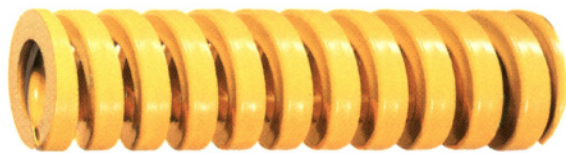




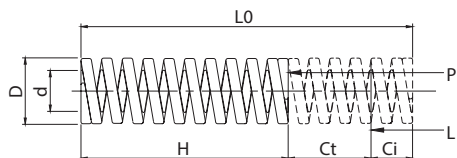
Equivalente al verde de PCS (Raymond®)

Carga extra pesada



| D Ø del agujero | d Ø del perno | Long. libre (pul)<br>LO | Long. libre (mm)<br>LO | Número de catálogo | Constante elástica<br>lbs necesarias para comprimir 1/10 | Tabla de cargas                       |             |                         |             |
|-----------------|---------------|-------------------------|------------------------|--------------------|----------------------------------------------------------|---------------------------------------|-------------|-------------------------|-------------|
|                 |               |                         |                        |                    |                                                          | Carrera máxima de trabajo (25% de L0) |             | Carrera hasta el sólido |             |
|                 |               |                         |                        |                    |                                                          | Carga libras                          | Carrera plg | Carga libras            | Carrera plg |
| 3/8 - 10 mm     | 3/16 - 5 mm   | 1                       | 25                     | SSY.006.004        | 18.7                                                     | 46.8                                  | .25         | 62                      | .33         |
|                 |               | 1¼                      | 32                     | SSY.006.005        | 14.3                                                     | 45                                    | .31         | 60                      | .41         |
|                 |               | 1½                      | 38                     | SSY.006.006        | 12.1                                                     | 45                                    | .38         | 60                      | .52         |
|                 |               | 1¾                      | 44                     | SSY.006.007        | 10.1                                                     | 44.2                                  | .44         | 60                      | .6          |
|                 |               | 2                       | 51                     | SSY.006.008        | 8.8                                                      | 43.8                                  | .5          | 60                      | .68         |
|                 |               | 2½                      | 64                     | SSY.006.010        | 7                                                        | 43.5                                  | .63         | 60                      | .86         |
|                 |               | 3                       | 76                     | SSY.006.012        | 5.8                                                      | 43.3                                  | .75         | 60                      | 1.05        |
|                 |               | 12                      | 305                    | SSY.006.048        | 1.4                                                      | 42                                    | 3           | 59                      | 4.2         |
| 1/2 - 12.5 mm   | 9/32 - 6.3 mm | 1                       | 25                     | SSY.008.004        | 33.5                                                     | 84                                    | .25         | 119                     | .35         |
|                 |               | 1¼                      | 32                     | SSY.008.005        | 25.3                                                     | 79                                    | .31         | 110                     | .43         |
|                 |               | 1½                      | 38                     | SSY.008.006        | 20.7                                                     | 78                                    | .38         | 110                     | .52         |
|                 |               | 1¾                      | 44                     | SSY.008.007        | 17.5                                                     | 77                                    | .44         | 110                     | .61         |
|                 |               | 2                       | 51                     | SSY.008.008        | 15.5                                                     | 77                                    | .5          | 110                     | .72         |
|                 |               | 2½                      | 64                     | SSY.008.010        | 12.4                                                     | 77                                    | .63         | 110                     | .9          |
|                 |               | 3                       | 76                     | SSY.008.012        | 10.1                                                     | 76                                    | .75         | 110                     | 1.12        |
|                 |               | 3½                      | 89                     | SSY.008.014        | 8.6                                                      | 75                                    | .88         | 110                     | 1.31        |
|                 |               | 12                      | 305                    | SSY.008.048        | 2.4                                                      | 72                                    | 3           | 108                     | 4.47        |
| 5/8 - 16 mm     | 11/32 - 8 mm  | 1                       | 25                     | SSY.010.004        | 72.1                                                     | 180                                   | .25         | 256                     | .35         |
|                 |               | 1¼                      | 32                     | SSY.010.005        | 53.3                                                     | 167                                   | .31         | 230                     | .43         |
|                 |               | 1½                      | 38                     | SSY.010.006        | 43                                                       | 161                                   | .38         | 221                     | .51         |
|                 |               | 1¾                      | 44                     | SSY.010.007        | 36                                                       | 158                                   | .44         | 220                     | .6          |
|                 |               | 2                       | 51                     | SSY.010.008        | 31.4                                                     | 157                                   | .5          | 220                     | .71         |
|                 |               | 2½                      | 64                     | SSY.010.010        | 24.5                                                     | 153                                   | .63         | 218                     | .88         |
|                 |               | 3                       | 76                     | SSY.010.012        | 20.1                                                     | 151                                   | .75         | 216                     | 1.06        |
|                 |               | 3½                      | 89                     | SSY.010.014        | 17.1                                                     | 150                                   | .88         | 215                     | 1.26        |
|                 |               | 4                       | 102                    | SSY.010.016        | 14.9                                                     | 149                                   | 1           | 215                     | 1.45        |
|                 |               | 12                      | 305                    | SSY.010.048        | 4.8                                                      | 145                                   | 3           | 214                     | 4.43        |
| 3/4 - 20 mm     | 3/8 - 10 mm   | 1                       | 25                     | SSY.012.004        | 184                                                      | 460                                   | .25         | 551                     | .3          |
|                 |               | 1¼                      | 32                     | SSY.012.005        | 138                                                      | 431                                   | .31         | 535                     | .39         |
|                 |               | 1½                      | 38                     | SSY.012.006        | 112                                                      | 419                                   | .38         | 535                     | .48         |
|                 |               | 1¾                      | 44                     | SSY.012.007        | 92.8                                                     | 406                                   | .44         | 529                     | .57         |
|                 |               | 2                       | 51                     | SSY.012.008        | 80.1                                                     | 401                                   | .5          | 527                     | .66         |
|                 |               | 2½                      | 64                     | SSY.012.010        | 62.5                                                     | 391                                   | .63         | 525                     | .84         |
|                 |               | 3                       | 76                     | SSY.012.012        | 51.5                                                     | 386                                   | .75         | 522                     | 1.02        |
|                 |               | 3½                      | 89                     | SSY.012.014        | 43.4                                                     | 380                                   | .88         | 516                     | 1.19        |
|                 |               | 4                       | 102                    | SSY.012.016        | 37.5                                                     | 375                                   | 1           | 508                     | 1.36        |
|                 |               | 4½                      | 115                    | SSY.012.018        | 33                                                       | 371                                   | 1.13        | 508                     | 1.52        |
|                 |               | 5                       | 127                    | SSY.012.020        | 29.7                                                     | 371                                   | 1.25        | 505                     | 1.71        |
|                 |               | 5½                      | 140                    | SSY.012.022        | 27                                                       | 371                                   | 1.38        | 505                     | 1.87        |
|                 |               | 6                       | 152                    | SSY.012.024        | 24.4                                                     | 366                                   | 1.5         | 505                     | 2.04        |
|                 |               | 12                      | 305                    | SSY.012.048        | 12.1                                                     | 363                                   | 3           | 505                     | 4.16        |

| D Ø del agujero | d Ø del perno | Long. libre (pul)<br>LO | Long. libre (mm)<br>LO | Número de catálogo | Constante elástica<br>lbs necesarias para comprimir 1/10 | Tabla de cargas                       |             |                         |             |
|-----------------|---------------|-------------------------|------------------------|--------------------|----------------------------------------------------------|---------------------------------------|-------------|-------------------------|-------------|
|                 |               |                         |                        |                    |                                                          | Carrera máxima de trabajo (25% de L0) |             | Carrera hasta el sólido |             |
|                 |               |                         |                        |                    |                                                          | Carga libras                          | Carrera plg | Carga libras            | Carrera plg |
| 1 - 25 mm       | 1/2 - 12.5 mm | 1¼                      | 32                     | SSY.016.005        | 202                                                      | 637                                   | .31         | 799                     | .4          |
|                 |               | 1½                      | 38                     | SSY.016.006        | 160                                                      | 600                                   | .38         | 768                     | .48         |
|                 |               | 1¾                      | 44                     | SSY.016.007        | 132                                                      | 589                                   | .44         | 749                     | .57         |
|                 |               | 2                       | 51                     | SSY.016.008        | 113                                                      | 564                                   | .5          | 733                     | .65         |
|                 |               | 2½                      | 64                     | SSY.016.010        | 87.9                                                     | 549                                   | .63         | 735                     | .84         |
|                 |               | 3                       | 76                     | SSY.016.012        | 71.4                                                     | 536                                   | .75         | 720                     | 1.01        |
|                 |               | 3½                      | 89                     | SSY.016.014        | 60.2                                                     | 526                                   | .88         | 720                     | 1.18        |
|                 |               | 4                       | 102                    | SSY.016.016        | 52                                                       | 520                                   | 1           | 715                     | 1.35        |
|                 |               | 4½                      | 115                    | SSY.016.018        | 46.2                                                     | 520                                   | 1.13        | 715                     | 1.55        |
|                 |               | 5                       | 127                    | SSY.016.020        | 41.2                                                     | 515                                   | 1.25        | 715                     | 1.72        |
|                 |               | 5½                      | 140                    | SSY.016.022        | 38                                                       | 515                                   | 1.38        | 715                     | 1.91        |
|                 |               | 6                       | 152                    | SSY.016.024        | 34.4                                                     | 515                                   | 1.5         | 715                     | 2.11        |
|                 |               | 7                       | 178                    | SSY.016.028        | 29.3                                                     | 512                                   | 1.75        | 715                     | 2.48        |
|                 |               | 8                       | 203                    | SSY.016.032        | 25.5                                                     | 510                                   | 2           | 715                     | 2.48        |
|                 |               | 12                      | 305                    | SSY.016.048        | 16.9                                                     | 507                                   | 3           | 715                     | 4.31        |
|                 |               | 1½                      | 38                     | SSY.020.006        | 279                                                      | 1047                                  | .38         | 1231                    | .44         |
|                 |               | 1¾                      | 44                     | SSY.020.007        | 231                                                      | 1011                                  | .44         | 1225                    | .53         |
|                 |               | 2                       | 51                     | SSY.020.008        | 197                                                      | 986                                   | .5          | 1222                    | .62         |
|                 |               | 2½                      | 64                     | SSY.020.010        | 153                                                      | 953                                   | .63         | 1220                    | .8          |
|                 |               | 3                       | 76                     | SSY.020.012        | 123                                                      | 925                                   | .75         | 1200                    | .97         |
|                 |               | 3½                      | 89                     | SSY.020.014        | 104                                                      | 911                                   | .88         | 1195                    | 1.15        |
|                 |               | 4                       | 102                    | SSY.020.016        | 89.1                                                     | 891                                   | 1           | 1160                    | 1.3         |
|                 |               | 4½                      | 115                    | SSY.020.018        | 77.8                                                     | 875                                   | 1.13        | 1160                    | 1.46        |
|                 |               | 5                       | 127                    | SSY.020.020        | 69.8                                                     | 873                                   | 1.25        | 1160                    | 1.64        |
|                 |               | 5½                      | 140                    | SSY.020.022        | 64                                                       | 870                                   | 1.38        | 1160                    | 1.85        |
|                 |               | 6                       | 152                    | SSY.020.024        | 57.9                                                     | 869                                   | 1.5         | 1160                    | 2           |
|                 |               | 7                       | 178                    | SSY.020.028        | 49                                                       | 858                                   | 1.75        | 1160                    | 2.33        |
|                 |               | 8                       | 203                    | SSY.020.032        | 42.8                                                     | 856                                   | 2           | 1160                    | 2.69        |
|                 |               | 10                      | 254                    | SSY.020.040        | 34.1                                                     | 853                                   | 2.5         | 1160                    | 3.42        |
|                 |               | 12                      | 305                    | SSY.020.048        | 28.3                                                     | 849                                   | 3           | 1160                    | 4.14        |
|                 |               | 2                       | 51                     | SSY.024.008        | 320                                                      | 1598                                  | .5          | 1964                    | .62         |
|                 |               | 2½                      | 64                     | SSY.024.010        | 241                                                      | 1504                                  | .63         | 1885                    | .78         |
|                 |               | 3                       | 76                     | SSY.024.012        | 193                                                      | 1448                                  | .75         | 1834                    | .95         |
|                 |               | 3½                      | 89                     | SSY.024.014        | 161                                                      | 1411                                  | .88         | 1802                    | 1.12        |
|                 |               | 4                       | 102                    | SSY.024.016        | 140                                                      | 1395                                  | 1           | 1813                    | 1.3         |
|                 |               | 4½                      | 115                    | SSY.024.018        | 122                                                      | 1373                                  | 1.13        | 1796                    | 1.47        |
|                 |               | 5                       | 127                    | SSY.024.020        | 109                                                      | 1356                                  | 1.25        | 1779                    | 1.64        |
|                 |               | 5½                      | 140                    | SSY.024.022        | 98                                                       | 1348                                  | 1.38        | 1774                    | 1.81        |
|                 |               | 6                       | 152                    | SSY.024.024        | 88.8                                                     | 1332                                  | 1.5         | 1754                    | 1.97        |
|                 |               | 7                       | 178                    | SSY.024.028        | 75.1                                                     | 1314                                  | 1.75        | 1733                    | 2.31        |
|                 |               | 8                       | 203                    | SSY.024.032        | 65.1                                                     | 1302                                  | 2           | 1730                    | 2.65        |
|                 |               | 10                      | 254                    | SSY.024.040        | 71.7                                                     | 1293                                  | 2.5         | 1730                    | 3.35        |
|                 |               | 12                      | 305                    | SSY.024.048        | 42.9                                                     | 1287                                  | 3           | 1730                    | 4.06        |
|                 |               | 2½                      | 64                     | SSY.032.010        | 413                                                      | 2583                                  | .63         | 3140                    | .76         |
|                 |               | 3                       | 76                     | SSY.032.012        | 327                                                      | 2453                                  | .75         | 3013                    | .92         |
|                 |               | 3½                      | 89                     | SSY.032.014        | 271                                                      | 2369                                  | .88         | 2929                    | 1.08        |
|                 |               | 4                       | 102                    | SSY.032.016        | 231                                                      | 2309                                  | 1           | 2872                    | 1.24        |
|                 |               | 4½                      | 115                    | SSY.032.018        | 201                                                      | 2265                                  | 1.13        | 2828                    | 1.41        |
|                 |               | 5                       | 127                    | SSY.032.020        | 178                                                      | 2230                                  | 1.25        | 2794                    | 1.57        |
|                 |               | 5½                      | 140                    | SSY.032.022        | 161                                                      | 2214                                  | 1.38        | 2790                    | 1.75        |
|                 |               | 6                       | 152                    | SSY.032.024        | 145                                                      | 2181                                  | 1.5         | 2745                    | 1.89        |
|                 |               | 7                       | 178                    | SSY.032.028        | 123                                                      | 2147                                  | 1.75        | 2712                    | 2.21        |
|                 |               | 8                       | 203                    | SSY.032.032        | 106                                                      | 2122                                  | 2           | 2686                    | 2.53        |
|                 |               | 10                      | 254                    | SSY.032.040        | 83.5                                                     | 2088                                  | 2.5         | 2653                    | 3.18        |
|                 |               | 12                      | 305                    | SSY.032.048        | 68.9                                                     | 2067                                  | 3           | 2633                    | 3.82        |



$$Ci \geq 20\% Ct$$

$$Ci + Ct < \text{Carrera máx. de trabajo}$$

## Recomendaciones

- D = Diámetro de agujero (pul)    Ci = Pre carga o compresión inicial (pul)  
LO = Longitud libre (pul)    L = Libras de pre carga (lbs)  
d = Diámetro de barra (pul)    Ct = Carrera de trabajo (lbs)  
H = Longitud comprimido (pul)    P = Carga necesaria para comprimir Ci+ Ct (lbs)

Guiar resortes con perno si el largo es mas que 4 veces el diametro