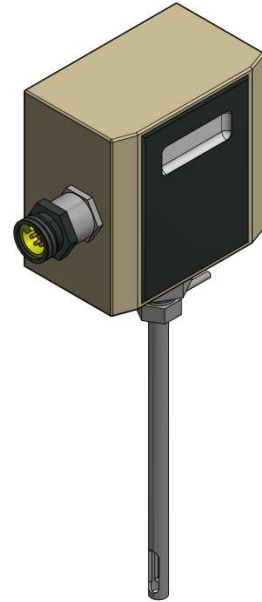


## FLMTR Series

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### FLMTR-0.75-6.0KIT Natural Gas Flow Meter Kit



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### Product Information

The Natural Gas Flow Meter Kit measures and displays the instantaneous flow of natural gas in standard cubic feet per hour (SCFH).

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### Recommended Installation Tools

1. PTFE tape
  2. Tape measure
  3. 1" open end wrench or 8" crescent wrench
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## Components Supplied

Figure 1 shows all of the components that are supplied with the Natural Gas Flow Meter Kit.



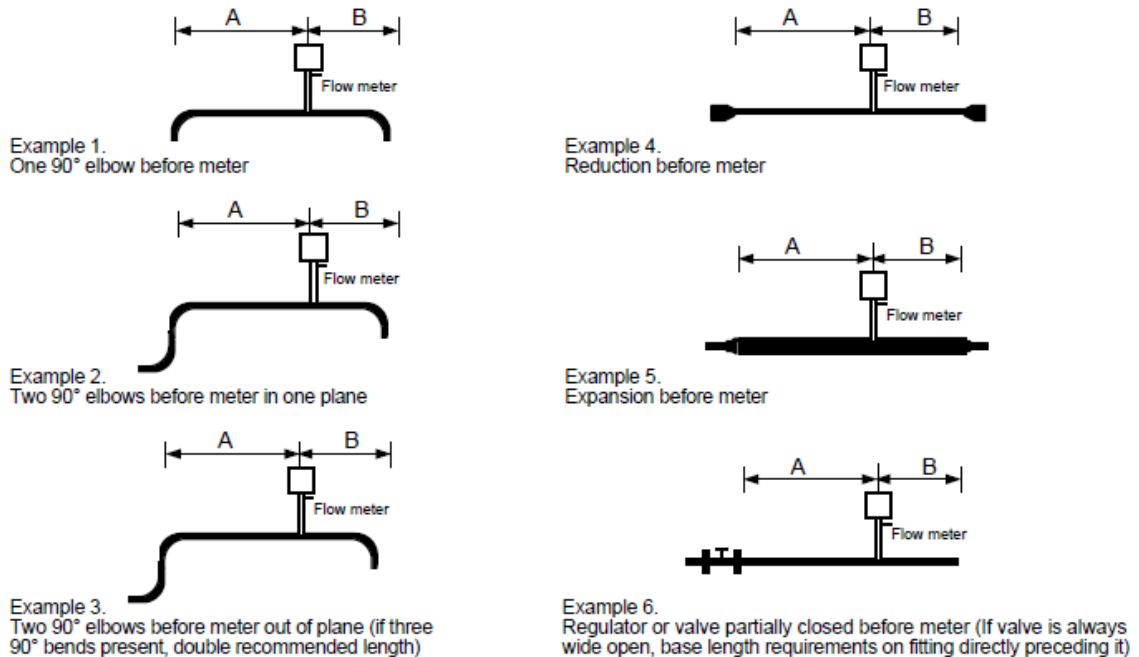
**Figure 1: Components Included in the Natural Gas Flow Meter Kit**

1. Enclosure with remote display and 110V convenience outlet
2. Natural gas flow meter
3. Interconnecting cable, 25 feet long
4. Brass packing gland for 3/8" tube, 1/2"NPT connection, with O-rings and washers installed
5. Spare O-rings , Dash 204 (qty 4)
6. 120 VAC power cord, 10 feet long, 10A max

## Installation Procedure

- The natural gas flow meter may be mounted in horizontal or vertical piping. The flow meter must be mounted at least 10 pipe diameters downstream of disturbances (elbows, reducers, etc.) and at least 5 pipe diameters upstream of disturbances. Longer distances of straight pipe may be necessary depending on the piping arrangement. See Figure 2 below for the necessary distance of straight pipe upstream and downstream of the meter. If the meter is not mounted per the requirements below, unstable flow readings may result.

**Note: Proper upstream and downstream pipe diameters are critical to achieve accurate and stable flow readings.**



| Example | A<br>Upstream <sup>(1)</sup> Requirements | B<br>Downstream <sup>(2)</sup> Requirements |
|---------|---|---|
| 1       | 10 D                                      | 5 D   |
| 2       | 15 D                                      | 5 D   |
| 3       | 25 D                                      | 10 D  |
| 4       | 10 D                                      | 5 D   |
| 5       | 20 D                                      | 5 D   |
| 6       | 25 D                                      | 10 D  |

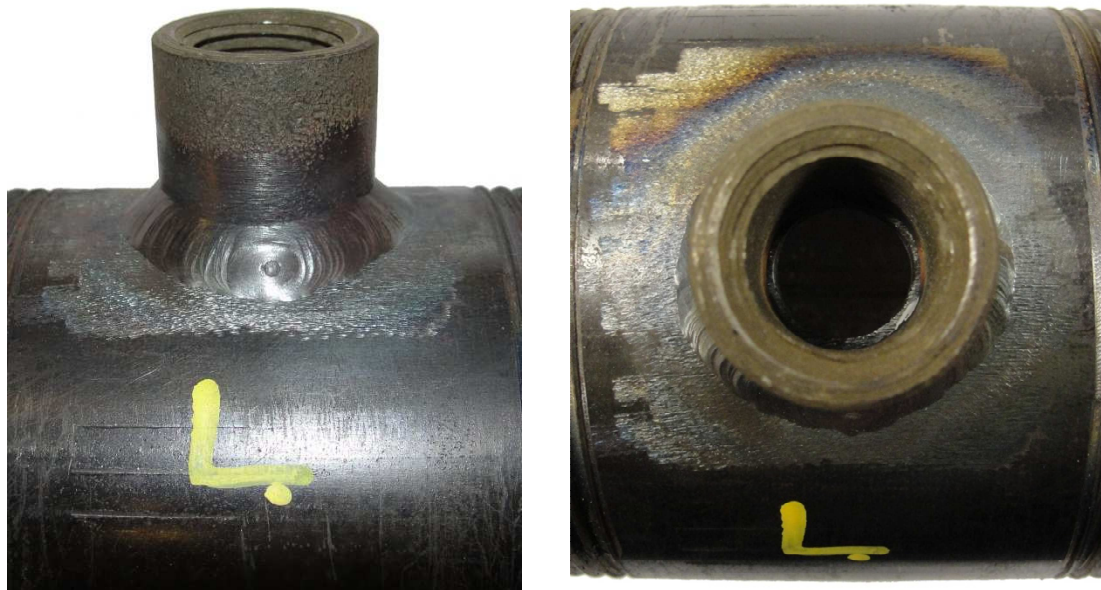
(1) Number of diameters (D) of straight pipe required between upstream disturbance and the flow meter.  
(2) Number of diameters (D) of straight pipe required downstream of the flow meter.

**Figure 2: Necessary Amount of Straight Pipe for Mounting Flow Meter**

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## Installation Procedure (continued)

2. Once a suitable location has been found, identify the pipe size and if possible, the pipe schedule. With this information, use Tables 4 and 5 in Appendix A to verify that the gas velocity through the pipe in this location is less than 166 ft/sec for 1" thru 5" pipe or 138 ft/sec for 6" pipe when the burner is at high fire.
3. Verify that the static pressure in the pipe is less than 50 PSIG and the natural gas temperature (when flowing) is between 20 and 120°F.
4. Verify that the natural gas piping into which the meter is going to be inserted is depressurized. If not, close the upstream gas valve and bleed off any residual trapped gas.
5. If a ½" NPT or larger half coupling is not available in a suitable location, one will need to be welded onto the pipe with a ½" or larger hole drilled through the center of the coupling. After this is completed, the assembly should look like Figure 3.

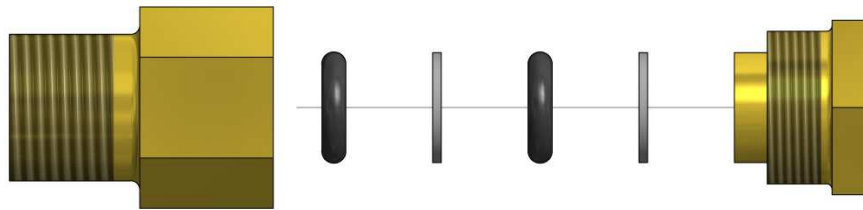


**Figure 3: ½" NPT Half Coupling Welded to Pipe with ½" Hole Drilled Through Center**

## Installation Procedure (continued)

- Screw the packing gland into the ½" NPT half coupling. PTFE tape should be used to seal the NPT threads of the packing gland. O-rings and washers must be installed in the packing gland as shown in Figure 4.

**Note: The O-rings will wear over time. Inspect the O-rings before each use and replace the O-rings if any wear is evident.**



**Figure 4: Proper Installation of Washers and O-rings in the Packing Gland**

- Insert the meter sensing tube into the packing gland. Using Table 1 and Figure 5, center the meter’s sensing element in the pipe by setting distance “X” (distance from the outer diameter of the pipe to the bottom of the pointer). This can be done carefully with a tape measure. Ensure that the pointer on the flow meter is pointing in the direction of flow.

| Pipe Size | Distance "X" |
|-----------|--------------|
| 1"        | 5.34"        |
| 1-1/4"    | 5.17"        |
| 1-1/2"    | 5.05"        |
| 2"        | 4.81"        |
| 2-1/2"    | 4.56"        |
| 3"        | 4.25"        |
| 4"        | 3.75"        |
| 5"        | 3.22"        |
| 6"        | 2.69"        |

**Table 1: Meter Insertion Distance**



**Figure 5: Meter Inserted into Pipe**

## Installation Procedure (continued)

8. After the meter is inserted to the correct depth with the pointer in the direction of flow, tighten the packing gland nut with the 1" open end wrench (or crescent wrench). This will cause the O-rings to compress around the meter's sensing tube.
9. Connect the interconnecting cable to the flow meter and to the enclosure. The male end of the cable connects to the enclosure and the female end connects to the flow meter.
10. Plug the power cord into the side of the enclosure and then into a 120 VAC receptacle. The meter and the remote display should power up. After this step, the meter and enclosure should look like Figure 6.



Figure 6: Flow Meter Connected and Powered

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## Installation Procedure (continued)

11. Scale the remote display for the pipe size that the meter is installed in. For Schedule 40 pipe, use the table provided on the front of the enclosure or Table 2 in Appendix A to obtain the correct scaling value for parameter “dSP.2”. For Schedule 80 pipe, use Table 3 in Appendix A. Once the correct scaling value has been obtained, the following steps are necessary to change the scaling of the remote display:
  - a. Press and hold down the button labeled LEVEL. The display will blink and “Cn-t” will appear on the display. Release the LEVEL button after “Cn-t” appears.
  - b. Press the button labeled MODE four times until “dSP.2” appears on the display.
  - c. Press the button labeled SHIFT. The current setting for parameter “dSP.2” should appear.
  - d. Press the SHIFT button again. Note that as the SHIFT button is tapped more times, different digits in the setting blink. Press the SHIFT button until the digit to be changed is blinking.
  - e. Change the blinking digit by pressing the UP key until the correct value for the digit is displayed.
  - f. Repeat steps “d” and “e” as required to change the setting of “dSP.2” to the correct value.
  - g. After all of the digits in the setting are changed and verified to be correct for the pipe size, press the MODE button. The display should then show “dP”.
  - h. Press and hold the LEVEL button. The entire display should light up as if the display is re-booting. Release the button after this. The current flow rate should then be shown on the remote display.
12. If the gas meter is being inserted into 6” pipe, the gas meter itself will need to be re-scaled to 8300 SFPM. This can be done by removing the cover of the flow meter and using the three red buttons. See the “User Full Scale Adjustment” section of the Sierra 620 manual which is provided for how to re-scale the flow meter. When commissioning is complete, set the meter back to 10,000 SFPM for 1” through 5” pipe sizes. See Tables 2 and 3 in Appendix A for more information.
13. The gas meter and remote display should now be ready for use. The enclosure with the remote display should be hung in a location where the remote display can be easily read. A convenience outlet is provided on the side of the enclosure for 120 VAC devices up to 7A.

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## Installation Procedure (continued)

14. After use, remove all power from the enclosure prior to de-pressurizing the gas piping and removing the flow meter and packing gland. Plug the half coupling where the meter was inserted. Place the flow meter and accessories back into the plastic case. When all components are put back into the case, the flow meter kit will appear as shown in Figure 7.



Figure 7: Flow Meter Kit Packaged in Case

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## Appendix A

**Table 2: Display Scaling for Schedule 40 Pipe**

| Pipe Size | Setting of "dSP.2" | Meter Full Scale (SFPM)* |
|-----------|--------------------|--------------------------|
| 1"        | 3601               | 10000                    |
| 1-1/4"    | 6232               | 10000                    |
| 1-1/2"    | 8483               | 10000                    |
| 2"        | 13982              | 10000                    |
| 2-1/2"    | 19949              | 10000                    |
| 3"        | 30803              | 10000                    |
| 4"        | 53043              | 10000                    |
| 5"        | 83358              | 10000                    |
| 6"        | 99912              | 8300                     |

**Table 3: Display Scaling for Schedule 80 Pipe**

| Pipe Size | Setting of "dSP.2" | Meter Full Scale (SFPM)* |
|-----------|--------------------|--------------------------|
| 1"        | 2997               | 10000                    |
| 1 1/4"    | 5345               | 10000                    |
| 1 1/2"    | 7363               | 10000                    |
| 2         | 12304              | 10000                    |
| 2 1/2"    | 17659              | 10000                    |
| 3"        | 27522              | 10000                    |
| 4"        | 47904              | 10000                    |
| 5"        | 75807              | 10000                    |
| 6"        | 90116              | 8300                     |

**\*Note:** Re-scale the meter if inserting it into a 6" gas pipe.

## Appendix A (continued)

**Table 4: Schedule 40 Pipe Velocities and Flows**

| Standard Velocity |               |              | 1"   |     | 1- 1/4" |     | 1 -1/2" |     | 2"    |     | 2 -1/2" |     |
|-------------------|---------------|--------------|------|-----|---------|-----|---------|-----|-------|-----|---------|-----|
|                   |               |              | Flow |     | Flow    |     | Flow    |     | Flow  |     | Flow    |     |
| STD<br>ft/sec     | STD<br>ft/min | STD<br>ft/hr | SCFH | BHP | SCFH    | BHP | SCFH    | BHP | SCFH  | BHP | SCFH    | BHP |
| 0.0               | <b>0</b>      | 0            | 0    | 0   | 0       | 0   | 0       | 0   | 0     | 0   | 0       | 0   |
| 6.7               | <b>400</b>    | 24000        | 144  | 4   | 249     | 6   | 339     | 9   | 559   | 14  | 798     | 20  |
| 13.3              | <b>800</b>    | 48000        | 288  | 7   | 499     | 13  | 679     | 17  | 1119  | 28  | 1596    | 41  |
| 20.0              | <b>1200</b>   | 72000        | 432  | 11  | 748     | 19  | 1018    | 26  | 1678  | 43  | 2394    | 61  |
| 26.7              | <b>1600</b>   | 96000        | 576  | 15  | 997     | 25  | 1357    | 34  | 2237  | 57  | 3192    | 81  |
| 33.3              | <b>2000</b>   | 120000       | 720  | 18  | 1246    | 32  | 1697    | 43  | 2796  | 71  | 3990    | 101 |
| 40.0              | <b>2400</b>   | 144000       | 864  | 22  | 1496    | 38  | 2036    | 52  | 3356  | 85  | 4788    | 122 |
| 46.7              | <b>2800</b>   | 168000       | 1008 | 26  | 1745    | 44  | 2375    | 60  | 3915  | 99  | 5586    | 142 |
| 53.3              | <b>3200</b>   | 192000       | 1152 | 29  | 1994    | 51  | 2714    | 69  | 4474  | 114 | 6384    | 162 |
| 60.0              | <b>3600</b>   | 216000       | 1296 | 33  | 2244    | 57  | 3054    | 78  | 5033  | 128 | 7182    | 182 |
| 66.7              | <b>4000</b>   | 240000       | 1440 | 37  | 2493    | 63  | 3393    | 86  | 5593  | 142 | 7980    | 203 |
| 73.3              | <b>4400</b>   | 264000       | 1584 | 40  | 2742    | 70  | 3732    | 95  | 6152  | 156 | 8778    | 223 |
| 80.0              | <b>4800</b>   | 288000       | 1729 | 44  | 2991    | 76  | 4072    | 103 | 6711  | 170 | 9576    | 243 |
| 86.7              | <b>5200</b>   | 312000       | 1873 | 48  | 3241    | 82  | 4411    | 112 | 7270  | 185 | 10373   | 263 |
| 93.3              | <b>5600</b>   | 336000       | 2017 | 51  | 3490    | 89  | 4750    | 121 | 7830  | 199 | 11171   | 284 |
| 100.0             | <b>6000</b>   | 360000       | 2161 | 55  | 3739    | 95  | 5090    | 129 | 8389  | 213 | 11969   | 304 |
| 106.7             | <b>6400</b>   | 384000       | 2305 | 59  | 3989    | 101 | 5429    | 138 | 8948  | 227 | 12767   | 324 |
| 113.3             | <b>6800</b>   | 408000       | 2449 | 62  | 4238    | 108 | 5768    | 146 | 9508  | 241 | 13565   | 344 |
| 120.0             | <b>7200</b>   | 432000       | 2593 | 66  | 4487    | 114 | 6107    | 155 | 10067 | 256 | 14363   | 365 |
| 126.7             | <b>7600</b>   | 456000       | 2737 | 69  | 4736    | 120 | 6447    | 164 | 10626 | 270 | 15161   | 385 |
| 133.3             | <b>8000</b>   | 480000       | 2881 | 73  | 4986    | 127 | 6786    | 172 | 11185 | 284 | 15959   | 405 |
| 140.0             | <b>8400</b>   | 504000       | 3025 | 77  | 5235    | 133 | 7125    | 181 | 11745 | 298 | 16757   | 425 |
| 146.7             | <b>8800</b>   | 528000       | 3169 | 80  | 5484    | 139 | 7465    | 190 | 12304 | 312 | 17555   | 446 |
| 153.3             | <b>9200</b>   | 552000       | 3313 | 84  | 5734    | 146 | 7804    | 198 | 12863 | 327 | 18353   | 466 |
| 160.0             | <b>9600</b>   | 576000       | 3457 | 88  | 5983    | 152 | 8143    | 207 | 13422 | 341 | 19151   | 486 |
| 166.7             | <b>10000</b>  | 600000       | 3601 | 91  | 6232    | 158 | 8483    | 215 | 13982 | 355 | 19949   | 507 |

**Note:**

Boiler Horsepower numbers assume a natural gas heating value of 1000 BTU / SCFH and a boiler efficiency of 85%.

## Appendix A (continued)

**Table 4: Schedule 40 Pipe Velocities and Flows (continued)**

| Standard Velocity |               |              | 3"    |     | 4"    |      | 5"    |      | 6"    |      |
|-------------------|---------------|--------------|-------|-----|-------|------|-------|------|-------|------|
| STD<br>ft/sec     | STD<br>ft/min | STD<br>ft/hr | Flow  |     | Flow  |      | Flow  |      | Flow  |      |
|                   |               |              | SCFH  | BHP | SCFH  | BHP  | SCFH  | BHP  | SCFH  | BHP  |
| 0.0               | <b>0</b>      | 0            | 0     | 0   | 0     | 0    | 0     | 0    | 0     | 0    |
| 6.7               | <b>400</b>    | 24000        | 1232  | 31  | 2122  | 54   | 3334  | 85   | 4815  | 122  |
| 13.3              | <b>800</b>    | 48000        | 2464  | 63  | 4243  | 108  | 6669  | 169  | 9630  | 245  |
| 20.0              | <b>1200</b>   | 72000        | 3696  | 94  | 6365  | 162  | 10003 | 254  | 14445 | 367  |
| 26.7              | <b>1600</b>   | 96000        | 4928  | 125 | 8487  | 215  | 13337 | 339  | 19260 | 489  |
| 33.3              | <b>2000</b>   | 120000       | 6161  | 156 | 10609 | 269  | 16672 | 423  | 24075 | 611  |
| 40.0              | <b>2400</b>   | 144000       | 7393  | 188 | 12730 | 323  | 20006 | 508  | 28890 | 734  |
| 46.7              | <b>2800</b>   | 168000       | 8625  | 219 | 14852 | 377  | 23340 | 593  | 33705 | 856  |
| 53.3              | <b>3200</b>   | 192000       | 9857  | 250 | 16974 | 431  | 26674 | 677  | 38520 | 978  |
| 60.0              | <b>3600</b>   | 216000       | 11089 | 282 | 19095 | 485  | 30009 | 762  | 43335 | 1100 |
| 66.7              | <b>4000</b>   | 240000       | 12321 | 313 | 21217 | 539  | 33343 | 847  | 48150 | 1223 |
| 73.3              | <b>4400</b>   | 264000       | 13553 | 344 | 23339 | 593  | 36677 | 931  | 52965 | 1345 |
| 80.0              | <b>4800</b>   | 288000       | 14785 | 375 | 25461 | 646  | 40012 | 1016 | 57781 | 1467 |
| 86.7              | <b>5200</b>   | 312000       | 16017 | 407 | 27582 | 700  | 43346 | 1101 | 62596 | 1589 |
| 93.3              | <b>5600</b>   | 336000       | 17250 | 438 | 29704 | 754  | 46680 | 1185 | 67411 | 1712 |
| 100.0             | <b>6000</b>   | 360000       | 18482 | 469 | 31826 | 808  | 50015 | 1270 | 72226 | 1834 |
| 106.7             | <b>6400</b>   | 384000       | 19714 | 501 | 33947 | 862  | 53349 | 1355 | 77041 | 1956 |
| 113.3             | <b>6800</b>   | 408000       | 20946 | 532 | 36069 | 916  | 56683 | 1439 | 81856 | 2078 |
| 120.0             | <b>7200</b>   | 432000       | 22178 | 563 | 38191 | 970  | 60017 | 1524 | 86671 | 2201 |
| 126.7             | <b>7600</b>   | 456000       | 23410 | 594 | 40313 | 1024 | 63352 | 1609 | 91486 | 2323 |
| 133.3             | <b>8000</b>   | 480000       | 24642 | 626 | 42434 | 1077 | 66686 | 1693 | 96301 | 2445 |
| 140.0             | <b>8400</b>   | 504000       | 25874 | 657 | 44556 | 1131 | 70020 | 1778 | -     | -    |
| 146.7             | <b>8800</b>   | 528000       | 27106 | 688 | 46678 | 1185 | 73355 | 1863 | -     | -    |
| 153.3             | <b>9200</b>   | 552000       | 28339 | 720 | 48799 | 1239 | 76689 | 1947 | -     | -    |
| 160.0             | <b>9600</b>   | 576000       | 29571 | 751 | 50921 | 1293 | 80023 | 2032 | -     | -    |
| 166.7             | <b>10000</b>  | 600000       | 30803 | 782 | 53043 | 1347 | 83358 | 2117 | -     | -    |

**Note:**

Boiler Horsepower numbers assume a natural gas heating value of 1000 BTU / SCFH and a boiler efficiency of 85%.

## Appendix A (continued)

**Table 5: Schedule 80 Pipe Velocities and Flows**

| Standard Velocity |               |              | 1"   |     | 1- 1/4" |     | 1 -1/2" |     | 2"    |     | 2 -1/2" |     |
|-------------------|---------------|--------------|------|-----|---------|-----|---------|-----|-------|-----|---------|-----|
|                   |               |              | Flow |     | Flow    |     | Flow    |     | Flow  |     | Flow    |     |
| STD<br>ft/sec     | STD<br>ft/min | STD<br>ft/hr | SCFH | BHP | SCFH    | BHP | SCFH    | BHP | SCFH  | BHP | SCFH    | BHP |
| 0.0               | <b>0</b>      | 0            | 0    | 0   | 0       | 0   | 0       | 0   | 0     | 0   | 0       | 0   |
| 6.7               | <b>400</b>    | 24000        | 120  | 3   | 214     | 5   | 295     | 7   | 492   | 12  | 706     | 18  |
| 13.3              | <b>800</b>    | 48000        | 240  | 6   | 428     | 11  | 589     | 15  | 984   | 25  | 1413    | 36  |
| 20.0              | <b>1200</b>   | 72000        | 360  | 9   | 641     | 16  | 884     | 22  | 1476  | 37  | 2119    | 54  |
| 26.7              | <b>1600</b>   | 96000        | 480  | 12  | 855     | 22  | 1178    | 30  | 1969  | 50  | 2826    | 72  |
| 33.3              | <b>2000</b>   | 120000       | 599  | 15  | 1069    | 27  | 1473    | 37  | 2461  | 62  | 3532    | 90  |
| 40.0              | <b>2400</b>   | 144000       | 719  | 18  | 1283    | 33  | 1767    | 45  | 2953  | 75  | 4238    | 108 |
| 46.7              | <b>2800</b>   | 168000       | 839  | 21  | 1497    | 38  | 2062    | 52  | 3445  | 87  | 4945    | 126 |
| 53.3              | <b>3200</b>   | 192000       | 959  | 24  | 1710    | 43  | 2356    | 60  | 3937  | 100 | 5651    | 143 |
| 60.0              | <b>3600</b>   | 216000       | 1079 | 27  | 1924    | 49  | 2651    | 67  | 4429  | 112 | 6357    | 161 |
| 66.7              | <b>4000</b>   | 240000       | 1199 | 30  | 2138    | 54  | 2945    | 75  | 4921  | 125 | 7064    | 179 |
| 73.3              | <b>4400</b>   | 264000       | 1319 | 33  | 2352    | 60  | 3240    | 82  | 5414  | 137 | 7770    | 197 |
| 80.0              | <b>4800</b>   | 288000       | 1439 | 37  | 2566    | 65  | 3534    | 90  | 5906  | 150 | 8477    | 215 |
| 86.7              | <b>5200</b>   | 312000       | 1558 | 40  | 2779    | 71  | 3829    | 97  | 6398  | 162 | 9183    | 233 |
| 93.3              | <b>5600</b>   | 336000       | 1678 | 43  | 2993    | 76  | 4123    | 105 | 6890  | 175 | 9889    | 251 |
| 100.0             | <b>6000</b>   | 360000       | 1798 | 46  | 3207    | 81  | 4418    | 112 | 7382  | 187 | 10596   | 269 |
| 106.7             | <b>6400</b>   | 384000       | 1918 | 49  | 3421    | 87  | 4712    | 120 | 7874  | 200 | 11302   | 287 |
| 113.3             | <b>6800</b>   | 408000       | 2038 | 52  | 3635    | 92  | 5007    | 127 | 8366  | 212 | 12008   | 305 |
| 120.0             | <b>7200</b>   | 432000       | 2158 | 55  | 3848    | 98  | 5301    | 135 | 8859  | 225 | 12715   | 323 |
| 126.7             | <b>7600</b>   | 456000       | 2278 | 58  | 4062    | 103 | 5596    | 142 | 9351  | 237 | 13421   | 341 |
| 133.3             | <b>8000</b>   | 480000       | 2398 | 61  | 4276    | 109 | 5890    | 150 | 9843  | 250 | 14128   | 359 |
| 140.0             | <b>8400</b>   | 504000       | 2518 | 64  | 4490    | 114 | 6185    | 157 | 10335 | 262 | 14834   | 377 |
| 146.7             | <b>8800</b>   | 528000       | 2637 | 67  | 4704    | 119 | 6480    | 165 | 10827 | 275 | 15540   | 395 |
| 153.3             | <b>9200</b>   | 552000       | 2757 | 70  | 4917    | 125 | 6774    | 172 | 11319 | 287 | 16247   | 413 |
| 160.0             | <b>9600</b>   | 576000       | 2877 | 73  | 5131    | 130 | 7069    | 179 | 11812 | 300 | 16953   | 430 |
| 166.7             | <b>10000</b>  | 600000       | 2997 | 76  | 5345    | 136 | 7363    | 187 | 12304 | 312 | 17659   | 448 |

**Note:**

Boiler Horsepower numbers assume a natural gas heating value of 1000 BTU / SCFH and a boiler efficiency of 85%.

## Appendix A (continued)

**Table 5: Schedule 80 Pipe Velocities and Flows (continued)**

| Standard Velocity |               |              | 3"    |     | 4"    |      | 5"    |      | 6"    |      |
|-------------------|---------------|--------------|-------|-----|-------|------|-------|------|-------|------|
| STD<br>ft/sec     | STD<br>ft/min | STD<br>ft/hr | Flow  |     | Flow  |      | Flow  |      | Flow  |      |
|                   |               |              | SCFH  | BHP | SCFH  | BHP  | SCFH  | BHP  | SCFH  | BHP  |
| 0.0               | <b>0</b>      | 0            | 0     | 0   | 0     | 0    | 0     | 0    | 0     | 0    |
| 6.7               | <b>400</b>    | 24000        | 1101  | 28  | 1916  | 49   | 3032  | 77   | 4343  | 110  |
| 13.3              | <b>800</b>    | 48000        | 2202  | 56  | 3832  | 97   | 6065  | 154  | 8686  | 221  |
| 20.0              | <b>1200</b>   | 72000        | 3303  | 84  | 5748  | 146  | 9097  | 231  | 13029 | 331  |
| 26.7              | <b>1600</b>   | 96000        | 4403  | 112 | 7665  | 195  | 12129 | 308  | 17372 | 441  |
| 33.3              | <b>2000</b>   | 120000       | 5504  | 140 | 9581  | 243  | 15161 | 385  | 21715 | 551  |
| 40.0              | <b>2400</b>   | 144000       | 6605  | 168 | 11497 | 292  | 18194 | 462  | 26058 | 662  |
| 46.7              | <b>2800</b>   | 168000       | 7706  | 196 | 13413 | 341  | 21226 | 539  | 30401 | 772  |
| 53.3              | <b>3200</b>   | 192000       | 8807  | 224 | 15329 | 389  | 24258 | 616  | 34744 | 882  |
| 60.0              | <b>3600</b>   | 216000       | 9908  | 252 | 17245 | 438  | 27291 | 693  | 39086 | 992  |
| 66.7              | <b>4000</b>   | 240000       | 11009 | 280 | 19161 | 487  | 30323 | 770  | 43429 | 1103 |
| 73.3              | <b>4400</b>   | 264000       | 12110 | 307 | 21078 | 535  | 33355 | 847  | 47772 | 1213 |
| 80.0              | <b>4800</b>   | 288000       | 13210 | 335 | 22994 | 584  | 36387 | 924  | 52115 | 1323 |
| 86.7              | <b>5200</b>   | 312000       | 14311 | 363 | 24910 | 633  | 39420 | 1001 | 56458 | 1434 |
| 93.3              | <b>5600</b>   | 336000       | 15412 | 391 | 26826 | 681  | 42452 | 1078 | 60801 | 1544 |
| 100.0             | <b>6000</b>   | 360000       | 16513 | 419 | 28742 | 730  | 45484 | 1155 | 65144 | 1654 |
| 106.7             | <b>6400</b>   | 384000       | 17614 | 447 | 30658 | 778  | 48517 | 1232 | 69487 | 1764 |
| 113.3             | <b>6800</b>   | 408000       | 18715 | 475 | 32574 | 827  | 51549 | 1309 | 73830 | 1875 |
| 120.0             | <b>7200</b>   | 432000       | 19816 | 503 | 34491 | 876  | 54581 | 1386 | 78173 | 1985 |
| 126.7             | <b>7600</b>   | 456000       | 20916 | 531 | 36407 | 924  | 57613 | 1463 | 82516 | 2095 |
| 133.3             | <b>8000</b>   | 480000       | 22017 | 559 | 38323 | 973  | 60646 | 1540 | 86859 | 2206 |
| 140.0             | <b>8400</b>   | 504000       | 23118 | 587 | 40239 | 1022 | 63678 | 1617 | -     | -    |
| 146.7             | <b>8800</b>   | 528000       | 24219 | 615 | 42155 | 1070 | 66710 | 1694 | -     | -    |
| 153.3             | <b>9200</b>   | 552000       | 25320 | 643 | 44071 | 1119 | 69743 | 1771 | -     | -    |
| 160.0             | <b>9600</b>   | 576000       | 26421 | 671 | 45988 | 1168 | 72775 | 1848 | -     | -    |
| 166.7             | <b>10000</b>  | 600000       | 27522 | 699 | 47904 | 1216 | 75807 | 1925 | -     | -    |

**Note:**

Boiler Horsepower numbers assume a natural gas heating value of 1000 BTU / SCFH and a boiler efficiency of 85%.

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