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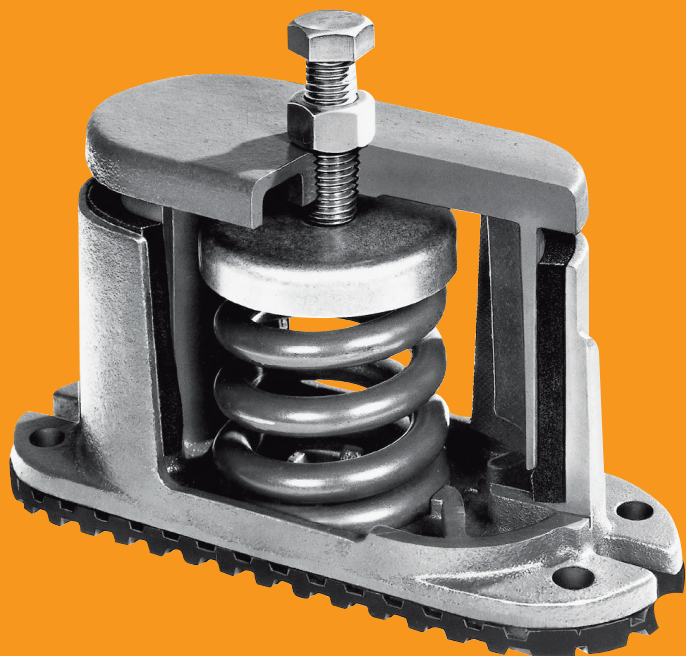
**HOUSED  
SINGLE and  
MULTIPLE  
SPRING MOUNTS**

TYPE

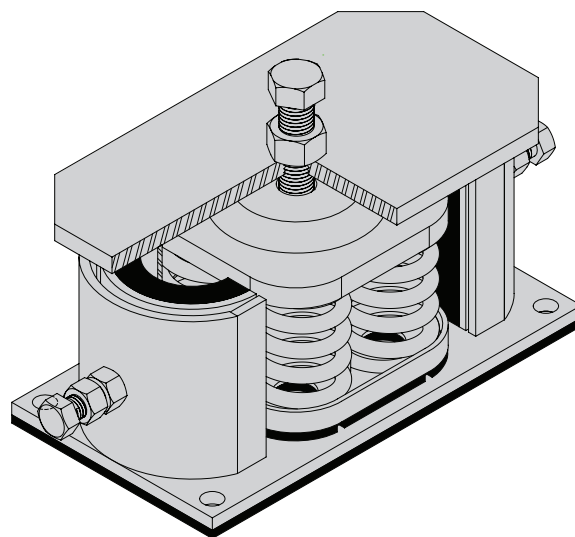
**C**

**C-210-3.1 BULLETIN**

**TYPE "C"** Spring Mountings provide a packaged solution to troublesome vibration problems. Since the static deflection of the spring element is much greater than that provided by most rubber materials, these units will perform where it is necessary to establish low natural frequencies or to use a mounting that is more yielding than the supporting floor. Type "C" mountings are specifically designed for noise and vibration free application in critical areas on light concrete or wooden floors.



Semi-circular Neoprene sponge inserts limit movement during start and stop and prevent contact between the projections of the upper and lower semi-steel castings. These inserts are designed for a minimum of damping in all directions to allow the springs to function properly and develop installed efficiencies that are very close to the theoretical. Non-adjustable inserts are recommended for all air conditioning applications under compressors, air handling units, centrifugal fans and most other constant frequency vibration problems.

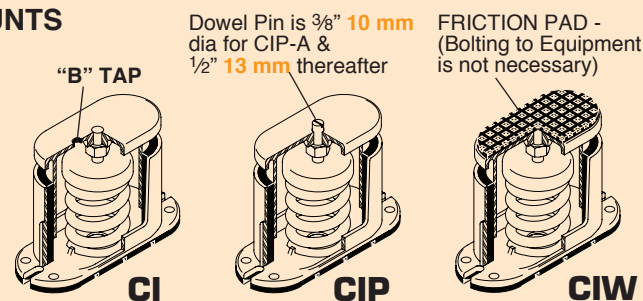
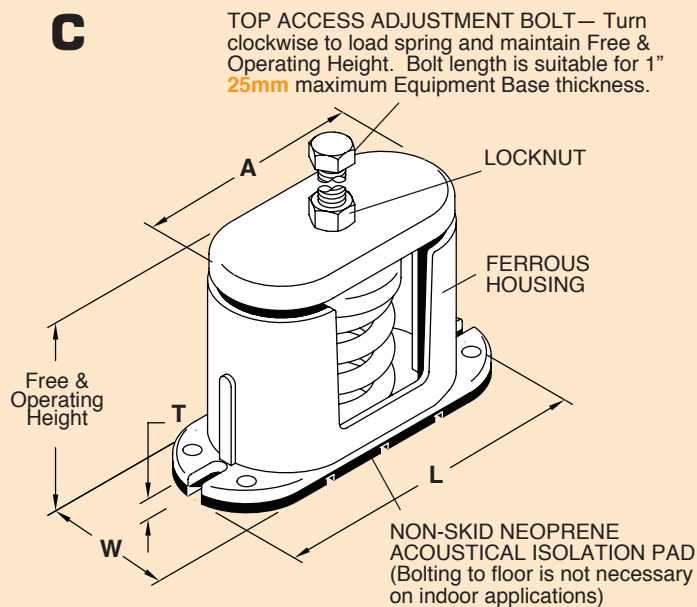


**TYPE "CS"** mountings have built in adjustable snubbers for shock absorbing and high horizontal thrust applications. The damping, or housing drag, is varied by means of end adjustment bolts which change the pressure on the solid neoprene inserts. Tightening the snubbers reduces vertical movement and limits bounce. The same adjustment controls side motion and rock. Wear is negligible as damping is provided by the viscous-distortion of the neoprene inserts rather than by friction. Adjustable snubbers are recommended for applications under punch presses, drop hammers, clickers and other industrial equipment.

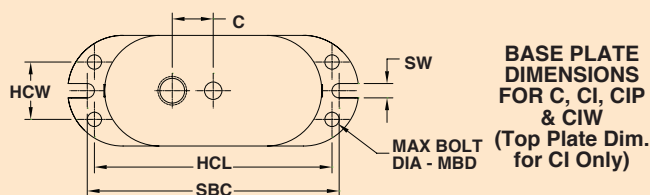
**EXTERNAL** adjustment mountings are used when equipment mounting holes are well centered and the mounting leveling and adjustment bolt is accessible from above.

**INTERNAL** adjustment mountings provide a means of attachment when it is preferable to shift the center of the mounting in relation to the equipment mounting hole or where there is no access for adjustment from above. Attachment to the equipment may be made either by an individually located tapped hole or by a type "W" friction pad cemented on top of the mounting. The internal spring adjustment bolt is reached through the side opening by means of an open end wrench. Both external and internal adjustment mountings are provided with type "W" acoustical friction pads on bottom to eliminate the need for bolting down on most installations.

## 1" & 2" Deflection SINGLE and MULTIPLE SPRING MOUNTS



CI, CIP & CIW Mounts have SIDE ACCESS INTERNAL ADJUSTMENT BOLTS. Turn clockwise to load spring and maintain Free & Operating Height.



**1" 25mm TYPE C, CI, CIP & CIW DIMENSIONS (inches/mm)<sup>†</sup>**

| Type | Size | CI Only      |           |            |              |            |             |            |              |             |           |             | Type C<br>Adjustment<br>Bolt | Free & Operating Ht. |             |             |
|------|------|--------------|-----------|------------|--------------|------------|-------------|------------|--------------|-------------|-----------|-------------|------------------------------|----------------------|-------------|-------------|
|      |      | A            | B         | C          | L            | T          | W           | SW         | HCL          | HCW         | MBD       | SBC         |                              | C                    | CI&CIP      | CIW         |
| C-   | A    | 4<br>102     | 3/8-16UNC | 1<br>25    | 53/4<br>146  | 1/2<br>13  | 21/8<br>54  | 5/16<br>8  | 43/4<br>121  | 1<br>25     | 1/4<br>6  | 5<br>127    | 3/8 x 4<br>x 102             | 41/2<br>114          | 47/8<br>124 | 51/8<br>130 |
|      | B    | 53/4<br>146  | 1/2-13UNC | 11/4<br>32 | 81/4<br>210  | 1/2<br>13  | 23/4<br>70  | 7/16<br>11 | 61/2<br>165  | 11/2<br>38  | 3/8<br>10 | 71/4<br>184 | 1/2 x 4<br>x 102             | 55/8<br>143          | 61/8<br>156 | 63/8<br>162 |
| CI-  | C    | 65/8<br>168  | 1/2-13UNC | 11/4<br>32 | 87/8<br>225  | 9/16<br>14 | 31/2<br>89  | 7/16<br>11 | 71/4<br>184  | 13/4<br>44  | 3/8<br>10 | 77/8<br>200 | 5/8 x 41/2<br>x 114          | 55/8<br>143          | 61/8<br>156 | 63/8<br>162 |
| CIP- | D    | 93/4<br>248  | 5/8-11UNC | ++<br>++   | 12<br>305    | 9/16<br>14 | 31/2<br>89  | 7/16<br>11 | 103/8<br>264 | 13/4<br>44  | 3/8<br>10 | 11<br>279   | 5/8 x 41/2<br>x 114          | 61/8<br>156          | 61/2<br>165 | 63/4<br>171 |
|      | E    | 121/8<br>308 | 5/8-11UNC | 2<br>50    | 123/4<br>324 | 5/8<br>16  | 65/8<br>168 | —<br>—     | 113/8<br>289 | 51/8<br>130 | 1/2<br>13 | —<br>—      | 3/4 x 5<br>x 127             | 61/8<br>156          | 61/2<br>165 | 63/4<br>171 |
| CIW- | F    | 16<br>406    | 3/4-10UNC | ++<br>++   | 16<br>406    | 5/8<br>16  | 7<br>178    | —<br>—     | 141/2<br>368 | 51/8<br>130 | 5/8<br>16 | —<br>—      | Internal<br>Adj Only         | 63/8<br>162          | 63/4<br>171 | 7<br>178    |
|      | G    | 193/4<br>502 | 3/4-10UNC | ++<br>++   | 193/4<br>502 | 3/4<br>19  | 10<br>254   | —<br>—     | 183/8<br>467 | 81/4<br>210 | 5/8<br>16 | —<br>—      | Internal<br>Adj Only         | 63/4<br>171          | 63/4<br>171 | 7<br>178    |

<sup>†</sup> Casting Dimensions vary  $\pm 1/8"$ . <sup>††</sup>Hole is in center.

### TYPE 1" 25mm DEFL. C, CI, CIP & CIW RATINGS (in/mm)

| Type     | Size   | Rated Capacity<br>(lbs) (kg) | Rated Defl. <sup>†</sup><br>(in) (mm) | Spring Constant<br>(lbs/in) (kg/mm) | Spring Color/<br>Stripe |
|----------|--------|------------------------------|---------------------------------------|-------------------------------------|-------------------------|
| 1" Defl. | A-45   | 45 20                        | 1.60 41                               | 28 13                               | Blue                    |
|          | A-75   | 75 34                        | 1.50 38                               | 50 23                               | Orange                  |
|          | A-125  | 125 57                       | 1.33 34                               | 94 43                               | Brown                   |
|          | A-200  | 200 91                       | 1.15 29                               | 174 79                              | Black                   |
|          | A-310  | 310 141                      | 1.00 25                               | 310 141                             | Yellow                  |
|          | A-400  | 400 181                      | 1.00 25                               | 400 181                             | Green                   |
|          | A-510  | 510 231                      | 1.00 25                               | 510 231                             | Red                     |
|          | A-625  | 625 283                      | 1.00 25                               | 625 283                             | White                   |
| C-       | B-65   | 65 29                        | 2.10 53                               | 31 14                               | Brown                   |
|          | B-85   | 85 39                        | 2.10 53                               | 40 18                               | White/Black             |
| CI-      | B-115  | 115 52                       | 2.00 51                               | 57 26                               | Silver                  |
|          | B-150  | 150 68                       | 2.00 51                               | 75 34                               | Orange                  |
| CIP-     | B-280  | 280 127                      | 1.60 41                               | 174 79                              | Green                   |
|          | B-450  | 450 204                      | 1.31 33                               | 344 156                             | Red                     |
| CIW-     | B-750  | 750 340                      | 1.12 28                               | 670 295                             | White                   |
|          | B-1000 | 1000 454                     | 1.00 25                               | 1000 454                            | Blue                    |
|          | B-1250 | 1250 567                     | 1.00 25                               | 1250 567                            | Gray                    |
|          | B-1650 | 1650 748                     | 1.00 25                               | 1650 339                            | Black                   |
|          | C-1000 | 1000 454                     | 1.00 25                               | 1000 454                            | Black                   |
|          | C-1350 | 1350 612                     | 1.00 25                               | 1350 612                            | Yellow                  |
|          | C-1750 | 1750 794                     | 1.00 25                               | 1750 794                            | Black                   |
|          | C-2100 | 2100 953                     | 1.00 25                               | 2100 953                            | Yellow                  |
|          | C-2385 | 2385 1082                    | 1.00 25                               | 2385 1082                           | Yellow**                |
|          | C-2650 | 2650 1202                    | 1.00 25                               | 2650 1202                           | Red*                    |
|          | C-2935 | 2935 1331                    | 1.00 25                               | 2935 1331                           | Red**                   |

\*with RED core spring    \*\*with GREEN core spring

Sizes D, E, F & G use multiple C springs.

### TYPE 1" 25mm DEFL. C, CI, CIP & CIW RATINGS (in/mm)

|          |         | Rated Capacity |       | Rated Defl. <sup>†</sup> |      | Spring Constant |         | Spring Color/<br>Stripe |
|----------|---------|----------------|-------|--------------------------|------|-----------------|---------|-------------------------|
| Type     | Size    | (lbs)          | (kg)  | (in)                     | (mm) | (lbs/in)        | (kg/mm) |                         |
| 1" Defl. | D-3500  | 3500           | 1588  | 1.00                     | 25   | 3500            | 1588    | Black*                  |
|          | D-4200  | 4200           | 1905  | 1.00                     | 25   | 4200            | 1905    | Yellow*                 |
|          | D-4770  | 4770           | 2164  | 1.00                     | 25   | 4770            | 2164    | Yellow**                |
|          | D-5300  | 5300           | 2404  | 1.00                     | 25   | 5300            | 2404    | Red*                    |
|          | D-5870  | 5870           | 2663  | 1.00                     | 25   | 5870            | 2663    | Red**                   |
|          | E-7000  | 7000           | 3175  | 1.00                     | 25   | 7000            | 3175    | Black*                  |
|          | E-8400  | 8400           | 3810  | 1.00                     | 25   | 8400            | 3810    | Yellow*                 |
|          | E-9540  | 9540           | 4327  | 1.00                     | 25   | 9540            | 4327    | Yellow**                |
|          | E-10600 | 10600          | 4808  | 1.00                     | 25   | 10600           | 4808    | Red*                    |
|          | E-11740 | 11740          | 5325  | 1.00                     | 25   | 11740           | 5325    | Red**                   |
| CI-      | F-12600 | 12600          | 5715  | 1.00                     | 25   | 12600           | 5715    | Yellow*                 |
| CIP-     | F-14310 | 14310          | 6490  | 1.00                     | 25   | 14310           | 6490    | Yellow**                |
|          | F-15900 | 15900          | 7212  | 1.00                     | 25   | 15900           | 7212    | Red*                    |
|          | F-17610 | 17610          | 7988  | 1.00                     | 25   | 17610           | 7988    | Red**                   |
| CIW-     | G-18900 | 18900          | 8573  | 1.00                     | 25   | 18900           | 8573    | Yellow*                 |
|          | G-21465 | 21465          | 9736  | 1.00                     | 25   | 21465           | 9736    | Yellow**                |
|          | G-23850 | 23850          | 10818 | 1.00                     | 25   | 23850           | 10818   | Red*                    |
|          | G-26415 | 26415          | 11982 | 1.00                     | 25   | 26415           | 11982   | Red**                   |

## SPRING CHARACTERISTICS

| Size      | Spring OD<br>(in) (mm) | Free Ht.<br>(in) (mm)  | Ratio<br>Kx/Ky | Ratio<br>OD/OH |
|-----------|------------------------|------------------------|----------------|----------------|
| A-45-400  | 13/4 <b>44</b>         | 3 <b>76</b>            | 0.70-0.90      | 0.88-1.25      |
| A-510-625 | 13/4 <b>44</b>         | 31/8-33/8 <b>79-86</b> | 0.50-0.60      | 0.74-0.82      |
| B         | 23/8 <b>60</b>         | 4 <b>102</b>           | 0.65-0.90      | 0.76-1.25      |
| C         | 27/8 <b>73</b>         | 41/8 <b>105</b>        | 0.90-1.00      | 0.92           |

TYPE 2" 51mm DEFL. C, CI, CIP & CIW DIMENSIONS (inches/mm)<sup>†</sup>

<sup>†</sup> Casting Dimensions vary  $\pm 1/8"$ . <sup>††</sup> Hole is in center.

| Type | Size   | CI Only      |           |            |              |            |             |            |              |             |           |             | Type C Adjustment Bolt | Free & Operating Ht. |             |             |
|------|--------|--------------|-----------|------------|--------------|------------|-------------|------------|--------------|-------------|-----------|-------------|------------------------|----------------------|-------------|-------------|
|      |        | A            | B         | C          | L            | T          | W           | SW         | HCL          | HCW         | MBD       | SBC         |                        | C                    | CI&CIP      | CIW         |
| C-   | B & B2 | 53/4<br>146  | 1/2-13UNC | 11/4<br>32 | 81/4<br>210  | 1/2<br>13  | 23/4<br>70  | 7/16<br>11 | 61/2<br>165  | 11/2<br>38  | 3/8<br>10 | 71/4<br>184 | 1/2 x 4<br>x 102       | 53/4<br>146          | 61/8<br>156 | 63/8<br>162 |
|      | C2     | 65/8<br>168  | 1/2-13UNC | 11/4<br>32 | 87/8<br>225  | 9/16<br>14 | 31/2<br>89  | 7/16<br>11 | 71/4<br>184  | 13/4<br>44  | 3/8<br>10 | 77/8<br>200 | 5/8 x 41/2<br>x 114    | 61/2<br>165          | 63/4<br>171 | 7<br>178    |
| CI-  | D-C2   | 93/4<br>248  | 5/8-11UNC | ††<br>††   | 12<br>305    | 9/16<br>14 | 31/2<br>89  | 7/16<br>11 | 103/8<br>264 | 13/4<br>44  | 3/8<br>10 | 11<br>279   | 5/8 x 41/2<br>x 114    | 67/8<br>175          | 71/2<br>191 | 73/4<br>197 |
| CIP- | E-C2   | 121/8<br>308 | 5/8-11UNC | 2<br>50    | 123/4<br>324 | 5/8<br>16  | 65/8<br>168 | —<br>—     | 113/8<br>289 | 51/8<br>130 | 1/2<br>13 | —<br>—      | 3/4 x 5<br>x 127       | 67/8<br>175          | 71/2<br>191 | 73/4<br>197 |
| CIW- | F-C2   | 16<br>406    | 3/4-10UNC | ††<br>††   | 16<br>406    | 5/8<br>16  | 7<br>178    | —<br>—     | 141/2<br>368 | 51/8<br>130 | 5/8<br>16 | —<br>—      | Internal Adj. Only     | 71/8<br>181          | 73/4<br>197 | 8<br>203    |
|      | G-C2   | 193/4<br>502 | 3/4-10UNC | ††<br>††   | 193/4<br>502 | 3/4<br>19  | 10<br>254   | —<br>—     | 183/8<br>467 | 81/4<br>210 | 5/8<br>16 | —<br>—      | Internal Adj. Only     | 71/8<br>181          | 73/4<br>197 | 8<br>203    |

TYPE 2" 51mm DEFL. C, CI, CIP & CIW RATINGS (in/mm)

| Type     | Size                   | Rated Capacity |      | Rated Defl. <sup>†</sup> | Mount Constant | Spring Color/Stripe |
|----------|------------------------|----------------|------|--------------------------|----------------|---------------------|
|          |                        | (lbs)          | (kg) | (in)                     | (mm)           | (lbs/in)(kg/mm)     |
| 2" Defl. | B-20                   | 20             | 9    | 2.40                     | 61             | 8 4 Tan             |
|          | B-26                   | 26             | 12   | 2.18                     | 55             | 12 5 White/Blue     |
|          | B-35                   | 35             | 16   | 2.20                     | 56             | 16 7 Purple         |
|          | B-50                   | 50             | 23   | 2.20                     | 56             | 24 11 White/Red     |
|          | B-65                   | 65             | 29   | 2.10                     | 53             | 31 14 Brown         |
|          | B-85                   | 85             | 39   | 2.10                     | 53             | 40 18 White/Black   |
| C-       | B-115                  | 115            | 52   | 2.00                     | 51             | 57 26 Silver        |
|          | B-150                  | 150            | 68   | 2.00                     | 51             | 75 34 Orange        |
|          | B2-210                 | 210            | 95   | 2.12                     | 54             | 99 45 Silver Blue   |
|          | B2-290                 | 290            | 132  | 2.00                     | 51             | 144 65              |
|          | B2-450 <sup>†</sup>    | 450            | 204  | 2.00                     | 51             | 224 102 Tan         |
|          | B2-680 <sup>†</sup>    | 680            | 308  | 2.00                     | 51             | 340 154 Gray        |
| CI-      | C2-125                 | 125            | 57   | 2.50                     | 64             | 50 23 Purple        |
|          | C2-170                 | 170            | 77   | 2.40                     | 61             | 70 32 Brown         |
|          | C2-210                 | 210            | 95   | 2.30                     | 58             | 90 41 Red           |
|          | C2-260                 | 260            | 118  | 2.20                     | 56             | 120 55 White        |
|          | C2-330                 | 330            | 150  | 2.00                     | 51             | 165 75 Black        |
|          | C2-460                 | 460            | 209  | 2.00                     | 51             | 230 104 Blue        |
| CIP-     | C2-610                 | 610            | 277  | 2.00                     | 51             | 305 138 Green       |
|          | C2-880 <sup>†</sup>    | 880            | 399  | 2.00                     | 51             | 440 200 Gray        |
|          | C2-1210 <sup>†</sup>   | 1210           | 549  | 2.00                     | 51             | 605 274 Silver      |
|          | C2-1540 <sup>†</sup>   | 1540           | 698  | 2.00                     | 51             | 770 349 Gray*       |
|          | C2-1870 <sup>†</sup>   | 1870           | 848  | 2.00                     | 51             | 935 424 Silver*     |
|          | D-C2-2420 <sup>†</sup> | 2420           | 1098 | 2.00                     | 51             | 1210 549 Silver     |
| CIW-     | D-C2-3080 <sup>†</sup> | 3080           | 1397 | 2.00                     | 51             | 1540 699 Gray*      |
|          | D-C2-3740 <sup>†</sup> | 3740           | 1696 | 2.00                     | 51             | 1870 848 Silver*    |
|          | E-C2-3520 <sup>†</sup> | 3520           | 1597 | 2.00                     | 51             | 1260 572 Gray       |
|          | E-C2-4840 <sup>†</sup> | 4840           | 2195 | 2.00                     | 51             | 2420 1098 Silver    |
|          | E-C2-6160 <sup>†</sup> | 6160           | 2794 | 2.00                     | 51             | 3080 1397 Gray*     |
|          | E-C2-7480 <sup>†</sup> | 7480           | 3393 | 2.00                     | 51             | 3740 1696 Silver*   |

All springs without "†" have additional travel to solid equal to 50% of the rated deflection. \*with RED core spring

TYPE 2" 51mm DEFL. C, CI, CIP & CIW RATINGS (in/mm)

| Type          | Size                    | Rated Capacity |      | Rated Defl. <sup>†</sup> | Mount Constant | Spring Color/Stripe |
|---------------|-------------------------|----------------|------|--------------------------|----------------|---------------------|
|               |                         | (lbs)          | (kg) | (in)                     | (mm)           | (lbs/in)(kg/mm)     |
| 2" Defl. C-   | F-C2-7260 <sup>†</sup>  | 7260           | 3293 | 2.00                     | 51             | 3630 1647 Silver*   |
|               | F-C2-9240 <sup>†</sup>  | 9240           | 4191 | 2.00                     | 51             | 4620 2096 Gray*     |
|               | F-C2-11220 <sup>†</sup> | 11220          | 5089 | 2.00                     | 51             | 5610 2545 Silver*   |
| CI- CIP- CIW- | G-C2-10890 <sup>†</sup> | 10890          | 4940 | 2.00                     | 51             | 5445 2470 Silver*   |
|               | G-C2-13860 <sup>†</sup> | 13860          | 6287 | 2.00                     | 51             | 6930 3143 Gray*     |
|               | G-C2-16830 <sup>†</sup> | 16830          | 7964 | 2.00                     | 51             | 8415 3817 Silver*   |

<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) | Derated Capacity (kg) | Defl (in) | Defl (mm) | Size       | Derated Capacity (lbs) | Derated Capacity (kg) | Defl (in) | Defl (mm) |
|-----------|------------------------|-----------------------|-----------|-----------|------------|------------------------|-----------------------|-----------|-----------|
| B2-450    | 410                    | 186                   | 1.83      | 46        | E-C2-3520  | 3200                   | 1451                  | 1.82      | 46        |
| B2-680    | 565                    | 256                   | 1.66      | 42        | E-C2-4840  | 4040                   | 1833                  | 1.67      | 42        |
| C2-880    | 800                    | 363                   | 1.82      | 46        | E-C2-6160  | 5145                   | 2334                  | 1.67      | 42        |
| C2-1210   | 1010                   | 458                   | 1.67      | 42        | E-C2-7480  | 6245                   | 2833                  | 1.67      | 42        |
| C2-1540   | 1285                   | 583                   | 1.67      | 42        | F-C2-7260  | 6060                   | 2749                  | 1.67      | 42        |
| C2-1870   | 1560                   | 708                   | 1.67      | 42        | F-C2-9240  | 7715                   | 3499                  | 1.67      | 42        |
| D-C2-2420 | 2020                   | 916                   | 1.67      | 42        | F-C2-11220 | 9370                   | 4250                  | 1.67      | 42        |
| D-C2-3080 | 2570                   | 1166                  | 1.67      | 42        | G-C2-10890 | 9095                   | 4125                  | 1.67      | 42        |
| D-C2-3740 | 3120                   | 1415                  | 1.67      | 42        | G-C2-13860 | 11575                  | 5250                  | 1.67      | 42        |
|           |                        |                       |           |           | G-C2-16830 | 14055                  | 6375                  | 1.67      | 42        |

SPRING CHARACTERISTICS

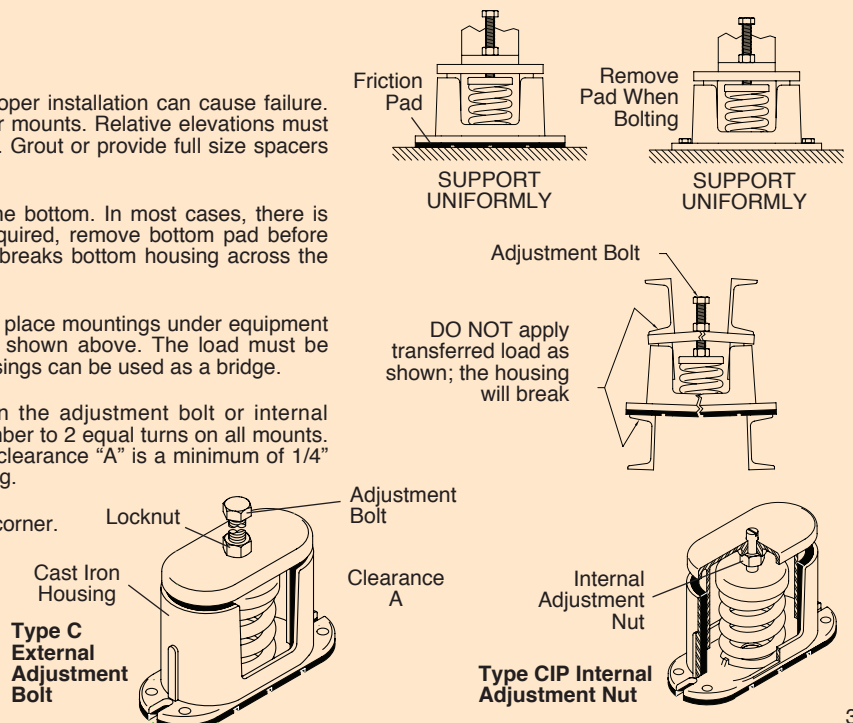
| Size | Spring OD<br>(in) (mm) | Free Ht.<br>(in) (mm) | Ratio<br>Kx/Ky | Ratio<br>OD/OH |
|------|------------------------|-----------------------|----------------|----------------|
| B    | 23/8 60                | 4 102                 | 0.55-0.65      | 0.95-1.00      |
| B2   | 23/8 60                | 4 1/2 114             | 0.80-0.90      | 1.19-1.48      |
| C2   | 27/8 73                | 5 127                 | 0.63-0.85      | 0.96-1.15      |

## Type C and CIP Spring Mount Installation Instructions

Type C housings are Cast Iron. They perform well but improper installation can cause failure. Supporting surfaces must be flat, continuous and level under mounts. Relative elevations must be no more than 1/2" from the highest to the lowest position. Grout or provide full size spacers to compensate for large differences.

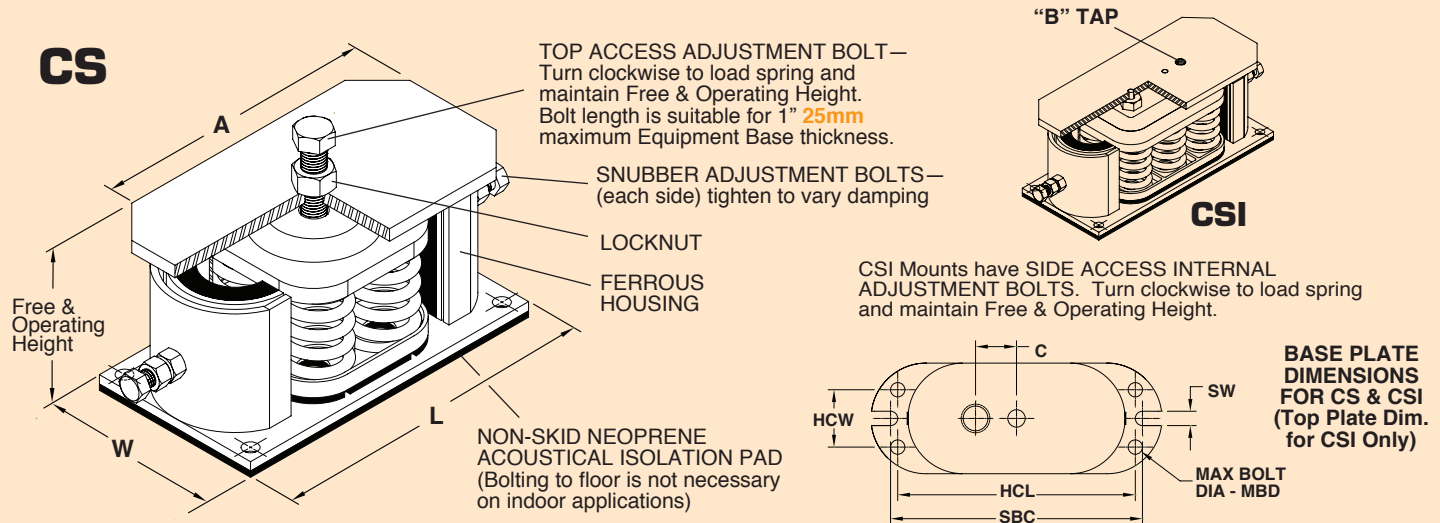
- Mountings are supplied with friction pads cemented to the bottom. In most cases, there is no need to bold the mounting down. When bolting is required, remove bottom pad before bolting. Bolt tightening with pad in place often cracks or breaks bottom housing across the center or around bolt holes.
- When equipment is mounted directly on Type "C" Mounts, place mountings under equipment bolt holes and install the mounting adjustment bolts as shown above. The load must be around the adjustment bolt. Neither the top or bottom housings can be used as a bridge.
- Take 6 initial complete downward (clockwise) turns on the adjustment bolt or internal adjustment nut of all mounts. After first round, reduce number to 2 equal turns on all mounts. Repeat this procedure as many times as necessary until clearance "A" is a minimum of 1/4" for direct mounting or equipment lifts off temporary blocking.
- Level equipment by taking additional turns on low side or corner.
- Tighten lock nut against equipment base if external adjustment.

NOTE: Mason Industries, Inc. will not replace mountings installed improperly.





## 1" and 2" Deflection SINGLE and MULTIPLE SPRING MOUNTS



1" 25mm & 2" 50mm TYPE CS & CSI DIMENSIONS (inches/mm)<sup>†</sup>

| Type | Size   | CSI Only     |           |            |              |           |           |              |             |           |              | Adjustment Bolt<br>(Both CS & CSI) | 1" 25mm Free &<br>Operating Height<br>CS | 2" 50mm Free &<br>Operating Height<br>CS |
|------|--------|--------------|-----------|------------|--------------|-----------|-----------|--------------|-------------|-----------|--------------|------------------------------------|------------------------------------------|------------------------------------------|
|      |        | A            | B         | C          | L            | T         | W         | HCL          | HCW         | MBD       | SBL          |                                    |                                          |                                          |
| CS-  | C & C2 | 73/4<br>197  | 5/8-11UNC | 11/4<br>32 | 10<br>254    | 5/8<br>16 | 4<br>102  | 83/4<br>222  | 23/4<br>121 | 1/2<br>13 | 12<br>305    | 5/8 x 41/2<br>x 114                | 57/8<br>149                              | 63/4<br>171                              |
|      | D & D2 | 11<br>279    | 5/8-11UNC | —          | 131/4<br>337 | 5/8<br>16 | 4<br>102  | 12<br>305    | 23/4<br>121 | 1/2<br>13 | 151/4<br>311 | 5/8 x 41/2<br>x 114                | 63/4<br>171                              | 75/8<br>194                              |
|      | E & E2 | 127/8<br>327 | 3/4-10UNC | 11/4<br>32 | 127/8<br>327 | 5/8<br>16 | 7<br>178  | 113/8<br>289 | 51/8<br>130 | 1/2<br>13 | 167/8<br>429 | 3/4 x 5<br>x 127                   | 63/4<br>171                              | 75/8<br>194                              |
| CSI- | F & F2 | 16<br>406    | 3/4-10UNC | —          | 16<br>406    | 3/4<br>19 | 7<br>178  | 141/2<br>368 | 51/8<br>130 | 1/2<br>13 | 20<br>508    | 1 x 4<br>x 102                     | Use<br>CSI                               | 75/8<br>194                              |
|      | G & G2 | 193/4<br>502 | 1-8UNC    | —          | 193/4<br>502 | 3/4<br>19 | 10<br>254 | 183/8<br>467 | 81/4<br>210 | 1/2<br>13 | 233/4<br>603 | 1 x 4<br>x 102                     | Use<br>CSI                               | 75/8<br>194                              |
|      | H & H2 | 231/2<br>597 | 1-8UNC    | —          | 231/2<br>597 | 3/4<br>19 | 10<br>254 | 22<br>559    | 81/4<br>210 | 1/2<br>13 | 271/2<br>699 | 1 1/4 x 5<br>x 127                 | Use<br>CSI                               | 75/8<br>194                              |

<sup>†</sup> Casting Dimensions vary  $\pm 1/8"$ . <sup>††</sup> Hole is in center.

TYPE 1" 25mm DEFL. CS & CSI RATINGS (in/mm)

| Type | Size    | Rated Capacity<br>(lbs) (kg) | Rated Defl. <sup>†</sup><br>(in) (mm) | Mount Constant<br>(lbs/in) (kg/mm) | Spring Color/<br>Stripe |
|------|---------|------------------------------|---------------------------------------|------------------------------------|-------------------------|
| CS-  | C-1000  | 1000 454                     | 1.00 25                               | 1000 454                           | Black                   |
|      | C-1350  | 1350 612                     | 1.00 25                               | 1350 612                           | Yellow                  |
|      | C-1750  | 1750 794                     | 1.00 25                               | 1750 794                           | Black                   |
|      | C-2100  | 2100 953                     | 1.00 25                               | 2100 953                           | Yellow*                 |
|      | C-2385  | 2385 1082                    | 1.00 25                               | 2385 1082                          | Yellow**                |
|      | C-2650  | 2650 1202                    | 1.00 25                               | 2650 1202                          | Red*                    |
|      | C-2935  | 2935 1331                    | 1.00 25                               | 2935 1331                          | Red**                   |
|      | D-3500  | 3500 1588                    | 1.00 25                               | 3500 1588                          | Black*                  |
|      | D-4200  | 4200 1905                    | 1.00 25                               | 4200 1905                          | Yellow*                 |
|      | D-4770  | 4770 2164                    | 1.00 25                               | 4770 2164                          | Yellow**                |
| CSI- | D-5300  | 5300 2404                    | 1.00 25                               | 5300 2404                          | Red*                    |
|      | D-5870  | 5870 2663                    | 1.00 25                               | 5870 2663                          | Red**                   |
|      | E-7000  | 7000 3175                    | 1.00 25                               | 7000 3175                          | Black*                  |
|      | E-8400  | 8400 3810                    | 1.00 25                               | 8400 3810                          | Yellow*                 |
|      | E-9540  | 9540 4327                    | 1.00 25                               | 9540 4327                          | Yellow**                |
|      | E-10600 | 10600 4808                   | 1.00 25                               | 10600 4808                         | Red*                    |
|      | E-11740 | 11740 5325                   | 1.00 25                               | 11740 5325                         | Red**                   |
|      | F-12600 | 12600 5715                   | 1.00 25                               | 12600 5715                         | Yellow*                 |
|      | F-14310 | 14310 6491                   | 1.00 25                               | 14310 6491                         | Yellow**                |
|      | F-15900 | 15900 7212                   | 1.00 25                               | 15900 7212                         | Red*                    |
| CSI- | F-17610 | 17610 7988                   | 1.00 25                               | 17610 7988                         | Red**                   |
|      | G-18900 | 18900 8573                   | 1.00 25                               | 18900 8573                         | Yellow*                 |
|      | G-21465 | 21465 9736                   | 1.00 25                               | 21465 9736                         | Yellow**                |
|      | H-25200 | 25200 11431                  | 1.00 25                               | 25200 11431                        | Yellow*                 |
|      | H-28620 | 28620 12982                  | 1.00 25                               | 28620 12982                        | Yellow**                |
|      | H-31800 | 31800 14424                  | 1.00 25                               | 31800 14424                        | Red*                    |
|      | H-35220 | 35220 15975                  | 1.00 25                               | 35220 15975                        | Red**                   |

TYPE 2" 50mm DEFL. CS & CSI RATINGS (in/mm)

| Type | Size                    | Rated Capacity<br>(lbs) (kg) | Rated Defl. <sup>†</sup><br>(in) (mm) | Mount Constant<br>(lbs/in) (kg/mm) | Spring Color/<br>Stripe |
|------|-------------------------|------------------------------|---------------------------------------|------------------------------------|-------------------------|
| CS-  | C2-125                  | 125 57                       | 2.50 64                               | 50 23                              | Purple                  |
|      | C2-170                  | 170 77                       | 2.40 61                               | 70 32                              | Brown                   |
|      | C2-210                  | 210 95                       | 2.30 58                               | 90 41                              | Red                     |
|      | C2-260                  | 260 118                      | 2.20 56                               | 120 55                             | White                   |
|      | C2-330                  | 330 150                      | 2.00 51                               | 165 75                             | Black                   |
|      | C2-460                  | 460 209                      | 2.00 51                               | 230 104                            | Blue                    |
|      | C2-610                  | 610 277                      | 2.00 51                               | 305 138                            | Green                   |
|      | C2-880 <sup>‡</sup>     | 880 399                      | 2.00 51                               | 440 200                            | Gray                    |
|      | C2-1210 <sup>‡</sup>    | 1210 549                     | 2.00 51                               | 605 274                            | Silver                  |
|      | C2-1540 <sup>‡</sup>    | 1540 698                     | 2.00 51                               | 770 349                            | Gray*                   |
| CSI- | C2-1870 <sup>‡</sup>    | 1870 848                     | 2.00 51                               | 935 424                            | Silver*                 |
|      | D-C2-2420 <sup>‡</sup>  | 2420 1098                    | 2.00 51                               | 1210 549                           | Silver                  |
|      | D-C2-3080 <sup>‡</sup>  | 3080 1397                    | 2.00 51                               | 1540 699                           | Gray*                   |
|      | D-C2-3740 <sup>‡</sup>  | 3740 1696                    | 2.00 51                               | 1870 848                           | Silver*                 |
|      | E-C2-3520 <sup>‡</sup>  | 3520 1597                    | 2.00 51                               | 1260 572                           | Gray                    |
|      | E-C2-4840 <sup>‡</sup>  | 4840 2195                    | 2.00 51                               | 2420 1098                          | Silver                  |
|      | E-C2-6160 <sup>‡</sup>  | 6160 2794                    | 2.00 51                               | 3080 1397                          | Gray*                   |
|      | E-C2-7480 <sup>‡</sup>  | 7480 3393                    | 2.00 51                               | 3740 1696                          | Silver*                 |
|      | F-C2-9240 <sup>‡</sup>  | 9240 4191                    | 2.00 51                               | 4620 2096                          | Gray*                   |
|      | F-C2-11220 <sup>‡</sup> | 11220 5089                   | 2.00 51                               | 5610 2545                          | Silver*                 |
| CSI- | G-C2-13860 <sup>‡</sup> | 13860 6287                   | 2.00 51                               | 6930 3143                          | Gray*                   |
|      | G-C2-16830 <sup>‡</sup> | 16830 7634                   | 2.00 51                               | 8415 3817                          | Silver*                 |
|      | H-C2-18480 <sup>‡</sup> | 18480 8382                   | 2.00 51                               | 9240 4191                          | Gray*                   |
|      | H-C2-22440 <sup>‡</sup> | 22440 10179                  | 2.00 51                               | 11220 5089                         | Silver*                 |

All springs without "†" have additional travel to solid equal to 50% of the rated deflection.

\*with RED core spring

<sup>‡</sup>Published ratings allow minimum 25% additional travel to solid. For a full 50% specified minimum use the ratings table on page 3.



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