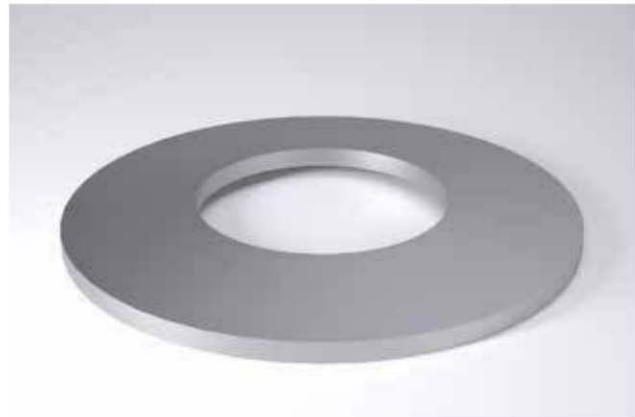
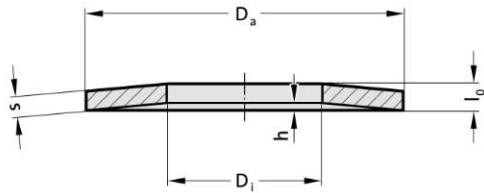




Disc spring DIN 2093

242.01.

**Material:**

50 CrV 4 Vanadium Spring Steel

Note:

FIBRO Disc Springs **242.01.** are made from 50 CrV 4 premier grade spring steel. This "classic" spring material guarantees optimal performance levels within the temperature range from $-15\text{ }^{\circ}\text{C}$ to $+150\text{ }^{\circ}\text{C}$. "Hot pressing" allows working temperatures from $-25\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$.

 D_a = outside diameter of spring D_i = diameter of hole s = crosssectional thickness of spring h = concavity of free spring l_0 = total height of free spring f = deflection of spring, caused by load F F = load F [N], causing deflection f **242.01. Disc spring DIN 2093**

| Order No | in accord. with DIN 2093 series | D_a h12 | D_i H12 | s | h | l_0 | $f_1=$ | | $f_2=$ | | $f_3=$ | | $f_4=$ | | $f_5=$ | |
|--------------------|--|--------------|--------------|------|------|-------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| | | | | | | | 0,2 h | F_1 [N] | 0,4 h | F_2 [N] | 0,6 h | F_3 [N] | 0,7 h | F_4 [N] | 0,8 h | F_5 [N] |
| 242.01.080.032.040 | | 8 | 3.2 | 0.4 | 0.2 | 0.6 | 0.04 | 58 | 0.08 | 110 | 0.12 | 160 | 0.14 | 180 | 0.16 | 200 |
| 242.01.100.052.040 | B | 10 | 5.2 | 0.4 | 0.3 | 0.7 | 0.06 | 73 | 0.12 | 134 | 0.18 | 180 | 0.21 | 200 | 0.24 | 220 |
| 242.01.125.062.050 | B | 12.5 | 6.2 | 0.5 | 0.35 | 0.85 | 0.07 | 100 | 0.14 | 180 | 0.21 | 250 | 0.24 | 280 | 0.28 | 310 |
| 242.01.140.072.080 | A | 14 | 7.2 | 0.8 | 0.3 | 1.1 | 0.06 | 230 | 0.12 | 450 | 0.18 | 660 | 0.21 | 770 | 0.24 | 870 |
| 242.01.150.052.070 | | 15 | 5.2 | 0.7 | 0.4 | 1.1 | 0.08 | 180 | 0.16 | 340 | 0.24 | 470 | 0.28 | 540 | 0.32 | 610 |
| 242.01.160.082.060 | B | 16 | 8.2 | 0.6 | 0.45 | 1.05 | 0.09 | 145 | 0.18 | 260 | 0.27 | 360 | 0.31 | 400 | 0.36 | 440 |
| 242.01.160.082.090 | A | 16 | 8.2 | 0.9 | 0.35 | 1.25 | 0.07 | 300 | 0.14 | 580 | 0.21 | 850 | 0.24 | 970 | 0.28 | 1100 |
| 242.01.180.092.100 | A | 18 | 9.2 | 1 | 0.4 | 1.4 | 0.08 | 370 | 0.16 | 720 | 0.24 | 1050 | 0.28 | 1200 | 0.32 | 1350 |
| 242.01.200.102.080 | B | 20 | 10.2 | 0.8 | 0.55 | 1.35 | 0.11 | 250 | 0.22 | 470 | 0.33 | 650 | 0.38 | 730 | 0.44 | 800 |
| 242.01.200.102.090 | | 20 | 10.2 | 0.9 | 0.55 | 1.45 | 0.11 | 340 | 0.22 | 640 | 0.33 | 900 | 0.38 | 1000 | 0.44 | 1150 |
| 242.01.200.102.110 | A | 20 | 10.2 | 1.1 | 0.45 | 1.55 | 0.09 | 450 | 0.18 | 870 | 0.27 | 1350 | 0.31 | 1450 | 0.36 | 1650 |
| 242.01.230.122.125 | | 23 | 12.2 | 1.25 | 0.6 | 1.85 | 0.12 | 710 | 0.24 | 1360 | 0.36 | 1960 | 0.42 | 2240 | 0.48 | 2520 |
| 242.01.250.122.150 | A | 25 | 12.2 | 1.5 | 0.55 | 2.05 | 0.11 | 860 | 0.22 | 1650 | 0.33 | 2450 | 0.38 | 2800 | 0.44 | 3100 |
| 242.01.250.122.100 | | 25 | 12.2 | 1 | 0.6 | 1.6 | 0.12 | 320 | 0.24 | 600 | 0.36 | 840 | 0.42 | 950 | 0.48 | 1050 |
| 242.01.280.142.100 | B | 28 | 14.2 | 1 | 0.8 | 1.8 | 0.16 | 400 | 0.32 | 720 | 0.48 | 970 | 0.56 | 1100 | 0.64 | 1200 |
| 242.01.280.142.150 | A | 28 | 14.2 | 1.5 | 0.65 | 2.15 | 0.13 | 850 | 0.26 | 1650 | 0.39 | 2400 | 0.45 | 2700 | 0.52 | 3100 |
| 242.01.315.163.125 | B | 31.5 | 16.3 | 1.25 | 0.9 | 2.15 | 0.18 | 660 | 0.36 | 1200 | 0.54 | 1650 | 0.63 | 1850 | 0.72 | 2000 |
| 242.01.315.163.175 | A | 31.5 | 16.3 | 1.75 | 0.7 | 2.45 | 0.14 | 1150 | 0.28 | 2200 | 0.42 | 3200 | 0.49 | 3700 | 0.56 | 4200 |
| 242.01.355.183.200 | A | 35.5 | 18.3 | 2 | 0.8 | 2.8 | 0.16 | 1550 | 0.32 | 3000 | 0.48 | 4300 | 0.56 | 5000 | 0.64 | 5600 |
| 242.01.400.142.150 | | 40 | 14.2 | 1.5 | 1.25 | 2.75 | 0.25 | 950 | 0.5 | 1700 | 0.75 | 2200 | 0.87 | 2500 | 1 | 2700 |
| 242.01.400.204.225 | A | 40 | 20.4 | 2.25 | 0.9 | 3.15 | 0.18 | 1900 | 0.36 | 3700 | 0.54 | 5400 | 0.63 | 5200 | 0.72 | 7000 |
| 242.01.450.224.250 | A | 45 | 22.4 | 2.5 | 1 | 3.5 | 0.2 | 2300 | 0.4 | 4500 | 0.6 | 6400 | 0.7 | 7400 | 0.8 | 8500 |
| 242.01.500.183.150 | | 50 | 18.3 | 1.5 | 1.8 | 3.3 | 0.36 | 1200 | 0.72 | 2000 | 1.08 | 2400 | 1.26 | 2600 | 1.44 | 2700 |
| 242.01.500.254.250 | | 50 | 25.4 | 2.5 | 1.4 | 3.9 | 0.28 | 2850 | 0.56 | 5350 | 0.84 | 7600 | 0.98 | 8650 | 1.12 | 9650 |
| 242.01.500.254.300 | A | 50 | 25.4 | 3 | 1.1 | 4.1 | 0.22 | 3500 | 0.44 | 6800 | 0.66 | 10000 | 0.77 | 11500 | 0.88 | 13000 |
| 242.01.560.285.200 | B | 56 | 28.5 | 2 | 1.6 | 3.6 | 0.32 | 1600 | 0.64 | 2900 | 0.96 | 3900 | 1.12 | 4300 | 1.28 | 4700 |
| 242.01.600.204.200 | | 60 | 20.4 | 2 | 2.1 | 4.1 | 0.42 | 2000 | 0.84 | 3400 | 1.26 | 4300 | 1.47 | 4700 | 1.68 | 5000 |