	97282	6.000	126387
023 700	250.00	102.00	12.00	11.50	19.00	7.00	3683.000	1.750	73563	3.500	133131	5.250	182962
023 750 C	250.00	127.00	7.00	6.70	14.80	7.80	1909.000	1.950	26895	3.900	42527	5.850	50466
023 800 B	250.00	127.00	10.00	9.40	17.00	7.00	2678.000	1.750	51871	3.500	90206	5.250	119053
023 900	250.00	127.00	12.00	11.25	19.30	7.30	3205.000	1.825	87633	3.650	156021	5.475	210806
024 000 A	250.00	127.00	14.00	13.10	19.60	5.60	3732.000	1.400	93239	2.800	175145	4.200	248828
024 100	250.00	127.00	16.00	15.00	21.80	5.80	4273.000	1.450	140941	2.900	267296	4.350	383017

Corrosion-resistant SCHNORR® disc springs, material 1.4310 (X10 CrNi 18-8)											dia. 6 - 15 mm	
Article number/ Order reference	Ordering dimensions					Weight	Spring travel s and force F					
	D _e	D _i	t	l ₀	h ₀	per 1000	at s = 0.25 h ₀		at s = 0.50 h ₀		at s = 0.75 h ₀	
	[mm]	[mm]	[mm]	[mm]	[mm]	pieces	s	F	s	F	s	F
	[mm]		[mm]	[mm]		[kg]	[mm]	[N]	[mm]	[N]	[mm]	[N]
024 650	6.00	3.20	0.30	0.45	0.15	0.047	0.038	41	0.075	77	0.113	110
025 250	8.00	3.20	0.20	0.40	0.20	0.066	0.050	11	0.100	19	0.150	24
025 400	8.00	3.20	0.30	0.55	0.25	0.098	0.063	42	0.125	73	0.188	96
025 700	8.00	3.20	0.40	0.55	0.15	0.131	0.038	45	0.075	87	0.113	126
026 300	8.00	3.20	0.50	0.70	0.20	0.166	0.050	119	0.100	227	0.150	330
026 700	8.00	4.20	0.20	0.45	0.25	0.057	0.063	20	0.125	31	0.188	36
027 100	8.00	4.20	0.30	0.50	0.20	0.085	0.050	34	0.100	61	0.150	84
027 400	8.00	4.20	0.40	0.60	0.20	0.113	0.050	72	0.100	136	0.150	193
028 910	10.00	3.20	0.30	0.65	0.35	0.165	0.088	47	0.175	75	0.263	91
029 101	10.00	3.20	0.40	0.70	0.30	0.220	0.075	69	0.150	123	0.225	165
029 301	10.00	3.20	0.50	0.70	0.20	0.274	0.050	73	0.100	140	0.150	203
029 602	10.00	4.20	0.40	0.70	0.30	0.202	0.075	73	0.150	130	0.225	175
029 701	10.00	4.20	0.50	0.70	0.20	0.252	0.050	77	0.100	148	0.150	214
030 290	10.00	5.20	0.25	0.55	0.30	0.112	0.075	28	0.150	45	0.225	53
030 800	10.00	5.20	0.40	0.65	0.25	0.179	0.063	62	0.125	113	0.188	157
031 000	10.00	5.20	0.50	0.70	0.20	0.223	0.050	85	0.100	163	0.150	237
032 040	12.00	4.20	0.40	0.80	0.40	0.309	0.100	79	0.200	130	0.300	165
032 500	12.00	4.20	0.50	0.80	0.30	0.386	0.075	86	0.150	158	0.225	220
032 704	12.00	4.20	0.60	0.85	0.25	0.463	0.063	111	0.125	213	0.188	308
033 400	12.00	5.20	0.50	0.80	0.30	0.357	0.075	91	0.150	166	0.225	232
033 500	12.00	5.20	0.60	0.85	0.25	0.429	0.063	118	0.125	225	0.188	325
034 200	12.00	6.20	0.50	0.85	0.35	0.323	0.088	123	0.175	221	0.263	301
034 550	12.00	6.20	0.60	0.85	0.25	0.387	0.063	128	0.125	245	0.188	355
035 040	12.50	5.20	0.50	0.85	0.35	0.395	0.088	103	0.175	184	0.263	251
035 103	12.50	6.20	0.35	0.80	0.45	0.253	0.113	77	0.225	120	0.338	140
035 400	12.50	6.20	0.50	0.85	0.35	0.361	0.088	111	0.175	198	0.263	271
035 601	12.50	6.20	0.70	0.95	0.25	0.504	0.063	178	0.125	344	0.188	503
038 353	14.00	7.20	0.35	0.80	0.45	0.310	0.113	63	0.225	98	0.338	114
038 600	14.00	7.20	0.50	0.90	0.40	0.442	0.100	111	0.200	194	0.300	258
039 040	14.00	7.20	0.80	1.05	0.25	0.706	0.063	213	0.125	414	0.188	609
039 500	15.00	5.20	0.40	0.95	0.55	0.486	0.138	93	0.275	142	0.413	162
039 800	15.00	5.20	0.50	1.00	0.50	0.607	0.125	123	0.250	204	0.375	257
039 971	15.00	5.20	0.60	1.05	0.45	0.728	0.113	158	0.225	279	0.338	376

Corrosion-resistant SCHNORR® disc springs, material 1.4310 (X10 CrNi 18-8)											dia. 15 - 25 mm	
Article number/ Order reference	Ordering dimensions					Weight	Spring travel s and force F					
	D _e [mm]	D _i [mm]	t [mm]	l _o [mm]	h _o [mm]	per 1000 pieces [kg]	at s = 0.25 h _o		at s = 0.50 h _o		at s = 0.75 h _o	
							s [mm]	F [N]	s [mm]	F [N]	s [mm]	F [N]
040 130	15.00	5.20	0.70	1.10	0.40	0.849	0.100	197	0.200	365	0.300	512
040 950	15.00	6.20	0.50	1.00	0.50	0.572	0.125	128	0.250	212	0.375	267
041 301	15.00	6.20	0.60	1.00	0.40	0.687	0.100	137	0.200	248	0.300	341
041 700	15.00	6.20	0.70	1.05	0.35	0.801	0.088	172	0.175	323	0.263	461
042 400	15.00	8.20	0.70	1.00	0.30	0.677	0.075	164	0.150	312	0.225	451
042 601	15.00	8.20	0.80	1.10	0.30	0.773	0.075	238	0.150	459	0.225	668
043 750	16.00	8.20	0.40	0.90	0.50	0.464	0.125	77	0.250	121	0.375	142
044 000	16.00	8.20	0.60	1.05	0.45	0.695	0.113	159	0.225	281	0.338	378
044 101	16.00	8.20	0.70	1.05	0.35	0.811	0.088	167	0.175	313	0.263	446
044 201	16.00	8.20	0.80	1.10	0.30	0.926	0.075	200	0.150	386	0.225	562
044 400	16.00	8.20	0.90	1.20	0.30	1.042	0.075	280	0.150	543	0.225	796
045 800	18.00	6.20	0.40	1.00	0.60	0.702	0.150	78	0.300	116	0.450	128
046 003	18.00	6.20	0.50	1.10	0.60	0.878	0.150	120	0.300	190	0.450	226
046 252	18.00	6.20	0.60	1.20	0.60	1.053	0.150	176	0.300	293	0.450	369
046 400	18.00	6.20	0.70	1.25	0.55	1.228	0.138	218	0.275	382	0.413	510
046 505	18.00	6.20	0.80	1.30	0.50	1.403	0.125	264	0.250	482	0.375	669
046 924	18.00	8.20	0.50	1.10	0.60	0.789	0.150	129	0.300	205	0.450	244
047 070	18.00	8.20	0.70	1.20	0.50	1.104	0.125	203	0.250	362	0.375	492
047 300	18.00	8.20	0.80	1.25	0.45	1.262	0.113	247	0.225	457	0.338	643
047 691	18.00	8.20	1.00	1.35	0.35	1.576	0.088	335	0.175	649	0.263	948
047 910	18.00	9.20	0.45	1.05	0.60	0.662	0.150	111	0.300	171	0.450	197
048 050	18.00	9.20	0.70	1.20	0.50	1.029	0.125	215	0.250	384	0.375	522
048 098	18.00	9.20	1.00	1.35	0.35	1.469	0.088	356	0.175	689	0.263	1006
048 051	20.00	8.20	0.50	1.15	0.65	1.029	0.163	118	0.325	183	0.488	213
051 100	20.00	8.20	0.60	1.30	0.70	1.226	0.175	198	0.350	316	0.525	380
052 270	20.00	8.20	0.70	1.35	0.65	1.430	0.163	241	0.325	408	0.488	524
051 450	20.00	8.20	0.80	1.40	0.60	1.634	0.150	291	0.300	514	0.450	693
051 701	20.00	8.20	0.90	1.45	0.55	1.838	0.138	345	0.275	632	0.413	880
051 761	20.00	8.20	1.00	1.45	0.45	2.042	0.113	352	0.225	669	0.338	962
052 803	20.00	10.20	0.50	1.15	0.65	0.910	0.163	130	0.325	202	0.488	234
052 804	20.00	10.20	0.60	1.20	0.60	1.098	0.150	163	0.300	271	0.450	342
053 500	20.00	10.20	0.80	1.35	0.55	1.454	0.138	281	0.275	504	0.413	690
053 701	20.00	10.20	0.90	1.40	0.50	1.635	0.125	334	0.250	619	0.375	872
053 901	20.00	10.20	1.00	1.40	0.40	1.817	0.100	336	0.200	645	0.300	936
054 380	20.00	10.20	1.10	1.50	0.40	1.998	0.100	440	0.200	850	0.300	1240
0552 80	20.00	10.20	1.25	1.55	0.30	2.269	0.075	463	0.150	911	0.225	1349
055 650	20.00	10.20	1.50	1.75	0.25	2.721	0.063	654	0.125	1297	0.188	1934
057 710	22.50	11.20	0.60	1.40	0.80	1.406	0.200	222	0.400	341	0.600	393
057 903	22.50	11.20	0.80	1.45	0.65	1.873	0.163	283	0.325	492	0.488	653
058 050	22.50	11.20	1.25	1.65	0.40	2.924	0.100	494	0.200	961	0.300	1411
058 950	23.00	8.20	0.70	1.50	0.80	1.987	0.200	258	0.400	414	0.600	501
059 210	23.00	8.20	0.80	1.55	0.75	2.271	0.188	306	0.375	517	0.563	663
059 400	23.00	8.20	0.90	1.60	0.70	2.554	0.175	361	0.350	633	0.525	848
059 504	23.00	8.20	1.00	1.60	0.60	2.838	0.150	375	0.300	689	0.450	962
060 460	23.00	10.20	0.90	1.55	0.65	2.352	0.163	341	0.325	608	0.488	825
060 600	23.00	10.20	1.00	1.60	0.60	2.613	0.150	398	0.300	731	0.450	1020
060 901	23.00	10.20	1.25	1.70	0.45	3.264	0.113	512	0.225	989	0.338	1444
001 922	23.00	12.20	1.00	1.60	0.60	2.337	0.150	438	0.300	804	0.450	1122
061 600	23.00	12.20	1.25	1.65	0.40	2.919	0.100	492	0.200	958	0.300	1406
061 951	23.00	12.20	1.50	1.85	0.35	3.501	0.088	722	0.175	1423	0.263	2110
063 872	25.00	10.20	1.00	1.70	0.70	3.205	0.175	409	0.350	732	0.525	998

Corrosion-resistant SCHNORR® disc springs, material 1.4310 (X10 CrNi 18-8)											dia. 31.5 - 56 mm	
Article number/ Order reference	Ordering dimensions					Weight	Spring travel s and force F					
	D _e [mm]	D _i [mm]	t [mm]	l _o [mm]	h _o [mm]	per 1000 pieces [kg]	at s = 0.25 h _o		at s = 0.50 h _o		at s ≈ 0.75 h _o	
							s [mm]	F [N]	s [mm]	F [N]	s [mm]	F [N]
082 253	31.50	12.20	1.00	2.10	1.10	5.191	0.275	541	0.550	877	0.825	1076
081 505	31.50	12.20	1.25	2.15	0.90	6.486	0.225	646	0.450	1152	0.675	1564
082 303	31.50	12.20	1.50	2.25	0.75	7.781	0.188	808	0.375	1519	0.563	2164
082 801	31.50	16.30	0.80	1.85	1.05	3.577	0.263	355	0.525	548	0.788	634
083 370	31.50	16.30	1.25	2.00	0.75	5.584	0.188	561	0.375	1029	0.563	1437
083 800	31.50	16.30	1.50	2.15	0.65	6.698	0.163	763	0.325	1454	0.488	2097
084 493	31.50	16.30	1.75	2.30	0.55	7.811	0.138	972	0.275	1892	0.413	2779
084 800	31.50	16.30	2.00	2.50	0.50	8.923	0.125	1289	0.250	2534	0.375	3750
087 900	34.00	12.30	1.00	2.25	1.25	6.187	0.313	588	0.625	920	0.938	1083
088 046	34.00	12.30	1.25	2.35	1.10	7.732	0.275	752	0.550	1287	0.825	1677
088 300	34.00	12.30	1.50	2.40	0.90	9.275	0.225	872	0.450	1600	0.675	2234
089 321	34.00	14.30	1.25	2.30	1.05	7.321	0.263	723	0.525	1250	0.788	1646
089 400	34.00	14.30	1.50	2.35	0.85	8.783	0.213	837	0.425	1549	0.638	2178
090 500	34.00	16.30	1.50	2.30	0.80	8.216	0.200	815	0.400	1520	0.600	2151
091 100	34.00	16.30	2.00	2.60	0.60	10.946	0.150	1293	0.300	2523	0.450	3713
004 543	35.50	18.30	0.90	2.05	1.15	5.132	0.288	422	0.575	657	0.863	767
093 683	35.50	18.30	2.00	2.65	0.65	11.325	0.163	1352	0.325	2628	0.488	3855
094 000	35.50	18.30	1.25	2.25	1.00	7.124	0.250	674	0.500	1178	0.750	1567
093 683	35.50	18.30	2.00	2.65	0.65	11.385	0.163	1352	0.325	2628	0.488	3855
099 423	40.00	14.30	1.25	2.65	1.40	10.752	0.350	834	0.700	1346	1.050	1642
099 461	40.00	14.30	1.50	2.75	1.25	12.899	0.313	1028	0.625	1780	0.938	2348
099 833	40.00	14.30	2.00	2.90	0.90	17.189	0.225	1365	0.450	2593	0.675	3729
100 503	40.00	16.30	1.50	2.70	1.20	12.332	0.300	992	0.600	1732	0.900	2304
100 801	40.00	16.30	2.00	2.90	0.90	16.433	0.225	1406	0.450	2671	0.675	3842
101 755	40.00	18.30	2.00	2.85	0.85	15.584	0.213	1367	0.425	2610	0.638	3770
102 531	40.00	20.40	1.00	2.30	1.30	7.300	0.325	521	0.650	808	0.975	938
103 000	40.00	20.40	1.50	2.60	1.10	10.942	0.275	955	0.550	1697	0.825	2296
103 500	40.00	20.40	2.00	2.80	0.80	14.580	0.200	1345	0.400	2580	0.600	3743
103 953	40.00	20.40	2.25	2.95	0.70	16.397	0.175	1613	0.350	3143	0.525	4618
104 465	40.00	20.40	2.50	3.15	0.65	18.212	0.163	2017	0.325	3961	0.488	5856
110 412	45.00	22.40	1.25	2.90	1.65	11.746	0.413	1023	0.825	1578	1.238	1822
110 501	45.00	22.40	1.75	2.95	1.20	16.434	0.300	1247	0.600	2241	0.900	3068
110 901	45.00	22.40	2.50	3.35	0.85	23.457	0.213	2116	0.425	4105	0.638	6008
115 970	50.00	18.40	1.25	2.85	1.60	16.679	0.400	698	0.800	1086	1.200	1268
116 300	50.00	18.40	1.50	3.30	1.80	20.011	0.450	1272	0.900	2015	1.350	2404
116 653	50.00	18.40	2.00	3.45	1.45	26.669	0.363	1680	0.725	2990	1.088	4054
116 901	50.00	18.40	2.50	3.65	1.15	33.323	0.288	2203	0.575	4176	0.863	5996
117 400	50.00	20.40	2.00	3.40	1.40	25.710	0.350	1634	0.700	2927	1.050	3993
117 703	50.00	20.40	2.50	3.60	1.10	32.123	0.275	2138	0.550	4070	0.825	5864
118 401	50.00	22.40	2.00	3.30	1.30	24.652	0.325	1515	0.650	2747	0.975	3792
000 227	50.00	22.40	2.50	3.60	1.10	30.800	0.275	2209	0.550	4204	0.825	6057
119 950	50.00	25.40	1.25	2.85	1.60	14.248	0.400	787	0.800	1225	1.200	1430
120 103	50.00	25.40	1.50	3.10	1.60	17.168	0.400	1145	0.800	1871	1.200	2317
120 400	50.00	25.40	2.00	3.30	1.30	22.878	0.325	1613	0.650	2926	0.975	4039
120 801	50.00	25.40	2.50	3.50	1.00	28.582	0.250	2097	0.500	4022	0.750	5834
128 599	56.00	28.50	1.50	3.45	1.95	21.495	0.488	1345	0.975	2084	1.463	2419
128 600	56.00	28.50	2.00	3.60	1.60	28.646	0.400	1761	0.800	3076	1.200	4093

Corrosion-resistant SCHNORR® disc springs, material 1.4310 (X10 CrNi 18-8)										dia. 60 - 90 mm		
Article number/ Order reference	Ordering dimensions					Weight	Spring travel s and force F					
						per 1000	at s = 0.25 h _o		at s = 0.50 h _o		at s = 0.75 h _o	
	D _e [mm]	D _i [mm]	t [mm]	l _o [mm]	h _o [mm]	pieces [kg]	s [mm]	F [N]	s [mm]	F [N]	s [mm]	F [N]
131 001	60.00	20.50	2.00	4.10	2.10	39.235	0.525	2138	1.050	3507	1.575	4363
003 158	60.00	20.50	2.50	4.05	1.55	49.027	0.388	2239	0.775	4092	1.163	5687
131 801	60.00	25.50	2.50	4.10	1.60	45.471	0.400	2463	0.800	4479	1.200	6196
113 193	60.00	30.50	2.50	4.00	1.50	41.157	0.375	2444	0.750	4488	1.125	6265
138 221	63.00	31.00	1.80	4.10	2.30	33.419	0.575	2086	1.150	3248	1.725	3792
138 503	63.00	31.00	2.50	4.15	1.65	46.389	0.413	2489	0.825	4504	1.238	6202
144 401	70.00	25.50	2.00	4.50	2.50	52.479	0.625	2221	1.250	3478	1.875	4093
146 250	70.00	30.50	2.50	4.70	2.20	61.266	0.550	2984	1.100	5106	1.650	6653
153 014	71.00	36.00	2.00	4.60	2.60	46.249	0.650	2639	1.300	4088	1.950	4744
153 110	71.00	36.00	2.50	4.50	2.00	57.789	0.500	2669	1.000	4662	1.500	6203
159 600	80.00	31.00	2.50	5.30	2.80	84.001	0.700	3393	1.400	5472	2.100	6677
161 220	80.00	41.00	2.25	5.20	2.95	65.586	0.738	3410	1.475	5271	2.213	6099
169 200	90.00	46.00	2.50	5.70	3.20	92.370	0.800	3903	1.600	6073	2.400	7087