

AMERICAN METER

GTX Gas Turbine Meters

Data Sheet



American Meter's gas turbine meters bring together refinements in design learned from years of application experience. GTX turbine meters are based on the standard GTS turbine meter design with the removal of certain features, making them an extremely cost-effective option for industrial applications while maintaining meter accuracy and the quality expected from American Meter products.

GTX meters are available in 4", 6", and 8" sizes with maximum allowable operating pressures up to 175 psig. As shown in the features and benefits listed, many of the optional accessories for GTS turbine meters remain available on the GTX Series, such as medium- and low-frequency pulsers.

Related Bulletins:

Instruction ManualIM 4720
 Repair Parts ListRPL 4810
 Medium Frequency PulserIMP 6778
 Electronic Temp. Comp.IM 4730

Features – Benefits – Optional Accessories

- *Mechanical Drive Output*
- *Mechanical and Electronic Pulse Outputs*
- *Temperature Compensation*
- *Mechanical Drive Models* for use with P&T Correctors or *Electronic Pulse Output Models* to interface directly with popular flow computers.
- *Electronic Temperature Compensation* with Fixed Factor Pressure and six-month data storage.
- *One Output Gear Train* for all meter sizes; reduces spare parts inventory.
- *High-Efficiency Inlet Flo-Guide®* flow conditioners to minimize the effects of flow disturbances in short-coupled installations.
- *Interchangeable Pre-Calibrated Measurement Cartridges* for easy maintenance.
NOTE: GTX cartridges fit only into GTX bodies.
- *Three-Point Accuracy Curve* supplied as standard.
- *Five-Point Accuracy Curve* (optional).
- *Medium- and High-Pressure Accuracy Curves* available.
- *Cartridge Recertification and Repair Services.*
- *Mercury or Equimeter Corrector Adapter Plates.*
- *Output Drive:* 100 ft (4" and 6")
Output Drive: 1,000 ft (8")

Comparison Chart

Feature	GTS	GTX
Pressure Ratings	.175, 720, 1,440	.175
Bearings/ Lubrication	Standard SST Bearings/Oiler	Self-Lubricating Bearings/No Oiler System
Outlet Diffuser	Standard	None
Compatibility	.GTS/AccuTest/GT	.GTX Only
Rotors	.45° or 30° Metal or Plastic	.45° Only Plastic Only
Pulsers	.High-, Medium-, or Low-Frequency	.Medium- or Low-Frequency

Capacity Table

Size	45° Rotor Angle				
	Qmax MSCFH	Qmin MSCFH	Range Qmax/Qmin	Minimum Actual Flow Rate MACFH	Pressure Drop Inches W.C.
4"	18	1.2	15	1.20	2.4
6"	35	1.9	18	1.94	3.3
8"	60	3	20	3.00	1.6

GTX Basic Specifications (Figure 1)

Size	Material AL=aluminum		Dimensions (inches)		Flange				ANSI	Weight (lbs.)	Cartridge Bolt Torque (lb.-ft.)
					(Inches)		Bolts				
	Body	Top	A	B	O.D.	*B.D.	No.	Dia. (in.)			
4"	AL	AL	5.85	14.0	9.00	7.50	8	5/8	150 FF	32	20
6"	AL	AL	6.42	16.0	11.00	9.50	8	3/4	150 FF	54	35
8"	AL	AL	7.42	21.0	13.50	11.75	8	3/4	150 RF	90	70

Note: GTX MAOP = 175 psig

*B.D. = Bolt Circle Diameter

B = Standard

Operating Temperature Range:

-40°F to +140°F

-40°C to -60°C

Manufacturing Standards

ANSI/ASME MFC – 4M – 1986

AGA Report #7

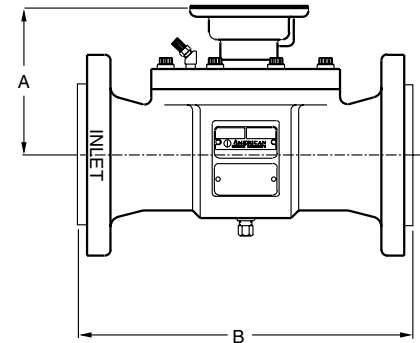


Figure 1
GTX Specifications

GTX Ordering Information

- Size:**
 - 4" – 100 mm
 - 6" – 150 mm
 - 8" – 200 mm
- Maximum Allowable Working Pressure:**
 - 175 psi/12 bar
 - 175 psi/12 bar
 - 175 psi/12 bar
- Index:** Clock Type, Odometer Type, None
- Model:**
 - Mechanical Instrument Drive Output only
 - Mechanical Instrument Drive Output and Medium-Frequency Pulse Output
- Mechanical Instrument Drive and Low-Frequency Pulse Output**
- Mercury or Equimeter Corrector Adapter Plate**



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