
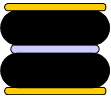


## GEOMETRIC CHARACTERISTICS



|   | ØMax | Øe   | Stroke | Height H (mm) |        |      | Load (daN) at 6 bar |          |        | nf * | Stiffness* | Weight |
|---|------|------|--------|---------------|--------|------|---------------------|----------|--------|------|------------|--------|
|   | (mm) | (mm) |        | min.          | design | Max. | H.min.              | H.design | H.Max. |      |            |        |
| <b>2"<sup>3</sup>/<sub>4</sub>x1</b><br>Composite | 80   | 95   | 20     | 50            | 60     | 70   | 260                 | 173      | 92     | 4.60 | 133.7      | 0.22   |
| <b>2"<sup>3</sup>/<sub>4</sub>x1</b><br>Aluminium | 80   | 95   | 20     | 50            | 60     | 70   | 260                 | 173      | 92     | 4.60 | 133.7      | 0.35   |
| <b>4"<sup>1</sup>/<sub>2</sub>x1</b><br>Aluminium | 125  | 140  | 40     | 50            | 70     | 90   | 550                 | 355      | 140    | 3.71 | 184.9      | 0.75   |
| <b>6"x1</b><br>Composite                          | 175  | 190  | 55     | 55            | 80     | 110  | 1140                | 755      | 330    | 3.33 | 272.2      | 0.95   |
| <b>6"x1</b>                                       | 175  | 190  | 55     | 55            | 80     | 110  | 1140                | 755      | 330    | 3.33 | 272.2      | 1.9    |
| <b>6"x1</b>                                       | 175  | 190  | 55     | 50            | 75     | 105  | 1095                | 710      | 290    | 3.30 | 249.0      | 2.2    |
| <b>8"x1</b>                                       | 230  | 245  | 80     | 50            | 90     | 130  | 1860                | 1275     | 535    | 2.77 | 342.1      | 3.0    |
| <b>S.8"x1</b>                                     | 225  | 240  | 95     | 60            | 105    | 155  | 1630                | 1210     | 460    | 2.47 | 265.3      | 1.8    |
| <b>S.9"<sup>1</sup>/<sub>4</sub>x1</b>            | 255  | 275  | 105    | 55            | 105    | 160  | 1960                | 1560     | 825    | 2.17 | 281.4      | 2.3    |
| <b>10"x1</b>                                      | 280  | 300  | 100    | 50            | 100    | 150  | 2645                | 1960     | 900    | 2.46 | 385        | 3.9    |
| <b>12"x1</b>                                      | 330  | 350  | 100    | 50            | 100    | 150  | 3885                | 2975     | 1510   | 2.44 | 588        | 5.4    |
| <b>S.12"x1</b>                                    | 335  | 360  | 105    | 60            | 110    | 165  | 3900                | 2950     | 1385   | 2.26 | 530        | 3.9    |
| <b>14"<sup>1</sup>/<sub>2</sub>x1</b>             | 395  | 425  | 125    | 50            | 110    | 175  | 5760                | 4555     | 2155   | 2.22 | 784        | 7.1    |



|   | ØMax | Øe   | Stroke | Height H (mm) |        |      | Load (daN) at 6 bar |          |        | nf * | Stiffness* | Weight |
|---|------|------|--------|---------------|--------|------|---------------------|----------|--------|------|------------|--------|
|   | (mm) | (mm) |        | min.          | design | Max. | H.min.              | H.design | H.Max. |      |            |        |
| <b>2"<sup>3</sup>/<sub>4</sub>x2</b><br>Composite | 80   | 95   | 45     | 65            | 90     | 110  | 213                 | 139      | 54     | 3.60 | 72.5       | 0.26   |
| <b>2"<sup>3</sup>/<sub>4</sub>x2</b><br>Aluminium | 80   | 95   | 45     | 65            | 90     | 110  | 213                 | 139      | 54     | 3.60 | 72.5       | 0.40   |
| <b>4"<sup>1</sup>/<sub>2</sub>x2</b><br>Aluminium | 125  | 140  | 85     | 65            | 100    | 150  | 575                 | 400      | 170    | 2.62 | 71.4       | 0.95   |
| <b>6"x2</b><br>Composite                          | 175  | 190  | 115    | 80            | 140    | 195  | 1060                | 685      | 340    | 2.25 | 114.0      | 1.3    |
| <b>6"x2</b><br>Aluminium                          | 175  | 190  | 115    | 80            | 140    | 195  | 1060                | 685      | 340    | 2.25 | 114.0      | 2.2    |
| <b>6"x2</b>                                       | 175  | 190  | 115    | 75            | 140    | 190  | 1040                | 635      | 320    | 2.25 | 116.9      | 2.6    |
| <b>8"x2</b>                                       | 220  | 245  | 175    | 75            | 160    | 250  | 1765                | 1140     | 445    | 1.95 | 128.1      | 3.7    |
| <b>S.8"x2</b>                                     | 220  | 240  | 185    | 80            | 175    | 265  | 1650                | 1050     | 395    | 1.89 | 125.1      | 2.5    |
| <b>9"<sup>1</sup>/<sub>4</sub>x2</b>              | 255  | 270  | 205    | 75            | 160    | 280  | 2315                | 1730     | 745    | 1.72 | 150.4      | 5.5    |
| <b>S.9"<sup>1</sup>/<sub>4</sub>x2 NB</b>         | 255  | 275  | 220    | 80            | 175    | 300  | 2015                | 1380     | 490    | 1.65 | 120.6      | 2.8    |
| <b>S.9"<sup>1</sup>/<sub>4</sub>x2 ANB</b>        | 265  | 285  | 290    | 80            | 260    | 370  | 2790                | 1475     | 705    | 1.51 | 118        | 3.1    |
| <b>10"x2</b>                                      | 270  | 300  | 225    | 75            | 170    | 300  | 2635                | 1900     | 645    | 1.75 | 178.8      | 4.9    |


\* : Value for recommended height for better isolation at pressure 6 bar

ØMax : Maximum diameter  
 Øe : Overall diameter  
 nf : Natural frequency


H.min : minimum height  
 H.design : Design height  
 H.Max : maximum height

S.xxxxxx : crimped version

## GEOMETRIC CHARACTERISTICS



|                   | $\varnothing$ Max | $\varnothing$ e | Stroke | Height H (mm) |        |      | Load (daN) at 6 bar |          |        | nf * | Stiffness* | Weight |
|-------------------|-------------------|-----------------|--------|---------------|--------|------|---------------------|----------|--------|------|------------|--------|
|                   | (mm)              | (mm)            | (mm)   | min.          | design | Max. | H.min.              | H.design | H.Max. | (Hz) | (daN/mm)   | (kg)   |
| <b>12"x2</b>      | 325               | 350             | 225    | 75            | 170    | 300  | 3850                | 2910     | 855    | 1.78 | 285        | 6.7    |
| <b>S.12"x2</b>    | 325               | 350             | 215    | 85            | 190    | 300  | 3580                | 2800     | 1175   | 1.68 | 276        | 5.3    |
| <b>12"x2 NB</b>   | 325               | 350             | 225    | 75            | 170    | 300  | 3905                | 2905     | 930    | 1.76 | 277        | 6.2    |
| <b>S.12"x2ANB</b> | 345               | 370             | 265    | 80            | 270    | 345  | 4310                | 2060     | 975    | 1.59 | 243        | 5.0    |
| <b>12"x2 ANB</b>  | 345               | 370             | 325    | 75            | 270    | 400  | 4590                | 2790     | 1295   | 1.45 | 205        | 6.9    |
| <b>14"½x2</b>     | 400               | 425             | 265    | 75            | 200    | 340  | 6195                | 4445     | 1690   | 1.61 | 373        | 8.9    |
| <b>14"½x2 Re</b>  | 390               | 425             | 230    | 90            | 200    | 320  | 5585                | 4025     | 1680   | 1.66 | 370        | 9.4    |
| <b>16"x2</b>      | 440               | 460             | 315    | 75            | 200    | 390  | 6525                | 5195     | 2020   | 1.44 | 323        | 9.5    |
| <b>16"x2 Re</b>   | 430               | 460             | 300    | 90            | 200    | 390  | 6255                | 5040     | 1745   | 1.48 | 339        | 10.1   |
| <b>21"½x2</b>     | 580               | 630             | 280    | 90            | 200    | 370  | 14150               | 11690    | 5345   | 1.50 | 756        | 21.0   |
| <b>26"x2</b>      | 700               | 750             | 410    | 90            | 200    | 500  | 20370               | 17335    | 8445   | 1.23 | 792        | 23.7   |



|                          | $\varnothing$ Max | $\varnothing$ e | Stroke | Height H (mm) |        |      | Load (daN) at 6 bar |          |        | nf * | Stiffness* | Weight |
|--------------------------|-------------------|-----------------|--------|---------------|--------|------|---------------------|----------|--------|------|------------|--------|
|                          | (mm)              | (mm)            | (mm)   | min.          | design | Max. | H.min.              | H.design | H.Max. | (Hz) | (daN/mm)   | (kg)   |
| <b>2"³/4x3 Composite</b> | 80                | 95              | 60     | 80            | 110    | 140  | 230                 | 157      | 70     | 3.12 | 50.7       | 0.3    |
| <b>2"³/4x3 Aluminium</b> | 80                | 95              | 60     | 80            | 110    | 140  | 230                 | 157      | 70     | 3.12 | 50.7       | 0.5    |
| <b>4"½x3 Aluminium</b>   | 125               | 140             | 100    | 100           | 145    | 200  | 535                 | 375      | 230    | 1.96 | 36.8       | 1.2    |
| <b>6"x3 Aluminium</b>    | 175               | 190             | 190    | 100           | 190    | 290  | 1055                | 725      | 295    | 1.85 | 77.3       | 2.6    |
| <b>6"x3</b>              | 175               | 190             | 190    | 95            | 190    | 285  | 1045                | 690      | 280    | 1.85 | 75.5       | 2.8    |
| <b>8"x3</b>              | 215               | 240             | 250    | 100           | 230    | 350  | 1740                | 1075     | 465    | 1.60 | 85.1       | 4.4    |
| <b>10"x3</b>             | 270               | 300             | 330    | 100           | 250    | 430  | 2660                | 1770     | 645    | 1.43 | 110        | 5.9    |
| <b>10"x3 Re</b>          | 270               | 300             | 300    | 120           | 250    | 420  | 2585                | 1740     | 685    | 1.46 | 107        | 6.3    |
| <b>12"x3</b>             | 325               | 350             | 330    | 100           | 250    | 430  | 4060                | 2930     | 1090   | 1.44 | 189        | 8.1    |
| <b>S.12"x3</b>           | 325               | 350             | 345    | 120           | 265    | 465  | 3810                | 2700     | 660    | 1.42 | 178        | 7.0    |
| <b>12"x3 NB</b>          | 335               | 360             | 335    | 100           | 250    | 450  | 4165                | 2950     | 985    | 1.41 | 178        | 7.5    |
| <b>12"x3 Re</b>          | 325               | 350             | 300    | 120           | 250    | 420  | 4145                | 3065     | 1130   | 1.48 | 273        | 8.6    |
| <b>12"x3ReNB</b>         | 325               | 350             | 320    | 120           | 250    | 440  | 3885                | 2860     | 855    | 1.48 | 187        | 7.6    |
| <b>S.12"x3RNB</b>        | 325               | 350             | 315    | 105           | 265    | 420  | 3825                | 2505     | 955    | 1.44 | 174        | 7.0    |
| <b>14"½x3</b>            | 400               | 425             | 380    | 100           | 290    | 480  | 6255                | 4320     | 1920   | 1.31 | 233        | 10.5   |
| <b>14"½x3 Re</b>         | 390               | 420             | 330    | 120           | 290    | 450  | 5715                | 4090     | 1940   | 1.37 | 254        | 11.4   |
| <b>16"x3 Re</b>          | 425               | 450             | 430    | 120           | 290    | 550  | 6495                | 5145     | 1905   | 1.24 | 244        | 12.5   |

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