

AMERICAN METER

GTS[®], GTX, and E-Class Gas Turbine Meters

Data Sheet



Today's GTS turbine meter incorporates refinements in design learned from years of application experience. Refinements that improve performance and reduce the cost of maintenance and ownership. GTS turbines offer a mechanical output to drive a wide variety of auxiliary devices such as base volume correctors, plus electronic pulse outputs to interface with flow computers. Low-, medium- and high-pressure models are available in 3-inch through 12-inch sizes.

Models

- Mechanical Drive Output
- Electronic Pulse Output Only
- Mechanical and Electronic Pulse Outputs
- Temperature Compensation
- Standard and Extended Capacity Ranges with 45° or 30° Rotors

Features – Benefits – Optional Accessories

- **Models with Extended Capacity Ratings** can reduce the diameter of an entire meter run, resulting in substantial savings in piping, flanges, block valves, etc. See Capacity Tables in Sales Bulletin SB 4510.
- **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.
- **Flush-Type Lubrication System** flushes main bearings while meter is in operation.
- **Aluminum Rotors** for high-pressure models and for meters with high-frequency pulse outputs.
- **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.
- **High-Frequency Inductive-Type Pulser** that monitors rotor condition and allows for in-line spin testing; reduces maintenance time and costs.
- **Interchangeable Pre-Calibrated Measurement Cartridges** for easy maintenance.
- **Pre-Machined GTS Meter Housing** to allow upgrade to AccuTest self-test model.
- **Three-Point Accuracy Curve** supplied as standard.
- **Six-Point Accuracy Curve** (optional).
- **Medium- and High-Pressure Accuracy Curves** available.
- **Cartridge Recertification and Repair Services.**
- **Mercury or Equimeter Corrector Adapter Plates.**
- **Lubricating Gun/Oil** (optional).
- **Additional Housing** flange-to-flange dimensions available with E-Class models.

3" GTS Basic Specifications (Horizontal Flow – Figure 1)

MAOP (psig)	Material (See Note C)	Horizontal Dimensions (Inches)			Vertical Dimensions (Inches)			Weight (lbs.)
		A	B	C	A	B	C	
275	AL	9.0	6.5	0.4	12.2	9.9	0.4	10
1,440	ST	11.1	6.5	0.4	14.5	9.9	0.4	20

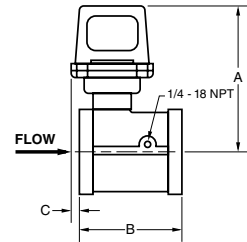


Figure 1
3" GTS Horizontal Flow

4" GTS, GTX, and E-Class Basic Specifications (Figure 2)

MAOP (psig)	Material (See Note C)		Dimensions (Inches)				Flange					Approx. Shipping Weight (lb.)	Cart-ridge Bolt Torque (lb.-ft.)
							Inches		Bolts		ANSI		
							O.D.	B.D.†	No.	Dia. (In.)			
175	AL	AL	5.85	14.0	15.50	-	9.00	7.50	8	5/8	150 FF	32	20
720	CS	AL	5.85	14.0	15.50	0.06	10.00	7.87	8	3/4	300 RF	150	68
1,440	CS	AL	5.85	14.0	15.50	0.25	10.75	8.50	8	7/8	600 RF	150	90

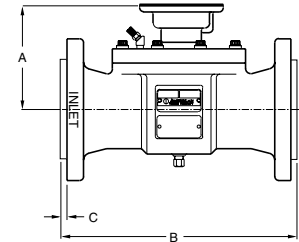


Figure 2
4" GTS Specifications

Note: 6", 8" and 12" specifications not shown.

See Bulletin SB 4510 for 6", 8", and 12" dimensional data.

B.D.† = Bolt Circle Diameter

Operating Temperature Range:

-40°F to +140°F

-40°C to -60°C

Manufacturing Standards:

ANSI/ASME MFC - 4M - 1986

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Note C:

AL = Aluminum

CS = Cast Steel

ST = Steel

Ordering Information

GTS	3"	4"	6"	8"	12"
MAOP	275 psig/19 bar 1440 psig/100 bar	175 psig/12 bar 750 psig/50 bar 1440 psig/100 bar	175 psig/12 bar 750 psig/50 bar 1440 psig/100 bar	175 psig/12 bar 750 psig/50 bar 1440 psig/100 bar	175 psig/12 bar 275 psig/50 bar 1440 psig/100 bar
ROTOR	45° Plastic	45° Plastic 45° Metal 30° Metal	45° Plastic 45° Metal 30° Metal	45° Plastic 45° Metal 30° Metal	45° Plastic
INDEX	None Circle-Type Odometer-Type	None Circle-Type Odometer-Type	None Circle-Type Odometer-Type	None Circle-Type Odometer-Type	None Circle-Type Odometer-Type
PULSER	Low Frequency Medium Frequency	Low Frequency Medium Frequency High Frequency	Low Frequency Medium Frequency High Frequency	Low Frequency Medium Frequency High Frequency	Low Frequency Medium Frequency
GTS E-CLASS		4"	6"	8"	
MAOP		720 psig/50 bar 1440 psig/100 bar	720 psig/50 bar 1440 psig/100 bar	720 psig/50 bar 1440 psig/100 bar	
ROTOR		45° Plastic 45° Metal 30° Metal	45° Plastic 45° Metal 30° Metal	45° Plastic 45° Metal 30° Metal	
INDEX		None Circle-Type Odometer-Type	None Circle-Type Odometer-Type	None Circle-Type Odometer-Type	
PULSER		Low Frequency Medium Frequency High Frequency	Low Frequency Medium Frequency High Frequency	Low Frequency Medium Frequency High Frequency	



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