

Sprężyny talerzowe

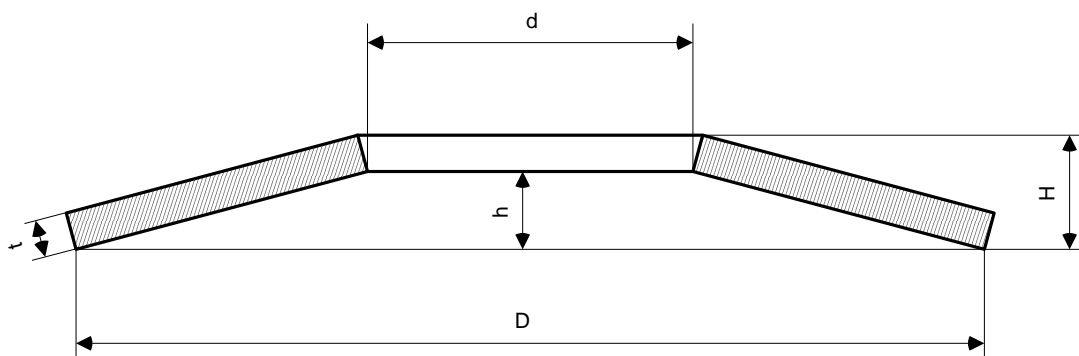
wg normy DIN 2093

Materiał

do grubości 1,2 materiał CK75
od grubości 1,25 materiał 50CrV4

Powłoka

fosforyzowanie i olejenie



Legenda

- D - średnica zewnętrzna sprężyny
- d - średnica wewnętrzna sprężyny
- t - grubość materiału
- H - wysokość swobodna nieobciążonej sprężyny
- h - wysokość swobodna stożka nieobciążonej sprężyny
- F - siła wytworzona przez sprężynę (N)

$$1\text{kg} = 9,81\text{N}$$

$$1\text{N} = 0,102\text{kg}$$

Inne wymiary oraz materiały na zapytanie.

SYMBOL	średnica zewnętrzna	średnica wewnętrzna	grubość	wysokość swobodna	siła (0,75h)	wysokość swobodna stożka	SYMBOL	średnica zewnętrzna	średnica wewnętrzna	grubość	wysokość swobodna	siła (0,75h)	wysokość swobodna stożka
	D	d						D	d				
ST 8x3,2x0,3	8	3.2	0.30	0.55	104	0.25	ST 23x8,2x0,7	23	8.2	0.70	1.50	544	0.80
ST 8x3,2x0,4	8	3.2	0.40	0.60	186	0.20	ST 23x8,2x0,8	23	8.2	0.80	1.55	719	0.75
ST 8x3,2x0,5	8	3.2	0.50	0.70	357	0.20	ST 23x8,2x0,9	23	8.2	0.90	1.70	1078	0.80
ST 8x4,2x0,2	8	4.2	0.20	0.45	39	0.25	ST 23x10,2x0,9	23	10.2	0.90	1.65	1058	0.75
ST 8x4,2x0,3	8	4.2	0.30	0.55	118	0.25	ST 23x10,2x1,0	23	10.2	1.00	1.70	1315	0.70
ST 8x4,2x0,4	8	4.2	0.40	0.60	210	0.20	ST 23x12,2x1,0	23	12.2	1.00	1.60	1217	0.60
ST 10x3,2x0,3	10	3.2	0.30	0.65	98	0.35	ST 23x12,2x1,25	23	12.2	1.25	1.85	2331	0.60
ST 10x3,2x0,4	10	3.2	0.40	0.70	179	0.35	ST 23x12,2x1,5	23	12.2	1.50	2.10	3986	0.60
ST 10x3,2x0,5	10	3.2	0.50	0.85	404	0.30	ST 25x12,2x0,7	25	12.2	0.70	1.60	600	0.90
ST 10x4,2x0,4	10	4.2	0.40	0.70	189	0.30	ST 25x12,2x0,9	25	12.2	0.90	1.60	862	0.70
ST 10x4,2x0,5	10	4.2	0.50	0.75	294	0.25	ST 25x12,2x1,5	25	12.2	1.50	2.05	2926	0.55
ST 10x4,2x0,6	10	4.2	0.60	0.85	502	0.25	ST 28x10,2x0,8	28	10.2	0.80	1.75	662	0.95
ST 10x5,2x0,25	10	5.2	0.25	0.55	58	0.30	ST 28x10,2x1,0	28	10.2	1.00	2.00	1289	1.00
ST 10x5,2x0,4	10	5.2	0.40	0.70	209	0.30	ST 28x10,2x1,25	28	10.2	1.25	2.25	2394	1.00
ST 10x5,2x0,5	10	5.2	0.50	0.75	325	0.25	ST 28x10,2x1,5	28	10.2	1.50	2.20	2723	0.70
ST 12x4,2x0,4	12	4.2	0.40	0.80	178	0.40	ST 28x12,2x1,0	28	12.2	1.00	1.95	1268	0.95
ST 12x4,2x0,5	12	4.2	0.50	0.90	331	0.40	ST 28x12,2x1,25	28	12.2	1.25	2.10	2083	0.85
ST 12x4,2x0,6	12	4.2	0.60	1.00	557	0.40	ST 28x12,2x1,5	28	12.2	1.50	2.25	3077	0.75
ST 12x5,2x0,5	12	5.2	0.50	0.90	350	0.40	ST 28x14,2x0,8	28	14.2	0.80	1.80	801	1.00
ST 12x5,2x0,6	12	5.2	0.60	0.95	506	0.35	ST 28x14,2x1,0	28	14.2	1.00	1.80	1107	0.80
ST 12x6,2x0,5	12	6.2	0.50	0.85	326	0.35	ST 28x14,2x1,25	28	14.2	1.25	2.10	2240	0.85
ST 12x6,2x0,6	12	6.2	0.60	0.95	552	0.35	ST 28x14,2x1,5	28	14.2	1.50	2.15	2841	0.65
ST 12,5x6,2x0,35	12.5	6.2	0.35	0.80	151	0.45	ST 31,5x16,3x0,8	31.5	16.3	0.80	1.85	687	1.05
ST 12,5x6,2x0,5	12.5	6.2	0.50	0.85	293	0.35	ST 31,5x16,3x1,25	31.5	16.3	1.25	2.15	1913	0.90
ST 12,5x6,2x0,7	12.5	6.2	0.70	1.00	660	0.30	ST 31,5x16,3x1,5	31.5	16.3	1.50	2.40	3230	0.90
ST 14x7,2x0,35	14	7.2	0.35	0.80	123	0.45	ST 31,5x16,3x1,75	31.5	16.3	1.75	2.45	3871	0.70
ST 14x7,2x0,5	14	7.2	0.50	0.90	279	0.40	ST 31,5x16,3x2,0	31.5	16.3	2.00	2.75	6173	0.75
ST 14x7,2x0,8	14	7.2	0.80	1.10	797	0.30	ST 34x12,3x1,0	34	12.3	1.00	2.20	1110	1.20
ST 15x5,2x0,4	15	5.2	0.40	0.95	176	0.55	ST 34x12,3x1,25	34	12.3	1.25	2.45	2024	1.20
ST 15x5,2x0,5	15	5.2	0.50	1.00	278	0.50	ST 34x12,3x1,5	34	12.3	1.50	2.70	3363	1.20
ST 15x5,2x0,6	15	5.2	0.60	1.05	407	0.45	ST 34x14,3x1,25	34	14.3	1.25	2.40	1993	1.15
ST 15x5,2x0,7	15	5.2	0.70	1.25	797	0.55	ST 34x14,3x1,5	34	14.3	1.50	2.55	2990	1.05
ST 15x6,2x0,5	15	6.2	0.50	1.00	289	0.50	ST 34x16,3x1,5	34	16.3	1.50	2.55	3155	1.05
ST 15x6,2x0,6	15	6.2	0.60	1.05	424	0.45	ST 34x16,3x2,0	34	16.3	2.00	2.85	5783	0.85
ST 15x6,2x0,7	15	6.2	0.70	1.10	578	0.40	ST 35,5x18,3x0,9	35.5	18.3	0.90	2.05	832	1.15
ST 15x8,2x0,7	15	8.2	0.70	1.10	666	0.40	ST 35,5x18,3x1,25	35.5	18.3	1.25	2.25	1699	1.00
ST 15x8,2x0,8	15	8.2	0.80	1.20	982	0.40	ST 35,5x18,3x2,0	35.5	18.3	2.00	2.80	5187	0.80
ST 16x8,2x0,4	16	8.2	0.40	0.90	154	0.50	ST 40x14,3x1,25	40	14.3	1.25	2.65	1780	1.40
ST 16x8,2x0,6	16	8.2	0.60	1.05	410	0.45	ST 40x14,3x1,5	40	14.3	1.50	2.80	2668	1.30
ST 16x8,2x0,9	16	8.2	0.90	1.25	1013	0.35	ST 40x14,3x1,75	40	14.3	1.75	3.05	4119	1.30
ST 18x6,2x0,4	18	6.2	0.40	1.00	139	0.60	ST 40x14,3x2,0	40	14.3	2.00	3.05	4769	1.05
ST 18x6,2x0,5	18	6.2	0.50	1.10	245	0.60	ST 40x16,3x1,5	40	16.3	1.50	2.80	2749	1.30
ST 18x6,2x0,6	18	6.2	0.60	1.20	400	0.60	ST 40x16,3x1,75	40	16.3	1.75	3.10	4435	1.35
ST 18x6,2x0,7	18	6.2	0.70	1.40	742	0.70	ST 40x16,3x2,0	40	16.3	2.00	3.10	5169	1.10
ST 18x6,2x0,8	18	6.2	0.80	1.50	1072	0.70	ST 40x18,3x2,0	40	18.3	2.00	3.15	5656	1.15
ST 18x8,2x0,7	18	8.2	0.70	1.25	596	0.55	ST 40x20,4x1,0	40	20.4	1.00	2.30	1017	1.30
ST 18x8,2x0,8	18	8.2	0.80	1.30	783	0.50	ST 40x20,4x1,5	40	20.4	1.50	2.65	2621	1.15
ST 18x8,2x1,0	18	8.2	1.00	1.50	1497	0.50	ST 40x20,4x2,0	40	20.4	2.00	3.10	5701	1.10
ST 18x9,2x0,45	18	9.2	0.45	1.05	214	0.60	ST 40x20,4x2,25	40	20.4	2.25	3.15	6500	0.90
ST 18x9,2x0,7	18	9.2	0.70	1.20	566	0.50	ST 40x20,4x2,5	40	20.4	2.50	3.45	9390	0.95
ST 18x9,2x1,0	18	9.2	1.00	1.40	1254	0.40	ST 45x22,4x1,25	45	22.4	1.25	2.85	1891	1.60
ST 20x8,2x0,5	20	8.2	0.50	1.15	231	0.65	ST 45x22,4x1,75	45	22.4	1.75	3.05	3646	1.30
ST 20x8,2x0,6	20	8.2	0.60	1.30	412	0.70	ST 45x22,4x2,5	45	22.4	2.50	3.50	7716	1.00
ST 20x8,2x0,7	20	8.2	0.70	1.35	569	0.65	ST 48x16,3x1,5	48	16.3	1.5	3.00	2195	1.50
ST 20x8,2x0,8	20	8.2	0.80	1.40	751	0.60	ST 50x18,4x1,25	50	18.4	1.25	2.85	1375	1.60
ST 20x8,2x0,9	20	8.2	0.90	1.50	1051	0.60	ST 50x18,4x1,5	50	18.4	1.50	3.15	2319	1.65
ST 20x8,2x1,0	20	8.2	1.00	1.60	1424	0.60	ST 50x18,4x2,0	50	18.4	2.00	3.65	5114	1.65
ST 20x10,2x0,4	20	10.2	0.40	0.90	99	0.50	ST 50x18,4x2,5	50	18.4	2.50	4.15	9643	1.65
ST 20x10,2x0,5	20	10.2	0.50	1.15	254	0.65	ST 50x18,4x3,0	50	18.4	3.00	4.20	11630	1.20
ST 20x10,2x0,8	20	10.2	0.80	1.35	748	0.55	ST 50x20,4x2,0	50	20.4	2.00	3.50	4687	1.50
ST 20x10,2x0,9	20	10.2	0.90	1.45	1050	0.55	ST 50x20,4x2,5	50	20.4	2.50	3.85	7919	1.35
ST 20x10,2x1,0	20	10.2	1.00	1.55	1425	0.55	ST 50x22,4x2,0	50	22.4	2.00	3.60	5222	1.60
ST 20x10,2x1,1	20	10.2	1.10	1.55	1521	0.45	ST 50x22,4x2,5	50	22.4	2.50	3.90	8510	1.40
ST 22,5x11,2x0,6	22.5	11.2	0.60	1.40	425	0.80	ST 50x25,4x1,25	50	25.4	1.25	2.85	1550	1.60
ST 22,5x11,2x0,8	22.5	11.2	0.80	1.45	707	0.65	ST 50x25,4x1,5	50	25.4	1.50	3.10	2512	1.60
ST 22,5x11,2x1,25	22.5	11.2	1.25	1.75	1929	0.50	ST 50x25,4x2,0	50	25.4	2.00	3.40	4762	1.40

SYMBOL	średnica zewnętrzna D	średnica wewnętrzna d	grubość t	wysokość swobodna H	siła (0,75h) F	wysokość swobodna stożka h
ST 50x25,4x2,25	50	25.4	2.25	3.75	7217	1.50
ST 50x25,4x2,5	50	25.4	2.50	3.90	9063	1.40
ST 50x25,4x3,0	50	25.4	3.00	4.10	11980	1.10
ST 56x28,5x1,5	56	28.5	1.50	3.45	2622	1.95
ST 56x28,5x2,0	56	28.5	2.00	3.60	4440	1.60
ST 56x28,5x2,5	56	28.5	2.50	4.20	8980	1.70
ST 56x28,5x3,0	56	28.5	3.00	4.30	11380	1.30
ST 60x20,5x2,0	60	20.5	2.00	4.20	5026	2.20
ST 60x20,5x2,5	60	20.5	2.50	4.70	9255	2.20
ST 60x20,5x3,0	60	20.5	3.00	5.20	15465	2.20
ST 60x25,5x2,5	60	25.5	2.50	4.40	8170	1.90
ST 60x25,5x3,0	60	25.5	3.00	4.65	11780	1.65
ST 60x30,5x2,5	60	30.5	2.50	4.50	9432	2.00
ST 60x30,5x2,75	60	30.5	2.75	4.75	12350	2.00
ST 60x30,5x3,0	60	30.5	3.00	4.70	13220	1.70
ST 60x30,5x3,5	60	30.5	3.50	5.00	18153	1.50
ST 63x31x1,8	63	31.0	1.80	4.15	4238	2.35
ST 63x31x2,5	63	31.0	2.50	4.25	7189	1.75
ST 63x31x3,0	63	31.0	3.00	4.70	11772	1.70
ST 63x31x3,5	63	31.0	3.50	4.90	15000	1.40
ST 70x24,5x3,0	70	24.5	3.00	5.30	12000	2.30
ST 70x24,5x3,5	70	24.5	3.50	6.00	20500	2.50
ST 70x25,5x2,0	70	25.5	2.00	4.50	4440	2.50
ST 70x30,5x2,5	70	30.5	2.50	4.90	8030	2.40
ST 70x30,5x3,0	70	30.5	3.00	5.10	11400	2.10
ST 70x35,5x3,0	70	35.5	3.00	5.10	12287	2.10
ST 70x35,5x3,5	70	35.5	3.50	5.30	16180	1.80
ST 70x35,5x4,0	70	35.5	4.00	5.80	23900	1.80
ST 70x40,5x4,0	70	40.5	4.00	5.70	24889	1.70
ST 70x40,5x5,0	70	40.5	5.00	6.40	39410	1.40
ST 71x36x2,0	71	36,0	2.00	4.60	5140	2.60
ST 71x36x2,5	71	36,0	2.50	4.50	6725	2.00
ST 71x36x4,0	71	36,0	4.00	5.60	20535	1.60
ST 80x30,5x2,5	80	30,5	2.50	5.30	7210	2.80
ST 80x31x3,0	80	31,0	3.00	5.50	10350	2.50
ST 80x31x4,0	80	31,0	4.00	6.10	19349	2.10
ST 80x35,5x4,0	80	35,5	4.00	6.20	21280	2.20
ST 80x36x3,0	80	36,0	3.00	5.70	11920	2.70
ST 80x41x2,25	80	41,0	2.25	5.20	6610	2.95
ST 80x41x3,0	80	41,0	3.00	5.30	10520	2.30
ST 80x41x4,0	80	41,0	4.00	6.20	22874	2.20
ST 80x41x5,0	80	41,0	5.00	6.70	33559	1.70
ST 90x46x2,5	90	46,0	2.50	5.70	7680	3.20
ST 90x46x3,5	90	46,0	3.50	6.00	14161	2.50
ST 90x46x5,0	90	46,0	5.00	7.00	31354	2.00
ST 100x41x4,0	100	41,0	4.00	7.20	20251	3.20
ST 100x41x5,0	100	41,0	5.00	7.75	32361	2.75
ST 100x51x2,7	100	51,0	2.70	6.20	8610	3.50
ST 100x51x3,5	100	51,0	3.50	6.30	13070	2.80
ST 100x51x4,0	100	51,0	4.00	7.00	20700	3.00
ST 100x51x5,0	100	51,0	5.00	7.80	36300	2.80
ST 100x51x6,0	100	51,0	6.00	8.20	48000	2.20
ST 100x51x7,0	100	51,0	7.00	9.20	75840	2.20
ST 112x57x3,0	112	57,0	3.00	6.90	10490	3.90
ST 112x57x4,0	112	57,0	4.00	7.20	17800	3.20
ST 112x57x6,0	112	57,0	6.00	8.50	43700	2.50
ST 125x51x4,0	125	51,0	4.00	8.50	19800	4.50
ST 125x51x5,0	125	51,0	5.00	8.90	30700	3.90
ST 125x51x6,0	125	51,0	6.00	9.40	44300	3.40
ST 125x61x5,0	125	61,0	5.00	9.00	34000	4.00
ST 125x61x6,0	125	61,0	6.00	9.60	50700	3.60
ST 125x61x8,0	125	61,0	8.00	10.90	93600	2.90
ST 125x64x3,5	125	64,0	3.50	8.00	15400	4.50
ST 125x64x5,0	125	64,0	5.00	8.50	29900	3.50
ST 125x64x6,0	125	64,0	6.00	9.60	52155	3.60
ST 125x64x7,0	125	64,0	7.00	10.00	67200	3.00

SYMBOL	średnica zewnętrzna D	średnica wewnętrzna d	grubość t	wysokość swobodna H	siła (0,75h) F	wysokość swobodna stożka h
ST 125x64x8,0	125	64,0	8.00	10.60	85900	2.60
ST 125x71x6,0	125	71,0	6.00	9.30	51200	3.30
ST 125x71x8,0	125	71,0	8.00	10.90	103964	2.90
ST 125x71x10,0	125	71,0	10.00	11.80	124100	1.80
ST 140x72x3,8	140	72,0	3.80	8.70	17200	4.90
ST 140x72x5,0	140	72,0	5.00	9.00	27900	4.00
ST 140x72x8,0	140	72,0	8.00	11.20	85300	3.20
ST 150x61x5,0	150	61,0	5.00	10.30	31000	5.30
ST 150x61x6,0	150	61,0	6.00	10.80	45500	4.80
ST 150x61x7,0	150	61,0	7.00	11.80	70400	4.80
ST 150x71x6,0	150	71,0	6.00	10.85	48200	4.85
ST 150x71x8,0	150	71,0	8.00	12.05	91060	4.05
ST 150x81x8,0	150	81,0	8.00	12.00	97319	4.00
ST 150x81x10,0	150	81,0	10.00	13.40	158300	3.40
ST 160x82x4,3	160	82,0	4.30	9.90	21800	5.60
ST 160x82x6,0	160	82,0	6.00	10.50	41000	4.50
ST 160x82x10,0	160	82,0	10.00	13.50	138300	3.50
ST 160x82x11,0	160	82,0	11.00	14.50	183500	3.50
ST 180x92x4,8	180	92,0	4.80	11.00	26400	6.20
ST 180x92x6,0	180	92,0	6.00	11.10	37500	5.10
ST 180x92x10,0	180	92,0	10.00	14.00	127417	4.00
ST 180x92x13,0	180	92,0	13.00	16.50	237883	3.50
ST 200x82x8,0	200	82,0	8.00	14.20	78000	6.20
ST 200x82x10,0	200	82,0	10.00	15.50	129400	5.50
ST 200x82x12,0	200	82,0	12.00	16.60	182737	4.60
ST 200x92x10,0	200	92,0	10.00	15.60	137700	5.60
ST 200x92x12,0	200	92,0	12.00	16.80	199300	4.80
ST 200x92x14,0	200	92,0	14.00	18.10	267200	4.10
ST 200x102x5,5	200	102,0	5.50	12.50	36100	7.50
ST 200x102x8,0	200	102,0	8.00	13.60	76400	5.60
ST 200x102x10,0	200	102,0	10.00	15.60	145357	5.60
ST 200x102x12,0	200	102,0	12.00	16.20	183000	4.20
ST 200x102x14,0	200	102,0	14.00	18.20	289200	4.20
ST 200x112x12,0	200	112,0	12.00	16.20	195800	4.20
ST 200x112x14,0	200	112,0	14.00	17.50	256800	3.50
ST 200x112x16,0	200	112,0	16.00	19.80	415700	3.80
ST 225x112x6,5	225	112,0	6.50	13.60	44600	7.10
ST 225x112x8,0	225	112,0	8.00	14.50	70700	6.50
ST 225x112x12,0	225	112,0	12.00	17.00	171000	5.00
ST 225x112x16,0	225	112,0	16.00	20.50	359600	4.50
ST 250x102x10,0	250	102,0	10.00	18.00	126387	8.00
ST 250x102x12,0	250	102,0	12.00	19.00	183000	7.00
ST 250x127x7,0	250	127,0	7.00	14.80	50500	7.80
ST 250x127x8,0	250	127,0	8.00	16.00	74800	8.00
ST 250x127x10,0	250	127,0	10.00	17.00	119100	7.00
ST 250x127x12,0	250	127,0	12.00	19.30	210800	7.30
ST 250x127x14,0	250	127,0	14.00	19.60	249000	5.60
ST 250x127x16,0	250	127,0	16.00	21.80	383000	5.80