

# Spring forces for washers

**Table 30 DIN 127, DIN 128 type A, DIN 6913, DIN 7980 (Helical spring washers)**

For screw	4	5	6	8	10	12	14	16	18
Pressing force <sup>1)</sup> N	3050	5050	7050	12900	20600	30000	41300	56300	69000
Least remaining spring force N	600	1000	2100	3900	6200	9000	16500	22500	27600

For screw	20	22	24	27	30	33 <sup>2)</sup>	36
Pressing force <sup>1)</sup> N	88000	110000	127000	167000	204000	255000	298000
Least remaining spring force N	35200	55000	63000	83000	102000	127000	149000

<sup>1)</sup> Corresponding to 6.8.

<sup>2)</sup> Is not valid for DIN 127, DIN 128 type A.

**Table 31 DIN 137 type B (Spring washers, wavy)**

For screw	4	5	6	7	8	10	12	14	16
Pressing force <sup>1)</sup> N	2700	4000	6150	9000	11300	18000	26200	36100	49200
Least remaining spring force N	270	400	615	1350	1700	2700	3900	9000	12300

For screw	18	20	22	24	27	30	33	36
Pressing force <sup>1)</sup> N	60000	78000	97000	111000	146000	178000	223000	261000
Least remaining spring force N	15000	19500	24200	27800	36500	44500	55700	65200

<sup>1)</sup> Corresponding to 5.8.

**Table 32 DIN 6796 (Conical spring washers)**

For screw	4	5	6	7	8	10	12	14	16
Pressing force <sup>1)</sup> N	4050	6700	9400	13700	17200	27500	40000	55000	75000
Least remaining spring force N	1400	2300	4200	6200	7700	12400	18000	25000	34000

For screw	18	20	22	24	27	30
Pressing force <sup>1)</sup> N	95000	122000	152000	175000	230000	280000
Least remaining spring force N	57000	73000	91000	122000	161000	196000

<sup>1)</sup> Corresponding to 8.8.