



# TECHNICAL DATA VENTING

## 2.1 DECIMAL EQUIVALENTS OF FRACTIONS

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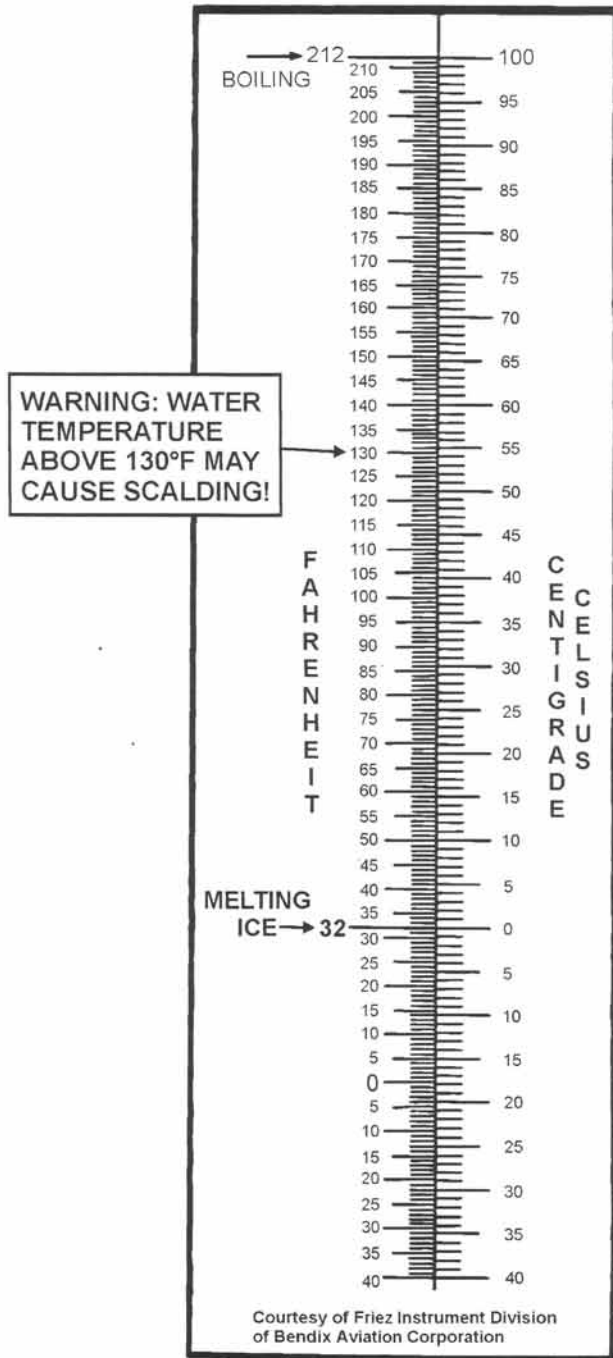
|       |         |       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|-------|---------|
| 1-64  | .015625 | 17-64 | .265625 | 33-64 | .515625 | 49-64 | .765625 |
| 1-32  | .03125  | 9-32  | .28125  | 17-32 | .53125  | 25-32 | .78125  |
| 3-64  | .046875 | 19-64 | .296875 | 35-64 | .546875 | 51-64 | .796875 |
| 1-16  | .0625   | 5-16  | .3125   | 9-16  | .5625   | 13-16 | .8125   |
| 5-64  | .078125 | 21-64 | .328125 | 37-64 | .578125 | 53-64 | .828125 |
| 3-32  | .09375  | 11-32 | .34375  | 19-32 | .59375  | 27-32 | .84375  |
| 7-64  | .109375 | 23-64 | .359375 | 39-64 | .609375 | 55-64 | .859375 |
| 1-8   | .125    | 3-8   | .375    | 5-8   | .625    | 7-8   | .875    |
| 9-64  | .140625 | 25-64 | .390625 | 41-64 | .640625 | 57-64 | .890625 |
| 5-32  | .15625  | 13-32 | .40625  | 21-32 | .65625  | 29-32 | .90625  |
| 11-64 | .171875 | 27-64 | .421875 | 43-64 | .671875 | 59-64 | .921875 |
| 3-16  | .1875   | 7-16  | .4375   | 11-16 | .6875   | 15-16 | .9375   |
| 13-64 | .203125 | 29-64 | .453125 | 45-64 | .703125 | 61-64 | .953125 |
| 7-32  | .21875  | 15-32 | .46875  | 23-32 | .71875  | 31-32 | .96875  |
| 15-64 | .234375 | 31-64 | .484375 | 47-64 | .734375 | 63-64 | .984375 |
| 1-4   | .25     | 1-2   | .50     | 3-4   | .75     | 1     | 1       |

The above table on decimal equivalents is very important and serves as a short cut when figuring closely and time is limited.

## 2.2 DRILL SIZES BY NUMBER AND LETTER

| Designation | Diam. In. | Designation | Diam. In. | Designation | Diam. In. |
|-------------|-----------|-------------|-----------|-------------|-----------|
| 1/2         | 0.5000    | 3           | 0.213     | 3/32        | 0.0938    |
| 31/64       | 0.4844    | 4           | 0.209     | 42          | 0.0935    |
| 15/32       | 0.4688    | 5           | 0.2055    | 43          | 0.0890    |
| 29/64       | 0.4531    | 6           | 0.204     | 44          | 0.0860    |
| 7/16        | 0.4375    | 13/54       | 0.2031    | 45          | 0.0820    |
| 27/64       | 0.4219    | 7           | 0.201     | 46          | 0.0810    |
| Z           | 0.413     | 8           | 0.199     | 47          | 0.0785    |
| 13/32       | 0.4063    | 9           | 0.196     | 5/64        | 0.0781    |
| Y           | 0.404     | 10          | 0.1935    | 48          | 0.0760    |
| X           | 0.397     | 11          | 0.191     | 49          | 0.0730    |
| 25/64       | 0.3906    | 12          | 0.189     | 50          | 0.0700    |
| W           | 0.386     | 3/16        | 0.1875    | 51          | 0.0670    |
| V           | 0.377     | 13          | 0.185     | 52          | 0.0635    |
| 3/8         | 0.375     | 14          | 0.182     | 1/16        | 0.0625    |
| U           | 0.368     | 15          | 0.1800    | 53          | 0.0595    |
| 23/64       | 0.3594    | 16          | 0.1770    | 54          | 0.0550    |
| T           | 0.358     | 17          | 0.1730    | 55          | 0.0520    |
| S           | 0.348     | 11/64       | 0.1719    | 3/64        | 0.0473    |
| 11/32       | 0.3438    | 18          | 0.1695    | 56          | 0.0465    |
| R           | 0.339     | 19          | 0.1660    | 57          | 0.0430    |
| Q           | 0.332     | 20          | 0.1610    | 58          | 0.0420    |
| 21/64       | 0.3281    | 21          | 0.1590    | 59          | 0.0410    |
| P           | 0.323     | 22          | 0.1570    | 60          | 0.0400    |
| O           | 0.316     |             | 0.1563    | 61          | 0.039     |
| 5/16        | 0.3125    | 23          | 0.1540    | 62          | 0.038     |
| N           | 0.302     | 24          | 0.1520    | 63          | 0.037     |
| 19/64       | 0.2969    | 25          | 0.1495    | 64          | 0.036     |
| M           | 0.295     | 26          | 0.1470    | 65          | 0.035     |
| L           | 0.29      | 27          | 0.1440    | 66          | 0.033     |
| 9/32        | 0.2813    | 9/64        | 0.1406    | 67          | 0.032     |
| K           | 0.281     | 28          | 0.1405    | 1/32        | 0.0313    |
| J           | 0.277     | 29          | 0.1360    | 68          | 0.031     |
| I           | 0.272     | 30          | 0.1285    | 69          | 0.0292    |
| H           | 0.266     | 1/8         | 0.1250    | 70          | 0.028     |
| 17/64       | 0.2656    | 31          | 0.1200    | 71          | 0.026     |
| G           | 0.261     | 32          | 0.1160    | 72          | 0.025     |
| F           | 0.257     | 33          | 0.1130    | 73          | 0.024     |
| E 1/4       | 0.2500    | 34          | 0.1110    | 74          | 0.0225    |
| D           | 0.246     | 35          | 0.1100    | 75          | 0.021     |
| C           | 0.242     | 7/64        | 0.1094    | 76          | 0.020     |
| B           | 0.238     | 36          | 0.1065    | 77          | 0.018     |
| 15/64       | 0.2344    | 37          | 0.1040    | 78          | 0.016     |
| A           | 0.234     | 38          | 0.1015    | 1/64        | 0.0156    |
| 1           | 0.228     | 39          | 0.0995    | 79          | 0.0145    |
| 2           | 0.221     | 40          | 0.0980    | 80          | 0.0135    |
| 7/32        | 0.2188    | 41          | 0.0960    |             |           |

## 2.3 TEMPERATURE



## 2.4 TEMPERATURE OF SATURATED STEAM AT GAGE PRESSURES

| Gage Pressure | Temp. °F | Gage Pressure | Temp. °F |
|---------------|----------|---------------|----------|
| 0 lbs.        | 212      | 75            | 320      |
| 2             | 219      | 100           | 338      |
| 5             | 227      | 125           | 353      |
| 10            | 239      | 150           | 366      |
| 15            | 250      | 175           | 377      |
| 25            | 267      | 200           | 388      |
| 35            | 280      | 250           | 406      |
| 50            | 298      | 300           | 422      |