

AL-1000 Diaphragm Meter



ITT Controls Meter's aluminum case meters are designed to provide positive displacement accuracy for industrial or commercial loads.

Features

- Die-cast aluminum case
- Oil-impregnated, self-lubricating bushings
- Molded, convoluted diaphragms for smooth operation and long life
- Rigid, reinforced flag rods for positive alignment and sustained accuracy
- Graphite-filled phenolic valves to minimize wear
- Long-life, low friction, grommet seals
- Single coat polyester primer with high solids polyurethane top coat
- Security seals that indicate tampering

Advantages

- AMR/AMI Compatibility
- Temperature Compensation available from -30°F to 140°F (-34°C to 60°C)
- Meets ANSI B109.2 specifications
- Measurement Canada accredited
- 1000 SCFH (28.3m³/h) (0.60 specific gravity gas) at 1/2-inch W.C. differential

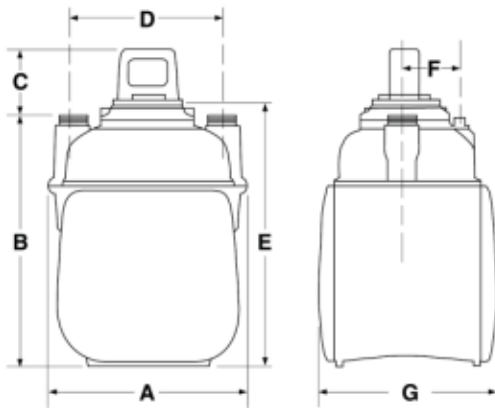
Applications

The AL-1000 meter is ideally suited for commercial and industrial installations. It is unequalled for accuracy retention and for life cycle maintenance economies.

Options

- Regular or Temperature Compensated
- Pointer or odometer index
- 5ft³, 10ft³, or 0.1m³ drive
- 30LT, 45LT, 60LT, 100LT, 1-1 1/2" NPT and other connection sizes
- Pressure compensating indexes
- Standard or UV protected index covers
- Remote volume pulsers
- Connection sets
- 25 or 100PSIG (170 or 6895 mbar) Maximum Allowable Operating Pressure (MAOP)

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Dimensions - Inches (mm)

| MAOP (psig) | A | B | C | D | E | F | G | Weight (lbs.) | Connections |
|----------------|----------------|----------------|---------------|----------------|----------------|---------------|----------------|------------------|--------------------------------|
| 25 | 14.12 (359) | 18.50 (470) | 4.81 (122) | 11.00 (279) | 19.12 (486) | 4.38 (111) | 13.25 (337) | 54 | 1-1/2"–45 LT 1-1/2" NPT (F) |
| 25 | 14.12 (359) | 19.25 (489) | 4.06 (103) | 11.00 (279) | 19.12 (486) | 4.38 (111) | 13.25 (337) | 54 | 2"–100 LT |
| 25 | 14.12 (359) | 20.25 (514) | 3.06 (78) | 11.00 (279) | 19.12 (486) | 4.38 (111) | 13.25 (337) | 54 | #5 Sprague |
| 100 | 14.62 (372) | 18.75 (476) | 5.19 (132) | 11.00 (279) | 19.75 (502) | 4.38 (111) | 16.62 (422) | 78 | 1-1/2" NPT (F) |

Capacities (0.60 specific gravity gas)

| Line Pressure PSIG (mbar) | Differential Inches W.C. (mbar) | SCFH (m ³ /h) |
|---------------------------------|---------------------------------------|-----------------------------|
| 0.25 (17) | 1/2 (1.2) | 1000 (28.3) |
| 0.25 (17) | 2 (5) | 2200 (62.3) |
| 5 (345) | 2 (5) | 2700 (76.5) |
| 10 (690) | 2 (5) | 3400 (96.3) |
| 15 (1035) | 2 (5) | 3700 (104.8) |
| 20 (1379) | 2 (5) | 4100 (116.1) |
| 25 (1724) | 2 (5) | 4600 (130.3) |
| 30 ¹ (2069) | 2 (5) | 5000 (141.6) |
| 50 ¹ (3447) | 2 (5) | 6600 (186.9) |
| 75 ¹ (5171) | 2 (5) | 8400 (237.9) |
| 100 ¹ (6895) | 2 (5) | 10100 (286.0) |

¹ - 100 psig model only