



## Limitations

Respect the bending radius and work pressure established values.

## Regulations

The fiber glass covered with neoprene used to manufacture this product is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS).

## Applications

These hoses are specially recommended in gas conduction at medium temperatures, engine exhaust fume extraction, electronic units cooling and welding gas aspiration

## Properties

- This reference could be manufacture with cuffed ends.
- Excellent flexibility and aging resistance
- Operational temperature range from -55°C (-67 F) to +125°C (257 F), it may reach up to 150°C (302 F) during short periods of time.
- The standard manufacturing length is 4 meters long (13.12 ft.), but in specific diameters a length of 6 meters (19.69 ft) can be manufactured.

## Construction

The Vena® MTD is manufactured with two fibber glass textile reinforcements covered with Neoprene rubber compound in black colour and coated with steel wire sandwiched between the two Neoprene layers.

The Vena® MT is manufactured with one fibber glass textile reinforcement covered with Neoprene rubber compound in black colour and coated with steel wire visible inside.

## Technical Specifications

For the MTD reference:

| Inner Diameter |         | Wall thickness    |   | Working Pressure<br>ISO 1402/2009 |                | Bursting Pressure<br>ISO 1402/2009 |                | Vacuum Resistance<br>ISO 7233/2006 |                | Bending Radius<br>ISO 1746/2000 |      |
|----------------|---------|-------------------|---|-----------------------------------|----------------|------------------------------------|----------------|------------------------------------|----------------|---------------------------------|------|
| mm             | inch    | +0.04/-0.02<br>mm | +1.57x10 <sup>-3</sup> /<br>-7.87x10 <sup>-4</sup> inch | Bar at<br>20°C                    | Psi at<br>68 F | Bar at<br>20°C                     | Psi at<br>68 F | Bar at<br>20°C                     | Psi at<br>68 F | mm                              | inch |
| 25             | 1       | 2.16              | 0.085   | 2.27                              | 32.87          | 6.80                               | 98.60          | 0.66                               | 9.60           | 38                              | 1.49 |
| 26             | 1 1/64  | 2.16              | 0.085   | 2.25                              | 32.56          | 6.74                               | 97.69          | 0.66                               | 9.50           | 39                              | 1.55 |
| 27             | 1 1/16  | 2.16              | 0.085   | 2.22                              | 32.26          | 6.67                               | 96.78          | 0.65                               | 9.41           | 41                              | 1.61 |
| 28             | 1 7/64  | 2.16              | 0.085   | 2.20                              | 31.96          | 6.61                               | 95.89          | 0.64                               | 9.32           | 42                              | 1.67 |
| 29             | 1 1/8   | 2.16              | 0.085   | 2.19                              | 31.78          | 6.58                               | 95.35          | 0.64                               | 9.26           | 43                              | 1.70 |
| 30             | 1 3/16  | 2.16              | 0.085   | 2.16                              | 31.37          | 6.49                               | 94.12          | 0.63                               | 9.13           | 45                              | 1.79 |
| 32             | 1 17/64 | 2.16              | 0.085   | 2.12                              | 30.80          | 6.37                               | 92.39          | 0.62                               | 8.95           | 48                              | 1.90 |
| 34             | 1 11/32 | 2.16              | 0.085   | 2.08                              | 30.23          | 6.25                               | 90.68          | 0.61                               | 8.77           | 51                              | 2.02 |
| 35             | 1 3/8   | 2.16              | 0.085   | 2.07                              | 29.95          | 6.20                               | 89.84          | 0.60                               | 8.69           | 53                              | 2.08 |
| 38             | 1 1/2   | 2.16              | 0.085   | 2.01                              | 29.12          | 6.03                               | 87.37          | 0.58                               | 8.43           | 57                              | 2.26 |
| 39             | 1 35/64 | 2.16              | 0.085   | 1.99                              | 28.85          | 5.97                               | 86.56          | 0.58                               | 8.34           | 59                              | 2.32 |
| 40             | 1 37/64 | 2.16              | 0.085   | 1.97                              | 28.59          | 5.91                               | 85.76          | 0.57                               | 8.26           | 60                              | 2.38 |
| 42             | 1 21/32 | 2.16              | 0.085   | 1.94                              | 28.06          | 5.81                               | 84.18          | 0.56                               | 8.10           | 63                              | 2.50 |
| 43             | 1 11/16 | 2.16              | 0.085   | 1.92                              | 27.80          | 5.75                               | 83.40          | 0.55                               | 8.02           | 65                              | 2.56 |
| 44             | 1 47/64 | 2.16              | 0.085   | 1.90                              | 27.54          | 5.70                               | 82.63          | 0.55                               | 7.94           | 66                              | 2.62 |
| 45             | 1 49/64 | 2.16              | 0.085   | 1.88                              | 27.29          | 5.65                               | 81.87          | 0.54                               | 7.86           | 68                              | 2.68 |
| 46             | 1 13/16 | 2.16              | 0.085   | 1.86                              | 27.04          | 5.59                               | 81.11          | 0.54                               | 7.78           | 69                              | 2.74 |
| 47             | 1 55/64 | 2.16              | 0.085   | 1.85                              | 26.79          | 5.54                               | 80.36          | 0.53                               | 7.70           | 71                              | 2.79 |
| 48             | 1 57/64 | 2.16              | 0.085   | 1.83                              | 26.54          | 5.49                               | 79.61          | 0.53                               | 7.63           | 72                              | 2.85 |
| 50             | 1 31/32 | 2.16              | 0.085   | 1.80                              | 26.05          | 5.39                               | 78.15          | 0.52                               | 7.48           | 75                              | 2.97 |
| 51             | 2 1/64  | 2.16              | 0.085   | 1.78                              | 25.81          | 5.34                               | 77.42          | 0.51                               | 7.40           | 77                              | 3.03 |
| 52             | 2 3/64  | 2.16              | 0.085   | 1.76                              | 25.57          | 5.29                               | 76.71          | 0.51                               | 7.33           | 79                              | 3.09 |
| 53             | 2 3/32  | 2.16              | 0.085   | 1.75                              | 25.33          | 5.24                               | 76.00          | 0.50                               | 7.25           | 80                              | 3.15 |
| 54             | 2 1/8   | 2.16              | 0.085   | 1.73                              | 25.10          | 5.19                               | 75.29          | 0.50                               | 7.18           | 82                              | 3.21 |
| 55             | 2 11/64 | 2.16              | 0.085   | 1.71                              | 24.87          | 5.14                               | 74.60          | 0.49                               | 7.11           | 83                              | 3.27 |
| 56             | 2 13/64 | 2.16              | 0.085   | 1.70                              | 24.64          | 5.10                               | 73.91          | 0.49                               | 7.04           | 85                              | 3.33 |
| 57             | 2 15/64 | 2.16              | 0.085   | 1.68                              | 24.41          | 5.05                               | 73.22          | 0.48                               | 6.97           | 86                              | 3.39 |
| 59             | 2 21/64 | 2.16              | 0.085   | 1.65                              | 23.96          | 4.96                               | 71.87          | 0.47                               | 6.83           | 89                              | 3.51 |
| 60             | 2 23/64 | 2.16              | 0.085   | 1.64                              | 23.74          | 4.91                               | 71.21          | 0.47                               | 6.76           | 91                              | 3.57 |
| 62             | 2 7/16  | 2.16              | 0.085   | 1.61                              | 23.30          | 4.82                               | 69.89          | 0.46                               | 6.63           | 94                              | 3.68 |
| 63             | 2 31/64 | 2.50              | 0.098   | 1.59                              | 23.08          | 4.78                               | 69.25          | 0.45                               | 6.56           | 95                              | 3.74 |
| 64             | 2 1/2   | 2.50              | 0.098   | 1.58                              | 22.98          | 4.75                               | 68.93          | 0.45                               | 6.53           | 96                              | 3.77 |
| 65             | 2 9/16  | 2.50              | 0.098   | 1.56                              | 22.66          | 4.69                               | 67.97          | 0.44                               | 6.43           | 98                              | 3.86 |
| 69             | 2 23/32 | 2.50              | 0.098   | 1.51                              | 21.83          | 4.52                               | 65.49          | 0.43                               | 6.18           | 104                             | 4.10 |
| 70             | 2 49/64 | 2.50              | 0.098   | 1.49                              | 21.63          | 4.47                               | 64.88          | 0.42                               | 6.12           | 106                             | 4.16 |
| 73             | 2 7/8   | 2.50              | 0.098   | 1.45                              | 21.03          | 4.35                               | 63.10          | 0.41                               | 5.94           | 110                             | 4.34 |
| 75             | 2 61/64 | 2.50              | 0.098   | 1.42                              | 20.64          | 4.27                               | 61.93          | 0.40                               | 5.82           | 113                             | 4.46 |

| Inner Diameter |             | Wall thickness         |  | Working Pressure<br>ISO 1402/2009 |                    | Bursting Pressure<br>ISO 1402/2009 |                    | Vacuum Resistance<br>ISO 7233/2006 |                    | Bending Radius<br>ISO 1746/2000 |             |
|----------------|-------------|------------------------|--|-----------------------------------|--------------------|------------------------------------|--------------------|------------------------------------|--------------------|---------------------------------|-------------|
| <i>mm</i>      | <i>inch</i> | <i>+0.04/ -0.02 mm</i> | <i>+1.57x10<sup>-3</sup>/<br/>-7.87x10<sup>-4</sup> inch</i> | <i>Bar at 20°C</i>                | <i>Psi at 68 F</i> | <i>Bar at 20°C</i>                 | <i>Psi at 68 F</i> | <i>Bar at 20°C</i>                 | <i>Psi at 68 F</i> | <i>mm</i>                       | <i>inch</i> |
| 76             | 3           | 2.50                   | 0.098  | 1.41                              | 20.45              | 4.23                               | 61.36              | 0.40                               | 5.76               | 115                             | 4.51        |
| 80             | 3 5/32      | 2.80                   | 0.110  | 1.36                              | 19.71              | 4.08                               | 59.12              | 0.38                               | 5.54               | 121                             | 4.75        |
| 83             | 3 17/64     | 2.80                   | 0.110  | 1.32                              | 19.16              | 3.97                               | 57.49              | 0.37                               | 5.37               | 125                             | 4.93        |
| 85             | 3 23/64     | 2.80                   | 0.110  | 1.30                              | 18.81              | 3.89                               | 56.43              | 0.36                               | 5.27               | 128                             | 5.05        |
| 87             | 3 7/16      | 2.80                   | 0.110  | 1.27                              | 18.46              | 3.82                               | 55.39              | 0.36                               | 5.16               | 131                             | 5.17        |
| 90             | 3 35/64     | 2.80                   | 0.110  | 1.24                              | 17.96              | 3.72                               | 53.87              | 0.35                               | 5.01               | 136                             | 5.35        |
| 95             | 3 47/64     | 2.80                   | 0.110  | 1.18                              | 17.14              | 3.55                               | 51.42              | 0.33                               | 4.77               | 143                             | 5.64        |
| 100            | 3 15/16     | 2.80                   | 0.110  | 1.13                              | 16.36              | 3.39                               | 49.09              | 0.31                               | 4.53               | 151                             | 5.94        |
| 101            | 4           | 2.80                   | 0.110  | 1.12                              | 16.21              | 3.35                               | 48.63              | 0.31                               | 4.49               | 152                             | 6.00        |
| 102            | 4 1/64      | 2.80                   | 0.110  | 1.11                              | 16.06              | 3.32                               | 48.18              | 0.31                               | 4.44               | 154                             | 6.06        |
| 105            | 4 1/8       | 2.80                   | 0.110  | 1.08                              | 15.62              | 3.23                               | 46.86              | 0.30                               | 4.31               | 158                             | 6.24        |
| 110            | 4 21/64     | 2.80                   | 0.110  | 1.03                              | 14.91              | 3.08                               | 44.73              | 0.28                               | 4.10               | 166                             | 6.53        |
| 114            | 4 1/2       | 2.80                   | 0.110  | 0.99                              | 14.32              | 2.96                               | 42.97              | 0.27                               | 3.93               | 172                             | 6.79        |
| 115            | 4 17/32     | 2.80                   | 0.110  | 0.98                              | 14.23              | 2.94                               | 42.70              | 0.27                               | 3.90               | 173                             | 6.83        |
| 120            | 4 23/32     | 2.80                   | 0.110  | 0.94                              | 13.59              | 2.81                               | 40.76              | 0.26                               | 3.71               | 181                             | 7.13        |
| 127            | 5           | 2.80                   | 0.110  | 0.88                              | 12.73              | 2.63                               | 38.19              | 0.24                               | 3.46               | 192                             | 7.54        |
| 130            | 5 1/8       | 2.80                   | 0.110  | 0.85                              | 12.38              | 2.56                               | 37.14              | 0.23                               | 3.36               | 196                             | 7.72        |
| 134            | 5 9/32      | 2.80                   | 0.110  | 0.82                              | 11.93              | 2.47                               | 35.78              | 0.22                               | 3.23               | 202                             | 7.96        |
| 140            | 5 1/2       | 2.80                   | 0.110  | 0.78                              | 11.28              | 2.33                               | 33.84              | 0.21                               | 3.04               | 211                             | 8.31        |
| 150            | 5 29/32     | 2.80                   | 0.110  | 0.71                              | 10.28              | 2.13                               | 30.83              | 0.19                               | 2.75               | 226                             | 8.91        |
| 152            | 6           | 2.80                   | 0.110  | 0.69                              | 10.05              | 2.08                               | 30.15              | 0.19                               | 2.68               | 230                             | 9.05        |
| 160            | 6 19/64     | 3.00                   | 0.118  | 0.65                              | 9.36               | 1.94                               | 28.09              | 0.17                               | 2.49               | 241                             | 9.50        |
| 170            | 6 11/16     | 3.00                   | 0.118  | 0.59                              | 8.53               | 1.77                               | 25.60              | 0.16                               | 2.25               | 256                             | 10.09       |
| 180            | 7 3/32      | 3.00                   | 0.118  | 0.54                              | 7.78               | 1.61                               | 23.33              | 0.14                               | 2.04               | 271                             | 10.69       |
| 200            | 7 7/8       | 3.00                   | 0.118  | 0.45                              | 6.46               | 1.34                               | 19.37              | 0.12                               | 1.67               | 302                             | 11.87       |
| 203            | 8           | 3.00                   | 0.118  | 0.43                              | 6.28               | 1.30                               | 18.83              | 0.11                               | 1.62               | 306                             | 12.05       |
| 220            | 8 21/32     | 3.00                   | 0.118  | 0.37                              | 5.36               | 1.11                               | 16.08              | 0.09                               | 1.37               | 332                             | 13.06       |
| 250            | 9 27/32     | 3.00                   | 0.118  | 0.28                              | 4.06               | 0.84                               | 12.17              | 0.07                               | 1.01               | 377                             | 14.84       |
| 254            | 10          | 3.00                   | 0.118  | 0.27                              | 3.91               | 0.81                               | 11.72              | 0.07                               | 0.97               | 383                             | 15.08       |
| 300            | 11 13/16    | 3.00                   | 0.118  | 0.18                              | 2.55               | 0.53                               | 7.64               | 0.04                               | 0.61               | 452                             | 17.81       |

# Technical Datasheet

Vena® MTD  
Vena® MT

Ref: DO 03.10 FT 059. Rev. 07  
Date: 20/06/2017

For the MT reference:

| Inner Diameter |         | Wall thickness     |   | Working Pressure<br>ISO 1402/2009 |                | Bursting Pressure<br>ISO 1402/2009 |                | Vacuum Resistance<br>ISO 7233/2006 |                | Bending Radius<br>ISO 1746/2000 |      |
|----------------|---------|--------------------|---|-----------------------------------|----------------|------------------------------------|----------------|------------------------------------|----------------|---------------------------------|------|
| mm             | inch    | +0.04/ -0.02<br>mm | +1.57x10 <sup>-3</sup> /<br>-7.87x10 <sup>-4</sup> inch | Bar at<br>20°C                    | Psi at<br>68 F | Bar at<br>20°C                     | Psi at<br>68 F | Bar at<br>20°C                     | Psi at<br>68 F | mm                              | inch |
| 25             | 1       | 1.56               | 0.061   | 1,76                              | 25,53          | 5,28                               | 76,59          | 0,54                               | 7,77           | 34,47                           | 1,36 |
| 26             | 1 1/64  | 1.56               | 0.061   | 1,75                              | 25,31          | 5,24                               | 75,94          | 0,53                               | 7,69           | 35,81                           | 1,41 |
| 27             | 1 1/16  | 1.56               | 0.061   | 1,73                              | 25,10          | 5,19                               | 75,31          | 0,52                               | 7,60           | 37,14                           | 1,46 |
| 28             | 1 7/64  | 1.56               | 0.061   | 1,72                              | 24,89          | 5,15                               | 74,68          | 0,52                               | 7,52           | 38,48                           | 1,51 |
| 29             | 1 1/8   | 1.56               | 0.061   | 1,71                              | 24,77          | 5,12                               | 74,30          | 0,52                               | 7,47           | 39,28                           | 1,55 |
| 30             | 1 3/16  | 1.56               | 0.061   | 1,69                              | 24,48          | 5,06                               | 73,44          | 0,51                               | 7,36           | 41,15                           | 1,62 |
| 32             | 1 17/64 | 1.56               | 0.061   | 1,66                              | 24,07          | 4,98                               | 72,21          | 0,50                               | 7,21           | 43,82                           | 1,73 |
| 34             | 1 11/32 | 1.56               | 0.061   | 1,63                              | 23,67          | 4,90                               | 71,01          | 0,49                               | 7,05           | 46,49                           | 1,83 |
| 35             | 1 3/8   | 1.56               | 0.061   | 1,62                              | 23,47          | 4,86                               | 70,42          | 0,48                               | 6,98           | 47,83                           | 1,88 |
| 38             | 1 1/2   | 1.56               | 0.061   | 1,58                              | 22,89          | 4,74                               | 68,66          | 0,47                               | 6,76           | 51,84                           | 2,04 |
| 39             | 1 35/64 | 1.56               | 0.061   | 1,57                              | 22,70          | 4,70                               | 68,09          | 0,46                               | 6,69           | 53,17                           | 2,09 |
| 40             | 1 37/64 | 1.56               | 0.061   | 1,55                              | 22,51          | 4,66                               | 67,52          | 0,46                               | 6,62           | 54,51                           | 2,15 |
| 42             | 1 21/32 | 1.56               | 0.061   | 1,53                              | 22,13          | 4,58                               | 66,39          | 0,45                               | 6,48           | 57,18                           | 2,25 |
| 43             | 1 11/16 | 1.56               | 0.061   | 1,51                              | 21,95          | 4,54                               | 65,84          | 0,44                               | 6,41           | 58,52                           | 2,30 |
| 44             | 1 47/64 | 1.56               | 0.061   | 1,50                              | 21,76          | 4,50                               | 65,29          | 0,44                               | 6,34           | 59,85                           | 2,36 |
| 45             | 1 49/64 | 1.56               | 0.061   | 1,49                              | 21,58          | 4,46                               | 64,74          | 0,43                               | 6,27           | 61,19                           | 2,41 |
| 46             | 1 13/16 | 1.56               | 0.061   | 1,48                              | 21,40          | 4,43                               | 64,20          | 0,43                               | 6,20           | 62,53                           | 2,46 |
| 47             | 1 55/64 | 1.56               | 0.061   | 1,46                              | 21,22          | 4,39                               | 63,66          | 0,42                               | 6,14           | 63,86                           | 2,51 |
| 48             | 1 57/64 | 1.56               | 0.061   | 1,45                              | 21,04          | 4,35                               | 63,13          | 0,42                               | 6,07           | 65,20                           | 2,57 |
| 50             | 1 31/32 | 1.56               | 0.061   | 1,43                              | 20,69          | 4,28                               | 62,08          | 0,41                               | 5,94           | 67,87                           | 2,67 |
| 51             | 2 1/64  | 1.56               | 0.061   | 1,42                              | 20,52          | 4,25                               | 61,56          | 0,41                               | 5,88           | 69,21                           | 2,72 |
| 52             | 2 3/64  | 1.56               | 0.061   | 1,40                              | 20,35          | 4,21                               | 61,04          | 0,40                               | 5,82           | 70,54                           | 2,78 |
| 53             | 2 3/32  | 1.56               | 0.061   | 1,39                              | 20,18          | 4,17                               | 60,53          | 0,40                               | 5,76           | 71,88                           | 2,83 |
| 54             | 2 1/8   | 1.56               | 0.061   | 1,38                              | 20,01          | 4,14                               | 60,03          | 0,39                               | 5,70           | 73,21                           | 2,88 |
| 55             | 2 11/64 | 1.56               | 0.061   | 1,37                              | 19,84          | 4,11                               | 59,53          | 0,39                               | 5,63           | 74,55                           | 2,94 |
| 56             | 2 13/64 | 1.56               | 0.061   | 1,36                              | 19,68          | 4,07                               | 59,03          | 0,38                               | 5,57           | 75,89                           | 2,99 |
| 57             | 2 15/64 | 1.56               | 0.061   | 1,35                              | 19,51          | 4,04                               | 58,53          | 0,38                               | 5,52           | 77,22                           | 3,04 |
| 59             | 2 21/64 | 1.56               | 0.061   | 1,32                              | 19,19          | 3,97                               | 57,56          | 0,37                               | 5,40           | 79,89                           | 3,15 |
| 60             | 2 23/64 | 1.56               | 0.061   | 1,31                              | 19,03          | 3,94                               | 57,08          | 0,37                               | 5,34           | 81,23                           | 3,20 |
| 62             | 2 7/16  | 1.56               | 0.061   | 1,29                              | 18,71          | 3,87                               | 56,13          | 0,36                               | 5,23           | 83,90                           | 3,30 |
| 63             | 2 31/64 | 1.90               | 0.075   | 1,28                              | 18,55          | 3,84                               | 55,66          | 0,36                               | 5,17           | 85,24                           | 3,36 |
| 64             | 2 1/2   | 1.90               | 0.075   | 1,27                              | 18,47          | 3,82                               | 55,42          | 0,35                               | 5,14           | 85,91                           | 3,38 |
| 65             | 2 9/16  | 1.90               | 0.075   | 1,26                              | 18,24          | 3,77                               | 54,73          | 0,35                               | 5,06           | 87,91                           | 3,46 |
| 69             | 2 23/32 | 1.90               | 0.075   | 1,22                              | 17,64          | 3,65                               | 52,92          | 0,33                               | 4,85           | 93,25                           | 3,67 |
| 70             | 2 49/64 | 1.90               | 0.075   | 1,21                              | 17,49          | 3,62                               | 52,48          | 0,33                               | 4,80           | 94,59                           | 3,72 |
| 73             | 2 7/8   | 1.90               | 0.075   | 1,18                              | 17,06          | 3,53                               | 51,17          | 0,32                               | 4,65           | 98,60                           | 3,88 |
| 75             | 2 61/64 | 1.90               | 0.075   | 1,16                              | 16,77          | 3,47                               | 50,32          | 0,31                               | 4,55           | 101,27                          | 3,99 |

| Inner Diameter |             | Wall thickness         |  | Working Pressure<br>ISO 1402/2009 |                    | Bursting Pressure<br>ISO 1402/2009 |                    | Vacuum Resistance<br>ISO 7233/2006 |                    | Bending Radius<br>ISO 1746/2000 |             |
|----------------|-------------|------------------------|--|-----------------------------------|--------------------|------------------------------------|--------------------|------------------------------------|--------------------|---------------------------------|-------------|
| <i>mm</i>      | <i>inch</i> | <i>+0.04/ -0.02 mm</i> | <i>+1.57x10<sup>-3</sup>/<br/>-7.87x10<sup>-4</sup> inch</i> | <i>Bar at 20°C</i>                | <i>Psi at 68 F</i> | <i>Bar at 20°C</i>                 | <i>Psi at 68 F</i> | <i>Bar at 20°C</i>                 | <i>Psi at 68 F</i> | <i>mm</i>                       | <i>inch</i> |
| 76             | 3           | 1.90                   | 0.075  | 1,15                              | 16,63              | 3,44                               | 49,90              | 0,31                               | 4,50               | 102,61                          | 4,04        |
| 80             | 3 5/32      | 1.90                   | 0.075  | 1,11                              | 16,08              | 3,33                               | 48,25              | 0,30                               | 4,31               | 107,95                          | 4,25        |
| 83             | 3 17/64     | 1.90                   | 0.075  | 1,08                              | 15,68              | 3,24                               | 47,05              | 0,29                               | 4,18               | 111,96                          | 4,41        |
| 85             | 3 23/64     | 2.20                   | 0.087  | 1,06                              | 15,42              | 3,19                               | 46,27              | 0,28                               | 4,09               | 114,63                          | 4,51        |
| 87             | 3 7/16      | 2.20                   | 0.087  | 1,05                              | 15,17              | 3,14                               | 45,50              | 0,28                               | 4,00               | 117,30                          | 4,62        |
| 90             | 3 35/64     | 2.20                   | 0.087  | 1,02                              | 14,79              | 3,06                               | 44,36              | 0,27                               | 3,87               | 121,31                          | 4,78        |
| 95             | 3 47/64     | 2.20                   | 0.087  | 0,98                              | 14,18              | 2,93                               | 42,54              | 0,25                               | 3,67               | 127,99                          | 5,04        |
| 100            | 3 15/16     | 2.20                   | 0.087  | 0,94                              | 13,60              | 2,81                               | 40,79              | 0,24                               | 3,48               | 134,67                          | 5,30        |
| 101            | 4           | 2.20                   | 0.087  | 0,93                              | 13,48              | 2,79                               | 40,45              | 0,24                               | 3,44               | 136,01                          | 5,35        |
| 102            | 4 1/64      | 2.20                   | 0.087  | 0,92                              | 13,37              | 2,77                               | 40,11              | 0,24                               | 3,41               | 137,34                          | 5,41        |
| 105            | 4 1/8       | 2.20                   | 0.087  | 0,90                              | 13,04              | 2,70                               | 39,11              | 0,23                               | 3,30               | 141,35                          | 5,56        |
| 110            | 4 21/64     | 2.20                   | 0.087  | 0,86                              | 12,50              | 2,59                               | 37,50              | 0,22                               | 3,13               | 148,03                          | 5,83        |
| 114            | 4 1/2       | 2.20                   | 0.087  | 0,83                              | 12,06              | 2,49                               | 36,17              | 0,21                               | 2,99               | 153,77                          | 6,05        |
| 115            | 4 17/32     | 2.20                   | 0.087  | 0,83                              | 11,99              | 2,48                               | 35,96              | 0,20                               | 2,97               | 154,71                          | 6,09        |
| 120            | 4 23/32     | 2.20                   | 0.087  | 0,79                              | 11,49              | 2,38                               | 34,48              | 0,19                               | 2,81               | 161,39                          | 6,35        |
| 127            | 5           | 2.20                   | 0.087  | 0,75                              | 10,84              | 2,24                               | 32,51              | 0,18                               | 2,61               | 170,74                          | 6,72        |
| 130            | 5 1/8       | 2.20                   | 0.087  | 0,73                              | 10,57              | 2,19                               | 31,70              | 0,17                               | 2,53               | 174,75                          | 6,88        |
| 134            | 5 9/32      | 2.20                   | 0.087  | 0,70                              | 10,22              | 2,11                               | 30,66              | 0,17                               | 2,42               | 180,09                          | 7,09        |
| 140            | 5 1/2       | 2.20                   | 0.087  | 0,67                              | 9,72               | 2,01                               | 29,15              | 0,16                               | 2,27               | 188,11                          | 7,41        |
| 150            | 5 29/32     | 2.20                   | 0.087  | 0,62                              | 8,93               | 1,85                               | 26,80              | 0,14                               | 2,04               | 201,47                          | 7,93        |
| 152            | 6           | 2.20                   | 0.087  | 0,60                              | 8,76               | 1,81                               | 26,27              | 0,14                               | 1,99               | 204,68                          | 8,06        |
| 160            | 6 19/64     | 2.40                   | 0.094  | 0,57                              | 8,21               | 1,70                               | 24,64              | 0,13                               | 1,83               | 214,83                          | 8,46        |
| 170            | 6 11/16     | 2.40                   | 0.094  | 0,52                              | 7,55               | 1,56                               | 22,66              | 0,11                               | 1,65               | 228,19                          | 8,98        |
| 180            | 7 3/32      | 2.40                   | 0.094  | 0,48                              | 6,94               | 1,44                               | 20,83              | 0,10                               | 1,48               | 241,55                          | 9,51        |
| 200            | 7 7/8       | 2.40                   | 0.094  | 0,40                              | 5,87               | 1,21                               | 17,61              | 0,08                               | 1,19               | 268,27                          | 10,56       |
| 203            | 8           | 2.40                   | 0.094  | 0,39                              | 5,72               | 1,18                               | 17,17              | 0,08                               | 1,16               | 272,28                          | 10,72       |
| 220            | 8 21/32     | 2.40                   | 0.094  | 0,34                              | 4,96               | 1,03                               | 14,89              | 0,07                               | 0,96               | 294,99                          | 11,61       |
| 250            | 9 27/32     | 2.40                   | 0.094  | 0,27                              | 3,86               | 0,80                               | 11,57              | 0,05                               | 0,70               | 335,07                          | 13,19       |
| 254            | 10          | 2.40                   | 0.094  | 0,26                              | 3,73               | 0,77                               | 11,19              | 0,05                               | 0,67               | 340,41                          | 13,40       |
| 300            | 11 13/16    | 2.40                   | 0.094  | 0,17                              | 2,53               | 0,52                               | 7,60               | 0,03                               | 0,41               | 401,87                          | 15,82       |