



Mark II Turbo-Meters

The Market Leader in Turbine Meter Technology

Mark II 4" - 12"
Turbo-Meters



Mark II Turbo-Meters. The Market Leader!

Selected Mark II Turbo-Meter Features and Benefits:

| Features | Benefits |
|---|---|
| 1 30-degree & 45-degree rotor blade angles available | Effectively provides two separate performance envelopes per meter size. (See capacity tables on pages 10-19) |
| 2 One or two pulse outputs via blade tip sensors | High resolution and redundant signals for reliable operation. Easier maintenance and longer life. |
| 3 Top-entry design | Access to the measuring module and all moving parts without removing the meter body from the line. |
| 4 The measuring element is a calibrated, interchangeable module | Repair/upgrade/calibrate modules without removing the meter body from the line. |
| 5 Nose cone with integral straightening vanes | Additional flow conditioning when the upstream configuration is less than ideal. |
| 6 Robust rotor shaft ball bearings | Durability and superior accuracy over a wide flow range. |
| 7 Optional automatic oiler | Trouble-free lubrication, without a site visit. |
| 8 Mark II bodies can be fitted with Auto-Adjust Turbo-Meter modules | Cost-effective upgrade to the Continuous Measurement Certainty™ of Sensus Metering Systems' patented dual-rotor technology. |

Mark II

Mark II Upgrades & Exchanges

To help you cost-effectively take advantage of Mark II technology and all the advances available, Sensus Metering Systems offers a complete line of replacement meter modules and upgrades to conveniently enhance your current Sensus Metering Systems turbines. Here's an overview:

| Product Enhancement | Advantage | Upgraded Meter Without Body Removal |
|---------------------------------|--|-------------------------------------|
| Slot Sensor to Blade Tip Sensor | <ul style="list-style-type: none"> • Improved reliability • Reduced maintenance • Easier access to components • Redundant outputs • High pulse resolution | YES |
| 45° Rotor to 30° Rotor | <ul style="list-style-type: none"> • Up to 64% more capacity • Same body | YES |
| Mark II to AAT | <ul style="list-style-type: none"> • Continuous Measurement Certainty™ | YES |



When exchanging modules, Mark II meters can be upgraded without removing the meter body from the line, so you avoid lengthy service interruptions. Sensus Metering Systems maintains a stock of new and factory rebuilt, calibrated measuring modules for all Mark II's. Each module is shipped with a 5-point calibration curve, plus the appropriate set of change gears. Illustrated instructions for module changeout are also supplied.

High Pressure Calibration Facilities

In parallel with the development of the broad product line of Turbo-Meters, Sensus Metering Systems also engineered and installed one of the most technologically sophisticated and accurate large volume, high pressure meter calibration facilities in the world. Repeated correlation tests with other large volume meter proving facilities, using various flowing media and different reference standards, have verified the accuracy of Sensus Metering Systems Turbo-Meter calibrations.

Each Turbo-Meter produced receives an atmospheric calibration test at five different flow rates.

A computer generated performance curve plus relevant numerical calibration data are furnished with each meter. For elevated pressure installations, at user request, Sensus Metering Systems will provide calibration data at the desired operating pressure and flow rates. Published flow rates are based on $\pm 1\%$ accuracy of measurement.



500 ft³ (14.2m³) Proving Bell



High Pressure Flow Loop; up to 900 psi (62 bar)

SENSUS

Mark II Turbo-Meters, Design Features

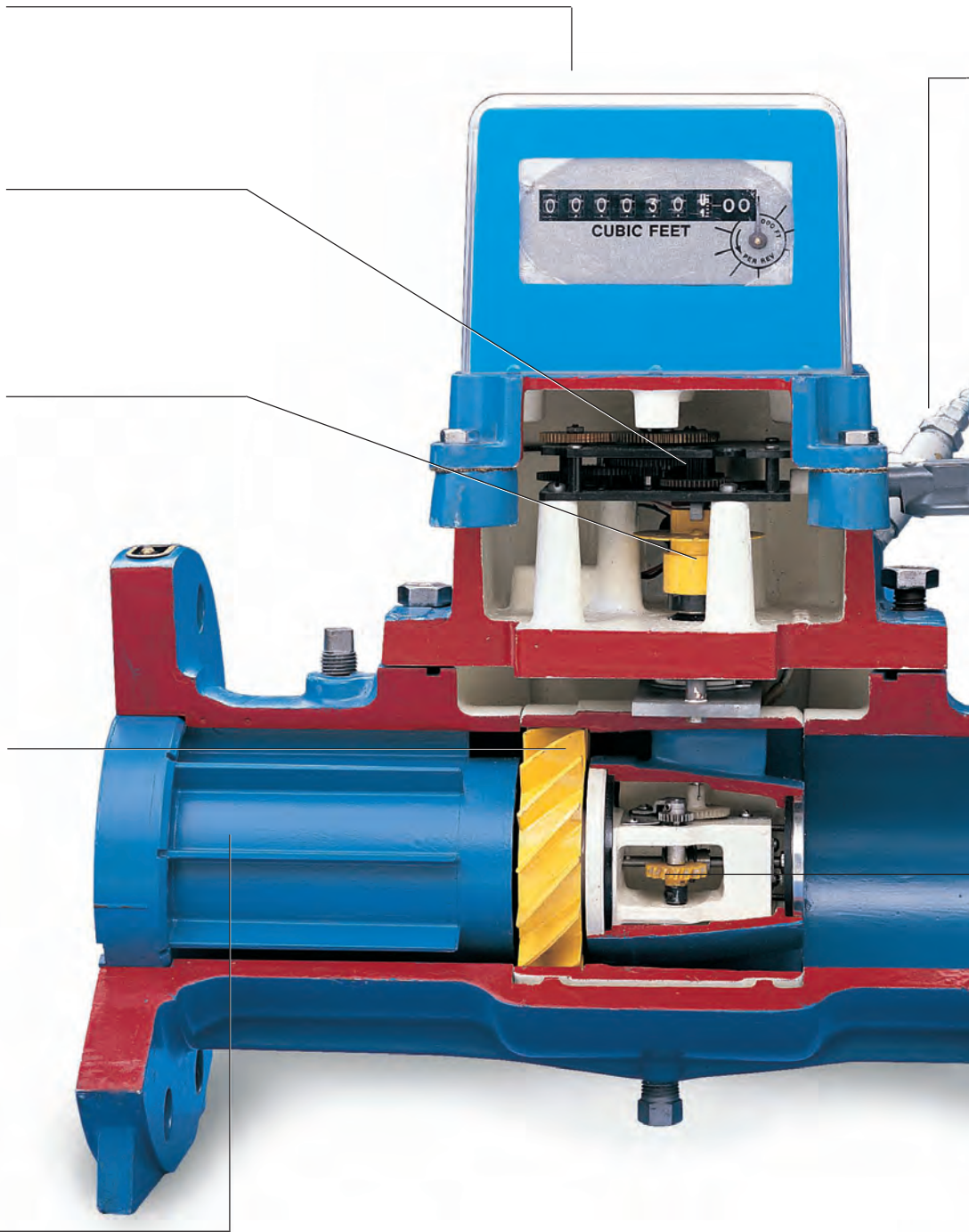


Circular Reading (VCR) Index



Aluminum Box Direct Reading (VDR) Index

- 1 Any of a wide variety of mechanical, electromechanical or electronic readout devices can be direct-mounted to the meter index plate.
- 2 Calibration of meter output shaft rotations to precise engineering units is effected by change gears that are readily accessible at the top of the intermediate gear assembly.
- 3 A magnetic coupling transmits rotor rotations from the pressurized to the non-pressurized area.
- 4 A calibrated, top-entry measurement module allows for quick removal and interchangeability among other Mark II and Auto-Adjust Turbo-Meter bodies.
- 5 Improved rotor design extracts the maximum kinetic energy from the flowing gas. Dynamic balancing of rotor and the hub assembly assures minimum drag at all flow rates.



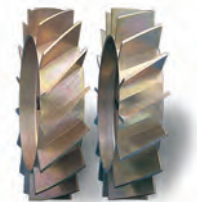
- 6 Optimized nose cone with integral straightening vanes minimizes the need for long inlet piping runs.

Mark II Turbo-Meters. The Market Leader.

Sensus Metering Systems is committed to technological growth through continual development of our measurement products and service programs. While the Mark II Turbo-Meter is considered to be the finest single-rotor turbine meter on the market, **we just made it better with a series of improvements and new-product offerings!**

Mark II Product Improvements

30-Degree Rotor Blade Angle! In addition to the standard 45-degree rotor, the Mark II offers a 30-degree rotor that delivers capacity increases of up to 64%. This reasonably priced option allows the customer increased flexibility and the ability to upgrade a 45-degree model to a 30-degree version with a simple module changeout. Meter maintenance, body size, and installation methods do not change, regardless of the chosen blade angle.



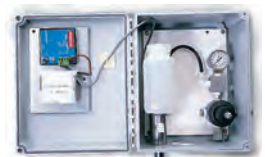
Blade Tip Sensors! Mark II customers have a choice between the traditional slot sensor design and a new blade tip sensor. Blade tip technology provides 2 to 4 times higher pulse resolution than slot sensors, as well as a redundant output. Its sturdy design is not sensitive to pressure changes or contaminants, and field maintenance is easier since the module doesn't need to be disassembled for blade tip sensor repair.



Improved bearings! The heavy-duty bearings that have been standard on our Auto-Adjust Turbo-Meters are standard on Mark IIs. These robust bearings are designed for a minimum of 10 years ABEC L10 bearing life at maximum flow capacity and pressure, allowing for improved long-term accuracy.



Automatic Oiler! Users can avoid regular maintenance trips to their meter sites by using the meter-mounted Automatic Oiler.



- 7 An external fitting permits rotor shaft bearing lubrication and flushing while the meter is operating.



Automatic Oiler also available.

- 8 Optional slot-sensors or blade tip sensors provide high-frequency pulse outputs for electronic measuring systems.

- 9 Advanced meter design achieves thrust load balancing for rotor shaft bearings at all operating conditions.

- 10 Gears and other moving parts are housed in a sealed chamber protected from line contaminants. Pressure equalization is achieved via screened orifices located on the upstream and downstream sides of the chamber.

4" T-18 MARK II TURBO-METER 45° ROTOR ANGLE (U.S. Units - Cubic Feet)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS. LOSS INCHES W.C. @18000 ACFH |
|-----------------------|----------------|------------------|------------------|------------------|------------------|---------------|--------------------|---|
| S=(Fpv) ² | PSIG | SCFH | MSCFD | SCFH | MSCFD | ACFH | | |
| 1.0000 | 0.25 | 18,000 | 430 | 1,200 | 29 | 1,200 | 15 | 1.8 |
| 1.0008 | 5 | 24,000 | 580 | 1,400 | 34 | 1,040 | 17 | 2.4 |
| 1.0016 | 10 | 30,000 | 720 | 1,500 | 36 | 930 | 20 | 3.0 |
| 1.0024 | 15 | 36,000 | 860 | 1,700 | 41 | 850 | 21 | 3.6 |
| 1.0032 | 20 | 42,000 | 1,010 | 1,800 | 43 | 780 | 23 | 4.2 |
| 1.0040 | 25 | 48,000 | 1,150 | 2,000 | 48 | 730 | 24 | 4.8 |
| 1.0080 | 50 | 79,000 | 1,900 | 2,500 | 60 | 570 | 32 | 7.9 |
| 1.0121 | 75 | 111,000 | 2,660 | 3,000 | 72 | 480 | 37 | 11 |
| 1.0162 | 100 | 142,000 | 3,410 | 3,400 | 82 | 430 | 42 | 14 |
| 1.0203 | 125 | 174,000 | 4,180 | 3,700 | 89 | 390 | 47 | 17 |
| 1.0330 | 200 | 271,000 | 6,500 | 4,700 | 113 | 310 | 58 | 27 |
| 1.0502 | 300 | 404,000 | 9,700 | 5,700 | 137 | 250 | 71 | 40 |
| 1.0680 | 400 | 541,000 | 12,980 | 6,600 | 158 | 220 | 82 | 54 |
| 1.0863 | 500 | 683,000 | 16,390 | 7,400 | 178 | 190 | 92 | 68 |
| 1.1050 | 600 | 830,000 | 19,920 | 8,100 | 194 | 180 | 102 | 83 |
| 1.1241 | 700 | 981,000 | 23,540 | 8,900 | 214 | 160 | 110 | 98 |
| 1.1435 | 800 | 1,138,000 | 27,310 | 9,500 | 228 | 150 | 120 | 114 |
| 1.1630 | 900 | 1,300,000 | 31,200 | 10,200 | 245 | 140 | 127 | 130 |
| 1.1826 | 1,000 | 1,466,000 | 35,180 | 10,800 | 259 | 130 | 136 | 147 |
| 1.2021 | 1,100 | 1,637,000 | 39,290 | 11,400 | 274 | 130 | 144 | 164 |
| 1.2212 | 1,200 | 1,812,000 | 43,490 | 12,000 | 288 | 120 | 151 | 181 |
| 1.2397 | 1,300 | 1,991,000 | 47,780 | 12,600 | 302 | 110 | 158 | 199 |
| 1.2641 | 1,440 | 2,247,000 | 53,930 | 13,400 | 322 | 110 | 168 | 225 |

4" Model T-18 meters of standard construction register 100 cubic feet per revolution of the mechanical output shaft. Table is based on base conditions of Pb=14.73 PSIA and Tb=60° F, and average atmospheric pressure Pa=14.48 PSIA. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 60°F and 0° CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 18,000 ACFH, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.

4" T-27 MARK II TURBO-METER 30° ROTOR ANGLE (U.S. Units - Cubic Feet)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS. LOSS INCHES W.C. @27000 ACFH | (1) APPROX. PRESS. LOSS INCHES W.C. @18000 ACFH |
|-----------------------|----------------|------------------|------------------|------------------|------------------|---------------|--------------------|---|---|
| S=(Fpv) ² | PSIG | SCFH | MSCFD | SCFH | MSCFD | ACFH | | | |
| 1.0000 | 0.25 | 27,000 | 650 | 1,800 | 43 | 1,800 | 15 | 3.0 | 1.5 |
| 1.0008 | 5 | 36,000 | 860 | 2,070 | 50 | 1,560 | 17 | 4.0 | 1.9 |
| 1.0016 | 10 | 45,000 | 1,080 | 2,320 | 56 | 1,400 | 19 | 5.1 | 2.4 |
| 1.0024 | 15 | 54,000 | 1,300 | 2,550 | 61 | 1,270 | 21 | 6.1 | 2.9 |
| 1.0032 | 20 | 63,000 | 1,510 | 2,760 | 66 | 1,170 | 23 | 7.1 | 3.4 |
| 1.0040 | 25 | 73,000 | 1,750 | 2,950 | 71 | 1,100 | 25 | 8.2 | 3.9 |
| 1.0080 | 50 | 119,000 | 2,860 | 3,780 | 91 | 860 | 31 | 13 | 6.4 |
| 1.0121 | 75 | 166,000 | 3,980 | 4,460 | 107 | 730 | 37 | 19 | 9.0 |
| 1.0162 | 100 | 213,000 | 5,110 | 5,060 | 121 | 640 | 42 | 24 | 12 |
| 1.0203 | 125 | 261,000 | 6,260 | 5,590 | 134 | 580 | 47 | 29 | 14 |
| 1.0330 | 200 | 406,000 | 9,740 | 6,980 | 168 | 460 | 58 | 46 | 22 |
| 1.0502 | 300 | 605,000 | 14,520 | 8,520 | 204 | 380 | 71 | 68 | 33 |
| 1.0680 | 400 | 811,000 | 19,460 | 9,870 | 237 | 330 | 82 | 91 | 44 |
| 1.0863 | 500 | 1,024,000 | 24,580 | 11,090 | 266 | 290 | 92 | 115 | 55 |
| 1.1050 | 600 | 1,245,000 | 29,880 | 12,220 | 293 | 270 | 102 | 140 | 67 |
| 1.1241 | 700 | 1,472,000 | 35,330 | 13,290 | 319 | 240 | 111 | 166 | 80 |
| 1.1435 | 800 | 1,707,000 | 40,970 | 14,310 | 343 | 230 | 119 | 192 | 92 |
| 1.1630 | 900 | 1,949,000 | 46,780 | 15,290 | 367 | 210 | 127 | 219 | 105 |
| 1.1826 | 1,000 | 2,199,000 | 52,780 | 16,240 | 390 | 200 | 135 | 248 | 119 |
| 1.2021 | 1,100 | 2,456,000 | 58,940 | 17,170 | 412 | 190 | 143 | 276 | 133 |
| 1.2212 | 1,200 | 2,719,000 | 65,260 | 18,060 | 433 | 180 | 151 | 306 | 147 |
| 1.2397 | 1,300 | 2,987,000 | 71,690 | 18,930 | 454 | 170 | 158 | 336 | 162 |
| 1.2641 | 1,440 | 3,370,000 | 80,880 | 20,110 | 483 | 160 | 168 | 379 | 182 |

4" Model T-27 meters of standard construction register 100 cubic feet per revolution of the mechanical output shaft. Table is based on base conditions of Pb=14.73 PSIA and Tb=60° F, and average atmospheric pressure Pa=14.48 PSIA. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 60°F and 0° CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 27,000 ACFH, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.
 (1) There is approximately 20% less pressure loss when compared to our T-18 Turbo-Meter at 18,000 ACFH.

100mm (G250) T-18 MARK II TURBO-METER 45° ROTOR ANGLE (S.I. Units - Cubic Meters)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS LOSS @510 Nm ³ /hr kPa |
|-----------------------|----------------|---------------------|----------------------|---------------------|----------------------|--------------------|--------------------|---|
| S=(Fpv) ² | kPa | Nm ³ /hr | Nm ³ /day | Nm ³ /hr | Nm ³ /day | m ³ /hr | | |
| 1.0000 | 1.72 | 510 | 12,000 | 34 | 820 | 34 | 15 | 0.4 |
| 1.0008 | 34 | 680 | 16,000 | 40 | 950 | 29 | 17 | 0.6 |
| 1.0016 | 69 | 850 | 20,000 | 42 | 1,020 | 26 | 19 | 0.7 |
| 1.0024 | 103 | 1,020 | 24,000 | 48 | 1,160 | 24 | 21 | 0.9 |
| 1.0032 | 138 | 1,190 | 29,000 | 51 | 1,220 | 22 | 23 | 1.1 |
| 1.0040 | 172 | 1,360 | 33,000 | 57 | 1,360 | 21 | 24 | 1.2 |
| 1.0080 | 345 | 2,240 | 54,000 | 71 | 1,700 | 16 | 32 | 2.0 |
| 1.0121 | 517 | 3,140 | 75,000 | 85 | 2,040 | 14 | 37 | 2.7 |
| 1.0162 | 689 | 4,020 | 97,000 | 96 | 2,310 | 12 | 42 | 3.5 |
| 1.0203 | 862 | 4,930 | 118,000 | 105 | 2,520 | 11 | 47 | 4.2 |
| 1.0330 | 1,379 | 7,680 | 184,000 | 133 | 3,200 | 9 | 58 | 6.7 |
| 1.0502 | 2,068 | 11,440 | 275,000 | 161 | 3,880 | 7 | 71 | 10 |
| 1.0680 | 2,758 | 15,330 | 368,000 | 187 | 4,490 | 6 | 82 | 13 |
| 1.0863 | 3,447 | 19,350 | 464,000 | 210 | 5,030 | 5 | 92 | 17 |
| 1.1050 | 4,137 | 23,510 | 564,000 | 229 | 5,510 | 5 | 102 | 21 |
| 1.1241 | 4,826 | 27,790 | 667,000 | 252 | 6,050 | 5 | 110 | 24 |
| 1.1435 | 5,516 | 32,240 | 774,000 | 269 | 6,460 | 4 | 120 | 28 |
| 1.1630 | 6,205 | 36,830 | 884,000 | 289 | 6,930 | 4 | 127 | 32 |
| 1.1826 | 6,895 | 41,530 | 997,000 | 306 | 7,340 | 4 | 136 | 37 |
| 1.2021 | 7,584 | 46,370 | 1,113,000 | 323 | 7,750 | 4 | 144 | 41 |
| 1.2212 | 8,274 | 51,330 | 1,232,000 | 340 | 8,160 | 3 | 151 | 45 |
| 1.2397 | 8,963 | 56,400 | 1,354,000 | 357 | 8,570 | 3 | 158 | 50 |
| 1.2641 | 9,928 | 63,650 | 1,528,000 | 380 | 9,110 | 3 | 168 | 56 |

100mm (4") T-18 meters of standard construction register 1 m³ per revolution of the mechanical output shaft.
 Table is based on base conditions of 101.325 kPa and Tb=15° C, and average atmospheric pressure Pa=99.8 kPa.
 Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 15.6° C and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 510 Nm³/hr, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.

100mm (G400) T-27 MARK II TURBO-METER 30° ROTOR ANGLE (S.I. Units - Cubic Meters)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS LOSS @760 Nm ³ /hr kPa | (1) APPROX. PRESS LOSS @510 Nm ³ /hr kPa |
|-----------------------|----------------|---------------------|----------------------|---------------------|----------------------|--------------------|--------------------|---|---|
| S=(Fpv) ² | kPa | Nm ³ /hr | Nm ³ /day | Nm ³ /hr | Nm ³ /day | m ³ /hr | | | |
| 1.0000 | 1.72 | 760 | 18,000 | 51 | 1,220 | 51 | 15 | 0.76 | 0.36 |
| 1.0008 | 34 | 1,020 | 24,000 | 59 | 1,410 | 44 | 17 | 1.0 | 0.48 |
| 1.0016 | 69 | 1,270 | 31,000 | 66 | 1,580 | 40 | 19 | 1.3 | 0.60 |
| 1.0024 | 103 | 1,530 | 37,000 | 72 | 1,730 | 36 | 21 | 1.5 | 0.73 |
| 1.0032 | 138 | 1,780 | 43,000 | 78 | 1,880 | 33 | 23 | 1.8 | 0.85 |
| 1.0040 | 172 | 2,070 | 50,000 | 84 | 2,010 | 31 | 25 | 2.0 | 1.0 |
| 1.0080 | 345 | 3,370 | 81,000 | 107 | 2,570 | 24 | 31 | 3.3 | 1.6 |
| 1.0121 | 517 | 4,700 | 113,000 | 126 | 3,030 | 21 | 37 | 5.0 | 2.2 |
| 1.0162 | 689 | 6,030 | 145,000 | 143 | 3,440 | 18 | 42 | 6.0 | 2.9 |
| 1.0203 | 862 | 7,390 | 177,000 | 158 | 3,800 | 16 | 47 | 7.0 | 3.5 |
| 1.0330 | 1,379 | 11,500 | 276,000 | 198 | 4,750 | 13 | 58 | 11 | 5.5 |
| 1.0502 | 2,068 | 17,140 | 411,000 | 241 | 5,790 | 11 | 71 | 17 | 8.1 |
| 1.0680 | 2,758 | 22,970 | 551,000 | 280 | 6,710 | 9 | 82 | 23 | 11 |
| 1.0863 | 3,447 | 29,010 | 696,000 | 314 | 7,540 | 8 | 92 | 29 | 14 |
| 1.1050 | 4,137 | 35,270 | 846,000 | 346 | 8,310 | 8 | 102 | 35 | 17 |
| 1.1241 | 4,826 | 41,700 | 1,001,000 | 376 | 9,040 | 7 | 111 | 41 | 20 |
| 1.1435 | 5,516 | 48,360 | 1,161,000 | 405 | 9,730 | 7 | 119 | 48 | 23 |
| 1.1630 | 6,205 | 55,210 | 1,325,000 | 433 | 10,400 | 6 | 127 | 55 | 26 |
| 1.1826 | 6,895 | 62,290 | 1,495,000 | 460 | 11,040 | 6 | 135 | 62 | 30 |
| 1.2021 | 7,584 | 69,570 | 1,670,000 | 486 | 11,670 | 5 | 143 | 69 | 33 |
| 1.2212 | 8,274 | 77,020 | 1,849,000 | 512 | 12,280 | 5 | 151 | 76 | 37 |
| 1.2397 | 8,963 | 84,620 | 2,031,000 | 536 | 12,870 | 5 | 158 | 84 | 40 |
| 1.2641 | 9,928 | 95,470 | 2,291,000 | 570 | 13,670 | 5 | 168 | 94 | 45 |

100mm (4") T-27 meters of standard construction register 1 m³ per revolution of the mechanical output shaft.
 Table is based on base conditions of 101.325 kPa and Tb=15° C, and average atmospheric pressure Pa=99.8 kPa.
 Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 15.6° C and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 760 Nm³/hr, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.
 (1) There is approximately 20% less pressure loss when compared to our T-18 Turbo-Meter at 510 Nm³/hr.

6" T-35 MARK II TURBO-METER 45° ROTOR ANGLE (U.S. Units - Cubic Feet)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/ MIN FLOW RANGE | APPROX. PRESS LOSS INCHES W.C. |
|-----------------------|----------------|------------------|------------------|------------------|------------------|---------------|---------------------|--------------------------------|
| S=(Fpv) ² | PSIG | SCFH | MSCFD | SCFH | MSCFD | ACFH | | @35000 ACFH |
| 1.0000 | 0.25 | 35,000 | 840 | 1,750 | 42 | 1,750 | 20 | 2.4 |
| 1.0008 | 5 | 46,000 | 1,100 | 2,010 | 48 | 1,520 | 23 | 3.2 |
| 1.0016 | 10 | 58,000 | 1,390 | 2,260 | 54 | 1,360 | 26 | 4.0 |
| 1.0024 | 15 | 70,000 | 1,680 | 2,480 | 60 | 1,240 | 28 | 5.0 |
| 1.0032 | 20 | 82,000 | 1,970 | 2,680 | 64 | 1,140 | 31 | 6.0 |
| 1.0040 | 25 | 94,000 | 2,260 | 2,870 | 69 | 1,070 | 33 | 6 |
| 1.0080 | 50 | 154,000 | 3,700 | 3,680 | 88 | 830 | 42 | 11 |
| 1.0121 | 75 | 215,000 | 5,160 | 4,340 | 104 | 710 | 50 | 15 |
| 1.0162 | 100 | 276,000 | 6,620 | 4,920 | 118 | 620 | 56 | 19 |
| 1.0203 | 125 | 338,000 | 8,110 | 5,440 | 131 | 560 | 62 | 23 |
| 1.0330 | 200 | 526,000 | 12,620 | 6,790 | 163 | 450 | 77 | 36 |
| 1.0502 | 300 | 785,000 | 18,840 | 8,290 | 199 | 370 | 95 | 54 |
| 1.0680 | 400 | 1,052,000 | 25,250 | 9,590 | 230 | 320 | 110 | 72 |
| 1.0863 | 500 | 1,328,000 | 31,870 | 10,780 | 259 | 280 | 123 | 91 |
| 1.1050 | 600 | 1,613,000 | 38,710 | 11,880 | 285 | 260 | 136 | 111 |
| 1.1241 | 700 | 1,908,000 | 45,790 | 12,920 | 310 | 240 | 148 | 131 |
| 1.1435 | 800 | 2,213,000 | 53,110 | 13,920 | 334 | 220 | 159 | 152 |
| 1.1630 | 900 | 2,527,000 | 60,650 | 14,870 | 357 | 210 | 170 | 173 |
| 1.1826 | 1,000 | 2,851,000 | 68,420 | 15,790 | 379 | 190 | 181 | 195 |
| 1.2021 | 1,100 | 3,183,000 | 76,390 | 16,690 | 401 | 180 | 191 | 218 |
| 1.2212 | 1,200 | 3,524,000 | 84,580 | 17,560 | 421 | 170 | 201 | 242 |
| 1.2397 | 1,300 | 3,872,000 | 92,930 | 18,410 | 442 | 170 | 210 | 266 |
| 1.2641 | 1,440 | 4,369,000 | 104,860 | 19,550 | 469 | 160 | 223 | 300 |

6" Model T-35 meters of standard construction register 100 cubic feet per revolution of the mechanical output shaft. Table is based on base conditions of Pb=14.73 PSIA and Tb=60° F, and average atmospheric pressure Pa=14.48 PSIA. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 60°F and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 35,000 ACFH, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.

6" T-57 MARK II TURBO-METER 30° ROTOR ANGLE (U.S. Units - Cubic Feet)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/ MIN FLOW RANGE | APPROX. PRESS LOSS INCHES W.C. | (1) APPROX. PRESS LOSS INCHES W.C. |
|-----------------------|----------------|------------------|------------------|------------------|------------------|---------------|---------------------|--------------------------------|------------------------------------|
| S=(Fpv) ² | PSIG | SCFH | MSCFD | SCFH | MSCFD | ACFH | | @57000 ACFH | @35000 ACFH |
| 1.0000 | 0.25 | 57,000 | 1,370 | 2,850 | 68 | 2,850 | 20 | 5.1 | 2.1 |
| 1.0008 | 5 | 75,000 | 1,800 | 3,280 | 79 | 2,480 | 23 | 6.7 | 2.7 |
| 1.0016 | 10 | 95,000 | 2,280 | 3,680 | 88 | 2,210 | 26 | 8.5 | 3.4 |
| 1.0024 | 15 | 114,000 | 2,740 | 4,040 | 97 | 2,010 | 28 | 10 | 4.1 |
| 1.0032 | 20 | 134,000 | 3,220 | 4,370 | 105 | 1,860 | 31 | 12 | 4.8 |
| 1.0040 | 25 | 153,000 | 3,670 | 4,680 | 112 | 1,740 | 33 | 14 | 5.5 |
| 1.0080 | 50 | 252,000 | 6,050 | 5,990 | 144 | 1,360 | 42 | 23 | 9.0 |
| 1.0121 | 75 | 350,000 | 8,400 | 7,070 | 170 | 1,150 | 50 | 31 | 13 |
| 1.0162 | 100 | 450,000 | 10,800 | 8,010 | 192 | 1,010 | 56 | 40 | 16 |
| 1.0203 | 125 | 551,000 | 13,220 | 8,860 | 213 | 920 | 62 | 49 | 20 |
| 1.0330 | 200 | 857,000 | 20,570 | 11,050 | 265 | 730 | 78 | 77 | 31 |
| 1.0502 | 300 | 1,278,000 | 30,670 | 13,500 | 324 | 600 | 95 | 114 | 46 |
| 1.0680 | 400 | 1,713,000 | 41,110 | 15,620 | 375 | 520 | 110 | 153 | 62 |
| 1.0863 | 500 | 2,163,000 | 51,910 | 17,560 | 421 | 460 | 123 | 194 | 78 |
| 1.1050 | 600 | 2,627,000 | 63,050 | 19,350 | 464 | 420 | 136 | 235 | 94 |
| 1.1241 | 700 | 3,108,000 | 74,590 | 21,040 | 505 | 390 | 148 | 278 | 112 |
| 1.1435 | 800 | 3,604,000 | 86,500 | 22,660 | 544 | 360 | 159 | 322 | 130 |
| 1.1630 | 900 | 4,116,000 | 98,780 | 24,220 | 581 | 340 | 170 | 368 | 148 |
| 1.1826 | 1,000 | 4,643,000 | 111,430 | 25,720 | 617 | 320 | 181 | 415 | 167 |
| 1.2021 | 1,100 | 5,184,000 | 124,420 | 27,180 | 652 | 300 | 191 | 464 | 186 |
| 1.2212 | 1,200 | 5,739,000 | 137,740 | 28,600 | 686 | 280 | 201 | 514 | 206 |
| 1.2397 | 1,300 | 6,306,000 | 151,340 | 29,980 | 720 | 270 | 210 | 564 | 227 |
| 1.2641 | 1,440 | 7,115,000 | 170,760 | 31,840 | 764 | 260 | 223 | 637 | 256 |

6" Model T-57 meters of standard construction register 100 cubic feet per revolution of the mechanical output shaft. Table is based on base conditions of Pb=14.73 PSIA and Tb=60° F, and average atmospheric pressure Pa=14.48 PSIA. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 60°F and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 57,000 ACFH, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.
 (1) There is approximately 15% less pressure loss when compared to our T-35 Turbo-Meter @990 Nm³/hr.

150mm (G650) T-35 MARK II TURBO-METER 45° ROTOR ANGLE (S.I. Units - Cubic Meters)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/ MIN FLOW RANGE | APPROX. PRESS LOSS @1000 Nm ³ /hr kPa |
|-----------------------|----------------|---------------------|----------------------|---------------------|----------------------|--------------------|---------------------|--|
| S=(Fpv) ² | kPa | Nm ³ /hr | Nm ³ /day | Nm ³ /hr | Nm ³ /day | m ³ /hr | | |
| 1.0000 | 1.72 | 1,000 | 24,000 | 50 | 1,190 | 50 | 20 | 0.6 |
| 1.0008 | 34 | 1,300 | 31,000 | 57 | 1,370 | 43 | 23 | 0.8 |
| 1.0016 | 69 | 1,640 | 39,000 | 64 | 1,540 | 39 | 26 | 1.0 |
| 1.0024 | 103 | 1,980 | 48,000 | 70 | 1,690 | 34 | 28 | 1.2 |
| 1.0032 | 138 | 2,320 | 56,000 | 76 | 1,820 | 32 | 31 | 1.5 |
| 1.0040 | 172 | 2,660 | 64,000 | 81 | 1,950 | 30 | 33 | 1.5 |
| 1.0080 | 345 | 4,360 | 105,000 | 104 | 2,500 | 24 | 42 | 2.7 |
| 1.0121 | 517 | 6,090 | 146,000 | 123 | 2,950 | 20 | 50 | 4.0 |
| 1.0162 | 689 | 7,820 | 188,000 | 139 | 3,390 | 18 | 56 | 5.0 |
| 1.0203 | 862 | 9,570 | 230,000 | 154 | 3,700 | 16 | 62 | 6.0 |
| 1.0330 | 1,379 | 14,900 | 357,000 | 192 | 4,620 | 13 | 70 | 9 |
| 1.0502 | 2,068 | 22,240 | 534,000 | 235 | 5,640 | 10 | 95 | 13 |
| 1.0680 | 2,758 | 29,800 | 715,000 | 272 | 6,520 | 9 | 110 | 18 |
| 1.0863 | 3,447 | 37,620 | 903,000 | 305 | 7,330 | 8 | 123 | 23 |
| 1.1050 | 4,137 | 45,690 | 1,097,000 | 337 | 8,080 | 7 | 136 | 28 |
| 1.1241 | 4,826 | 54,050 | 1,297,000 | 366 | 8,780 | 7 | 148 | 33 |
| 1.1435 | 5,516 | 62,690 | 1,505,000 | 394 | 9,460 | 6 | 159 | 38 |
| 1.1630 | 6,205 | 71,580 | 1,718,000 | 421 | 10,110 | 6 | 170 | 43 |
| 1.1826 | 6,895 | 80,760 | 1,938,000 | 447 | 10,740 | 5 | 181 | 49 |
| 1.2021 | 7,584 | 90,170 | 2,164,000 | 473 | 11,350 | 5 | 191 | 54 |
| 1.2212 | 8,274 | 99,830 | 2,396,000 | 497 | 11,940 | 5 | 201 | 60 |
| 1.2397 | 8,963 | 109,690 | 2,633,000 | 522 | 12,520 | 5 | 210 | 66 |
| 1.2641 | 9,928 | 123,770 | 2,970,000 | 554 | 13,290 | 5 | 223 | 75 |

150mm (6") T-35 meters of standard construction register 1 m³ per revolution of the mechanical output shaft.
 Table is based on IGU standard reference conditions of Pb=101.325 kPa and Tb=15° C, and average atmospheric pressure Pa=99.8 kPa.
 Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 15.6°C and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 1000 Nm³/hr, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/- 1% measurement accuracy for all pressures and flowrates shown.

150mm (G1000) T-57 MARK II TURBO-METER 30° ROTOR ANGLE (S.I. Units - Cubic Meters)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/ MIN FLOW RANGE | APPROX. PRESS LOSS @1620 Nm ³ /hr kPa | (1) APPROX. PRESS LOSS @1000 Nm ³ /hr kPa |
|-----------------------|----------------|---------------------|----------------------|---------------------|----------------------|--------------------|---------------------|--|--|
| S=(Fpv) ² | kPa | Nm ³ /hr | Nm ³ /day | Nm ³ /hr | Nm ³ /day | m ³ /hr | | | |
| 1.0000 | 1.72 | 1,620 | 39,000 | 81 | 1,940 | 81 | 20 | 1.3 | 0.51 |
| 1.0008 | 34 | 2,120 | 51,000 | 93 | 2,230 | 70 | 23 | 1.7 | 0.68 |
| 1.0016 | 69 | 2,690 | 65,000 | 104 | 2,500 | 63 | 26 | 2.1 | 0.85 |
| 1.0024 | 103 | 3,230 | 78,000 | 114 | 2,750 | 57 | 28 | 2.5 | 1.0 |
| 1.0032 | 138 | 3,800 | 91,000 | 124 | 2,970 | 53 | 31 | 3.0 | 1.2 |
| 1.0040 | 172 | 4,330 | 104,000 | 133 | 3,180 | 49 | 33 | 3.5 | 1.4 |
| 1.0080 | 345 | 7,140 | 171,000 | 170 | 4,070 | 39 | 42 | 5.7 | 2.3 |
| 1.0121 | 517 | 9,910 | 238,000 | 200 | 4,810 | 33 | 50 | 8.0 | 3.2 |
| 1.0162 | 689 | 12,750 | 306,000 | 227 | 5,450 | 29 | 56 | 10 | 4.0 |
| 1.0203 | 862 | 15,610 | 374,000 | 251 | 6,020 | 26 | 62 | 12 | 5.0 |
| 1.0330 | 1,379 | 24,280 | 583,000 | 313 | 7,510 | 21 | 78 | 19 | 7.7 |
| 1.0502 | 2,068 | 36,200 | 869,000 | 382 | 9,180 | 17 | 95 | 28 | 11 |
| 1.0680 | 2,758 | 48,530 | 1,165,000 | 442 | 10,620 | 15 | 110 | 38 | 15 |
| 1.0863 | 3,447 | 61,270 | 1,471,000 | 497 | 11,940 | 13 | 123 | 48 | 19 |
| 1.1050 | 4,137 | 74,420 | 1,786,000 | 548 | 13,160 | 12 | 136 | 59 | 23 |
| 1.1241 | 4,826 | 88,040 | 2,113,000 | 596 | 14,300 | 11 | 148 | 69 | 28 |
| 1.1435 | 5,516 | 102,090 | 2,450,000 | 642 | 15,410 | 10 | 159 | 80 | 32 |
| 1.1630 | 6,205 | 116,600 | 2,798,000 | 686 | 16,470 | 10 | 170 | 92 | 37 |
| 1.1826 | 6,895 | 131,530 | 3,157,000 | 729 | 17,490 | 9 | 181 | 103 | 42 |
| 1.2021 | 7,584 | 146,850 | 3,525,000 | 770 | 18,480 | 8 | 191 | 115 | 46 |
| 1.2212 | 8,274 | 162,570 | 3,902,000 | 810 | 19,440 | 8 | 201 | 128 | 51 |
| 1.2397 | 8,963 | 178,640 | 4,287,000 | 849 | 20,380 | 8 | 210 | 140 | 56 |
| 1.2641 | 9,928 | 201,550 | 4,837,000 | 902 | 21,650 | 7 | 223 | 158 | 64 |

150mm (6") T-57 meters of standard construction register 1 m³ per revolution of the mechanical output shaft.
 Table is based on IGU standard reference conditions of Pb=101.325 kPa and Tb=15° C, and average atmospheric pressure Pa=99.8 kPa.
 Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 15.6°C and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 1620 Nm³/hr, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/- 1% measurement accuracy for all pressures and flowrates shown.
 (1) There is approximately 15% less pressure loss when compared to our T-35 Turbo-Meter @1000 Nm³/hr.

8" T-60 MARK II TURBO-METER 45° ROTOR ANGLE (U.S. Units - Cubic Feet)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS LOSS INCHES W.C. |
|-----------------------|----------------|------------------|------------------|------------------|------------------|---------------|--------------------|--------------------------------|
| $S=(Fpv)^2$ | PSIG | SCFH | MSCFD | SCFH | MSCFD | ACFH | | @60000 ACFH |
| 1.0000 | 0.25 | 60,000 | 1,440 | 3,000 | 72 | 3,000 | 20 | 2.0 |
| 1.0008 | 5 | 79,000 | 1,900 | 3,500 | 84 | 2,610 | 23 | 2.6 |
| 1.0016 | 10 | 100,000 | 2,400 | 3,900 | 94 | 2,330 | 26 | 3.3 |
| 1.0024 | 15 | 120,000 | 2,880 | 4,200 | 101 | 2,120 | 29 | 4.0 |
| 1.0032 | 20 | 141,000 | 3,380 | 4,600 | 110 | 1,960 | 31 | 4.7 |
| 1.0040 | 25 | 161,000 | 3,860 | 4,900 | 118 | 1,830 | 33 | 5.4 |
| 1.0080 | 50 | 265,000 | 6,360 | 6,300 | 151 | 1,430 | 42 | 8.8 |
| 1.0121 | 75 | 369,000 | 8,860 | 7,400 | 178 | 1,210 | 50 | 12 |
| 1.0162 | 100 | 474,000 | 11,380 | 8,400 | 202 | 1,070 | 56 | 16 |
| 1.0203 | 125 | 580,000 | 13,920 | 9,300 | 223 | 970 | 62 | 19 |
| 1.0330 | 200 | 902,000 | 21,650 | 11,600 | 278 | 770 | 78 | 30 |
| 1.0502 | 300 | 1,345,000 | 32,280 | 14,200 | 341 | 630 | 95 | 45 |
| 1.0680 | 400 | 1,803,000 | 43,270 | 16,400 | 394 | 550 | 110 | 60 |
| 1.0863 | 500 | 2,276,000 | 54,620 | 18,500 | 444 | 490 | 123 | 76 |
| 1.1050 | 600 | 2,766,000 | 66,380 | 20,400 | 490 | 440 | 136 | 92 |
| 1.1241 | 700 | 3,271,000 | 78,500 | 22,200 | 533 | 410 | 147 | 109 |
| 1.1435 | 800 | 3,794,000 | 91,060 | 23,900 | 574 | 380 | 159 | 129 |
| 1.1630 | 900 | 4,332,000 | 103,970 | 25,500 | 612 | 350 | 170 | 144 |
| 1.1826 | 1,000 | 4,887,000 | 117,290 | 27,100 | 650 | 330 | 180 | 163 |
| 1.2021 | 1,100 | 5,457,000 | 130,970 | 28,600 | 686 | 310 | 191 | 182 |
| 1.2212 | 1,200 | 6,041,000 | 144,980 | 30,100 | 722 | 300 | 211 | 201 |
| 1.2397 | 1,300 | 6,683,000 | 159,310 | 31,600 | 758 | 290 | 210 | 229 |
| 1.2641 | 1,440 | 7,489,000 | 179,740 | 33,500 | 804 | 270 | 224 | 250 |

8" Model T-60 meters of standard construction register 1000 cubic feet per revolution of the mechanical output shaft. Table is based on base conditions of Pb=14.73 PSIA and Tb=60° F, and average atmospheric pressure Pa=14.48 PSIA. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 60°F and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 60,000 ACFH, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above table are based on +/-1% measurement accuracy for all pressures and flowrates shown.

8" T-90 MARK II TURBO-METER 30° ROTOR ANGLE (U.S. Units - Cubic Feet)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS LOSS INCHES W.C. | (1) APPROX. PRESS LOSS INCHES W.C. |
|-----------------------|----------------|------------------|------------------|------------------|------------------|---------------|--------------------|--------------------------------|------------------------------------|
| $S=(Fpv)^2$ | PSIG | SCFH | MSCFD | SCFH | MSCFD | ACFH | | @90000 ACFH | @60000 ACFH |
| 1.0000 | 0.25 | 90,000 | 2,160 | 4,500 | 108 | 4,500 | 20 | 3.9 | 1.9 |
| 1.0008 | 5 | 119,000 | 2,860 | 5,180 | 124 | 3,910 | 23 | 5.1 | 2.4 |
| 1.0016 | 10 | 150,000 | 3,600 | 5,810 | 139 | 3,490 | 26 | 6.5 | 3.1 |
| 1.0024 | 15 | 181,000 | 4,340 | 6,370 | 153 | 3,180 | 28 | 7.8 | 3.7 |
| 1.0032 | 20 | 211,000 | 5,060 | 6,900 | 166 | 2,940 | 31 | 9.1 | 4.3 |
| 1.0040 | 25 | 242,000 | 5,810 | 7,380 | 177 | 2,740 | 33 | 10 | 5.0 |
| 1.0080 | 50 | 397,000 | 9,530 | 9,450 | 227 | 2,140 | 42 | 17 | 8.2 |
| 1.0121 | 75 | 553,000 | 13,270 | 11,160 | 268 | 1,810 | 50 | 24 | 11 |
| 1.0162 | 100 | 711,000 | 17,060 | 12,650 | 304 | 1,600 | 56 | 31 | 15 |
| 1.0203 | 125 | 870,000 | 20,880 | 13,990 | 336 | 1,450 | 62 | 38 | 18 |
| 1.0330 | 200 | 1,354,000 | 32,500 | 17,450 | 419 | 1,160 | 78 | 59 | 28 |
| 1.0502 | 300 | 2,018,000 | 48,430 | 21,310 | 511 | 950 | 95 | 87 | 41 |
| 1.0680 | 400 | 2,705,000 | 64,920 | 24,670 | 592 | 820 | 110 | 117 | 56 |
| 1.0863 | 500 | 3,415,000 | 81,960 | 27,720 | 665 | 730 | 123 | 148 | 70 |
| 1.1050 | 600 | 4,149,000 | 99,580 | 30,550 | 733 | 660 | 136 | 179 | 85 |
| 1.1241 | 700 | 4,907,000 | 117,770 | 33,230 | 798 | 610 | 148 | 212 | 101 |
| 1.1435 | 800 | 5,691,000 | 136,580 | 35,780 | 859 | 570 | 159 | 246 | 117 |
| 1.1630 | 900 | 6,498,000 | 155,950 | 38,240 | 918 | 530 | 170 | 281 | 134 |
| 1.1826 | 1,000 | 7,330,000 | 175,920 | 40,610 | 975 | 500 | 180 | 317 | 151 |
| 1.2021 | 1,100 | 8,186,000 | 196,460 | 42,920 | 1,030 | 470 | 191 | 354 | 168 |
| 1.2212 | 1,200 | 9,062,000 | 217,490 | 45,150 | 1,084 | 450 | 201 | 392 | 186 |
| 1.2397 | 1,300 | 9,957,000 | 238,970 | 47,330 | 1,136 | 430 | 210 | 430 | 205 |
| 1.2641 | 1,440 | 11,234,000 | 269,620 | 50,280 | 1,207 | 400 | 223 | 486 | 231 |

8" Model T-90 meters of standard construction register 1000 cubic feet per revolution of the mechanical output shaft. Table is based on base conditions of Pb=14.73 PSIA and Tb=60° F, and average atmospheric pressure Pa=14.48 PSIA. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 60°F and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 90,000 ACFH, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above table are based on +/-1% measurement accuracy for all pressures and flowrates shown.
 (1) There is approximately 7% less pressure loss when compared to our T-60 Turbo-Meter at 60,000 ACFH.

200mm (G1000) T-60 MARK II TURBO-METER 45° ROTOR ANGLE (S.I. Units - Cubic Meters)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS LOSS @1700 Nm ³ /hr kPa |
|-----------------------|----------------|---------------------|----------------------|---------------------|----------------------|--------------------|--------------------|--|
| S=[Fpv] ² | kPa | Nm ³ /hr | Nm ³ /day | Nm ³ /hr | Nm ³ /day | m ³ /hr | | |
| 1.0000 | 1.72 | 1,700 | 41,000 | 85 | 2,040 | 85 | 20 | 0.5 |
| 1.0008 | 34 | 2,240 | 54,000 | 99 | 2,380 | 74 | 23 | 0.7 |
| 1.0016 | 69 | 2,830 | 68,000 | 110 | 2,650 | 68 | 26 | 0.8 |
| 1.0024 | 103 | 3,400 | 82,000 | 119 | 2,860 | 60 | 29 | 1.0 |
| 1.0032 | 138 | 3,990 | 96,000 | 130 | 3,130 | 56 | 31 | 1.2 |
| 1.0040 | 172 | 4,560 | 109,000 | 139 | 3,330 | 52 | 33 | 1.3 |
| 1.0080 | 345 | 7,510 | 180,000 | 178 | 4,280 | 40 | 42 | 2.2 |
| 1.0121 | 517 | 10,450 | 251,000 | 210 | 5,030 | 34 | 50 | 3.0 |
| 1.0162 | 689 | 13,430 | 322,000 | 238 | 5,710 | 30 | 56 | 4.0 |
| 1.0203 | 862 | 16,430 | 394,000 | 263 | 6,320 | 27 | 62 | 4.7 |
| 1.0330 | 1,379 | 25,550 | 613,000 | 329 | 7,890 | 22 | 78 | 7.5 |
| 1.0502 | 2,068 | 38,100 | 914,000 | 402 | 9,650 | 18 | 95 | 11 |
| 1.0680 | 2,758 | 51,080 | 1,226,000 | 465 | 11,150 | 16 | 110 | 15 |
| 1.0863 | 3,447 | 64,470 | 1,547,000 | 524 | 12,580 | 14 | 123 | 19 |
| 1.1050 | 4,137 | 78,360 | 1,880,000 | 578 | 13,870 | 12 | 136 | 23 |
| 1.1241 | 4,826 | 92,660 | 2,224,000 | 629 | 15,090 | 12 | 147 | 27 |
| 1.1435 | 5,516 | 107,480 | 2,580,000 | 677 | 16,250 | 11 | 159 | 31 |
| 1.1630 | 6,205 | 122,720 | 2,945,000 | 722 | 17,340 | 10 | 170 | 36 |
| 1.1826 | 6,895 | 138,440 | 3,323,000 | 768 | 18,420 | 9 | 180 | 41 |
| 1.2021 | 7,584 | 154,590 | 3,710,000 | 810 | 19,440 | 9 | 191 | 45 |
| 1.2212 | 8,274 | 171,130 | 4,107,000 | 853 | 20,460 | 8 | 201 | 50 |
| 1.2397 | 8,963 | 188,040 | 4,513,000 | 895 | 21,480 | 8 | 210 | 55 |
| 1.2641 | 9,928 | 212,150 | 5,092,000 | 949 | 22,780 | 8 | 224 | 62 |

200mm (8") T-60 meters of standard construction register 10 m³ per revolution of the mechanical output shaft.

Table is based on IGU standard reference conditions of Pb=101.325 kPa and Tb=15° C, and average atmospheric pressure Pa=99.8 kPa. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 15.6°C and 0% CO₂ and N₂ (per A.G.A. Report No. 8).

Note: Maximum flow rate (dial rate) at flowing conditions is equal to 1,700 Nm³/hr, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).

Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.

200mm (G1600) T-90 MARK II TURBO-METER 30° ROTOR ANGLE (S.I. Units - Cubic Meters)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS LOSS @2550 Nm ³ /hr kPa | (1) APPROX. PRESS LOSS @1700 Nm ³ /hr kPa |
|-----------------------|----------------|---------------------|----------------------|---------------------|----------------------|--------------------|--------------------|--|--|
| S=[Fpv] ² | kPa | Nm ³ /hr | Nm ³ /day | Nm ³ /hr | Nm ³ /day | m ³ /hr | | | |
| 1.0000 | 1.72 | 2,550 | 61,000 | 127 | 3,060 | 127 | 20 | 1.0 | 0.46 |
| 1.0008 | 34 | 3,370 | 81,000 | 147 | 3,520 | 111 | 23 | 1.3 | 0.61 |
| 1.0016 | 69 | 4,250 | 102,000 | 165 | 3,950 | 99 | 26 | 1.6 | 0.77 |
| 1.0024 | 103 | 5,130 | 123,000 | 180 | 4,330 | 90 | 28 | 1.9 | 0.92 |
| 1.0032 | 138 | 5,980 | 143,000 | 195 | 4,690 | 83 | 31 | 2.3 | 1.1 |
| 1.0040 | 172 | 6,860 | 165,000 | 209 | 5,020 | 78 | 33 | 2.6 | 1.2 |
| 1.0080 | 345 | 11,250 | 270,000 | 268 | 6,420 | 61 | 42 | 4.3 | 2.0 |
| 1.0121 | 517 | 15,670 | 376,000 | 316 | 7,590 | 51 | 50 | 6.0 | 2.8 |
| 1.0162 | 689 | 20,140 | 483,000 | 358 | 8,600 | 45 | 56 | 7.6 | 3.6 |
| 1.0203 | 862 | 24,650 | 591,000 | 396 | 9,510 | 41 | 62 | 9.4 | 4.4 |
| 1.0330 | 1,379 | 38,360 | 921,000 | 494 | 11,860 | 33 | 78 | 15 | 6.9 |
| 1.0502 | 2,068 | 57,170 | 1,372,000 | 604 | 14,490 | 27 | 95 | 22 | 10 |
| 1.0680 | 2,758 | 76,630 | 1,839,000 | 699 | 16,770 | 23 | 110 | 29 | 14 |
| 1.0863 | 3,447 | 96,740 | 2,322,000 | 785 | 18,850 | 21 | 123 | 37 | 17 |
| 1.1050 | 4,137 | 117,530 | 2,821,000 | 865 | 20,770 | 19 | 136 | 45 | 21 |
| 1.1241 | 4,826 | 139,010 | 3,336,000 | 941 | 22,590 | 17 | 148 | 53 | 25 |
| 1.1435 | 5,516 | 161,210 | 3,869,000 | 1,014 | 24,330 | 16 | 159 | 61 | 29 |
| 1.1630 | 6,205 | 184,080 | 4,418,000 | 1,083 | 26,000 | 15 | 170 | 70 | 33 |
| 1.1826 | 6,895 | 207,640 | 4,983,000 | 1,150 | 27,610 | 14 | 180 | 79 | 37 |
| 1.2021 | 7,584 | 231,890 | 5,565,000 | 1,216 | 29,180 | 13 | 191 | 88 | 42 |
| 1.2212 | 8,274 | 256,710 | 6,161,000 | 1,279 | 30,700 | 13 | 201 | 97 | 46 |
| 1.2397 | 8,963 | 282,060 | 6,770,000 | 1,341 | 32,180 | 12 | 210 | 107 | 51 |
| 1.2641 | 9,928 | 318,240 | 7,638,000 | 1,424 | 34,180 | 11 | 223 | 121 | 57 |

200mm (8") T-90 meters of standard construction register 10 m³ per revolution of the mechanical output shaft.

Table is based on IGU standard reference conditions of Pb=101.325 kPa and Tb=15° C, and average atmospheric pressure Pa=99.8 kPa.

Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 15.6°C and 0% CO₂ and N₂ (per A.G.A. Report No. 8).

Note: Maximum flow rate (dial rate) at flowing conditions is equal to 2,550 Nm³/hr, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).

Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.

(1) There is approximately 7% less pressure loss when compared to our T-60 Turbo-Meter at 1,700 Nm³/hr.

12" T-140 MARK II TURBO-METER 45° ROTOR ANGLE (U.S. Units - Cubic Feet)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS LOSS INCHES W.C. @140000 ACFH |
|-----------------------|----------------|------------------|------------------|------------------|------------------|---------------|--------------------|---|
| $S=(Fpv)^2$ | PSIG | SCFH | MSCFD | SCFH | MSCFD | ACFH | | |
| 1.0000 | 0.25 | 140,000 | 3,360 | 5,600 | 134 | 5,600 | 25 | 1.4 |
| 1.0008 | 5 | 185,000 | 4,400 | 6,400 | 154 | 4,870 | 29 | 1.9 |
| 1.0016 | 10 | 233,000 | 5,590 | 7,200 | 173 | 4,340 | 32 | 2.3 |
| 1.0024 | 15 | 281,000 | 6,740 | 7,900 | 190 | 3,950 | 36 | 2.8 |
| 1.0032 | 20 | 329,000 | 7,900 | 8,600 | 206 | 3,650 | 38 | 3.3 |
| 1.0040 | 25 | 377,000 | 9,050 | 9,200 | 221 | 3,410 | 41 | 3.8 |
| 1.0080 | 50 | 618,000 | 14,830 | 11,800 | 283 | 2,670 | 52 | 6.2 |
| 1.0121 | 75 | 861,000 | 20,660 | 13,900 | 334 | 2,260 | 62 | 9 |
| 1.0162 | 100 | 1,106,000 | 26,540 | 15,700 | 377 | 1,990 | 70 | 11 |
| 1.0203 | 125 | 1,353,000 | 32,470 | 17,400 | 418 | 1,800 | 78 | 14 |
| 1.0330 | 200 | 2,106,000 | 50,540 | 21,700 | 521 | 1,440 | 97 | 21 |
| 1.0502 | 300 | 3,139,000 | 75,340 | 26,500 | 636 | 1,180 | 118 | 31 |
| 1.0680 | 400 | 4,207,000 | 100,970 | 30,700 | 737 | 1,020 | 137 | 42 |
| 1.0863 | 500 | 5,312,000 | 127,490 | 34,500 | 828 | 910 | 154 | 53 |
| 1.1050 | 600 | 6,454,000 | 154,900 | 38,000 | 912 | 820 | 170 | 65 |
| 1.1241 | 700 | 7,633,000 | 183,190 | 41,400 | 994 | 760 | 184 | 76 |
| 1.1435 | 800 | 8,852,000 | 212,450 | 44,500 | 1,068 | 700 | 199 | 89 |
| 1.1630 | 900 | 10,108,000 | 242,590 | 47,600 | 1,142 | 660 | 212 | 101 |
| 1.1826 | 1,000 | 11,403,000 | 273,670 | 50,500 | 1,212 | 620 | 226 | 114 |
| 1.2021 | 1,100 | 12,733,000 | 305,590 | 53,400 | 1,282 | 590 | 238 | 127 |
| 1.2212 | 1,200 | 14,096,000 | 338,300 | 56,200 | 1,349 | 560 | 251 | 141 |
| 1.2397 | 1,300 | 15,488,000 | 371,710 | 58,900 | 1,414 | 530 | 263 | 155 |
| 1.2641 | 1,440 | 17,475,000 | 419,400 | 62,600 | 1,502 | 500 | 279 | 175 |

12" Model T-140 meters of standard construction register 1000 cubic feet per revolution of the mechanical output shaft. Table is based on base conditions of Pb=14.73 PSIA and Tb=60° F, and average atmospheric pressure Pa=14.48 PSIA. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 60°F and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 140,000 ACFH, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.

12" T-230 MARK II TURBO-METER 30° ROTOR ANGLE (U.S. Units - Cubic Feet)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/MIN FLOW RANGE | APPROX. PRESS LOSS INCHES W.C. @230000 ACFH | (1) APPROX. PRESS LOSS INCHES W.C. @140000 ACFH |
|-----------------------|----------------|------------------|------------------|------------------|------------------|---------------|--------------------|---|---|
| $S=(Fpv)^2$ | PSIG | SCFH | MSCFD | SCFH | MSCFD | ACFH | | | |
| 1.0000 | 0.25 | 230,000 | 5,520 | 9,200 | 221 | 9,200 | 25 | 2.7 | 1.1 |
| 1.0008 | 5 | 304,000 | 7,300 | 10,580 | 254 | 8,000 | 29 | 3.5 | 1.5 |
| 1.0016 | 10 | 383,000 | 9,190 | 11,870 | 285 | 7,130 | 32 | 4.4 | 1.8 |
| 1.0024 | 15 | 461,000 | 11,060 | 13,030 | 313 | 6,500 | 35 | 5.4 | 2.2 |
| 1.0032 | 20 | 540,000 | 12,960 | 14,100 | 338 | 6,000 | 38 | 6.3 | 2.6 |
| 1.0040 | 25 | 619,000 | 14,860 | 15,090 | 362 | 5,610 | 41 | 7.2 | 3.0 |
| 1.0080 | 50 | 1,015,000 | 24,360 | 19,330 | 464 | 4,380 | 53 | 12 | 4.9 |
| 1.0121 | 75 | 1,414,000 | 33,940 | 22,810 | 547 | 3,710 | 62 | 16 | 6.8 |
| 1.0162 | 100 | 1,816,000 | 43,580 | 25,850 | 620 | 3,270 | 70 | 21 | 8.7 |
| 1.0203 | 125 | 2,222,000 | 53,330 | 28,600 | 686 | 2,960 | 78 | 26 | 11 |
| 1.0330 | 200 | 3,459,000 | 83,020 | 35,680 | 856 | 2,370 | 97 | 40 | 17 |
| 1.0502 | 300 | 5,157,000 | 123,770 | 43,560 | 1,045 | 1,940 | 118 | 60 | 25 |
| 1.0680 | 400 | 6,912,000 | 165,890 | 50,430 | 1,210 | 1,680 | 137 | 80 | 33 |
| 1.0863 | 500 | 8,727,000 | 209,450 | 56,670 | 1,360 | 1,490 | 154 | 101 | 42 |
| 1.1050 | 600 | 10,602,000 | 254,450 | 62,460 | 1,499 | 1,360 | 170 | 123 | 51 |
| 1.1241 | 700 | 12,541,000 | 300,980 | 67,930 | 1,630 | 1,250 | 185 | 146 | 60 |
| 1.1435 | 800 | 14,543,000 | 349,030 | 73,160 | 1,756 | 1,160 | 199 | 169 | 70 |
| 1.1630 | 900 | 16,607,000 | 398,570 | 78,170 | 1,876 | 1,080 | 212 | 193 | 79 |
| 1.1826 | 1,000 | 18,733,000 | 449,590 | 83,030 | 1,993 | 1,020 | 226 | 217 | 90 |
| 1.2021 | 1,100 | 20,919,000 | 502,060 | 87,740 | 2,106 | 960 | 238 | 243 | 100 |
| 1.2212 | 1,200 | 23,158,000 | 555,790 | 92,320 | 2,216 | 920 | 251 | 269 | 111 |
| 1.2397 | 1,300 | 25,445,000 | 610,680 | 96,770 | 2,322 | 870 | 263 | 295 | 122 |
| 1.2641 | 1,440 | 28,709,000 | 689,020 | 102,790 | 2,467 | 820 | 279 | 333 | 137 |

12" Model T-230 meters of standard construction register 1000 cubic feet per revolution of the mechanical output shaft. Table is based on base conditions of Pb=14.73 PSIA and Tb=60° F, and average atmospheric pressure Pa=14.48 PSIA. Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 60°F and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
Note: Maximum flow rate (dial rate) at flowing conditions is equal to 230,000 ACFH, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.
 (1) There is approximately 20% less pressure loss when compared to our T-140 Turbo-Meter at 140,000 ACFH

300mm (G2500) T-140 MARK II TURBO-METER 45° ROTOR ANGLE (S.I. Units - Cubic Meters)

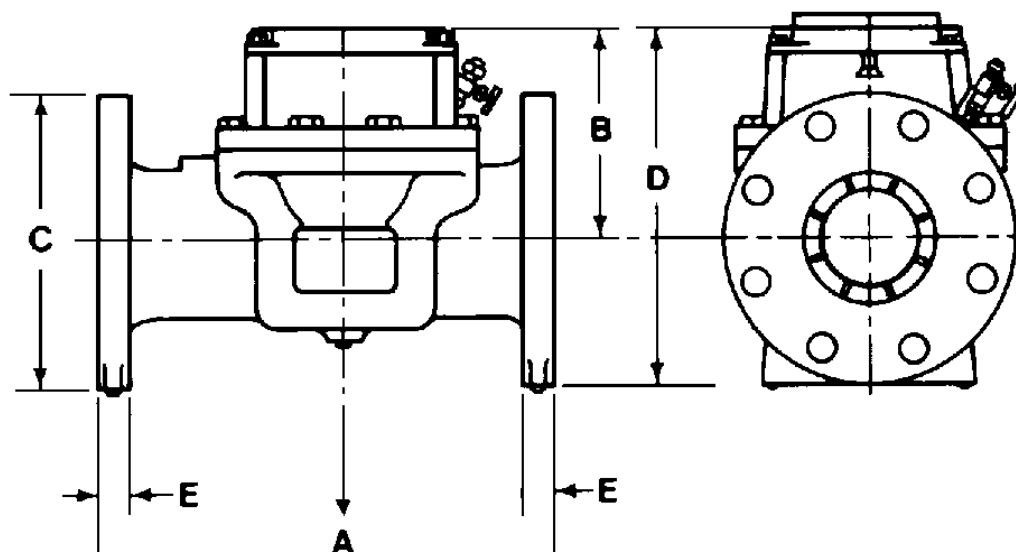
| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/ MIN FLOW RANGE | APPROX. PRESS LOSS @3970 Nm ³ /hr kPa |
|-----------------------|----------------|---------------------|----------------------|---------------------|----------------------|--------------------|---------------------|--|
| S=(Fpv) ² | kPa | Nm ³ /hr | Nm ³ /day | Nm ³ /hr | Nm ³ /day | m ³ /hr | | |
| 1.0000 | 1.72 | 3,970 | 95,000 | 159 | 3,810 | 159 | 25 | 0.3 |
| 1.0008 | 34 | 5,240 | 126,000 | 181 | 4,350 | 138 | 29 | 0.5 |
| 1.0016 | 69 | 6,600 | 158,000 | 204 | 4,900 | 123 | 32 | 0.6 |
| 1.0024 | 103 | 7,960 | 191,000 | 224 | 5,370 | 112 | 36 | 0.7 |
| 1.0032 | 138 | 9,320 | 224,000 | 244 | 5,850 | 103 | 38 | 0.8 |
| 1.0040 | 172 | 10,680 | 256,000 | 261 | 6,250 | 97 | 41 | 0.9 |
| 1.0080 | 345 | 17,510 | 420,000 | 334 | 8,020 | 76 | 52 | 1.5 |
| 1.0121 | 517 | 24,390 | 585,000 | 394 | 9,450 | 64 | 62 | 2.2 |
| 1.0162 | 689 | 31,330 | 752,000 | 445 | 10,670 | 56 | 70 | 2.7 |
| 1.0203 | 862 | 38,330 | 920,000 | 493 | 11,830 | 51 | 78 | 3.5 |
| 1.0330 | 1,379 | 59,660 | 1,432,000 | 615 | 14,750 | 41 | 97 | 5.2 |
| 1.0502 | 2,068 | 88,920 | 2,134,000 | 751 | 18,020 | 33 | 118 | 8 |
| 1.0680 | 2,758 | 119,180 | 2,860,000 | 870 | 20,870 | 29 | 137 | 10 |
| 1.0863 | 3,447 | 150,480 | 3,612,000 | 977 | 23,460 | 26 | 154 | 13 |
| 1.1050 | 4,137 | 182,830 | 4,388,000 | 1,076 | 25,840 | 23 | 170 | 16 |
| 1.1241 | 4,826 | 216,230 | 5,189,000 | 1,173 | 28,150 | 22 | 184 | 19 |
| 1.1435 | 5,516 | 250,760 | 6,018,000 | 1,261 | 30,250 | 20 | 199 | 22 |
| 1.1630 | 6,205 | 286,340 | 6,872,000 | 1,348 | 32,360 | 19 | 212 | 25 |
| 1.1826 | 6,895 | 323,020 | 7,753,000 | 1,431 | 34,330 | 18 | 226 | 28 |
| 1.2021 | 7,584 | 360,700 | 8,657,000 | 1,513 | 36,310 | 17 | 238 | 32 |
| 1.2212 | 8,274 | 399,310 | 9,583,000 | 1,592 | 38,210 | 16 | 251 | 35 |
| 1.2397 | 8,963 | 438,740 | 10,530,000 | 1,669 | 40,040 | 15 | 263 | 39 |
| 1.2641 | 9,928 | 495,030 | 11,881,000 | 1,773 | 42,560 | 14 | 279 | 44 |

300mm (12") T-140 meters of standard construction register 10 m³ per revolution of the mechanical output shaft.
 Table is based on IGU standard reference conditions of Pb=101.325 kPa and Tb=15° C, and average atmospheric pressure Pa=99.8 kPa.
 Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 15.6°C and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
 Note: Maximum flow rate (dial rate) at flowing conditions is equal to 3970 Nm³/hr, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.

300mm (G4000) T-230 MARK II TURBO-METER 30° ROTOR ANGLE (S.I. Units - Cubic Meters)

| COMPRESSIBILITY RATIO | METER PRESSURE | MAXIMUM FLOWRATE | MAXIMUM FLOWRATE | MINIMUM FLOWRATE | MINIMUM FLOWRATE | MIN DIAL RATE | MAX/ MIN FLOW RANGE | APPROX. PRESS LOSS @6520 Nm ³ /hr kPa | (1) APPROX. PRESS LOSS @3970 Nm ³ /hr kPa |
|-----------------------|----------------|---------------------|----------------------|---------------------|----------------------|--------------------|---------------------|--|--|
| S=(Fpv) ² | kPa | Nm ³ /hr | Nm ³ /day | Nm ³ /hr | Nm ³ /day | m ³ /hr | | | |
| 1.0000 | 1.72 | 6,520 | 156,000 | 261 | 6,250 | 261 | 25 | 0.66 | 0.27 |
| 1.0008 | 34 | 8,610 | 207,000 | 300 | 7,190 | 227 | 29 | 0.88 | 0.36 |
| 1.0016 | 69 | 10,850 | 260,000 | 336 | 8,070 | 202 | 32 | 1.1 | 0.46 |
| 1.0024 | 103 | 13,060 | 313,000 | 369 | 8,860 | 184 | 35 | 1.3 | 0.55 |
| 1.0032 | 138 | 15,300 | 367,000 | 399 | 9,590 | 170 | 38 | 1.6 | 0.64 |
| 1.0040 | 172 | 17,540 | 421,000 | 427 | 10,260 | 159 | 41 | 1.8 | 0.74 |
| 1.0080 | 345 | 28,750 | 690,000 | 548 | 13,140 | 124 | 53 | 2.9 | 1.2 |
| 1.0121 | 517 | 40,060 | 961,000 | 646 | 15,510 | 105 | 62 | 4.0 | 1.7 |
| 1.0162 | 689 | 51,440 | 1,235,000 | 732 | 17,570 | 93 | 70 | 5.0 | 2.2 |
| 1.0203 | 862 | 62,940 | 1,511,000 | 810 | 19,440 | 84 | 78 | 6.0 | 2.7 |
| 1.0330 | 1,379 | 97,990 | 2,352,000 | 1,011 | 24,260 | 67 | 97 | 10 | 4.2 |
| 1.0502 | 2,068 | 146,090 | 3,506,000 | 1,234 | 29,620 | 55 | 118 | 15 | 6.2 |
| 1.0680 | 2,758 | 195,800 | 4,699,000 | 1,429 | 34,290 | 48 | 137 | 20 | 8.2 |
| 1.0863 | 3,447 | 247,220 | 5,933,000 | 1,605 | 38,530 | 42 | 154 | 25 | 10 |
| 1.1050 | 4,137 | 300,330 | 7,208,000 | 1,769 | 42,460 | 39 | 170 | 31 | 13 |
| 1.1241 | 4,826 | 355,260 | 8,526,000 | 1,924 | 46,180 | 35 | 185 | 36 | 15 |
| 1.1435 | 5,516 | 411,970 | 9,887,000 | 2,072 | 49,740 | 33 | 199 | 42 | 17 |
| 1.1630 | 6,205 | 470,440 | 11,291,000 | 2,214 | 53,150 | 31 | 212 | 48 | 20 |
| 1.1826 | 6,895 | 530,670 | 12,736,000 | 2,352 | 56,450 | 29 | 226 | 54 | 22 |
| 1.2021 | 7,584 | 592,590 | 14,222,000 | 2,485 | 59,650 | 27 | 238 | 60 | 25 |
| 1.2212 | 8,274 | 656,020 | 15,744,000 | 2,615 | 62,770 | 26 | 251 | 67 | 28 |
| 1.2397 | 8,963 | 720,810 | 17,299,000 | 2,741 | 65,790 | 25 | 263 | 74 | 30 |
| 1.2641 | 9,928 | 813,270 | 19,519,000 | 2,912 | 69,880 | 23 | 279 | 83 | 34 |

300mm (12") T-230 meters of standard construction register 10 m³ per revolution of the mechanical output shaft.
 Table is based on IGU standard reference conditions of Pb=101.325 kPa and Tb=15° C, and average atmospheric pressure Pa=99.8 kPa.
 Table incorporates effect of supercompressibility factor (Fpv) for 0.6 specific gravity natural gas at 15.6°C and 0% CO₂ and N₂ (per A.G.A. Report No. 8).
 Note: Maximum flow rate (dial rate) at flowing conditions is equal to 6520 Nm³/hr, irrespective of the operating pressure (within the maximum allowable operating pressure of the meter).
 Performance ratings in the above tables are based on +/-1% measurement accuracy for all pressures and flowrates shown.
 (1) There is approximately 20% less pressure loss when compared to our T-140 Turbo-Meter at 3970 Nm³/hr.



4" T-18/27 MARK II (Dimension in inches)

| BODY MATERIAL | MAXIMUM RATED WORKING PRESSURE (PSIG) | A | B | C | D | E | METER SHIPPING WEIGHT (LBS.) | MINIMUM ACCEPT SPIN TIME (SEC.) |
|----------------|---------------------------------------|-----|----|-----|-----|----|------------------------------|---------------------------------|
| Aluminum | 175 | 14 | 6½ | 9 | 11¾ | 1⅝ | 36 | 70* |
| Steel/ANSI 150 | 275 | 15½ | 7⅞ | 9 | 11¾ | 1⅝ | 105 | 70* |
| Steel/ANSI 300 | 720 | 15½ | 7⅞ | 10 | 12⅝ | 1¼ | 140 | 70* |
| Steel/ANSI 600 | 1440 | 15½ | 7⅞ | 10¾ | 12⅞ | 1¼ | 175 | 70* |

Meter mounted instruments and indexes mount directly on the index plate of Mark II Turbo-Meters. Turbo-Meters of standard construction register 100 cubic feet per revolution of the mechanical output shaft.

* 50 seconds for plastic rotor T-18

8" T-60/90 MARK II (Dimension in inches)

| BODY MATERIAL | MAXIMUM RATED WORKING PRESSURE (PSIG) | A | B | C | D | E | METER SHIPPING WEIGHT (LBS.) | MINIMUM ACCEPT SPIN TIME (SEC.) |
|----------------|---------------------------------------|-----|-----|-----|-----|----|------------------------------|---------------------------------|
| Aluminum | 175 | 21 | 9⅞ | 13½ | 16⅞ | 1⅝ | 134 | 170 |
| Steel/ANSI 150 | 275 | 27¼ | 9⅞ | 13½ | 16⅞ | 1⅝ | 284 | 180 |
| Steel/ANSI 300 | 720 | 27¼ | 10⅞ | 15 | 17⅞ | 1⅝ | 430 | 180 |
| Steel/ANSI 600 | 1440 | 27¼ | 10⅞ | 16½ | 18⅞ | 2⅞ | 596 | 180 |

Meter mounted instruments and indexes mount directly on the index plate of Mark II Turbo-Meters. Turbo-Meters of standard construction register 1000 cubic feet per revolution of the mechanical output shaft.

6" T-35/57 MARK II (Dimension in inches)

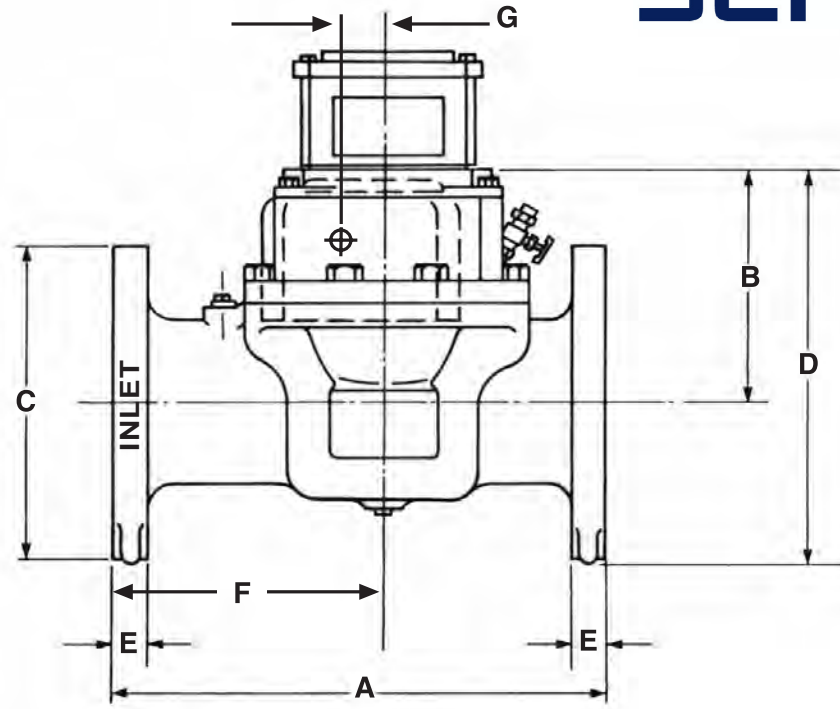
| BODY MATERIAL | MAXIMUM RATED WORKING PRESSURE (PSIG) | A | B | C | D | E | METER SHIPPING WEIGHT (LBS.) | MINIMUM ACCEPT SPIN TIME (SEC.) |
|----------------|---------------------------------------|-----|----|-----|-----|----|------------------------------|---------------------------------|
| Aluminum | 175 | 16 | 8⅞ | 11 | 14¾ | 1⅝ | 75 | 140 |
| Steel/ANSI 150 | 275 | 22½ | 8⅞ | 11 | 14¾ | 1 | 174 | 140 |
| Steel/ANSI 300 | 720 | 22½ | 8⅞ | 12½ | 15⅞ | 1⅞ | 280 | 140 |
| Steel/ANSI 600 | 1440 | 22½ | 8⅞ | 14 | 15⅞ | 2⅞ | 336 | 140 |

Meter mounted instruments and indexes mount directly on the index plate of Mark II Turbo-Meters. Turbo-Meters of standard construction register 100 cubic feet per revolution of the mechanical output shaft.

12" T-140/230 MARK II (Dimension in inches)

| BODY MATERIAL | MAXIMUM RATED WORKING PRESSURE (PSIG) | A | B | C | D | E | METER SHIPPING WEIGHT (LBS.) | MINIMUM ACCEPT SPIN TIME (SEC.) |
|----------------|---------------------------------------|-----|-----|-----|-----|----|------------------------------|---------------------------------|
| Ductile Iron | 220 | 30 | 12⅞ | 19 | 22¾ | 1¼ | 510 | 300 |
| Steel/ANSI 300 | 720 | 32½ | 12⅞ | 20½ | 23¾ | 2 | 790 | 300 |
| Steel/ANSI 600 | 1440 | 32½ | 12⅞ | 22 | 23¾ | 2⅞ | 1032 | 300 |

Meter mounted instruments and indexes mount directly on the index plate of Mark II Turbo-Meters. Turbo-Meters of standard construction register 1000 cubic feet per revolution of the mechanical output shaft.



100mm T-18/27 MARK II (Dimension in millimeters)

| BODY MATERIAL | MAXIMUM RATED WORKING PRESSURE (bar) | A | B | C | D | E | METER SHIPPING WEIGHT (Kg.) | MINIMUM ACCEPT SPIN TIME (SEC.) |
|----------------|--------------------------------------|-----|-----|-----|-----|----|-----------------------------|---------------------------------|
| Aluminum | 12 | 355 | 165 | 229 | 284 | 24 | 16.3 | 70' |
| Steel/ANSI 150 | 19 | 394 | 179 | 229 | 298 | 24 | 47.6 | 70' |
| Steel/ANSI 300 | 50 | 394 | 186 | 254 | 313 | 32 | 63.5 | 70' |
| Steel/ANSI 600 | 100 | 394 | 186 | 273 | 322 | 44 | 79.4 | 70' |

Meter mounted instruments and indexes mount directly on the index plate of Mark II Turbo-Meter. Turbo-Meters of standard construction register 1 cubic meters per revolution of the mechanical output shaft. Optional construction with one cubic meter per revolution is available.

* 50 seconds for plastic rotor T-18

200mm T-60/90 MARK II (Dimension in millimeters)

| BODY MATERIAL | MAXIMUM RATED WORKING PRESSURE (bar) | A | B | C | D | E | METER SHIPPING WEIGHT (Kg.) | MINIMUM ACCEPT SPIN TIME (SEC.) |
|----------------|--------------------------------------|-----|-----|-----|-----|----|-----------------------------|---------------------------------|
| Aluminum | 12 | 533 | 249 | 343 | 434 | 33 | 61 | 170 |
| Steel/ANSI 150 | 19 | 692 | 249 | 343 | 424 | 29 | 129 | 180 |
| Steel/ANSI 300 | 50 | 692 | 262 | 381 | 452 | 41 | 195 | 180 |
| Steel/ANSI 600 | 100 | 692 | 262 | 419 | 471 | 62 | 270 | 180 |

Meter mounted instruments and indexes mount directly on the index plate of Mark II Turbo-Meter. Turbo-Meters of standard construction register 1 cubic meters per revolution of the mechanical output shaft.

150mm T-35/57 MARK II (Dimension in millimeters)

| BODY MATERIAL | MAXIMUM RATED WORKING PRESSURE (bar) | A | B | C | D | E | METER SHIPPING WEIGHT (Kg.) | MINIMUM ACCEPT SPIN TIME (SEC.) |
|----------------|--------------------------------------|-----|-----|-----|-----|----|-----------------------------|---------------------------------|
| Aluminum | 12 | 406 | 217 | 279 | 360 | 29 | 33 | 140 |
| Steel/ANSI 150 | 19 | 572 | 217 | 279 | 360 | 25 | 79 | 140 |
| Steel/ANSI 300 | 50 | 572 | 225 | 318 | 384 | 37 | 127 | 140 |
| Steel/ANSI 600 | 100 | 572 | 225 | 356 | 403 | 54 | 152 | 140 |

Meter mounted instruments and indexes mount directly on the index plate of Mark II Turbo-Meter. Turbo-Meters of standard construction register 1 cubic meters per revolution of the mechanical output shaft. Optional construction with one cubic meter per revolution is available.

300mm T-140/230 MARK II (Dimension in millimeters)

| BODY MATERIAL | MAXIMUM RATED WORKING PRESSURE (bar) | A | B | C | D | E | METER SHIPPING WEIGHT (Kg.) | MINIMUM ACCEPT SPIN TIME (SEC.) |
|----------------|--------------------------------------|-----|-----|-----|-----|----|-----------------------------|---------------------------------|
| Ductile Iron | 16 | 762 | 319 | 483 | 563 | 32 | 231 | 300 |
| Steel/ANSI 300 | 50 | 826 | 329 | 521 | 589 | 51 | 358 | 300 |
| Steel/ANSI 600 | 100 | 826 | 329 | 559 | 608 | 73 | 467 | 300 |

Meter mounted instruments and indexes mount directly on the index plate of Mark II Turbo-Meter. Turbo-Meters of standard construction register 1 cubic meters per revolution of the mechanical output shaft.

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Sensus Metering Systems has been a leading supplier of gas meters, metering systems, instrumentation for gas meters, and pressure regulation equipment since 1886. The company's technological contributions to gas measurement advancement trace over 110 years. Today, millions of Sensus Metering Systems gas meters are in service on all types of gas measurement applications, ranging from high-pressure off-shore producing platforms to multi-tenant dwellings. A wide range of Sensus Metering Systems electronic instruments perform pressure and temperature correction, as well as data acquisition with many of these measurement systems.

Sensus Metering Systems combines highly sophisticated, automated machinery with professional craftsmanship to assure strict quality manufacturing.

Sensus Metering Systems' global reach extends from its DuBois, Pennsylvania, headquarters through its external support groups. International sales, marketing, customer and technical services, finance, and administration are all centrally located. An accomplished staff of product and research engineers continues to explore exciting innovations for the world of gas measurement, pressure regulation and electronic volume correction from a state-of-the-art engineering services laboratory, and through extensive field studies.

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- Strengthened supplier and customer confidence
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- Broadened technical expertise (by providing Sensus Metering Systems opportunities to enter new markets)



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