



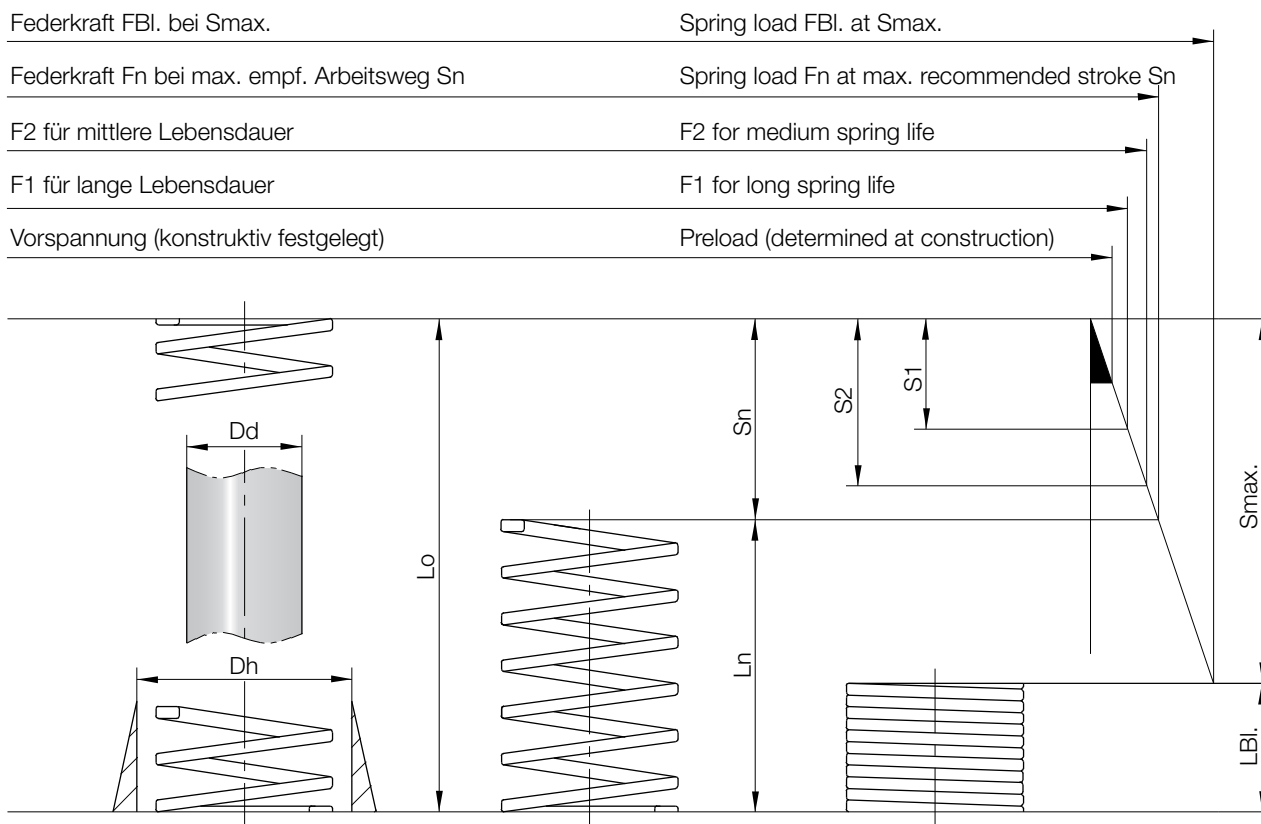
Schraubendruckfedern
Cylindrical pressure springs

Klassifikation und technische Bezeichnung

Um eine einsatzspezifisch korrekte Wahl der Feder zu erleichtern, sind in den Tabellen jeweils die Federkraft für mittlere und lange Lebensdauer bei maximalem Arbeitsweg, die totale Federkraft mit Belastbarkeit, sowie Einzel- und Konstant-Belastung aufgeführt (erforderlicher Kraftaufwand, um die Feder 1mm zu drücken).

Classification and technical description

In order to simplify the correct selection of the spring for the specific job, the following charts offer values on total spring loads for medium, long life and maximum travel stroke, the total spring load capacity, as well as the single and constant load capacity (admissible load to compress the spring by 1mm)



Erläuterungen:

Dd	Dorndurchmesser in mm (Innenführung)
Dh	Hülsendurchmesser in mm (Aussenführung)
Lo	Länge der unbelasteten Feder in mm
Ln	Länge der belasteten Feder in mm
LBl.	Blocklänge der Feder in mm (alle Windungen liegen aneinander)
F1 bis Fn	Federkräfte in N, zugeordnet den Federwegen S1 bis Sn
S1	lange Lebensdauer
S2	mittlere Lebensdauer
Sn	maximaler Arbeitsweg
Smax.	maximaler Federweg

Explanations:

Dd	Rod diameter in mm (internal guide)
Dh	Hole diameter in mm (external guide)
Lo	Length of unloaded spring in mm
Ln	Length of loaded spring in mm
LBl.	Block length of spring in mm (all windings are in contact)
F1 to Fn	Load of spring in N, corresponding to stroke S1 to Sn
S1	long spring life
S2	medium spring life
Sn	maximum travel stroke
Smax.	maximum stroke of spring

Druckfeder für leichte Belastung
Technische Daten:

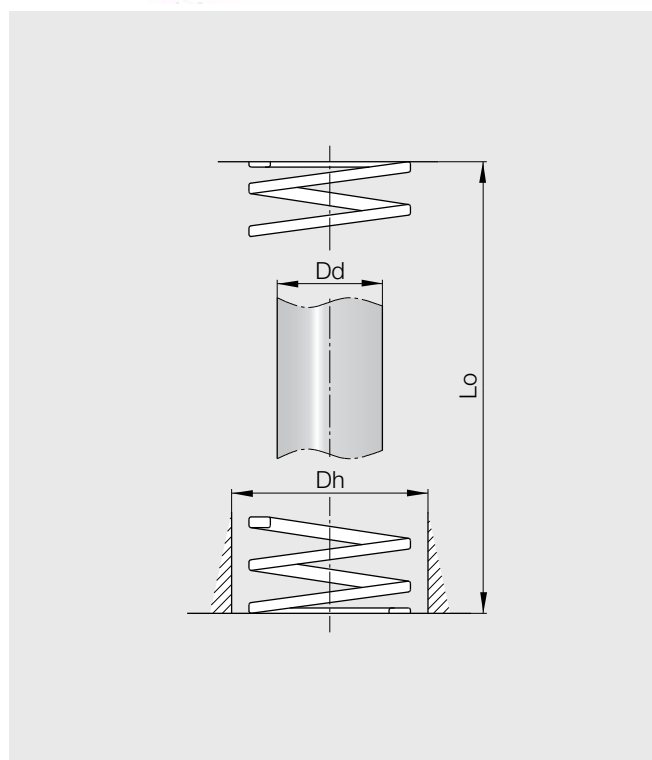
Farbe: Grün

Dh	Hülsendurchmesser
Dd	Dorndurchmesser
Lo	Länge unbelastet
R	Federrate (Federkraft pro mm Federweg)
F1	Federkraft
S1	Federweg (lange Lebensdauer)
F2	Federkraft
S2	Federweg (mittlere Lebensdauer)
Fn	Federkraft
Sn	Federweg (max. Belastbarkeit)
FBI.	Federkraft
LBI.	Federlänge (auf Block)

Pressure spring for light loads
Technical data:

Color: green

Dh	Hole diameter
Dd	Rod diameter
Lo	Unloaded length
R	Deflection (spring load per mm travel stroke)
F1	Spring load
S1	Travel stroke (long spring life)
F2	Spring load
S2	Travel stroke (medium spring life)
Fn	Spring load
Sn	Travel stroke (max. load capacity)
FBI.	Spring load at Smax.
LBI.	Spring length (compressed to solid)



Art.-Nr.	Dh mm	Dd mm	Lo mm	R N/mm	F1 N	S1 mm	F2 N	S2 mm	Fn N	Sn mm	FBI. N	LBI. mm
820.10.025	10	5	25	10.0	63	6.3	75	7.5	100	10.0	135	13.5
820.10.032			32	8.5	68	8.0	82	9.6	109	12.8	149	17.5
820.10.038			38	6.8	65	9.5	78	11.4	103	15.2	141	20.8
820.10.044			44	6.0	66	11.0	79	13.2	106	17.6	143	23.9
820.10.051			51	5.0	64	12.8	77	15.3	102	20.4	145	28.9
820.10.064			64	4.3	69	16.0	83	19.2	110	25.6	155	36.1
820.10.076			76	3.2	61	19.0	73	22.8	97	30.4	138	43.2
820.10.305			305	1.1	84	76.3	101	91.5	134	122.0	197	178.7
820.13.025	12.5	6.3	25	17.9	113	6.3	134	7.5	179	10.0	236	13.2
820.13.032			32	16.4	131	8.0	157	9.6	210	12.8	295	18.0
820.13.038			38	13.6	129	9.5	155	11.4	207	15.2	286	21.0
820.13.044			44	12.1	133	11.0	160	13.2	213	17.6	290	24.0
820.13.051			51	11.4	146	12.8	174	15.3	233	20.4	327	28.7
820.13.064			64	9.3	149	16.0	179	19.2	238	25.6	333	35.8
820.13.076			76	7.1	135	19.0	162	22.8	216	30.4	303	42.7
820.13.305			305	1.4	107	76.3	128	91.5	171	122.0	241	172



Schraubendruckfedern
Cylindrical pressure springs

820
ISO10243

Art.-Nr.	Dh mm	Dd mm	Lo mm	R N/mm	F1 N	S1 mm	F2 N	S2 mm	Fn N	Sn mm	FBI. N	LBI. mm
820.16.025	16	8	25	23.4	147	6.3	176	7.5	234	10.0	295	12.6
820.16.032			32	22.9	183	8.0	220	9.6	293	12.8	376	16.4
820.16.038			38	19.3	183	9.5	220	11.4	293	15.2	380	19.7
820.16.044			44	17.1	188	11.0	226	13.2	301	17.6	385	22.5
820.16.051			51	15.7	201	12.8	240	15.3	320	20.4	413	26.3
820.16.064			64	10.7	171	16.0	205	19.2	274	25.6	356	33.3
820.16.076			76	10.0	190	19.0	228	22.8	304	30.4	402	40.2
820.16.089			89	8.6	192	22.3	230	26.7	306	35.6	409	47.6
820.16.102			102	7.8	199	25.5	239	30.6	318	40.8	432	55.4
820.16.305			305	2.5	191	76.3	229	91.5	305	122.0	413	165.3
820.19.025	20	10	25	55.8	352	6.3	419	7.5	558	10.0	675	12.1
820.19.032			32	45.0	360	8.0	432	9.6	576	12.8	689	15.3
820.19.038			38	33.3	316	9.5	380	11.4	506	15.2	629	18.9
820.19.044			44	30.0	330	11.0	396	13.2	528	17.6	645	21.5
820.19.051			51	24.5	314	12.8	375	15.3	500	20.4	613	25.0
820.19.064			64	20.0	320	16.0	384	19.2	512	25.6	622	31.1
820.19.076			76	16.0	304	19.0	365	22.8	486	30.4	597	37.3
820.19.089			89	14.0	312	22.3	374	26.7	498	35.6	623	44.5
820.19.102			102	12.0	306	25.5	367	30.6	490	40.8	613	51.1
820.19.115			115	10.9	314	28.8	376	34.5	501	46.0	634	58.2
820.19.127			127	9.5	302	31.8	362	38.1	483	50.8	617	64.9
820.19.140			139	8.4	294	35.0	353	42.0	470	56.0	601	71.5
820.19.152			152	7.5	285	38.0	342	45.6	456	60.8	591	78.8
820.19.305			305	4.0	305	76.3	366	91.5	488	122.0	630	157.4
820.26.025	25	12.5	25	100.0	630	6.3	750	7.5	1000	10.0	1190	11.9
820.26.032			32	80.3	642	8.0	771	9.6	1028	12.8	1285	16.0
820.26.038			38	62.0	589	9.5	707	11.4	942	15.2	1135	18.3
820.26.044			44	52.9	582	11.0	698	13.2	931	17.6	1132	21.4
820.26.051			51	44.0	563	12.8	673	15.3	898	20.4	1096	24.9
820.26.064			64	35.2	563	16.0	676	19.2	901	25.6	1105	31.4
820.26.076			76	28.0	532	19.0	638	22.8	851	30.4	1050	37.5
820.26.089			89	24.0	535	22.3	641	26.7	854	35.6	1044	43.5
820.26.102			102	21.1	538	25.5	646	30.6	861	40.8	1078	51.1
820.26.115			115	18.7	539	28.8	645	34.5	860	46.0	1086	58.1
820.26.127			127	16.7	531	31.8	636	38.1	848	50.8	1070	64.1
820.26.140			139	15.3	536	35.0	643	42.0	857	56.0	1077	70.4
820.26.152			152	14.0	532	38.0	638	45.6	851	60.8	1079	77.1
820.26.178			178	12.5	556	44.5	668	53.4	890	71.2	1164	93.1
820.26.203			203	10.4	528	50.8	633	60.9	844	81.2	1068	102.7
820.26.305			305	7.0	534	76.3	641	91.5	854	122.0	1091	155.9



Schraubendruckfedern
Cylindrical pressure springs

820
ISO10243

Art.-Nr.	Dh mm	Dd mm	Lo mm	R N/mm	F1 N	S1 mm	F2 N	S2 mm	Fn N	Sn mm	FBI. N	LBI. mm
820.32.038	32	16	38	94.0	893	9.5	1072	11.4	1429	15.2	1720	18.3
820.32.044			44	79.5	875	11.0	1049	13.2	1399	17.6	1709	21.5
820.32.051			51	67.0	858	12.8	1025	15.3	1367	20.4	1709	25.5
820.32.064			64	53.0	848	16.0	1018	19.2	1357	25.6	1691	31.9
820.32.076			76	44.0	836	19.0	1033	22.8	1338	30.4	1698	38.6
820.32.089			89	37.2	830	22.3	993	26.7	1324	35.6	1730	46.5
820.32.102			102	32.0	816	25.5	979	30.6	1306	40.8	1702	53.2
820.32.115			115	29.0	835	28.8	1001	34.5	1334	46.0	1740	60.0
820.32.127			127	25.0	795	31.8	953	38.1	1270	50.8	1668	66.7
820.32.140			139	23.0	805	35.0	966	42.0	1288	56.0	1651	71.8
820.32.152			152	21.5	817	38.0	980	45.6	1307	60.8	1688	78.5
820.32.178			178	18.2	810	44.5	972	53.4	1296	71.2	1718	94.4
820.32.203			203	15.8	803	50.8	962	60.9	1283	81.2	1692	107.1
820.32.254			254	12.5	794	63.5	953	76.2	1270	101.6	1706	136.5
820.32.305			305	10.3	786	76.3	942	91.5	1257	122.0	1676	162.7
820.38.051	40	20	51	92.0	1178	12.8	1408	15.3	1877	20.4	2346	25.5
820.38.064			64	73.0	1168	16.0	1402	19.2	1869	25.6	2292	31.4
820.38.076			76	63.0	1197	19.0	1436	22.8	1915	30.4	2381	37.8
820.38.089			89	51.0	1137	22.3	1362	26.7	1816	35.6	2259	44.3
820.38.102			102	43.0	1097	25.5	1316	30.6	1754	40.8	2180	50.7
820.38.115			115	39.6	1140	28.8	1366	34.5	1822	46.0	2301	58.1
820.38.127			127	37.0	1177	31.8	1410	38.1	1880	50.8	2390	64.6
820.38.140			139	32.0	1120	35.0	1344	42.0	1792	56.0	2243	70.1
820.38.152			152	28.0	1064	38.0	1277	45.6	1702	60.8	2145	76.6
820.38.178			178	25.2	1121	44.5	1346	53.4	1794	71.2	2278	90.4
820.38.203			203	22.7	1153	50.8	1382	60.9	1843	81.2	2324	102.4
820.38.254			254	17.0	1080	63.5	1295	76.2	1727	101.6	2190	128.8
820.38.305			305	14.8	1129	76.3	1354	91.5	1806	122.0	2310	156.1
820.51.064	50	25	64	156.0	2496	16.0	2995	19.2	3994	25.6	4836	31.0
820.51.076			76	125.0	2375	19.0	2850	22.8	3800	30.4	4650	37.2
820.51.089			89	109.0	2431	22.3	2910	26.7	3880	35.6	4752	43.6
820.51.102			102	94.0	2397	25.5	2876	30.6	3835	40.8	4728	50.3
820.51.115			115	81.0	2333	28.8	2795	34.5	3726	46.0	4706	58.1
820.51.127			127	71.0	2258	31.8	2705	38.1	3607	50.8	4523	63.7
820.51.140			139	66.5	2328	35.0	2793	42.0	3724	56.0	4622	69.5
820.51.152			152	60.0	2280	38.0	2736	45.6	3648	60.8	4590	76.5
820.51.178			178	52.0	2314	44.5	2777	53.4	3702	71.2	4779	91.9
820.51.203			203	44.0	2235	50.8	2680	60.9	3573	81.2	4607	104.7
820.51.254			254	35.0	2223	63.5	2667	76.2	3556	101.6	4571	130.6
820.51.305			305	28.5	2175	76.3	2608	91.5	3477	122.0	4415	154.9

