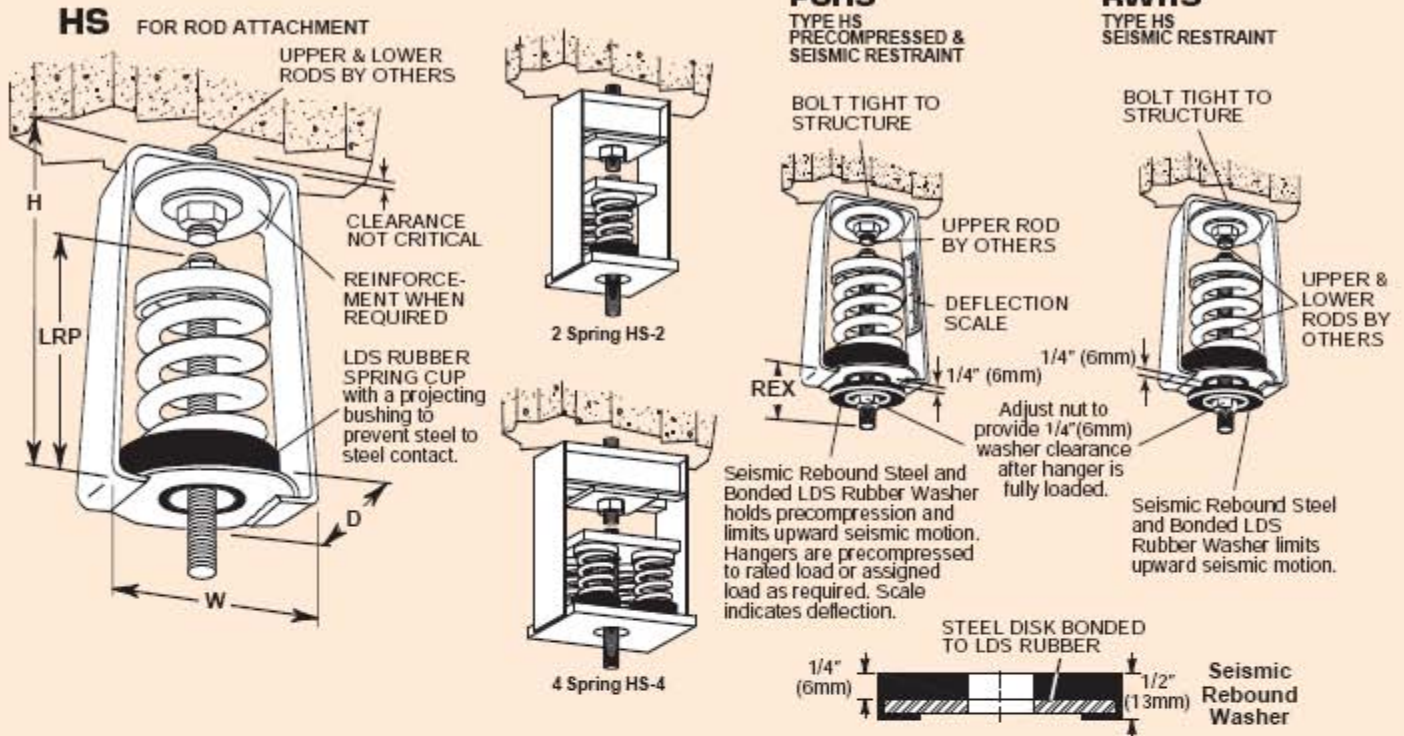


# HS, PCHS & RWHS

## 1"(25mm) Deflection X, A & B SPRING HANGERS



### Ratings & Dimensions for 1"(25mm) Deflection Spring Hangers (inches mm)

| Type       | Size   | Rated Capacity (lbs)(kg) | Rated Defl. <sup>1</sup> (in)(mm) | Spring Constant (lbs/in)(kg/cm) | Spring Color/Stripe | Spring Only Spring Free OD Height | D           | H            | W            | Lower Rod Penetration LRP | Max. Rod Dia. MRD | Rod Extension REX | Vertical 'G' Ratings Tension | Vertical 'G' Ratings Compression |
|------------|--------|--------------------------|-----------------------------------|---------------------------------|---------------------|-----------------------------------|-------------|--------------|--------------|---------------------------|-------------------|-------------------|------------------------------|----------------------------------|
| 1"<br>25mm | X-12   | 12 5                     | 1.25 32                           | 10 0.18                         | Orange              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | X-23   | 23 10                    | 1.30 33                           | 18 0.30                         | Brown               |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | X-33   | 33 15                    | 1.10 28                           | 30 0.54                         | Copper              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | X-54   | 54 24                    | 1.20 30                           | 45 0.80                         | White               |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | X-76   | 76 34                    | 1.02 25                           | 73 1.36                         | Black               | 1 1/2 2 1/2                       | 2 1/2       | 4 1/4        | 2 7/8        | 3 1/2                     | 3/8               | 1 3/4             | 10.0*                        | 10.0*                            |
|            | X-113  | 113 51                   | 1.00 25                           | 113 2.04                        | Brass               | 38 64                             | 64          | 108          | 73           | 89                        | 10                | 44                | 10.0*                        | 7.6                              |
|            | X-130  | 130 59                   | 1.00 25                           | 130 2.36                        | Purple              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 6.6                              |
|            | X-175  | 175 79                   | 1.00 25                           | 175 3.16                        | Silver              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 4.9                              |
|            | X-210  | 210 95                   | 1.00 25                           | 210 3.80                        | Blue                |                                   |             |              |              |                           |                   |                   | 9.0                          | 4.1                              |
| Defl.      | A-12   | 12 5                     | 1.00 25                           | 12 0.20                         | Copper              | 1 3/4 1 7/8                       | 2 3/4       | 5 3/4        | 3 1/4        | 3 1/2                     | 5/8               | 2 1/4             | 10.0*                        | 10.0*                            |
|            | A-18   | 18 8                     | 1.00 25                           | 18 0.32                         | Gray                | 44 48                             | 70          | 146          | 83           | 89                        | 16                | 57                | 10.0*                        | 10.0*                            |
|            | A-25   | 25 11                    | 1.00 25                           | 25 0.44                         | Orange              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
| HS-        | A-41   | 41 19                    | 1.18 30                           | 35 0.63                         | Pink                |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | A-56   | 56 25                    | 1.14 30                           | 49 0.83                         | Black               | 1 3/4 2 1/4                       | 2 3/4       | 5 3/4        | 3 1/4        | 4                         | 5/8               | 2 1/4             | 10.0*                        | 10.0*                            |
|            | A-73   | 73 33                    | 1.06 27                           | 69 1.22                         | Tan                 | 44 57                             | 70          | 146          | 83           | 102                       | 16                | 57                | 10.0*                        | 10.0*                            |
|            | A-95   | 95 43                    | 1.01 26                           | 94 1.65                         | Green               |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
| PCHS-      | A-45   | 45 20                    | 1.60 41                           | 28 0.49                         | Blue                |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | A-75   | 75 34                    | 1.50 38                           | 50 0.89                         | Orange              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | A-125  | 125 57                   | 1.33 34                           | 94 1.68                         | Brown               | 1 3/4 3                           | 2 3/4       | 5 3/4        | 3 1/4        | 4                         | 5/8               | 2 1/2             | 10.0*                        | 10.0*                            |
|            | A-200  | 200 91                   | 1.15 29                           | 174 3.14                        | Black               | 44 76                             | 70          | 146          | 83           | 102                       | 16                | 64                | 10.0*                        | 10.0*                            |
|            | A-310  | 310 141                  | 1.00 25                           | 310 5.64                        | Yellow              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 7.1                              |
| RWHS       | A-400  | 400 181                  | 1.00 25                           | 400 7.24                        | Green               |                                   |             |              |              |                           |                   |                   | 10.0*                        | 5.5                              |
|            | A-510  | 510 231                  | 1.00 25                           | 510 9.24                        | Red                 | 1 3/4 3 1/8<br>44 79              | 2 3/4<br>70 | 5 3/4<br>146 | 3 1/4<br>83  | 4<br>102                  | 5/8<br>16         | 2 1/2<br>64       | 10.0*                        | 4.3                              |
|            | A-625  | 625 283                  | 1.00 25                           | 625 11.32                       | White               | 1 3/4 3 3/8<br>44 86              | 2 3/4<br>70 | 5 3/4<br>146 | 3 1/4<br>83  | 4<br>102                  | 5/8<br>16         | 2 1/2<br>64       | 9.0                          | 3.5                              |
| RWHS       | B-65   | 65 29                    | 2.10 53                           | 31 0.55                         | Brown               |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | B-85   | 85 39                    | 2.10 53                           | 40 0.74                         | White*              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | B-115  | 115 52                   | 2.00 51                           | 57 1.02                         | Silver              |                                   |             |              |              |                           |                   |                   | 10.0*                        | 10.0*                            |
|            | B-150  | 150 68                   | 2.00 51                           | 75 1.33                         | Orange              | 2 3/8 4                           | 4           | 7 1/4        | 4 3/4        | 4 1/4                     | 3/4               | 2 1/4             | 10.0*                        | 10.0*                            |
|            | B-280  | 280 127                  | 1.60 41                           | 174 3.10                        | Green               | 60 102                            | 102         | 184          | 121          | 108                       | 19                | 57                | 10.0*                        | 5.4                              |
|            | B-450  | 450 204                  | 1.31 33                           | 344 6.18                        | Red                 |                                   |             |              |              |                           |                   |                   | 10.0*                        | 3.3                              |
|            | B-750  | 750 340                  | 1.12 28                           | 670 12.14                       | White               |                                   |             |              |              |                           |                   |                   | 10.0*                        | 2.0                              |
|            | B-1000 | 1000 454                 | 1.00 25                           | 1000 18.16                      | Blue                | 2 3/8 4<br>60 102                 | 4<br>102    | 7 1/4<br>184 | 4 3/4<br>121 | 4 1/4<br>108              | 3/4<br>14         | 2 1/4<br>57       | 10.0*                        | 1.5                              |

<sup>1</sup>All springs have additional travel to solid equal to 50% of the rated deflection.

\*10.0 indicates a rating of 10 G's or greater



**1"(25mm) DEFLECTION C AND MULTIPLE C SPRING HANGERS**

Ratings & Dimensions for 1"(25mm) Deflection Spring Hangers (inches mm)

| Type          | Size       | Rated Capacity (lbs) (kg) | Rated Def. <sup>†</sup> (in) (mm) | Spring Constant (lbs/in) (kg/cm) | Spring Color | Spring Only    |       |          | Lower Rod Penetration LRP | Max. Rod Dia. MRD | Rod Extension REX | Vertical 'G' Ratings |         |             |
|---------------|------------|---------------------------|-----------------------------------|----------------------------------|--------------|----------------|-------|----------|---------------------------|-------------------|-------------------|----------------------|---------|-------------|
|               |            |                           |                                   |                                  |              | Free OD Height | D     | H        |                           |                   |                   | W                    | Tension | Compression |
| 1" 25mm Defl. | 1-1000     | 1000 454                  | 1.00 25                           | 1000 18.16                       | Black        | 27/8 41/8      | 4 102 | 83/4 222 | 51/4 133                  | 5 127             | 7/8 22            | 21/4 57              | 10.0*   | 3.2         |
|               | 1-1350     | 1350 612                  | 1.00 25                           | 1350 24.48                       | Yellow       |                |       |          |                           |                   |                   |                      | 8.7 2.4 |             |
|               | 1-1750     | 1750 794                  | 1.00 25                           | 1750 31.76                       | Black*       | 6.7 1.8        |       |          |                           |                   |                   |                      |         |             |
|               | 1-2100     | 2100 953                  | 1.00 25                           | 2100 38.12                       | Yellow*      | 5.6 1.5        |       |          |                           |                   |                   |                      |         |             |
|               | 1-2385     | 2385 1082                 | 1.00 25                           | 2385 43.28                       | Yellow**     | 5.0 1.4        |       |          |                           |                   |                   |                      |         |             |
|               | 1-2650     | 2650 1202                 | 1.00 25                           | 2650 48.08                       | Red*         | 4.4 1.2        |       |          |                           |                   |                   |                      |         |             |
| 1-2935        | 2935 1331  | 1.00 25                   | 2935 53.24                        | Red**                            | 4.0 1.1      |                |       |          |                           |                   |                   |                      |         |             |
| HS-           | 2-2700     | 2700 1225                 | 1.00 25                           | 2700 49.00                       | Yellow       | 27/8 41/8      | 9 229 | 10 254   | 51/4 133                  | 7 178             | 1 25              | 41/4 108             | 10.0*   | 3.0         |
|               | 2-3500     | 3500 1588                 | 1.00 25                           | 3500 63.52                       | Black*       |                |       |          |                           |                   |                   |                      | 10.0*   | 2.3         |
|               | 2-4200     | 4200 1905                 | 1.00 25                           | 4200 76.20                       | Yellow*      |                |       |          |                           |                   |                   |                      | 9.8 1.9 |             |
| PCHS-         | 4-5400     | 5400 2445                 | 1.00 25                           | 5400 97.96                       | Yellow       | 27/8 41/8      | 7 178 | 13 330   | 87/8 225                  | 7 178             | 11/4 32           | 41/2 114             | 10.0*   | 3.5         |
| 4-7000        | 7000 3175  | 1.00 25                   | 7000 127.00                       | Black*                           | 8.4 2.7      |                |       |          |                           |                   |                   |                      |         |             |
| RWHS-         | 4-8400     | 8400 3810                 | 1.00 25                           | 8400 152.40                      | Yellow*      | 27/8 41/8      | 7 178 | 13 330   | 87/8 225                  | 7 178             | 11/4 32           | 41/2 114             | 7.0     | 2.2         |
| 4-9540        | 9540 4327  | 1.00 25                   | 9540 173.08                       | Yellow**                         | 6.2 2.0      |                |       |          |                           |                   |                   |                      |         |             |
| 4-10600       | 10600 4808 | 1.00 25                   | 10600 192.32                      | Red*                             | 5.5 1.8      |                |       |          |                           |                   |                   |                      |         |             |
| 4-11740       | 11740 5325 | 1.00 25                   | 11740 213.00                      | Red**                            | 5.0 1.6      |                |       |          |                           |                   |                   |                      |         |             |

<sup>†</sup>All springs have additional travel to solid equal to 50% of the rated deflection.  
\*with Red inner spring \*\*with Green inner spring

\*10.0 indicates a rating of 10 G's or greater

**2"(51mm) DEFLECTION B, B2, C2 AND MULTIPLE C2 SPRING HANGERS**

Ratings & Dimensions for 2"(51mm) Deflection Spring Hangers (inches mm)

| Type                   | Size                   | Rated Capacity (lbs) (kg) | Rated Def. <sup>†</sup> (in) (mm) | Spring Constant (lbs/in) (kg/cm) | Spring Color/Stripe | Spring Only    |         |           | Lower Rod Penetration LRP | Max. Rod Dia. MRD | Rod Extension REX | Vertical 'G' Ratings |         |             |
|------------------------|------------------------|---------------------------|-----------------------------------|----------------------------------|---------------------|----------------|---------|-----------|---------------------------|-------------------|-------------------|----------------------|---------|-------------|
|                        |                        |                           |                                   |                                  |                     | Free OD Height | D       | H         |                           |                   |                   | W                    | Tension | Compression |
| 2" 51mm Defl.          | B-20                   | 20 9                      | 2.40 61                           | 8 0.15                           | Tan                 | 4 1/2          | 4 102   | 7 1/4 184 | 43/4 121                  | 5 1/8 130         | 3/4 19            | 2 1/4 57             | 10.0*   | 10.0*       |
|                        | B-26                   | 26 12                     | 2.18 55                           | 12 0.22                          | White/Bl            |                |         |           |                           |                   |                   |                      | 10.0*   | 10.0*       |
|                        | B-35                   | 35 16                     | 2.20 56                           | 16 0.29                          | Purple              |                |         |           |                           |                   |                   |                      | 10.0*   | 10.0*       |
|                        | B-50                   | 50 23                     | 2.20 56                           | 24 0.41                          | White/Rd            |                |         |           |                           |                   |                   |                      | 10.0*   | 10.0*       |
|                        | B-65                   | 65 29                     | 2.10 53                           | 31 0.55                          | Brown               |                |         |           |                           |                   |                   |                      | 10.0*   | 10.0*       |
|                        | B-85                   | 85 39                     | 2.10 53                           | 40 0.74                          | White/Blk           |                |         |           |                           |                   |                   |                      | 10.0*   | 10.0*       |
|                        | B-115                  | 115 52                    | 2.00 51                           | 57 1.02                          | Silver              |                |         |           |                           |                   |                   |                      | 10.0*   | 10.0*       |
|                        | B-150                  | 150 68                    | 2.00 51                           | 75 1.33                          | Orange              |                |         |           |                           |                   |                   |                      | 10.0*   | 10.0*       |
| HS-                    | B2-210                 | 210 95                    | 2.12 54                           | 99 1.76                          | Silver              | 4 1/2 1/2      | 4 102   | 7 1/4 184 | 43/4 121                  | 5 1/8 130         | 3/4 19            | 2 1/4 57             | 10.0*   | 7.1         |
|                        | B2-290                 | 290 132                   | 2.00 51                           | 144 2.69                         | Blue                |                |         |           |                           |                   |                   |                      | 10.0*   | 5.2         |
|                        | B2-450 <sup>‡</sup>    | 450 204                   | 2.00 51                           | 224 4.00                         | Tan                 |                |         |           |                           |                   |                   |                      | 10.0*   | 3.3         |
|                        | B2-680 <sup>‡</sup>    | 680 308                   | 2.00 51                           | 340 6.04                         | Gray                |                |         |           |                           |                   |                   |                      | 10.0*   | 2.2         |
|                        | C2-125                 | 125 57                    | 2.50 64                           | 50 0.89                          | Purple              |                |         |           |                           |                   |                   |                      | 5 127   | 4 102       |
| C2-170                 | 170 77                 | 2.40 61                   | 70 1.26                           | Brown                            | 10.0*               | 10.0*          |         |           |                           |                   |                   |                      |         |             |
| C2-210                 | 210 95                 | 2.30 58                   | 90 1.64                           | Red                              | 10.0*               | 10.0*          |         |           |                           |                   |                   |                      |         |             |
| C2-260                 | 260 118                | 2.20 56                   | 120 2.11                          | White                            | 10.0*               | 10.0*          |         |           |                           |                   |                   |                      |         |             |
| C2-330                 | 330 150                | 2.00 51                   | 165 2.94                          | Black                            | 10.0*               | 9.6            |         |           |                           |                   |                   |                      |         |             |
| C2-460                 | 460 209                | 2.00 51                   | 230 4.10                          | Blue                             | 10.0*               | 6.9            |         |           |                           |                   |                   |                      |         |             |
| C2-610                 | 610 277                | 2.00 51                   | 305 5.43                          | Green                            | 10.0*               | 5.2            |         |           |                           |                   |                   |                      |         |             |
| PCHS-                  | C2-880 <sup>‡</sup>    | 880 399                   | 2.00 51                           | 440 7.82                         | Gray                | 10.0*          | 9.7 2.6 | 7.7 2.1   | 6.3 1.7                   | 10.0*             | 3.6               |                      |         |             |
| C2-1210 <sup>‡</sup>   | 1210 549               | 2.00 51                   | 605 10.76                         | Silver                           |                     |                |         |           |                           |                   |                   |                      |         |             |
| C2-1540 <sup>‡</sup>   | 1540 699               | 2.00 51                   | 770 13.71                         | Gray*                            |                     |                |         |           |                           |                   |                   |                      |         |             |
| C2-1870 <sup>‡</sup>   | 1870 848               | 2.00 51                   | 935 16.63                         | Silver*                          |                     |                |         |           |                           |                   |                   |                      |         |             |
| RWHS-                  | 2-C2-2420 <sup>‡</sup> | 2420 1098                 | 2.00 51                           | 605 21.53                        | Silver              | 5 127          | 9 229   | 10 254    | 51/4 133                  | 6 152             | 1 25              | 41/4 108             | 10.0*   | 4.6         |
|                        | 2-C2-3080 <sup>‡</sup> | 3080 1397                 | 2.00 51                           | 770 27.39                        | Gray*               |                |         |           |                           |                   |                   |                      | 10.0*   | 3.6         |
|                        | 2-C2-3740 <sup>‡</sup> | 3740 1696                 | 2.00 51                           | 935 33.25                        | Silver*             |                |         |           |                           |                   |                   |                      | 10.0*   | 3.0         |
|                        | 4-C2-3520 <sup>‡</sup> | 3520 1697                 | 2.00 51                           | 440 31.31                        | Gray                |                |         |           |                           |                   |                   |                      | 5 127   | 7 178       |
| 4-C2-4840 <sup>‡</sup> | 4840 2195              | 2.00 51                   | 605 43.04                         | Silver                           | 10.0*               | 3.9            |         |           |                           |                   |                   |                      |         |             |
| 4-C2-6160 <sup>‡</sup> | 6160 2794              | 2.00 51                   | 770 54.78                         | Gray*                            | 9.5 3.1             |                |         |           |                           |                   |                   |                      |         |             |
| 4-C2-7480 <sup>‡</sup> | 7480 3393              | 2.00 51                   | 935 66.53                         | Silver*                          | 7.8 2.5             |                |         |           |                           |                   |                   |                      |         |             |

<sup>†</sup>All springs without "‡" have additional travel to solid equal to 50% of the rated deflection.  
\*with Red inner spring

\*10.0 indicates a rating of 10 G's or greater

<sup>‡</sup>Published ratings allow minimum 25% additional travel to solid. For a full 50% specified minimum use the following ratings:

| Size    | Derated Capacity (lbs) (kg) | Defl. (in) (mm) | Size      | Derated Capacity (lbs) (kg) | Defl. (in) (mm) | Size      | Derated Capacity (lbs) (kg) | Defl. (in) (mm) |
|---------|-----------------------------|-----------------|-----------|-----------------------------|-----------------|-----------|-----------------------------|-----------------|
| B2-450  | 410 186                     | 1.83 46         | C2-1870   | 1560 708                    | 1.67 42         | 2-C2-3740 | 3120 1415                   | 1.67 42         |
| B2-680  | 565 256                     | 1.66 42         | 2-C2-1760 | 1600 726                    | 1.82 46         | 4-C2-4840 | 4040 1833                   | 1.67 42         |
| C2-880  | 800 363                     | 1.82 46         | 2-C2-2420 | 2020 916                    | 1.67 42         | 4-C2-6160 | 5145 2334                   | 1.67 42         |
| C2-1210 | 1010 458                    | 1.67 42         | 2-C2-3080 | 2570 1166                   | 1.67 42         | 4-C2-7480 | 6245 2833                   | 1.67 42         |
| C2-1540 | 1285 583                    | 1.67 42         |           |                             |                 |           |                             |                 |