

(OUTSIDE DIAMETER X CENTERLINE RADIUS)

**BENDING DIE LIST** 01/14/2016

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|                |                |                           |                            |                            |                            |                           |                             |
|----------------|----------------|---------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-----------------------------|
| <b>1/8 OD</b>  | 1-3/4          | 2-1/2                     | <b>13/16<sup>OD</sup></b>  | 1-3/4                      | 3                          |                           | <b>4-1/2<sup>OD</sup></b>   |
| 3/16           | 1-7/8          | 2-5/8                     | 2                          | 1-7/8                      | 3-1/4                      |                           | <b>(4" PIPE)</b>            |
| 1/4            | 1-15/16        | 2-7/8                     | <b>7/8 OD</b>              | 2                          | 3-1/2                      | <b>2-1/2<sup>OD</sup></b> | 4-1/2                       |
| 3/8            | 2              | 3                         | 1                          | 2-1/4                      | 3-3/4                      | 2-1/2                     | 4-1/2                       |
| 1/2            | 2-1/4          | 3-1/2                     | 1-1/4                      | 2-1/2                      | 4                          | 2-3/4                     | 5-1/2                       |
| 7/8            | 2-5/8          | 3-7/8                     | 1-3/8                      | 2-3/4                      | 4-3/8                      | 3                         | 6-3/4                       |
|                | 3              | 4-1/2                     | 1-1/2                      | 3-1/2                      | 4-1/2                      | 3-1/2                     | 9                           |
|                | 4              | 5.625                     | 1-9/16                     | 3-5/8                      | 5                          | 3-3/4                     | 17 (90 °)                   |
| <b>3/16 OD</b> |                | 5-3/4                     | 1-5/8                      | 3-3/4                      | 5-1/2                      | 4                         |                             |
| 1/4            | <b>3/8 OD</b>  | 8-1/2                     | 1-3/4                      | 4                          | 6                          | 5                         | <b>5 OD</b>                 |
| 5/16           | 3/8            |                           | 2                          | 4-3/8                      | 6-3/8                      | 5-7/8                     | 5-1/4                       |
| 3/8            | 7/16           | <b>9/16 OD</b>            | 2 1/4                      | 4-5/8                      | 7                          | 6                         | 6                           |
| 25/64          | 29/64          | 3/4                       | 2-1/2                      | 5                          | 8-1/2                      | 7-1/2                     | 7-1/2                       |
| 7/16           | 15/32          | 1                         | 2-21/32                    | 6                          | 12                         | 12                        | 8                           |
| 1/2            | 1/2            | 1-1/4                     | 2-3/4                      | 7                          |                            |                           | 10                          |
| 9/16           | 9/16           | 1-3/8                     | 3                          | 7-3/4                      | <b>1-7/8<sup>OD</sup></b>  | <b>2-3/4<sup>OD</sup></b> | <b>5-1/2<sup>OD</sup></b>   |
| 19/32          | 5/8            | 1-1/2                     | 3-1/2                      |                            | 1-7/8                      | 3                         | 5-1/2                       |
| 5/8            | 23/32          | 2                         | 4                          | <b>1-5/16<sup>OD</sup></b> | 2-1/2                      | 4                         | 10                          |
| 21/32          | 3/4            | 3                         | 5                          | <b>(1" PIPE)</b>           | 3                          | 5-1/2                     | 11                          |
| 3/4            | 7/8            |                           | 5-1/2                      | 1 11/16                    | 4                          | 6                         |                             |
| 29/32          | 15/16          | <b>5/8 OD</b>             |                            | 1-3/4                      |                            | 7                         | <b>6 OD</b>                 |
| 1              | 1              | 5/8                       | <b>1 OD</b>                | 2                          | <b>1.90 OD</b>             | 9-1/4                     | 6                           |
| 1-3/32         | 1-1/8          | 11/16                     | 1                          | 2-1/4                      | <b>(1 1/2 PIPE)</b>        | 17-1/8                    | 9                           |
| 1-3/8          | 1-3/16         | 3/4                       | 1 3/16                     | 3-1/2                      | 2                          |                           | 10                          |
| 1-27/64        | 1-1/4          | 7/8                       | 1-1/4                      | 5                          | 2-1/4                      | <b>2-7/8<sup>OD</sup></b> | 12                          |
| 2-1/2          | 1-3/8          | 15/16                     | 1-1/2                      |                            |                            | <b>(2 1/2 PIPE)</b>       |                             |
| 2-3/4          | 1-13/32        | 1                         | 1-3/4                      | <b>1-3/8<sup>OD</sup></b>  | <b>2 OD</b>                | 3-1/2                     |                             |
| 3-1/8          | 1-1/2          | 1-3/16                    | 1-7/8                      | 1-1/2                      | 2                          | 6                         | <b>7 OD</b>                 |
|                | 1-5/8          | 1-1/4                     | 2                          | 2-1/2                      | 2-1/4                      | 7-1/2                     | 7                           |
|                | 1-3/4          | 1- 1/2                    | 2-1/4                      | 3                          | 2-1/2                      | .                         |                             |
| <b>1/4 OD</b>  | 2              | 1- 3/4                    | 2-1/2                      | 3                          | 3                          | <b>3 OD</b>               | <b>Metric</b>               |
| 1/4            | 2-1/4          | 1- 7/8                    | 2-7/8                      | 3-5/8                      | 3-1/2                      | 3                         | 42 MM                       |
| 5/16           | 2-3/8          | 1-15/16                   | 3                          | 4                          | 3-3/4                      | 3-1/8                     | <b>(1.653<sup>OD</sup>)</b> |
| 3/8            | 2-13/16        | 2                         | 3-1/2                      |                            | 3-7/8                      | 3-1/2                     | 4-1/2                       |
| 7/16           | 2-7/8          | 2-1/4                     | 4                          | <b>1.40 OD</b>             | 4                          | 4                         |                             |
| 1/2            | 2 15/16        | 2-1/2                     | 4-1/4                      | 2-1/4                      | 4-1/2                      | 4-1/4                     | <b>Square</b>               |
| 17/32          | 3              | 2-5/8                     | 5                          |                            | 4-3/4                      | 4-1/2                     | <b>Tools</b>                |
| 9/16           | 3 3/8          | 2-3/4                     | 6                          | <b>1-1/2<sup>OD</sup></b>  | 5                          | 5                         | <b>1" X 1"</b>              |
| 19/32          | 4              | 3                         |                            | 1-1/2                      | 6                          | 6                         | 3                           |
| 5/8            |                | 3-1/2                     | <b>1.05 OD</b>             | 1-5/8                      | 7                          | 7                         | 4                           |
| 43/64          |                | 3-13/16                   | <b>(3/4 PIPE)</b>          | 1-3/4                      | 7-1/2                      | 8                         | <b>2.5 x2.5</b>             |
| 3/4            | <b>7/16 OD</b> | 3-3/4                     | 1.05 -160°                 | 2                          | 8                          | 9                         | 6                           |
| 25/32          | 9/16           | 4-1/2                     | 1-1/4 -160°                | 2-1/4                      | 9                          |                           | <b>5" X 5"</b>              |
| 7/8            | 3/4            | 6-1/4                     | 1-5/8                      | 2-3/8                      | 10-1/4                     | <b>3-1/8<sup>OD</sup></b> | 15-1/2                      |
| 15/16          | 27/32          | 6-5/8                     | 2                          | 2-1/2                      | 14                         | 4-1/2                     |                             |
| 1              | 7/8            | 7-3/16                    | 2-1/8                      | 3                          |                            | 6                         | <b>Roll</b>                 |
| 1-1/16         | 1              |                           | 2-1/2                      | 3-1/2                      | <b>2-1/16<sup>OD</sup></b> |                           | <b>Bending</b>              |
| 1-1/8          | 1-3/8          |                           | 3                          | 4                          | 2-3/4                      | <b>3-1/4<sup>OD</sup></b> | <b>(Tube)</b>               |
| 1-7/32         | 1-1/2          | <b>11/16<sup>OD</sup></b> |                            | 4-1/2                      |                            | 3-1/2                     | 3/8                         |
| 1-3/8          | 1-5/8          | 1                         | <b>1-1/16<sup>OD</sup></b> | 4-7/8                      | <b>2-1/8<sup>OD</sup></b>  | 6-1/2                     | 1/2                         |
| 1-1/2          | 1-3/4          | 1-1/4                     | 1-1/8                      | 5                          | 2-1/2                      | 10                        | 5/8                         |
| 1-9/16         | 1-15/16        | 1-7/8                     | 1-1/2                      | 5-3/4                      | 3 (165°)                   |                           | 3/4                         |
| 1-5/8          | 2              | 2                         | 1-3/4                      | 7                          | 4                          | <b>3-1/2<sup>OD</sup></b> | 7/8                         |
| 1-3/4          | 2-1/4          |                           | 3                          |                            | 5                          | <b>(3" PIPE)</b>          | 1                           |
| 1-13/16        | 2-1/2          | <b>3/4 OD</b>             |                            | <b>1-5/8<sup>OD</sup></b>  | 5-1/4                      | 3-1/2                     | 1-1/4                       |
| 1-7/8          | 2-5/8          | 3/4                       |                            | 1-5/8                      | 6                          | 3-3/4                     | 1-1/2                       |
| 2              | 3-1/4          | 1                         | <b>1-1/8<sup>OD</sup></b>  | 1-15/16                    |                            | 4                         | 2                           |
| 2-1/2          | 3-1/2          | 1-1/8                     | 1-1/4                      | 2                          | <b>2-1/4<sup>OD</sup></b>  | 4-1/2                     |                             |
| 2-3/4          |                | 1-1/4                     | 1-1/2                      | 3-1/2                      | 2-1/4                      | 4-3/4                     | <b>Roll</b>                 |
| 3              | <b>1/2 OD</b>  | 1-5/8                     | 1-5/8                      | 4                          | 2-1/2                      | 5-1/4                     | <b>Bending</b>              |
| 3-1/2          | 5/8            | 1-3/4                     | 1-7/8                      | 5-3/4                      | 2-3/4                      | 7                         | <b>(Pipe)</b>               |
|                | 3/4            | 1-7/8                     | 2                          |                            | 3                          | 8                         | 1 sch                       |
|                | 13/16          | 2                         | 1-7/8                      | <b>1-5/8<sup>OD</sup></b>  | 3-1/2                      |                           | 1-1/4 sch                   |
|                | 7/8            | 2-1/4                     | 2                          | 1-5/8                      | 4                          | <b>3-3/4<sup>OD</sup></b> |                             |
|                | 1              | 2-1/2                     | 2-1/4                      | 1-3/4                      | 4-1/2                      | 3-3/4                     |                             |
|                | 1-1/16         | 2-1/2                     | 2-1/2                      | 2                          | 4-1/2                      | 6                         | <b>Blue =</b>               |
|                | 1-1/8          | 2-5/8                     | 2-1/2                      | 3                          | 5-1/4                      | 12                        | Capable                     |
|                | 1-3/16         | 2-3/4                     | 3                          | 3-1/4                      | 6                          |                           | 180 Deg                     |
|                | 0.607          | 2 7/8                     | 3 15/16                    | 3-1/2                      | 8                          |                           |                             |
|                | 5/8            | 3                         | 4                          | 4-1/2                      | 8-3/4                      | <b>4 OD</b>               |                             |
|                | 3/4            | 3-1/16                    |                            |                            |                            | <b>(3 1/2 PIPE)</b>       |                             |
|                | 1-5/16         | 3-1/4                     | <b>1-5/32<sup>OD</sup></b> | 5                          |                            | 4                         |                             |
|                | 13/16          | 3-3/4                     | 3-3/8                      | 6                          | <b>2-3/8<sup>OD</sup></b>  | 4-1/2                     |                             |
|                | 7/8            | 4                         |                            | 8                          | <b>(2" PIPE)</b>           | 4-3/4                     |                             |
|                | 1              | 4-3/8                     | <b>1-3/16<sup>OD</sup></b> |                            | 2-1/2                      | 6                         |                             |
|                | 1-1/2          | 4-7/8                     | 2-1/2                      | <b>1-3/4<sup>OD</sup></b>  | 3                          | 8                         |                             |
|                | 1-5/8          | 5-5/8                     |                            | 1-3/4                      | 3-1/2                      | 9                         |                             |
|                | 1              | 7                         | <b>1-1/4<sup>OD</sup></b>  | 1-7/8                      | 4-3/4                      | 10                        |                             |
|                | 1-5/64         |                           | 1-1/4                      | 2-1/2                      | 6                          |                           |                             |
|                | 1-1/8          |                           | 1-1/2                      | 2-5/8                      | 7                          |                           |                             |
|                | 1-1/4          |                           |                            |                            |                            |                           |                             |
|                | 1-7/16         |                           |                            |                            |                            |                           |                             |
|                | 1-1/2          |                           |                            |                            |                            |                           |                             |
|                | 1-5/8          |                           |                            |                            |                            |                           |                             |