Turbine Meters

American Meter supplies several variations of compact, high-performance turbine meters. Each of these variations is designed to provide accurate totalization of high volume gas flows.

GTS meters are available in line sizes from 3" to 12" and pressure ratings up to 1,440 psig. The 4", 6" and 8" sizes are available with extended capacity ratings (30° rotor), which can reduce the pipe size of an entire meter run, resulting in substantial savings.

GTX meters are available in line sizes from 4" to 8" and a pressure rating of 175 psig. These meters are a cost-reduced version of the GTS meter specifically designed for in-plant measurement or where reduced maintenance is a requirement.

Designed for reliable, long-term service, these meters feature:

- flush-type bearing lubrication system (GTS and AccuTest);
- aluminum rotors for high-pressure models and meters with high-frequency pulse output (GTS and AccuTest);
- high-frequency RF pulser that monitors rotor condition (GTS and AccuTest);
- one output gear train for 3" to 8" meters reduces spare parts inventory;
- high-efficiency inlet flow conditioners;
- interchangeable pre-calibrated cartridges for easy maintenance/change out;

In-depth details of GTS and GTX turbine meters can be found in bulletin **SB 4510**.

GTS, GTX and AccuTest turbine meters are supported by low (350 cubic-foot bell and large sonic-nozzle provers), medium (150 psia recirculating-air test loop with master turbine meters as a reference standard) and high-pressure test facilities (natural gas test pressures up to 1,000 psia with master turbine meters as reference standard).

E-Class Options

Direct Equimeter Auto-Adjust® or Turbo Meter replacement with new E-Class and AccuTest® models.

3" GTS Meter

4" GTS Meter

IMAC Systems, Inc.

International Measurement and Control Systems

IMAC SYSTEMS, INC.
P.O. Box 1605
90 Main Street, Tullytown, PA 19007
1-800-955-4GAS Tel: (215) 946-2200 Fax: (215) 943-2984
www.imacsystems.com Email: sales@imacsystems.com

Turbine Meter Capacities * mscfh (Sm^3/h)																
Line Pressure	3" GTS		4" Turbine Meters				6" Turbine Meters				8" Turbine Meters				12" Turbine Meters	
			45° Rotor		30° Rotor		45° Rotor		30° Rotor		45° Rotor		30° Rotor			
	Cap.	Range	Cap.	Range	Cap.	Range	Cap.	Range	Cap.	Range	Cap.	Range	Cap.	Range	Cap.	Range
0.25 psig (17 mBarg)	10 (280)	12:1	18 (504)	15:1	23 (644)	12:1	35 (980)	18:1	50 (1,400)	12:1	60 (1,680)	20:1	88 (2,464)	15:1	150 (4,200)	25:1
10 psig (690 mBarg)	17 (476)	15:1	30 (840)	19:1	38 (1,064)	15:1	58 (1,624)	23:1	93 (2,604)	15:1	100 (2,800)	26:1	146 (4,088)	19:1	250 (7,000)	32:1
25 psig (1.7 Barg)	27 (756)	20:1	48 (1,344)	25:1	62 (1,736)	20:1	94 (2,632)	29:1	134 (3,752)	25:1	161 (4,508)	33:1	237 (6,636)	25:1	404 (11,312)	41:1
50 psig (3.4 Barg)	44 (1,232)	25:1	80 (2,240)	31:1	102 (2,856)	25:1	154 (4,312)	38:1	220 (6,160)	25:1	265 (7,420)	42:1	388 (10,864)	31:1	662 (18,536)	52:1
100 psig (6.9 Barg)	79 (2,212)	33:1	142 (3,976)	42:1	182 (5,096)	33:1	276 (7,728)	50:1	395 (11,060)	33:1	474 (13,272)	56:1	695 (19,460)	42:1	1,185 (33,180)	70:1
500 psig (34.4 Barg)	379 (10,612)	71:1	695 (19,460)	89:1	872 (24,416)	71:1	1,328 (37,184)	106:1	1,897 (53,116)	71:1	2,276 (63,728)	118:1	3,339 (93,492)	89:1	5,691 (159,348)	148:1
1,000 psig (68.9 Barg)	814 (22,792)	100:1	1,466 (41,048)	124:1	1,873.0 (52,444)	100:1	2,851 (79,828)	149:1	4,072 (114,016)	100:1	4,887 (136,836)	166:1	7,167.0 (200,676)	124:1	12,217 (342,076)	207:1
1,400 psig (96.5 Barg)	1,197 (33,516)	118:1	2,154 (60,312)	147:1	2,754 (77,112)	118:1	4,190 (117,320)	176:1	6,041 (169,148)	118:1	7,184 (201,152)	196:1	10,536 (295,008)	147:1	17,959 (502,852)	245:1