

HP Series DIE Springs – GOLD (High Pressure)

| Hole Dia. (O.D.) | Part Number | Rod Dia. (I.D.) | Free Length | | Load at 30% Deflection | | Load at 1/10" Deflection | | |
|-------------------------------|-----------------------------------|--------------------------------|-------------|-------|------------------------|--------|--------------------------|-------|------|
| | | | in. | mm. | lb. | g. | lb. | g. | |
| 3/8" 9.5mm | HP-02 | 3/16" 4.8 mm | 1 | 25.4 | 37.2 | 16.87 | 12.4 | 5.62 | |
| | HP-02A | | 1 ¼ | 31.78 | 36.8 | 166.67 | 9.8 | 4.45 | |
| | HP-03 | | 1 ½ | 38.1 | 43.2 | 19.6 | 9.6 | 4.35 | |
| | HP-03A | | 1 ¾ | 44.45 | 44.1 | 20. | 8.4 | 3.81 | |
| | HP-04 | | 2 | 50.8 | 43.2 | 19.6 | 7.2 | 3.27 | |
| | HP-05 | | 2 ½ | 63.5 | 45. | 20.41 | 6. | 2.72 | |
| | Wire .054 x .072 | | HP-06 | 3 | 76.2 | 37.8 | 17.15 | 4.2 | 1.91 |
| | HP-024 | 12 | 304.8 | 43.2 | 19.6 | 1.2 | .54 | | |
| ½" 12.7 mm | HP-12 | 9/32" 7.1 mm | 1 | 25.4 | 70.8 | 32.11 | 23.06 | 10.7 | |
| | HP-12A | | 1 ¼ | 31.78 | 69.8 | 31.64 | 18.6 | 8.44 | |
| | HP-13 | | 1 ½ | 38.1 | 73.8 | 33.48 | 16.4 | 7.44 | |
| | HP-13A | | 1 ¾ | 44.45 | 72.5 | 32.86 | 13.8 | 6.26 | |
| | HP-14 | | 2 | 50.8 | 66. | 29.94 | 11. | 4.99 | |
| | HP-15 | | 2 ½ | 63.5 | 63. | 28.58 | 8.4 | 3.81 | |
| | Wire .072 x .095 | | HP-16 | 3 | 76.2 | 66.6 | 30.21 | 7.4 | 3.36 |
| | | | HP-17 | 3 ½ | 88.9 | 67.2 | 30.48 | 6.4 | 2.9 |
| | | | MP-124 | 12 | 304.8 | 57.6 | 26.13 | 1.6 | .73 |
| 5/8" 15.9 mm | HP-22 | 11/32" 8.7 mm | 1 | 25.4 | 127.2 | 57.7 | 42.4 | 19.23 | |
| | HP-22A | | 1 ¼ | 31.78 | 111. | 50.35 | 29.6 | 13.43 | |
| | HP-23 | | 1 ½ | 38.1 | 122.4 | 55.52 | 27.2 | 12.34 | |
| | HP-23A | | 1 ¾ | 44.5 | 126. | 57.15 | 24. | 10.89 | |
| | HP-24 | | 2 | 50.8 | 124.8 | 56.61 | 2.8 | 9.43 | |
| | HP-25 | | 2 ½ | 63.5 | 127.5 | 57.83 | 17. | 7.71 | |
| | HP-26 | | 3 | 76.2 | 129.6 | 58.79 | 14.4 | 6.53 | |
| | Wire .093 x .125 | | HP-27 | 3 ½ | 88.9 | 128.1 | 58.11 | 12.2 | 5.53 |
| | | | HP-28 | 4 | 101.6 | 129.6 | 58.79 | 10.8 | 4.9 |
| | | | HP-224 | 12 | 304.8 | 144. | 65.32 | 4. | 1.81 |
| ¾" 19.1 mm | HP-32 | 3/8" 9.5 mm | 1 | 25.4 | 324. | 146.97 | 108. | 48.99 | |
| | HP-32A | | 1 ¼ | 31.78 | 330. | 149.69 | 88. | 39.92 | |
| | HP-33 | | 1 ½ | 38.1 | 295.2 | 133.9 | 65.6 | 29.76 | |
| | HP-33A | | 1 ¾ | 44.5 | 315. | 142.88 | 60. | 27.22 | |
| | HP-34 | | 2 | 50.8 | 297.6 | 134.99 | 49.6 | 22.5 | |
| | HP-35 | | 2 ½ | 63.5 | 282. | 127.92 | 37.6 | 17.06 | |

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| | | | in. | mm. | lb. | g. | lb. | g. |
| Wire .125 x .165 | HP-36 | | 3 | 76.2 | 280.8 | 127.37 | 31.2 | 14.15 |
| | HP-37 | | 3 ½ | 88.9 | 277.2 | 125.74 | 26.4 | 11.98 |
| | HP-38 | | 4 | 101.6 | 278.2 | 126.28 | 23.2 | 10.52 |
| | HP-39 | | 4 ½ | 114.3 | 270. | 122.47 | 20. | 9.07 |
| | HP-310 | | 5 | 127. | 264. | 119.75 | 17.6 | 7.98 |
| | HP-311 | | 5 ½ | 139.7 | 264. | 119.75 | 16. | 7.26 |
| | HP-312 | | 6 | 152.4 | 259.2 | 117.57 | 14.4 | 6.53 |
| | HP-324 | | 12 | 304.8 | 259.2 | 117.57 | 7.2 | 3.27 |
| Wire .158 x .221 | HP-42 | ½" 12.7 mm | 1 | 25.4 | 624. | 283.05 | 208. | 94.35 |
| | HP-42A | | 1 ¼ | 31.78 | 642. | 291.21 | 171.2 | 77.66 |
| | HP-43 | | 1 ½ | 38.1 | 532.8 | 241.68 | 118.4 | 53.71 |
| | HP-43A | | 1 ¾ | 44.5 | 546. | 247.67 | 104. | 47.17 |
| | HP-44 | | 2 | 50.8 | 504. | 228.61 | 84. | 38.1 |
| | HP-45 | | 2 ½ | 63.5 | 510. | 231.34 | 68. | 30.84 |
| | HP-46 | | 3 | 76.2 | 489.6 | 222.08 | 54.4 | 24.68 |
| | HP-47 | | 3 ½ | 88.9 | 478.8 | 217.18 | 45.6 | 20.68 |
| | HP-48 | | 4 | 101.6 | 480. | 217.73 | 40. | 18.14 |
| | HP-49 | | 4 ½ | 114.3 | 475.2 | 215.55 | 35.2 | 15.97 |
| | HP-410 | | 5 | 127. | 468. | 212.28 | 31.2 | 14.15 |
| | HP-411 | | 5 ½ | 139.7 | 475.2 | 215.55 | 28.8 | 13.06 |
| | HP-412 | | 6 | 152.4 | 460.8 | 209.02 | 25.6 | 11.61 |
| | HP-414 | | 7 | 177.8 | 470.4 | 213.37 | 22.4 | 10.16 |
| | HP-416 | | 8 | 203.2 | 460.8 | 209.02 | 19.2 | 8.71 |
| | HP-424 | | 12 | 304.8 | 432. | 195.96 | 12. | 5.44 |
| Wire .200 x .286 | HP-53 | 5/8" 15.9 mm | 1 ½ | 38.1 | 954. | 432.73 | 212. | 96.16 |
| | HP-53A | | 1 ¾ | 44.5 | 953.40 | 432.46 | 181.6 | 82.37 |
| | HP-54 | | 2 | 50.8 | 897.6 | 407.15 | 149.6 | 67.86 |
| | HP-55 | | 2 ½ | 63.5 | 882. | 400.08 | 117.6 | 53.34 |
| | HP-56 | | 3 | 76.2 | 856.80 | 388.64 | 95.2 | 43.18 |
| | HP-57 | | 3 ½ | 88.9 | 789.6 | 358.16 | 75.2 | 34.11 |
| | HP-58 | | 4 | 101.6 | 796.8 | 361.43 | 66.4 | 30.12 |
| | HP-59 | | 4 ½ | 114.3 | 788.40 | 357.62 | 58.4 | 26.49 |
| | HP-510 | | 5 | 127. | 744. | 337.48 | 49.6 | 22.50 |
| | HP-511 | | 5 ½ | 139.7 | 778.80 | 353.26 | 47.2 | 21.41 |
| | HP-512 | | 6 | 152.4 | 763.20 | 346.19 | 42.4 | 19.23 |
| | HP-514 | | 7 | 177.8 | 772.80 | 350.54 | 36.8 | 16.69 |
| | HP-516 | | 8 | 203.2 | 787.20 | 357.07 | 32.8 | 14.88 |
| | HP-520 | | 10 | 254. | 768. | 348.36 | 25.6 | 11.61 |
| HP-524 | 12 | 304.8 | 748.8 | 339.66 | 20.8 | 9.43 | | |
| Wire 38.1 mm | HP-64 | ¾" 19.1 mm | 2 | 50.8 | 1142.4 | 518.19 | 190.4 | 86.37 |
| | HP-65 | | 2 ½ | 63.5 | 1116. | 506.22 | 148.8 | 67.5 |

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| | | | in. | mm. | lb. | g. | lb. | g. |
| Wire .225 X .33 | HP-66 | | 3 | 76.2 | 1101.6 | 499.69 | 122.4 | 55.52 |
| | HP-67 | | 3 ½ | 88.9 | 1117.2 | 506.76 | 106.4 | 48.26 |
| | HP-68 | | 4 | 101.6 | 1094.4 | 496.42 | 91.2 | 41.37 |
| | HP-69 | | 4 ½ | 114.3 | 1058.4 | 490.09 | 78.4 | 35.56 |
| | HP-610 | | 5 | 127. | 1068. | 484.44 | 71.2 | 32.3 |
| | HP-611 | | 5 ½ | 139.7 | 1056. | 479. | 64. | 29.03 |
| | HP-612 | | 6 | 152.4 | 1051.2 | 476.82 | 58.4 | 26.49 |
| | HP-614 | | 7 | 177.8 | 1041.6 | 427.47 | 49.6 | 22.5 |
| | HP-616 | | 8 | 203.2 | 1036.8 | 470.29 | 43.2 | 19.6 |
| | HP-620 | | 10 | 254. | 1032. | 468.12 | 34.4 | 15.6 |
| | HP-624 | | 12 | 304.8 | 1036.8 | 470.29 | 28.8 | 13.06 |
| 2" 5.8 mm Wire .280 x .470 | HP-85 | 1" 25. mm | 2 ½ | 63.5 | 1650. | 748.44 | 220. | 99.79 |
| | HP-86 | | 3 | 76.2 | 1670.4 | 757.69 | 185.6 | 84.19 |
| | HP-87 | | 3 ½ | 88.9 | 1680. | 762.05 | 160. | 72.58 |
| | HP-88 | | 4 | 101.6 | 1603.2 | 727.21 | 133.6 | 60.6 |
| | HP-89 | | 4 ½ | 114.3 | 1587.6 | 720.14 | 117.6 | 53.34 |
| | HP-810 | | 5 | 127. | 1560. | 707.62 | 104. | 47.17 |
| | HP-811 | | 5 ½ | 139.7 | 1531.2 | 694.55 | 92.8 | 42.09 |
| | HP-812 | | 6 | 152.4 | 1497.6 | 679.31 | 83.2 | 37.74 |
| | HP-814 | | 7 | 177.8 | 1545.6 | 701.08 | 73.6 | 33.38 |
| | HP-816 | | 8 | 203.2 | 1536. | 696.73 | 64. | 29.03 |
| | HP-820 | | 10 | 254. | 1464. | 664.07 | 48.8 | 22.14 |
| | HP-824 | | 12 | 304.8 | 1440. | 653.18 | 40. | 18.14 |