

A.2 Schraubendruckfedern



Allgemeine Informationen Schraubendruckfedern gem. ISO 10243

Rechteckiger Drahtquerschnitt

Einführung

Unsere Schraubendruckfedern sind aus Spezialfederstahl/Sonderlegierungen hergestellt und entsprechen der ISO-Norm 10243. Durch ihre spezielle Form wird eine Qualitätsoptimierung erreicht. Alle Federn sind wärmebehandelt, kugelgestrahlt und auf Block gesetzt um den Spannungsverlust während des Einsatzes deutlich zu verringern.

Technische Informationen

A = Hüsendurchmesser mm

B = Bolzendurchmesser mm

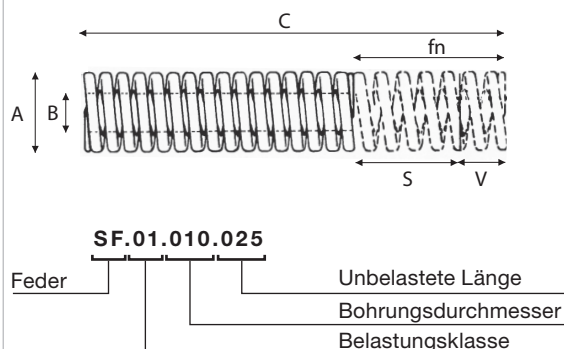
C = Unbelastete Länge mm

f_n = Hohe Belastung

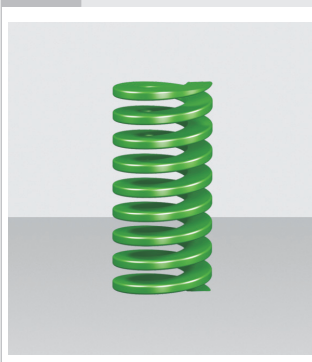
V = Vorspannung mm

S = Gewählter Federweg mm

1. Der Federweg f_n für hohe Belastung darf nicht überschritten werden
2. Alle Federn sollen aus Gründen der Lebensdauer vorgespannt werden
3. Alle Federn müssen innen oder außen geführt sein, min. 3 Federwindungen
4. Wenn möglich Feder mit Federwegen für lange Lebensdauer auswählen



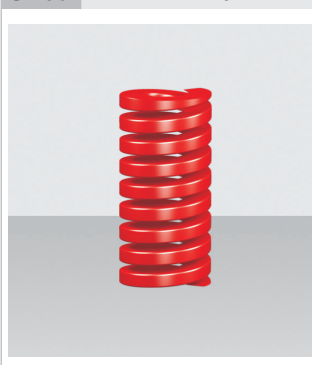
SF.01 Leichte Belastung



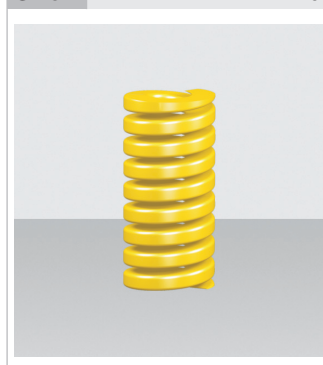
SF.02 Mittlere Belastung



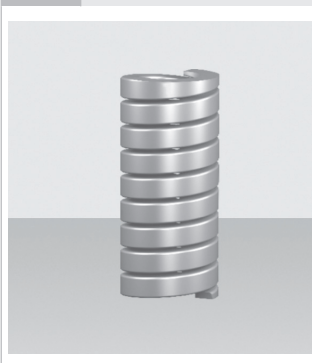
SF.03 Schwere Belastung



SF.04 Besonders schwere Belastung



SF.05 Schwerste Belastung



SF.01

leichte Belastung – grün

Hülsen- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Federrate in N/mm	Tabelle des Federwegs							
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (40% von C)		Federweg auf Blockhöhe	
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N
A	B	C										
10	5	25	SF.01.010.025	10,0	6,3	63,0	7,5	75,0	10,0	100,0	13,5	135,0
		32	SF.01.010.032	8,5	8,0	68,0	9,6	82,0	12,8	109,0	17,5	149,0
		38	SF.01.010.038	6,8	9,5	65,0	11,4	78,0	15,2	103,0	20,8	141,0
		44	SF.01.010.044	6,0	11,0	66,0	13,2	79,0	17,6	106,0	23,9	143,0
		51	SF.01.010.051	5,0	12,8	64,0	15,3	77,0	20,4	102,0	28,9	145,0
		64	SF.01.010.064	4,3	16,0	69,0	19,2	83,0	25,6	110,0	36,1	155,0
		76	SF.01.010.076	3,2	19,0	61,0	22,8	73,0	30,4	97,0	43,2	138,0
b x h / 1.7 x 1.1		305	SF.01.010.305	1,1	76,3	84,0	91,5	101,0	122,0	134,0	178,7	197,0
12,5	6,3	25	SF.01.012.025	17,9	6,3	113,0	7,5	134,0	10,0	179,0	13,2	236,0
		32	SF.01.012.032	16,4	8,0	131,0	9,6	157,0	12,8	210,0	18,0	295,0
		38	SF.01.012.038	13,6	9,5	129,0	11,4	155,0	15,2	207,0	21,0	286,0
		44	SF.01.012.044	12,1	11,0	133,0	13,2	160,0	17,6	213,0	24,0	290,0
		51	SF.01.012.051	11,4	12,8	146,0	15,3	174,0	20,4	233,0	28,7	327,0
		64	SF.01.012.064	9,3	16,0	149,0	19,2	179,0	25,6	238,0	35,8	333,0
		76	SF.01.012.076	7,1	19,0	135,0	22,8	162,0	30,4	216,0	32,7	303,0
b x h / 2.4 x 1.4		305	SF.01.012.305	1,4	76,3	107,0	91,5	128,0	122,0	171,0	172,0	241,0
16	8	25	SF.01.016.025	23,4	6,3	147,0	7,5	176,0	10,0	234,0	12,6	295,0
		32	SF.01.016.032	22,9	8,0	183,0	9,6	220,0	12,8	293,0	16,4	376,0
		38	SF.01.016.038	19,3	9,5	183,0	11,4	220,0	15,2	293,0	19,7	380,0
		44	SF.01.016.044	17,1	11,0	188,0	13,2	226,0	17,6	301,0	22,5	385,0
		51	SF.01.016.051	15,7	12,8	201,0	15,3	240,0	20,4	320,0	26,3	413,0
		64	SF.01.016.064	10,7	16,0	171,0	19,2	205,0	25,6	174,0	33,3	356,0
		76	SF.01.016.076	10,0	19,0	190,0	22,8	228,0	30,4	304,0	40,2	402,0
b x h / 3.2 x 1.5		305	SF.01.016.305	2,5	76,3	191,0	91,5	229,0	122,0	305,0	165,3	413,0
20	10	25	SF.01.020.025	55,8	6,3	352,0	7,5	419,0	10,0	558,0	12,1	675,0
		32	SF.01.020.032	45,0	8,0	360,0	9,6	432,0	12,8	576,0	15,3	689,0
		38	SF.01.020.038	33,3	9,5	316,0	11,4	380,0	15,2	506,0	18,9	629,0
		44	SF.01.020.044	30,0	11,0	330,0	13,2	396,0	17,6	528,0	21,5	645,0
		51	SF.01.020.051	24,5	12,8	314,0	15,3	375,0	20,4	500,0	25,0	613,0
		64	SF.01.020.064	20,0	16,0	320,0	19,2	384,0	25,6	512,0	31,1	622,0
		76	SF.01.020.076	16,0	19,0	304,0	22,8	365,0	30,4	486,0	37,3	597,0
b x h / 4.0 x 2.1		305	SF.01.020.305	4,0	76,3	305,0	91,5	366,0	122,0	488,0	157,4	630,0
25	12,5	25	SF.01.025.025	100,0	6,3	630,0	7,5	750,0	10,0	1000,0	11,9	1190,0
		32	SF.01.025.032	80,3	8,0	642,0	9,6	771,0	12,8	1028,0	16,0	1285,0
		38	SF.01.025.038	62,0	9,5	589,0	11,4	707,0	15,2	942,0	18,3	1135,0
		44	SF.01.025.044	52,9	11,0	582,0	13,2	698,0	17,6	931,0	21,4	1132,0
		51	SF.01.025.051	44,0	12,8	563,0	15,3	673,0	20,4	898,0	24,9	1096,0
		64	SF.01.025.064	35,2	16,0	563,0	19,2	676,0	25,6	901,0	31,4	1105,0
		76	SF.01.025.076	28,0	19,0	532,0	22,8	638,0	30,4	851,0	37,5	1050,0
b x h / 5.4 x 2.7		305	SF.01.025.305	7,0	76,3	534,0	91,5	641,0	122,0	854,0	155,9	1091,0

Hülsen- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Federrate in N/mm	Tabelle des Federwegs							
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (40% von C)		Federweg auf Blockhöhe	
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N
A	B	C										
32	16	38	SF.01.032.038	94,0	9,5	893,0	11,4	1072,0	15,2	1429,0	18,3	1720,0
		44	SF.01.032.044	79,5	11,0	875,0	13,2	1049,0	17,6	1399,0	21,5	1709,0
		51	SF.01.032.051	67,0	12,8	858,0	15,3	1025,0	20,4	1367,0	25,5	1709,0
		64	SF.01.032.064	53,0	16,0	848,0	19,2	1018,0	25,6	1357,0	31,9	1691,0
		76	SF.01.032.076	44,0	19,0	836,0	22,8	1003,0	30,4	1338,0	38,6	1698,0
		89	SF.01.032.089	37,2	22,3	830,0	26,7	993,0	35,6	1324,0	46,5	1730,0
		102	SF.01.032.102	32,0	25,5	816,0	30,6	979,0	40,8	1306,0	53,2	1702,0
		115	SF.01.032.115	29,0	28,8	835,0	34,5	1001,0	46,0	1334,0	60,0	1740,0
		127	SF.01.032.127	25,0	31,8	795,0	38,1	953,0	50,8	1270,0	66,7	1668,0
		140	SF.01.032.140	23,0	35,0	805,0	42,0	966,0	56,0	1288,0	71,8	1651,0
		152	SF.01.032.152	21,5	38,0	817,0	45,6	980,0	60,8	1307,0	78,5	1688,0
		178	SF.01.032.178	18,2	44,5	810,0	53,4	972,0	71,2	1296,0	94,4	1718,0
		203	SF.01.032.203	15,8	50,8	803,0	60,9	962,0	81,2	1283,0	107,1	1692,0
254	SF.01.032.254	12,5	63,5	794,0	76,2	953,0	101,6	1270,0	136,5	1706,0		
b x h / 6.8 x 3.3		305	SF.01.032.305	10,3	76,3	786,0	91,5	942,0	122,0	1257,0	162,7	1676,0
40	20	51	SF.01.040.051	92,0	12,8	1178,0	15,3	1408,0	20,4	1877,0	25,5	2346,0
		64	SF.01.040.064	73,0	16,0	1168,0	19,2	1402,0	25,6	1869,0	31,4	2292,0
		76	SF.01.040.076	63,0	19,0	1197,0	22,8	1436,0	30,4	1915,0	37,8	2381,0
		89	SF.01.040.089	51,0	22,3	1137,0	26,7	1362,0	35,6	1816,0	44,3	2259,0
		102	SF.01.040.102	43,0	25,5	1097,0	30,6	1316,0	40,8	1754,0	50,7	2180,0
		115	SF.01.040.115	39,6	28,8	1140,0	34,5	1366,0	46,0	1822,0	58,1	2301,0
		127	SF.01.040.127	37,0	31,8	1177,0	38,1	1410,0	50,8	1880,0	64,6	2390,0
		140	SF.01.040.140	32,0	35,0	1120,0	42,0	1344,0	56,0	1792,0	70,1	2243,0
		152	SF.01.040.152	28,0	38,0	1064,0	45,6	1277,0	60,8	1702,0	76,6	2145,0
		178	SF.01.040.178	25,2	44,5	1121,0	53,4	1346,0	71,2	1794,0	90,4	2278,0
		203	SF.01.040.203	22,7	50,8	1153,0	60,9	1382,0	81,2	1843,0	102,4	2324,0
254	SF.01.040.254	17,0	63,5	1080,0	76,2	1295,0	101,6	1727,0	128,8	2190,0		
b x h / 8.1 x 4.0		305	SF.01.040.305	14,8	76,3	1129,0	91,5	1354,0	122,0	1806,0	156,1	2310,0
50	25	64	SF.01.050.064	156,0	16,0	2496,0	19,2	2995,0	25,6	3994,0	31,0	4836,0
		76	SF.01.050.076	125,0	19,0	2375,0	22,8	2850,0	30,4	3800,0	37,2	4650,0
		89	SF.01.050.089	109,0	22,3	2431,0	26,7	2910,0	35,6	3880,0	43,6	4752,0
		102	SF.01.050.102	94,0	25,5	2397,0	30,6	2876,0	40,8	3835,0	50,3	4728,0
		115	SF.01.050.115	81,0	28,8	2333,0	34,5	2795,0	46,0	3726,0	58,1	4706,0
		127	SF.01.050.127	71,0	31,8	2258,0	38,1	2075,0	50,8	3607,0	63,7	4523,0
		140	SF.01.050.140	66,5	35,0	2328,0	42,0	2793,0	56,0	3724,0	69,5	4622,0
		152	SF.01.050.152	60,0	38,0	2280,0	45,6	2736,0	60,8	3648,0	76,5	4590,0
		178	SF.01.050.178	52,0	44,5	2314,0	53,4	2777,0	71,2	3702,0	91,9	4749,0
		203	SF.01.050.178	44,0	50,8	2235,0	60,9	2680,0	81,2	3573,0	104,7	4607,0
		254	SF.01.050.254	35,0	63,5	2223,0	76,2	2667,0	101,6	3556,0	130,6	4571,0
b x h / 10.9 x 5.3		305	SF.01.050.305	28,5	76,3	2175,0	91,5	2608,0	122,0	3477,0	154,9	4415,0
63	38	76	SF.01.063.076	189,0	19,0	3591,0	22,8	4309,0	30,4	5746,0	36,5	6899,0
		89	SF.01.063.089	158,0	22,3	3523,0	26,7	4219,0	35,6	5625,0	43,4	6857,0
		102	SF.01.063.102	131,0	25,5	3341,0	30,6	4009,0	40,8	5345,0	39,7	6511,0
		115	SF.01.063.115	116,0	28,8	3341,0	34,5	4002,0	46,0	5336,0	55,6	6450,0
		127	SF.01.063.127	103,0	31,8	3275,0	38,1	3924,0	50,8	5232,0	62,7	6458,0
		152	SF.01.063.152	84,3	38,0	3203,0	45,6	3844,0	60,8	5125,0	77,1	6500,0
		178	SF.01.063.178	71,5	44,5	3182,0	53,4	3818,0	71,2	5091,0	92,2	6592,0
		203	SF.01.063.203	61,7	50,8	3134,0	60,9	3758,0	81,2	5010,0	103,5	6386,0
		254	SF.01.063.254	47,0	63,5	2985,0	76,2	3581,0	101,6	4775,0	130,4	6129,0
b x h / 11.0 x 7.8		305	SF.01.063.305	38,2	76,3	2915,0	91,5	3495,0	122,0	4660,0	157,4	6013,0

SF.02

mittlere Belastung – blau

Hülse- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Federrate in N/mm	Tabelle des Federwegs							
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (37,5% von C)		Federweg auf Block- höhe	
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N
A	B	C										
10	5	25	SF.02.010.025	16,0	6,3	101,0	7,5	120,0	9,4	150,0	10,2	163,0
		32	SF.02.010.032	13,0	8,0	104,0	9,6	125,0	12,0	156,0	14,2	185,0
		38	SF.02.010.038	11,9	9,5	113,0	11,4	136,0	14,3	170,0	16,8	200,0
		44	SF.02.010.044	10,3	11,0	113,0	13,2	136,0	16,5	170,0	19,4	200,0
		51	SF.02.010.051	8,9	12,8	114,0	15,3	136,0	19,1	170,0	23,4	208,0
		64	SF.02.010.064	7,5	16,0	120,0	19,2	144,0	24,0	180,0	28,2	212,0
		76	SF.02.010.076	5,3	19,0	101,0	22,8	121,0	28,5	151,0	34,2	181,0
b x h / 1,9 x 1,3		305	SF.02.010.305	1,6	76,3	122,0	91,5	146,0	114,4	183,0	133,8	214,0
12,5	6,3	25	SF.02.012.025	30,0	6,3	189,0	7,5	225,0	9,4	282,0	11,9	357,0
		32	SF.02.012.032	24,8	8,0	198,0	9,6	238,0	12,0	298,0	16,2	402,0
		38	SF.02.012.038	21,4	9,5	203,0	11,4	244,0	14,3	306,0	18,7	400,0
		44	SF.02.012.044	18,5	11,0	204,0	13,2	244,0	16,5	305,0	21,3	394,0
		51	SF.02.012.051	15,5	12,8	198,0	15,3	237,0	19,1	296,0	25,6	397,0
		64	SF.02.012.064	12,1	16,0	194,0	19,2	232,0	24,0	290,0	32,4	392,0
		76	SF.02.012.076	10,2	19,0	194,0	22,8	233,0	28,5	291,0	39,0	398,0
		89	SF.02.012.089	8,4	22,3	187,0	26,7	224,0	33,4	281,0	45,9	386,0
b x h / 2,5 x 1,5		102	SF.02.012.102	6,3	25,5	161,0	30,6	193,0	38,3	241,0	52,3	329,0
		305	SF.02.012.305	2,1	76,3	160,0	91,5	192,0	114,4	240,0	152,5	320,0
16	8	25	SF.02.016.025	49,4	6,3	311,0	7,5	371,0	9,4	464,0	10,5	519,0
		32	SF.02.016.032	37,1	8,0	297,0	9,6	356,0	12,0	445,0	13,2	490,0
		38	SF.02.016.038	33,9	9,5	322,0	11,4	386,0	14,3	485,0	17,2	583,0
		44	SF.02.016.044	30,0	11,0	330,0	13,2	396,0	16,5	495,0	19,4	582,0
		51	SF.02.016.051	26,4	12,8	338,0	15,3	404,0	19,1	504,0	24,2	639,0
		64	SF.02.016.064	20,5	16,0	328,0	19,2	394,0	24,0	492,0	29,2	599,0
		76	SF.02.016.076	17,8	19,0	338,0	22,8	406,0	28,5	507,0	36,3	646,0
		89	SF.02.016.089	15,2	22,3	339,0	26,7	406,0	33,4	508,0	41,7	634,0
		102	SF.02.016.102	13,5	25,5	344,0	30,6	413,0	38,3	517,0	48,9	660,0
b x h / 3,2 x 2,0		115	SF.02.016.115	11,8	28,8	340,0	34,5	407,0	43,1	509,0	53,1	627,0
		305	SF.02.016.305	4,8	76,3	366,0	91,5	439,0	114,4	549,0	141,6	680,0
20	10	25	SF.02.020.025	98,0	6,3	617,0	7,5	735,0	9,4	921,0	10,5	1029,0
		32	SF.02.020.032	72,6	8,0	581,0	9,6	697,0	12,0	871,0	13,9	1009,0
		38	SF.02.020.038	56,0	9,5	532,0	11,4	638,0	14,3	801,0	16,6	930,0
		44	SF.02.020.044	47,5	11,0	523,0	13,2	627,0	16,5	784,0	18,8	893,0
		51	SF.02.020.051	41,7	12,8	534,0	15,3	638,0	19,1	796,0	23,1	963,0
		64	SF.02.020.064	32,3	16,0	517,0	19,2	620,0	24,0	775,0	27,5	888,0
		76	SF.02.020.076	25,1	19,0	477,0	22,8	572,0	28,5	715,0	33,8	848,0
		89	SF.02.020.089	22,0	22,3	491,0	26,7	587,0	33,4	735,0	39,7	873,0
		102	SF.02.020.102	19,8	25,5	505,0	30,6	606,0	38,3	758,0	47,3	937,0
		115	SF.02.020.115	18,1	28,8	521,0	34,5	624,0	43,1	780,0	52,5	950,0
		127	SF.02.020.127	16,6	31,8	528,0	38,1	632,0	47,6	790,0	56,9	945,0
		140	SF.02.020.140	15,1	35,0	529,0	42,0	634,0	52,5	793,0	62,1	938,0
		152	SF.02.020.152	13,2	38,0	500,0	45,6	600,0	57,0	750,0	67,6	889,0
		b x h / 4,1 x 2,4		305	SF.02.020.305	6,1	76,3	465,0	91,5	558,0	114,4	698,0
25	12,5	25	SF.02.025.025	147,0	6,3	926,0	7,5	1103,0	9,4	1382,0	10,2	1499,0
		32	SF.02.025.032	118,0	8,0	944,0	9,6	1133,0	12,0	1416,0	13,7	1617,0
		38	SF.02.025.038	93,0	9,5	884,0	11,4	1060,0	14,3	1330,0	15,7	1460,0
		44	SF.02.025.044	80,8	11,0	889,0	13,2	1067,0	16,5	1333,0	18,2	1471,0
		51	SF.02.025.051	68,6	12,8	878,0	15,3	1050,0	19,1	1310,0	21,7	1489,0
		64	SF.02.025.064	53,0	16,0	848,0	19,2	1018,0	24,0	1272,0	26,0	1378,0
		76	SF.02.025.076	43,2	19,0	821,0	22,8	985,0	28,5	1231,0	32,3	1395,0
		89	SF.02.025.089	38,2	22,3	852,0	26,7	1020,0	33,4	1276,0	38,0	1452,0
		102	SF.02.025.102	33,0	25,5	842,0	30,6	1010,0	38,3	1264,0	43,0	1419,0
		115	SF.02.025.115	28,0	28,8	806,0	34,5	966,0	43,1	1207,0	48,6	1361,0
		127	SF.02.025.127	25,9	31,8	824,0	38,1	987,0	47,6	1233,0	53,7	1391,0
		140	SF.02.025.140	23,2	35,0	812,0	42,0	974,0	52,5	1218,0	59,4	1378,0
		152	SF.02.025.152	20,8	38,0	790,0	45,6	948,0	57,0	1186,0	63,8	1327,0
		178	SF.02.025.178	17,8	44,5	792,0	53,4	951,0	66,8	1189,0	76,6	1363,0
		203	SF.02.025.203	15,8	50,8	803,0	60,9	962,0	76,1	1202,0	88,4	1397,0
		b x h / 5,4 x 3,3		305	SF.02.025.305	10,2	76,3	778,0	91,5	933,0	114,4	1167,0

Hülsen- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Federrate in N/mm	Tabelle des Federwegs							
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (37,5% von C)		Federweg auf Block- höhe	
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N
A	B	C										
32	16	38	SF.02.032.038	185,0	9,5	1758,0	11,4	2109,0	14,3	2646,0	16,3	3016,0
		44	SF.02.032.044	158,0	11,0	1738,0	13,2	2086,0	16,5	2607,0	18,9	2986,0
		51	SF.02.032.051	134,0	12,8	1715,0	15,3	2050,0	19,1	2559,0	23,1	3095,0
		64	SF.02.032.064	99,0	16,0	1584,0	19,2	1901,0	24,0	2376,0	28,5	2822,0
		76	SF.02.032.076	80,5	19,0	1530,0	22,8	1835,0	28,5	2294,0	34,2	2753,0
		89	SF.02.032.089	69,1	22,3	1541,0	26,7	1845,0	33,4	2308,0	40,4	2797,0
		102	SF.02.032.102	58,8	25,5	1499,0	30,6	1799,0	38,3	2252,0	48,0	2822,0
		115	SF.02.032.115	51,5	28,8	1483,0	34,5	1777,0	43,1	2220,0	54,3	2796,0
		127	SF.02.032.127	44,8	31,8	1425,0	38,1	1707,0	47,6	2132,0	59,2	2652,0
		140	SF.02.032.140	42,3	35,0	1481,0	42,0	1777,0	52,5	2221,0	65,3	2762,0
		152	SF.02.032.152	37,8	38,0	1436,0	45,6	1724,0	57,0	2155,0	73,0	2759,0
		178	SF.02.032.178	32,5	44,5	1446,0	53,4	1736,0	66,8	2171,0	84,5	2746,0
		203	SF.02.032.203	28,9	50,8	1468,0	60,9	1760,0	76,1	2199,0	96,9	2800,0
		254	SF.02.032.254	21,4	63,5	1359,0	76,2	1631,0	95,3	2039,0	120,9	2587,0
b x h / 6.8 x 4.0		305	SF.02.032.305	18,3	76,3	1396,0	91,5	1674,0	114,4	2094,0	146,9	2688,0
40	20	51	SF.02.040.051	181,6	12,8	2324,0	15,3	2778,0	19,1	3469,0	21,4	3886,0
		64	SF.02.040.064	140,0	16,0	2240,0	19,2	2688,0	24,0	3360,0	26,8	3752,0
		76	SF.02.040.076	108,0	19,0	2052,0	22,8	2462,0	28,5	3078,0	32,7	3532,0
		89	SF.02.040.089	90,7	22,3	2023,0	26,7	2422,0	33,4	3029,0	39,0	3537,0
		102	SF.02.040.102	81,0	25,5	2066,0	30,6	2479,0	38,3	3102,0	44,1	3572,0
		115	SF.02.040.115	71,8	28,8	2068,0	34,5	2477,0	43,1	3095,0	50,6	3683,0
		127	SF.02.040.127	62,7	31,8	1994,0	38,1	2389,0	47,6	2985,0	55,9	3505,0
		140	SF.02.040.140	57,5	35,0	2013,0	42,0	2415,0	52,5	3019,0	61,8	3554,0
		152	SF.02.040.152	51,6	38,0	1961,0	45,6	2353,0	57,0	2941,0	67,5	3483,0
		178	SF.02.040.178	44,1	44,5	1962,0	53,4	2355,0	66,8	2946,0	77,2	3405,0
		203	SF.02.040.203	36,7	50,8	1864,0	60,9	2235,0	76,1	2793,0	91,8	3369,0
254	SF.02.040.254	30,1	63,5	1911,0	76,2	2294,0	95,3	2869,0	112,7	3392,0		
b x h / 8.2 x 4.7		305	SF.02.040.305	24,6	76,3	1877,0	91,5	2251,0	114,4	2814,0	138,1	3397,0
50	25	64	SF.02.050.064	209,0	16,0	3344,0	19,2	4013,0	24,0	5016,0	28,2	5894,0
		76	SF.02.050.076	168,0	19,0	3192,0	22,8	3830,0	28,5	4788,0	34,9	5863,0
		89	SF.02.050.089	140,0	22,3	3122,0	26,7	3738,0	33,4	4676,0	39,2	5488,0
		102	SF.02.050.102	119,0	25,5	3035,0	30,6	3641,0	38,3	4558,0	47,3	5629,0
		115	SF.02.050.115	106,0	28,8	3053,0	34,5	3657,0	43,1	4569,0	52,6	5576,0
		127	SF.02.050.127	97,0	31,8	3085,0	38,1	3696,0	47,6	4617,0	59,8	5801,0
		140	SF.02.050.140	87,0	35,0	3045,0	42,0	3654,0	52,5	4568,0	65,1	5664,0
		152	SF.02.050.152	80,0	38,0	3040,0	45,6	3648,0	57,0	4560,0	70,8	5664,0
		178	SF.02.050.178	69,5	44,5	3093,0	53,4	3711,0	66,8	4643,0	84,2	5852,0
		203	SF.02.050.178	59,8	50,8	3038,0	60,9	3642,0	76,1	4551,0	96,5	5771,0
		229	SF.02.050.229	50,9	57,3	2917,0	68,7	3497,0	85,9	4372,0	108,5	5523,0
254	SF.02.050.254	43,9	63,5	2788,0	76,2	3345,0	95,4	4184,0	121,8	5347,0		
b x h / 11.1 x 5.8		305	SF.02.050.305	38,6	76,3	2945,0	91,5	3532,0	114,4	4416,0	146,8	5666,0
63	38	76	SF.02.063.076	312,0	19,0	5928,0	22,8	7114,0	28,5	8892,0	30,7	9578,0
		89	SF.02.063.089	260,0	22,3	5798,0	26,7	6942,0	33,4	8684,0	36,5	9490,0
		102	SF.02.063.102	221,0	25,5	5636,0	30,6	6763,0	38,3	8464,0	43,6	9636,0
		115	SF.02.063.115	187,0	28,8	5386,0	34,5	5452,0	43,1	8060,0	48,9	9144,0
		127	SF.02.063.127	168,0	31,8	5342,0	38,1	6401,0	47,6	7979,0	54,2	9106,0
		152	SF.02.063.152	136,0	38,0	5168,0	45,6	6202,0	57,0	7752,0	65,7	8935,0
		178	SF.02.063.178	114,0	44,5	5073,0	53,4	6088,0	66,8	7615,0	76,5	8721,0
		203	SF.02.063.203	100,0	50,8	5080,0	60,9	6090,0	76,1	7610,0	88,0	8800,0
		229	SF.02.063.229	89,2	57,3	5111,0	68,7	6128,0	85,9	7662,0	103,9	9268,0
		254	SF.02.063.254	78,4	63,5	4978,0	76,2	5974,0	95,4	7472,0	112,4	8812,0
b x h / 11.5 x 9.1		305	SF.02.063.305	64,7	76,3	4937,0	91,5	5920,0	114,4	7402,0	133,8	8657,0

SF.03

schwere Belastung – rot

Hülsen- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Federrate in N/mm	Tabelle des Federwegs							
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (37,5% von C)		Federweg auf Block- höhe	
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N
A	B	C										
10	5	25	SF.03.010.025	22,1	5,0	111,0	6,3	139,0	7,5	166,0	9,2	203,0
		32	SF.03.010.032	17,5	6,4	112,0	8,0	140,0	9,6	168,0	12,1	212,0
		38	SF.03.010.038	17,1	7,6	130,0	9,5	162,0	11,4	195,0	13,2	226,0
		44	SF.03.010.044	15,0	8,8	132,0	11,0	165,0	13,2	198,0	15,1	227,0
		51	SF.03.010.051	12,8	10,2	131,0	12,8	164,0	15,3	196,0	19,5	250,0
		64	SF.03.010.064	10,7	12,8	137,0	16,0	171,0	19,2	205,0	21,8	233,0
		76	SF.03.010.076	7,5	15,2	114,0	19,0	143,0	22,8	171,0	27,9	209,0
b x h / 1.9 x 1.5		305	SF.03.010.305	2,1	61,0	128,0	76,3	160,0	91,5	192,0	127,2	267,0
12,5	6,3	25	SF.03.012.025	42,1	5,0	211,0	6,3	265,0	7,5	316,0	9,8	413,0
		32	SF.03.012.032	33,2	6,4	212,0	8,0	266,0	9,6	319,0	13,6	452,0
		38	SF.03.012.038	29,3	7,6	223,0	9,5	278,0	11,4	334,0	14,6	428,0
		44	SF.03.012.044	24,6	8,8	216,0	11,0	271,0	13,2	325,0	18,1	445,0
		51	SF.03.012.051	19,6	10,2	200,0	12,8	251,0	15,3	300,0	22,3	437,0
		64	SF.03.012.064	15,0	12,8	192,0	16,0	240,0	19,2	288,0	27,3	410,0
		76	SF.03.012.076	13,2	15,2	201,0	19,0	251,0	22,8	301,0	33,1	437,0
b x h / 2.4 x 1.9		89	SF.03.012.089	11,4	17,8	203,0	22,3	254,0	26,7	304,0	38,9	443,0
		102	SF.03.012.102	8,4	20,4	171,0	25,5	214,0	30,6	257,0	43,8	368,0
b x h / 3.1 x 2.5		305	SF.03.012.305	2,8	61,0	171,0	76,3	214,0	91,5	256,0	139,7	391,0
16	8	25	SF.03.016.025	75,7	5,0	379,0	6,3	477,0	7,5	568,0	8,4	636,0
		32	SF.03.016.032	52,8	6,4	338,0	8,0	422,0	9,6	507,0	10,5	554,0
		38	SF.03.016.038	48,5	7,6	369,0	9,5	461,0	11,4	553,0	13,6	660,0
		44	SF.03.016.044	42,8	8,8	377,0	11,0	471,0	13,2	565,0	15,9	681,0
		51	SF.03.016.051	37,1	10,2	378,0	12,8	475,0	15,3	568,0	18,9	701,0
		64	SF.03.016.064	30,3	12,8	388,0	16,0	485,0	19,2	582,0	24,9	754,0
		76	SF.03.016.076	25,7	15,2	391,0	19,0	488,0	22,8	586,0	29,2	750,0
b x h / 3.1 x 2.5		89	SF.03.016.089	21,7	17,8	386,0	22,3	484,0	26,7	579,0	34,5	749,0
		102	SF.03.016.102	19,3	20,4	394,0	25,5	492,0	30,6	591,0	39,1	755,0
b x h / 4.0 x 3.3		115	SF.03.016.115	15,7	23,0	361,0	28,8	452,0	34,5	542,0	44,0	691,0
b x h / 5.5 x 4.2		305	SF.03.016.305	7,1	61,0	433,0	76,3	542,0	91,5	650,0	103,6	736,0
20	10	25	SF.03.020.025	216,0	5,0	1080,0	6,3	1361,0	7,5	1620,0	8,3	1793,0
		32	SF.03.020.032	168,0	6,4	1075,0	8,0	1344,0	9,6	1613,0	10,9	1831,0
		38	SF.03.020.038	129,0	7,6	980,0	9,5	1226,0	11,4	1471,0	12,5	1613,0
		44	SF.03.020.044	112,0	8,8	986,0	11,0	1232,0	13,2	1478,0	15,0	1680,0
		51	SF.03.020.051	94,0	10,2	959,0	12,8	1203,0	15,3	1438,0	17,6	1654,0
		64	SF.03.020.064	72,1	12,8	923,0	16,0	1154,0	19,2	1384,0	22,6	1629,0
		76	SF.03.020.076	59,7	15,2	907,0	19,0	1134,0	22,8	1361,0	27,5	1642,0
		89	SF.03.020.089	50,5	17,8	899,0	22,3	1126,0	26,7	1348,0	31,7	1601,0
		102	SF.03.020.102	44,2	20,4	902,0	25,5	1127,0	30,6	1353,0	37,5	1658,0
		115	SF.03.020.115	38,4	23,0	883,0	28,8	1106,0	34,5	1325,0	42,6	1636,0
		127	SF.03.020.127	34,1	25,4	866,0	31,8	1084,0	38,1	1299,0	45,5	1552,0
		140	SF.03.020.140	31,0	28,0	868,0	35,0	1085,0	42,0	1302,0	50,1	1553,0
		152	SF.03.020.152	28,2	30,4	857,0	38,0	1072,0	45,6	1286,0	55,8	1574,0
b x h / 4.0 x 3.3		305	SF.03.020.305	15,0	61,0	915,0	76,3	1145,0	91,5	1373,0	114,1	1712,0
25	12,5	25	SF.03.025.025	375,0	5,0	1875,0	6,3	2363,0	7,5	2813,0	8,5	3188,0
		32	SF.03.025.032	297,0	6,4	1901,0	8,0	2376,0	9,6	2851,0	11,0	3267,0
		38	SF.03.025.038	219,0	7,6	1664,0	9,5	2081,0	11,4	2497,0	12,6	2759,0
		44	SF.03.025.044	187,0	8,8	1646,0	11,0	2057,0	13,2	2468,0	14,8	2768,0
		51	SF.03.025.051	156,0	10,2	1591,0	12,8	1997,0	15,3	2387,0	17,9	2792,0
		64	SF.03.025.064	123,0	12,8	1574,0	16,0	1968,0	19,2	2362,0	23,1	2841,0
		76	SF.03.025.076	99,0	15,2	1505,0	19,0	1881,0	22,8	2257,0	26,3	2604,0
		89	SF.03.025.089	84,0	17,8	1495,0	22,3	1873,0	26,7	2243,0	30,5	2562,0
		102	SF.03.025.102	73,0	20,4	1489,0	25,5	1862,0	30,6	2234,0	37,3	2723,0
		115	SF.03.025.115	65,0	23,0	1495,0	28,8	1872,0	34,5	2243,0	41,9	2724,0
		127	SF.03.025.127	57,7	25,4	1466,0	31,8	1835,0	38,1	2198,0	46,2	2666,0
		140	SF.03.025.140	52,7	28,0	1476,0	35,0	1845,0	42,0	2213,0	49,3	2598,0
		152	SF.03.025.152	47,8	30,4	1453,0	38,0	1816,0	45,6	2180,0	55,7	2662,0
b x h / 5.5 x 4.2		178	SF.03.025.178	41,0	35,6	1460,0	44,5	1825,0	53,4	2189,0	65,1	2669,0
		203	SF.03.025.203	35,8	40,6	1453,0	50,8	1819,0	60,9	2180,0	74,5	2667,0
		305	SF.03.025.305	22,9	61,0	1397,0	76,3	1747,0	91,5	2095,0	110,2	2524,0

Hülse- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Federrate in N/mm	Tabelle des Federwegs									
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (37,5% von C)		Federweg auf Block- höhe			
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N		
A	B	C												
32	16	38	SF.03.032.038	388,0	7,6	2949,0	9,5	3686,0	11,4	4423,0	12,5	4850,0		
		44	SF.03.032.044	324,0	8,8	2851,0	11,0	3564,0	13,2	4277,0	14,9	4828,0		
		51	SF.03.032.051	272,0	10,2	2774,0	12,8	3428,0	15,3	4162,0	17,8	4842,0		
		64	SF.03.032.064	212,0	12,8	2714,0	16,0	3392,0	19,2	4070,0	22,4	4749,0		
		76	SF.03.032.076	172,0	15,2	2614,0	19,0	3268,0	22,8	3922,0	26,1	4489,0		
		89	SF.03.032.089	141,0	17,8	2510,0	22,3	3144,0	26,7	3765,0	30,8	4343,0		
		102	SF.03.032.102	122,0	20,4	2489,0	25,5	3111,0	30,6	3733,0	36,8	4490,0		
		115	SF.03.032.115	107,0	23,0	2461,0	28,8	3082,0	34,5	3692,0	41,4	4430,0		
		127	SF.03.032.127	93,0	25,4	2362,0	31,8	2957,0	38,1	3543,0	44,4	4129,0		
		140	SF.03.032.140	86,0	28,0	2408,0	35,0	3010,0	42,0	3612,0	48,5	4171,0		
		152	SF.03.032.152	78,0	30,4	2371,0	38,0	2964,0	45,6	3557,0	54,8	4274,0		
		178	SF.03.032.178	67,2	35,6	2392,0	44,5	2990,0	53,4	3588,0	63,6	4274,0		
		203	SF.03.032.203	59,1	40,6	2399,0	50,8	3002,0	60,9	3599,0	72,5	4285,0		
		254	SF.03.032.254	46,4	50,8	2357,0	63,5	2946,0	76,2	3536,0	92,8	4306,0		
b x h / 7.1 x 5.4		305	SF.03.032.305	38,0	61,0	2318,0	76,3	2899,0	91,5	3477,0	111,8	4248,0		
40	20	51	SF.03.040.051	350,0	10,2	3570,0	12,8	4480,0	15,3	5355,0	17,0	5950,0		
		64	SF.03.040.064	269,0	12,8	3443,0	16,0	4304,0	19,2	5165,0	21,9	5891,0		
		76	SF.03.040.076	219,0	15,2	3329,0	19,0	4161,0	22,8	4993,0	26,7	5847,0		
		89	SF.03.040.089	190,0	17,8	3382,0	22,3	4237,0	26,7	5073,0	31,3	5947,0		
		102	SF.03.040.102	163,0	20,4	3325,0	25,5	4157,0	30,6	4988,0	37,1	6047,0		
		115	SF.03.040.115	142,0	23,0	3266,0	28,8	4090,0	34,5	4899,0	41,0	5822,0		
		127	SF.03.040.127	128,0	25,4	3251,0	31,8	4070,0	38,1	4877,0	46,5	5952,0		
		140	SF.03.040.140	115,0	28,0	3220,0	35,0	4025,0	42,0	4830,0	53,1	6107,0		
		152	SF.03.040.152	105,0	30,4	3192,0	38,0	3990,0	45,6	4788,0	56,1	5891,0		
		178	SF.03.040.178	89,0	35,6	3168,0	44,5	3961,0	53,4	4753,0	67,4	5999,0		
		203	SF.03.040.203	77,0	40,6	3126,0	50,8	3912,0	60,9	4689,0	76,2	5867,0		
		254	SF.03.040.254	61,0	50,8	3099,0	63,5	3874,0	76,2	4648,0	96,2	5868,0		
		b x h / 8.4 x 6.2		305	SF.03.040.305	51,0	61,0	3111,0	76,3	3891,0	91,5	4667,0	114,8	5855,0
		50	25	64	SF.03.050.064	413,0	12,8	5286,0	16,0	6608,0	19,2	7930,0	22,4	9251,0
76	SF.03.050.076			339,0	15,2	5153,0	19,0	6441,0	22,8	7729,0	26,5	8984,0		
89	SF.03.050.089			288,0	17,8	5126,0	22,3	6422,0	26,7	7690,0	31,5	9072,0		
102	SF.03.050.102			245,0	20,4	4998,0	25,5	6248,0	30,6	7497,0	37,6	9212,0		
115	SF.03.050.115			215,0	23,0	4945,0	28,8	6192,0	34,5	7418,0	42,7	9181,0		
127	SF.03.050.127			192,0	25,4	4877,0	31,8	6106,0	38,1	7315,0	47,5	9120,0		
140	SF.03.050.140			168,0	28,0	4704,0	35,0	5880,0	42,0	7056,0	51,8	8702,0		
152	SF.03.050.152			154,0	30,4	4682,0	38,0	5852,0	45,6	7022,0	57,8	8901,0		
178	SF.03.050.178			134,0	35,6	4770,0	44,5	5963,0	53,4	7156,0	68,5	9179,0		
203	SF.03.050.178			117,0	40,6	4750,0	50,8	5944,0	60,9	7125,0	77,6	9079,0		
254	SF.03.050.254			89,0	50,8	4521,0	63,5	5652,0	76,2	6782,0	97,9	8713,0		
b x h / 11.1 x 7.6				305	SF.03.050.305	73,0	61,0	4453,0	76,3	5570,0	91,5	6680,0	120,7	8811,0
63	38			76	SF.03.063.076	618,0	15,2	9394,0	19,0	11742,0	22,8	14090,0	24,7	15265,0
				89	SF.03.063.089	515,0	17,8	9167,0	22,3	11485,0	26,7	13751,0	30,0	15450,0
		102	SF.03.063.102	438,0	20,4	8935,0	25,5	11169,0	30,6	13403,0	35,1	15374,0		
		115	SF.03.063.115	370,0	23,0	8510,0	28,8	10656,0	34,5	12765,0	37,5	13875,0		
		127	SF.03.063.127	333,0	25,4	8458,0	31,8	10589,0	38,1	12687,0	45,9	15285,0		
		152	SF.03.063.152	269,0	30,4	8178,0	38,0	10222,0	45,6	12266,0	56,5	15199,0		
		178	SF.03.063.178	226,0	35,6	8046,0	44,5	10057,0	53,4	12068,0	66,8	15097,0		
		203	SF.03.063.203	198,0	40,6	8039,0	50,8	10058,0	60,9	12058,0	78,8	15602,0		
		254	SF.03.063.254	155,0	50,8	7874,0	63,5	9843,0	76,3	11811,0	107,7	15763,0		
		b x h / 11.6 x 12.3		305	SF.03.063.305	128,0	61,0	7808,0	76,3	9766,0	91,5	11712,0	122,4	15667,0

SF.04

besonders schwere Belastung – gelb

Hülsen- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Federrate in N/mm	Tabelle des Federwegs									
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (37,5% von C)		Federweg auf Block- höhe			
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N		
A	B	C												
10	5	25	SF.04.010.025	36,8	4,3	158,0	5,0	184,0	6,3	232,0	7,7	283,0		
		32	SF.04.010.032	27,9	5,4	151,0	6,4	179,0	8,0	223,0	10,6	296,0		
		38	SF.04.010.038	23,7	6,5	154,0	7,6	180,0	9,5	225,0	12,6	299,0		
		44	SF.04.010.044	19,2	7,5	144,0	8,8	169,0	11,0	211,0	13,8	265,0		
		51	SF.04.010.051	16,5	8,7	144,0	10,2	168,0	12,8	211,0	16,2	267,0		
		64	SF.04.010.064	13,2	10,9	144,0	12,8	169,0	16,0	211,0	20,4	279,0		
		76	SF.04.010.076	10,9	12,9	141,0	15,2	166,0	19,0	207,0	25,2	275,0		
b x h / 1,9 x 1,6		305	SF.04.010.305	2,6	51,9	135,0	61,0	159,0	76,3	198,0	110,8	288,0		
12,5	6,3	25	SF.04.012.025	78,5	4,3	252,0	5,0	293,0	6,3	369,0	8,1	474,0		
		32	SF.04.012.032	43,9	5,4	237,0	6,4	281,0	8,0	351,0	9,9	435,0		
		38	SF.04.012.038	36,0	6,5	234,0	7,6	274,0	9,5	342,0	12,9	464,0		
		44	SF.04.012.044	30,3	7,5	227,0	8,8	267,0	11,0	333,0	14,1	427,0		
		51	SF.04.012.051	26,2	8,7	228,0	10,2	267,0	12,8	335,0	17,4	456,0		
		64	SF.04.012.064	21,2	10,9	231,0	12,8	271,0	16,0	339,0	21,0	445,0		
		76	SF.04.012.076	17,1	12,9	221,0	15,2	260,0	19,0	325,0	26,4	451,0		
b x h / 2,6 x 2,0		89	SF.04.012.089	14,5	15,1	219,0	17,8	258,0	22,3	323,0	31,5	457,0		
		102	SF.04.012.102	12,7	17,3	220,0	20,4	259,0	25,5	324,0	36,0	457,0		
		305	SF.04.012.305	4,3	51,9	223,0	61,0	262,0	76,3	328,0	111,3	479,0		
		16	8	25	SF.04.016.025	118,0	4,3	507,0	5,0	590,0	6,3	743,0	8,5	1003,0
				32	SF.04.016.032	89,0	5,4	481,0	6,4	570,0	8,0	712,0	11,0	979,0
				38	SF.04.016.038	72,1	6,5	469,0	7,6	548,0	9,5	685,0	13,2	952,0
				44	SF.04.016.044	60,9	7,5	457,0	8,8	536,0	11,0	670,0	14,7	895,0
51	SF.04.016.051			52,3	8,7	455,0	10,2	533,0	12,8	669,0	17,7	926,0		
64	SF.04.016.064			41,2	10,9	449,0	12,8	527,0	16,0	659,0	21,9	902,0		
76	SF.04.016.076			34,1	12,9	440,0	15,2	518,0	19,0	648,0	27,8	948,0		
b x h / 3,2 x 2,9		89	SF.04.016.089	29,5	15,1	445,0	17,8	525,0	22,3	658,0	31,2	920,0		
		102	SF.04.016.102	25,6	17,3	443,0	20,4	522,0	25,5	653,0	37,9	970,0		
		115	SF.04.016.115	22,4	19,6	439,0	23,0	515,0	28,8	645,0	44,5	997,0		
		305	SF.04.016.305	8,4	51,9	436,0	61,0	512,0	76,3	641,0	113,5	953,0		
		20	10	25	SF.04.020.025	293,0	4,3	1260,0	5,0	1465,0	6,3	1846,0	6,9	2022,0
				32	SF.04.020.032	224,0	5,4	1210,0	6,4	1434,0	8,0	1792,0	9,4	2106,0
				38	SF.04.020.038	177,0	6,5	1151,0	7,6	1345,0	9,5	1682,0	12,0	2124,0
44	SF.04.020.044			149,0	7,5	1118,0	8,8	1311,0	11,0	1639,0	13,5	2012,0		
51	SF.04.020.051			128,0	8,7	1114,0	10,2	1306,0	12,8	1638,0	16,2	2074,0		
64	SF.04.020.064			99,0	10,9	1079,0	12,8	1267,0	16,0	1584,0	21,2	2099,0		
76	SF.04.020.076			81,7	12,9	1054,0	15,2	1242,0	19,0	1552,0	24,7	2018,0		
89	SF.04.020.089			69,5	15,1	1049,0	17,8	1237,0	22,3	1550,0	28,8	2002,0		
102	SF.04.020.102			60,6	17,3	1048,0	20,4	1236,0	25,5	1545,0	34,8	2109,0		
115	SF.04.020.115			53,0	19,6	1039,0	23,0	1219,0	28,8	1526,0	39,0	2067,0		
127	SF.04.020.127			47,5	21,6	1026,0	25,4	1207,0	31,8	1511,0	43,0	2043,0		
140	SF.04.020.140			43,0	23,8	1023,0	28,0	1204,0	35,0	1505,0	45,3	1948,0		
152	SF.04.020.152			39,0	25,8	1006,0	30,4	1186,0	38,0	1482,0	50,4	1966,0		
b x h / 4,1 x 3,8		305	SF.04.020.305	21,2	51,9	1100,0	61,0	1293,0	76,3	1618,0	103,5	2194,0		
25	12,5	25	SF.04.025.025	459,0	4,3	1974,0	5,0	2295,0	6,3	2892,0	7,3	3351,0		
		32	SF.04.025.032	374,4	5,4	2022,0	6,4	2396,0	8,0	2995,0	10,7	4006,0		
		38	SF.04.025.038	346,0	6,5	2249,0	7,6	2630,0	9,5	3287,0	12,0	4152,0		
		44	SF.04.025.044	244,0	7,5	1830,0	8,8	2147,0	11,0	2684,0	14,4	3514,0		
		51	SF.04.025.051	207,5	8,7	1805,0	10,2	2117,0	12,8	2656,0	17,4	3611,0		
		64	SF.04.025.064	161,0	10,9	1755,0	12,8	2061,0	16,0	2576,0	21,4	3445,0		
		76	SF.04.025.076	130,8	12,9	1687,0	15,2	1988,0	19,0	2485,0	26,9	3519,0		
		89	SF.04.025.089	110,5	15,1	1669,0	17,8	1967,0	22,3	2464,0	30,9	3414,0		
		102	SF.04.025.102	96,3	17,3	1666,0	20,4	1965,0	25,5	2456,0	36,7	3534,0		
		115	SF.04.025.115	85,7	19,6	1680,0	23,0	1971,0	28,8	2468,0	40,3	3454,0		
		127	SF.04.025.127	76,3	21,6	1648,0	25,4	1938,0	31,8	2426,0	45,1	3441,0		
		140	SF.04.025.140	68,9	23,8	1640,0	28,0	1929,0	35,0	2412,0	47,6	3280,0		
		152	SF.04.025.152	63,5	25,8	1638,0	30,4	1930,0	38,0	2413,0	53,5	3397,0		
		178	SF.04.025.178	53,9	30,3	1633,0	35,6	1919,0	44,5	2399,0	63,9	3444,0		
		203	SF.04.025.203	47,0	34,5	1622,0	40,6	1908,0	50,8	2388,0	70,2	3299,0		
b x h / 5,4 x 4,6		305	SF.04.025.305	30,9	51,9	1604,0	61,0	1885,0	76,3	2358,0	110,1	3402,0		

besonders schwere Belastung – gelb

Hülsen- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Federrate in N/mm	Tabelle des Federwegs									
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (37,5% von C)		Federweg auf Block- höhe			
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N		
A	B	C												
32	16	38	SF.04.032.038	528,2	6,5	3433,0	7,6	4014,0	9,5	5018,0	11,4	6021,0		
		44	SF.04.032.044	424,4	7,5	3183,0	8,8	3735,0	11,0	4668,0	13,7	5814,0		
		51	SF.04.032.051	353,0	8,7	3071,0	10,2	3601,0	12,8	4518,0	15,6	5507,0		
		64	SF.04.032.064	269,2	10,9	2934,0	12,8	3446,0	16,0	4307,0	20,0	5384,0		
		76	SF.04.032.076	218,5	12,9	2819,0	15,2	3321,0	19,0	4152,0	24,4	5131,0		
		89	SF.04.032.089	180,3	15,1	2723,0	17,8	3209,0	22,3	4021,0	29,7	5355,0		
		102	SF.04.032.102	155,0	17,3	2682,0	20,4	3162,0	25,5	3953,0	35,1	5441,0		
		115	SF.04.032.115	140,0	19,6	2744,0	23,0	3220,0	28,8	4032,0	39,0	5460,0		
		127	SF.04.032.127	124,0	21,6	2678,0	25,4	3150,0	31,8	3943,0	42,8	5307,0		
		140	SF.04.032.140	112,3	23,8	2673,0	28,0	3144,0	35,0	3931,0	48,6	5458,0		
		152	SF.04.032.152	102,0	25,8	2632,0	30,4	3101,0	38,0	3876,0	52,4	5345,0		
		178	SF.04.032.178	88,2	30,3	2672,0	35,6	3140,0	44,5	3925,0	60,9	5371,0		
		203	SF.04.032.203	76,0	34,5	2622,0	40,6	3086,0	50,8	3861,0	69,2	5259,0		
		254	SF.04.032.254	60,8	43,2	2627,0	50,8	3089,0	63,5	3861,0	88,1	5356,0		
b x h / 7.3 x 5.9		305	SF.04.032.305	49,0	51,9	2543,0	61,0	2989,0	76,3	3739,0	104,2	5106,0		
40	20	51	SF.04.040.051	628,0	8,7	5464,0	10,2	6406,0	12,8	8038,0	15,0	9420,0		
		64	SF.04.040.064	487,0	10,9	5308,0	12,8	6234,0	16,0	7792,0	19,5	9497,0		
		76	SF.04.040.076	379,0	12,9	4889,0	15,2	5761,0	19,0	7201,0	23,3	8831,0		
		89	SF.04.040.089	321,0	15,1	4847,0	17,8	5714,0	22,3	7158,0	26,7	8571,0		
		102	SF.04.040.102	281,0	17,3	4861,0	20,4	5732,0	25,5	7166,0	33,8	9498,0		
		115	SF.04.040.115	245,0	19,6	4802,0	23,0	5635,0	28,8	7056,0	36,2	8869,0		
		127	SF.04.040.127	221,0	21,6	4774,0	25,4	5613,0	31,8	7028,0	40,7	8995,0		
		140	SF.04.040.140	190,0	23,8	4522,0	28,0	5320,0	35,0	6650,0	44,5	8455,0		
		152	SF.04.040.152	168,0	25,8	4334,0	30,4	5107,0	38,0	6384,0	49,6	8333,0		
		178	SF.04.040.178	146,0	30,3	4424,0	35,6	5198,0	44,5	6497,0	59,9	8745,0		
		203	SF.04.040.203	132,0	34,5	4554,0	40,6	5359,0	50,8	6706,0	67,1	8857,0		
		254	SF.04.040.254	107,0	43,2	4622,0	50,8	5436,0	63,5	6795,0	86,3	9234,0		
		b x h / 8.4 x 7.5		305	SF.04.040.305	87,8	51,9	4557,0	61,0	5356,0	76,3	6699,0	103,6	9096,0
		50	25	64	SF.04.050.064	709,0	10,9	7728,0	12,8	9075,0	16,0	11344,0	19,3	13684,0
76	SF.04.050.076			572,0	12,9	7379,0	15,2	8694,0	19,0	10868,0	24,2	13842,0		
89	SF.04.050.089			475,0	15,1	7173,0	17,8	8455,0	22,3	10593,0	28,0	13300,0		
102	SF.04.050.102			405,0	17,3	7007,0	20,4	8262,0	25,5	10328,0	33,5	13568,0		
115	SF.04.050.115			352,0	19,6	6899,0	23,0	8096,0	28,8	10138,0	38,6	13587,0		
127	SF.04.050.127			316,0	21,6	6826,0	25,4	8026,0	31,8	10049,0	41,4	13082,0		
140	SF.04.050.140			274,0	23,8	6521,0	28,0	7672,0	35,0	9590,0	47,3	12960,0		
152	SF.04.050.152			239,0	25,8	6166,0	30,4	7266,0	38,0	9082,0	50,2	11998,0		
178	SF.04.050.178			215,0	30,3	6515,0	35,6	7654,0	44,5	9568,0	61,1	13037,0		
203	SF.04.050.178			187,0	34,5	6452,0	40,6	7592,0	50,8	9500,0	67,7	12660,0		
254	SF.04.050.254			153,0	43,2	6610,0	50,8	7772,0	63,5	9716,0	87,0	13311,0		
b x h / 11.5 x 9.0				305	SF.04.050.305	127,0	51,9	6591,0	61,0	7747,0	76,3	9690,0	103,4	13132,0
63	38			76	SF.04.063.076	952,0	12,9	12280,0	15,2	14470,0	*	*	15,5	14756,0
				89	SF.04.063.089	819,0	15,1	12360,0	17,8	14580,0	*	*	20,0	19040,0
		102	SF.04.063.102	700,0	17,3	12110,0	20,4	14280,0	28,5	17850,0	30,7	21449,0		
		115	SF.04.063.115	620,0	19,6	12152,0	23,0	14260,0	28,8	17860,0	34,9	21640,0		
		127	SF.04.063.127	565,0	21,6	12204,0	25,4	14351,0	31,8	17967,0	38,0	21470,0		
		152	SF.04.063.152	458,0	25,8	11816,0	30,4	13923,0	38,0	17404,0	47,2	21618,0		
		178	SF.04.063.178	384,0	30,3	11635,0	35,6	13670,0	44,5	17088,0	55,8	21427,0		
		203	SF.04.063.203	337,0	34,5	11627,0	40,6	13682,0	50,8	17120,0	64,8	21838,0		
		254	SF.04.063.254	263,0	43,2	11362,0	50,8	13360,0	63,5	16701,0	86,7	22802,0		
		b x h / 11.6 x 14.9		305	SF.04.063.305	218,0	51,9	11314,0	61,0	13298,0	76,3	16633,0	105,7	23043,0

SF.05

schwerste Belastung – silber

Hülsen- durch- messer mm	Bolzen- durch- messer mm	Un- belas- tete Länge mm	Bestell- nummer	Feder- rate in N/mm	Tabelle des Federwegs							
					Für lange Lebensdauer (25% von C)		Für mittlere Lebensdauer (30% von C)		Hohe Belastung Lebensdauer (37,5% von C)		Federweg auf Block- höhe	
					Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N	Federweg mm	Belast. N
A	B	C										
25	12,5	64	SF.05.025.064	644,0	6,4	4122,0	7,7	4959,0	9,6	6182,0	13,0	8372,0
		76	SF.05.025.076	556,0	7,6	4226,0	9,1	5060,0	11,4	6338,0	16,0	8896,0
		89	SF.05.025.089	462,0	8,9	4112,0	10,7	4943,0	13,4	6168,0	20,0	9240,0
		102	SF.05.025.102	390,0	10,2	3978,0	12,2	4758,0	15,3	5967,0	23,0	8970,0
		115	SF.05.025.115	360,0	11,5	4140,0	13,8	4968,0	17,3	6210,0	26,0	9360,0
		127	SF.05.025.127	326,0	12,7	4140,0	15,2	4955,0	19,1	6210,0	28,0	9128,0
		152	SF.05.025.152	255,0	15,2	3876,0	18,2	4641,0	22,8	5814,0	34,0	8670,0
		178	SF.05.025.178	230,0	17,8	4094,0	21,4	4922,0	26,7	6141,0	39,0	8970,0
b x h / 5.6 x 7.5		203	SF.05.025.203	202,0	20,3	4101,0	24,4	4929,0	30,5	6151,0	45,0	9090,0
		305	SF.05.025.305	136,0	30,5	4148,0	36,6	4978,0	45,8	6222,0	63,0	8568,0
32	16	64	SF.05.032.064	1077,0	6,4	6892,0	7,7	8270,0	9,6	10337,0	13,0	13998,0
		76	SF.05.032.076	874,0	7,6	6642,0	9,1	7971,0	11,4	9964,0	16,0	13984,0
		89	SF.05.032.089	721,0	8,9	6419,0	10,7	7702,0	13,4	9628,0	20,0	14424,0
		102	SF.05.032.102	620,0	10,2	6324,0	12,2	7589,0	15,3	9486,0	23,0	14260,0
		115	SF.05.032.115	560,0	11,5	6440,0	13,8	7728,0	17,3	9660,0	26,0	14560,0
		127	SF.05.032.127	496,0	12,7	6299,0	15,2	7559,0	19,1	9449,0	28,0	13888,0
		152	SF.05.032.152	408,0	15,2	6202,0	18,2	7442,0	22,8	9302,0	34,0	13872,0
		178	SF.05.032.178	353,0	17,8	6280,0	21,4	7536,0	26,7	9420,0	39,0	13759,0
b x h / 7.5 x 9.2		203	SF.05.032.203	304,0	20,3	6171,0	24,4	7405,0	30,5	9257,0	45,0	13680,0
		254	SF.05.032.254	243,0	25,4	6177,0	30,5	7413,0	38,1	9266,0	62,0	15078,0
		305	SF.05.032.305	196,0	30,5	5978,0	36,6	7174,0	45,8	8967,0	75,0	14700,0
40	20	89	SF.05.040.089	880,0	8,9	7832,0	10,7	9416,0	13,4	11748,0	20,0	17600,0
		102	SF.05.040.102	762,0	10,2	7772,0	12,2	9296,0	15,3	11659,0	23,0	17526,0
		115	SF.05.040.115	679,0	11,5	7809,0	13,8	9370,0	17,3	11713,0	26,0	17654,0
		127	SF.05.040.127	622,0	12,7	7899,0	15,2	9454,0	19,1	11849,0	28,0	17416,0
		152	SF.05.040.152	509,0	15,2	7737,0	18,2	9264,0	22,8	11605,0	34,0	18324,0
		178	SF.05.040.178	429,0	17,8	7636,0	21,4	9181,0	26,7	11454,0	39,0	18447,0
		203	SF.05.040.203	374,0	20,3	7592,0	24,4	9126,0	30,5	11388,0	45,0	18323,0
		254	SF.05.040.254	296,0	25,4	7518,0	30,5	9028,0	38,1	11278,0	62,0	18352,0
b x h / 8.5 x 11.0		305	SF.05.040.305	246,0	30,5	7530,0	36,6	9004,0	45,8	11255,0	75,0	18450,0
50	25	89	SF.05.050.089	1410,0	8,9	12549,0	10,7	15087,0	13,4	18824,0	19,0	26790,0
		102	SF.05.050.102	1215,0	10,2	12393,0	12,2	14823,0	15,3	18590,0	22,0	26730,0
		115	SF.05.050.115	1076,0	11,5	12374,0	13,8	14849,0	17,3	18561,0	25,0	26900,0
		127	SF.05.050.127	968,0	12,7	12294,0	15,2	14714,0	19,1	18440,0	28,0	27104,0
		152	SF.05.050.152	806,0	15,2	12251,0	18,2	14669,0	22,8	18377,0	34,0	27404,0
		178	SF.05.050.178	698,0	17,8	12424,0	21,4	14937,0	26,7	18637,0	40,0	27029,0
		203	SF.05.050.203	612,0	20,3	12424,0	24,4	14933,0	30,5	18635,0	45,0	27540,0
		254	SF.05.050.254	472,0	25,4	11989,0	30,5	14396,0	38,1	17983,0	58,0	27376,0
b x h / 11.8 x 13.5		305	SF.05.050.305	388,0	30,5	11834,0	36,6	14201,0	45,8	17751,0	70,0	27160,0