

### Boiler Tube Expanders P-3000 Series

We are offering **Boiler Tube Expanders P-3000 Series 1"- 4 1/2" O.D.**



| Tube O.D. | Tube Thickness |             | Tube O.D. | Tube Thickness |             | Minimum I.D. Tool Enters |       | Maximum Expansion of Tool |       | Tube Expander Model Number Tube Sheet Thickness Range |                |
|-----------|----------------|-------------|-----------|----------------|-------------|--------------------------|-------|---------------------------|-------|---|----------------|
|           | inch           | bwg         |           | inch           | bwg         | inch                     | mm    | inch                      | mm    | inch  | 1/2" To 4.3/8" |
| 1.1/4     | 16             | .065        | 1.3/8     | 10             | .134        | 26.8                     | 1.055 | 33.0                      | 1.299 | P3111/7   | -              |
| 1.1/2     | 10 - 12        | .134 - .109 | 1.3/8     | 13 - 16        | .095 - .065 | 29.7                     | 1.169 | 35.0                      | 1.378 | P3118/7   | -              |
| 1.1/2     | 13 - 16        | .095 - .065 | 1.3/4     | 5 - 7          | .220 - .180 | 31.7                     | 1.248 | 38.0                      | 1.496 | P3126/7   | -              |
| 2         | 3              | .259        | 1.3/4     | 8 & 9          | .165 & .148 | 33.7                     | 1.326 | 40.0                      | 1.575 | P3134/7   | P3134/11       |
| 2         | 4 & 5          | .238 & .220 | 1.3/4     | 10 - 12        | .134 - .109 | 35.7                     | 1.405 | 42.5                      | 1.673 | P3142/7   | P3142/11       |
| 2         | 6              | .203        | 1.3/4     | 13 - 16        | .095 - .065 | 37.7                     | 1.484 | 44.5                      | 1.752 | P3150/7   | P3150/11       |
| 2         | 7 - 9          | .180 - .148 | 2.1/4     | 3              | .259        | 39.7                     | 1.562 | 47.0                      | 1.850 | P3158/7   | P3158/11       |
| 2         | 10 - 12        | .134 - .109 | 2.1/4     | 4 & 5          | .238 & .220 | 41.7                     | 1.641 | 49.0                      | 1.929 | P3166/7   | P3166/11       |
| 2         | 13 - 15        | .095 - .072 | 2.1/4     | 6 & 7          | .203 & .180 | 43.7                     | 1.720 | 51.5                      | 2.027 | P3174/7   | P3174/11       |
| 2         | 16             | .065        | 2.1/4     | 8 & 9          | .165 & .148 | 45.7                     | 1.799 | 54.0                      | 2.126 | P3181/7   | P3181/11       |
| 2.1/2     | 4 & 5          | .238 - .220 | 2.1/4     | 10 - 13        | .134 - .095 | 47.7                     | 1.877 | 65.0                      | 2.205 | P3189/7   | P3189/11       |
| 2.1/2     | 6              | .203        | 2.1/4     | 14 - 6         | .083 - .065 | 49.7                     | 1.956 | 60.0                      | 2.362 | P3197/7   | P3197/11       |
| 2.1/2     | 7 - 10         | .180 - .134 | 2.3/4     | 3              | .259        | 51.7                     | 2.035 | 62.0                      | 2.441 | P3205/7   | P3205/11       |
| 2.1/2     | 11 - 13        | .120 - .095 | 2.3/4     | 4 & 5          | .238 & .220 | 53.7                     | 2.114 | 64.0                      | 2.520 | P3213/7   | P3213/11       |
| 2.1/2     | 14 - 16        | .083 - .065 | 2.3/4     | 6              | .203        | 55.7                     | 2.192 | 66.0                      | 2.598 | P3221/7   | P3221/11       |
| 3         | 2 & 3          | .284 & .259 | 2.3/4     | 7 - 9          | .203 - .148 | 57.7                     | 2.271 | 68.0                      | 2.677 | P3229/7   | P3229/11       |
| 3         | 4              | .238        | 2.3/4     | 10 - 12        | .134 - .109 | 59.7                     | 2.350 | 70.0                      | 2.756 | P3237/7   | P3237/11       |
| 3         | 5 & 6          | .220 - .203 | 2.3/4     | 13 - 16        | .095 - .065 | 61.7                     | 2.429 | 72.0                      | 2.835 | P3244/7   | P3244/11       |
| 3         | 7 - 9          | .180 - .148 | 3.1/4     | 2 & 3          | .284 & .259 | 63.7                     | 2.507 | 74.0                      | 2.913 | P3252/7   | P3252/11       |
| 3         | 10 - 12        | .134 - .109 | 3.1/4     | 4              | .238        | 65.7                     | 2.586 | 76.0                      | 2.992 | P3260/7   | P3260/11       |
| 3         | 13 - 14        | .095 - .083 | 3.1/4     | 5              | .220        | 67.7                     | 2.665 | 78.0                      | 3.071 | P3268/7   | P3268/11       |
| 3         | 15 & 16        | .072 & .065 | 3.1/4     | 6              | .203        | 69.7                     | 2.744 | 80.0                      | 3.150 | P3276/7   | P3276/11       |
| 3.1/2     | 3 & 4          | .284 & .238 | 3.1/4     | 7 - 11         | .203 - .120 | 71.7                     | 2.822 | 82.0                      | 3.228 | P3284/7   | P3284/11       |
| 3.1/2     | 5 & 6          | .220 & .203 | 3.1/4     | 12 - 14        | .109 - .083 | 73.7                     | 2.901 | 84.0                      | 3.307 | P3292/7   | P3292/11       |
| 3.1/2     | 7 - 9          | .180 - .148 | 3.1/8     | 15 & 16        | .072 & .065 | 75.7                     | 2.980 | 86.0                      | 3.386 | P3300/7   | P3300/11       |
| 3.1/2     | 10 - 12        | .134 - .109 | 3.1/4     | 3 & 4          | .284 & .238 | 77.7                     | 3.059 | 88.0                      | 3.465 | P3308/7   | P3308/11       |
| 3.1/2     | 13 - 15        | .095 - .072 | 3.3/4     | 5 & 6          | .220 & .203 | 79.7                     | 3.137 | 92.0                      | 3.622 | P3315/7   | P3315/11       |
| 3.1/2     | 16             | .065        | 3.3/4     | 7 & 8          | .203 & .165 | 81.7                     | 3.216 | 94.0                      | 3.701 | P3323/7   | P3323/11       |
| 4         | 3 & 4          | .284 & .238 | 3.3/4     | 9 - 12         | .148 - .109 | 83.7                     | 3.295 | 96.0                      | 3.780 | P3331/7   | P3331/11       |
| 4         | 5 & 6          | .220 & .203 | 3.3/4     | 13 - 16        | .095 - .065 | 85.7                     | 3.374 | 98.0                      | 3.858 | P3339/7   | P3339/11       |
| 4         | 7 & 8          | .180 & .165 | 4.1/4     | 2              | .284        | 87.7                     | 3.452 | 100.0                     | 3.937 | P3347/7   | P3347/11       |
| 4         | 9 - 12         | .148 - .109 | 4.1/4     | 3 & 4          | .284 & .238 | 89.7                     | 3.531 | 102.0                     | 4.016 | P3355/7   | P3355/11       |
| 4         | 13 - 15        | .095 - .072 | 4.1/4     | 5 & 6          | .220 & .203 | 91.7                     | 3.610 | 104.0                     | 4.094 | P3363/7   | P3363/11       |
| 4         | 16             | .065        | 4.1/4     | 7 & 8          | .203 & .165 | 93.7                     | 3.688 | 106.0                     | 4.173 | P3370/7   | P3370/11       |
| 4.1/2     | 3              | .284        | 4.1/4     | 9 - 11         | .148 - .120 | 95.7                     | 3.767 | 108.0                     | 4.252 | P3378/7   | P3378/11       |
| 4.1/2     | 4 - 6          | .238 - .203 | 4.1/4     | 12 - 16        | .109 - .065 | 97.7                     | 3.846 | 110.0                     | 4.331 | P3386/7   | P3386/11       |
| 4.1/2     | 7 - 14         | .180 - .083 | -         | -              | -           | 99.7                     | 3.925 | 111.0                     | 4.407 | P3394/7   | P3394/11       |