





Gas Meters

The Itron "A" Series commercial diaphragm meters comprise a range of positive displacement gas measurement devices with capacities of 400 to 1000 ft³ hr.

These meters use proven, time-tested diaphragm meter technology in a 3-chamber design to provide accurate measurement across their respective flow ranges. Long-life and low maintenance are assured by the combination of a self-lapping orbital valve, single convolution diaphragms, and lubrication-free bearings. Attention to design makes them compact and lightweight for their capacity ratings.

Setting the standard

When you combine all of the "A" Series customer-driven features with our tradition for highly accurate meters, it is easy to see why these outstanding meters should have a place in your measurement operation.

Instrumentation Compatible

The "A" Series meters are designed to be fully compatible with all volume and temperature-integrating instruments available today.

Installation

The Easy Turn (ET) design allows 2 to 3 times more wrench swing than the competition — as much as a full 120 degrees for meters mounted directly against a wall — making the Itron 675A, 800A and 1000A 'ET' gas meters the easiest to install in North America.

KEY FEATURES

- » 3-chamber design
- » Wearless orbital valve
- » One piece, seamless, convoluted diaphragm
- » Lubrication-free bearings
- » EZ-VU Adjustment Port
- » Instrumentation compatible
- » Easy Turn (ET) top option for simple installation
- » Easy handling
- » Lightest 400 & 1000 class meters
- » 400A & 1000A retrofit into any like-class installation
- » AMR/AMI Compatible

Meets applicable standards

» ANSI B109.1, ANSI B109.2

Product approvals

- » Industry Canada AG-0298, AG-0385
- » State of New York Department of Public Service 91-G-0507, 96-G-0885

400A



Meter shown with 8-1/4" top

400A GAS METER

The compact performer for light commercial metering

Itron's 400A meter is the most compact and lightweight 400-class meter on the market today. With a wearless orbital valve, single convolution diaphragms and lubrication free bearings, the 400A delivers initial and sustained accuracy.

Designed to fit

Available with a 6-25/32", 7" or 8-1/4" center-to-center top, the 400A can replace any existing 400-class meter with no need for expensive, time-consuming piping rework.

Ideally suited to light commercial and high-capacity domestic metering requirements, the Itron 400A offers:

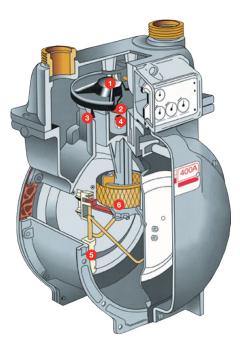
- » Lightest 400-class meter on the market
- » Fewer moving parts than any other 400-class meter

SPECIFICATIONS

	400A	675A	800A	1000A		
Meter Capacity (CFH Natural Gas)	400 @ .5" w.c. Diff.	790 @ .5" w.c. Diff.	890 @ .5" w.c. Diff.	1040 @ .5" w.c. Diff.		
Hub Center-to-Center	6-25/32", 7" or 8-1⁄4"	10"	11"	11"		
Hub Sizes	20 LT, 30 LT, 45 LT, #4 Sprague	30 LT, 45 LT, 60 LT, 100 LT, #4 Sprague and #5 Sprague	30 LT, 45 LT, 60 LT, 100 LT, #4 Sprague and #5 Sprague	45 LT, 60 LT, 100 LT, #4 Sprague and #5 Sprague		
Meter Type	(TC) Temperature Compensated or (NTC) Non-Temperature Compensated					
Units	Imperial (Cubic Feet - ft³) or Metric (Cubic Meters - m³)					
Index Drive	2 ft³/revolution 50 cubic decimeters/revolution	10 ft³/revolution .30 cubic meters/revolution				
Proving / Test Dials	ft ³ - ½' and 2' Proving Dials m ³ - 10 dm ³ and 50 dm ³ Proving Dials	ft ³ - 2.5' and 10' Proving Dials m ³ 3 m ³ and .15 m ³ Proving Dials				
Tangent Crank	9 revolutions/ft ³ or .111 ft ³ /revolution 3.2 revolutions/dm ³ or .32 liters/revolution	1.8 revolutions/ft ³ or .555 ft ³ /revolution .067 revolutions/dm ³ or 15 liters/revolution				
Indexes	4 Circle Dial (ft ³) - Standard 7", 2 PSIG 4 Digit Direct Read (ft ³ - Standard Pressure) 5 Digit Direct Read (ft ³ or m ³ - Standard Pressure)	5 Circle Dial (ft ³) - Standard 7", 14" 5 Digit Direct Read (ft ³ - Standard Pressure) 6 Digit Direct Read (m ³ - Standard Pressure) 7 Digit Direct Read (m ³ - Standard Pressure)				
Meter M.A.O.P.	10 PSIG (25 PSIG Optional)	25 PSIG				
Meter Operating Temperature Range	-30°F to +120°F -34°C to +49°C					
Surface Treatment	ASA 49 Gray Polyester Powder Coat					

Hex bushing In the valve cover to provide self alignment and ensure onsistent orbiting of the valve cover Web free valve seat Enables mainshaft and tangent crank to be replaced without removing the valve seat Mainshaft and tangent crank nbly variations Ine-piece construction minimizing as **Lubrication-Free bearings** nsure long maintenance-free operation 6 **Carrier bracket** Engineered with tongue and groove design allowing for consistent and precise positioning of wires and reducing wire bending adjustment 6 **Temperature compensation (optional)**

Located in the main measurement chamber the prompt response to changes in temperature



675A, 800A, 1000A

800A, 1000A





Meter shown with 'ET' top

Meter shown with standard top

Reversible top-mount index Ensures easy index viewing Self-dressing orbital valve and seat Contribute to superior valve wear, lending to improved accuracy and repeatability over the life of the meter "O"-Ring diaphragm seal Ensures consistent sealing throughout wide environmental temperature variations. Neoprene gasket material makes repairs simple - eliminates the need for costly cork gasket removal Incerted in the main measurement chamber for more

Located in the main measurement chamber for more prompt response to changes in temperature

675A, 800A, 1000A GAS METERS

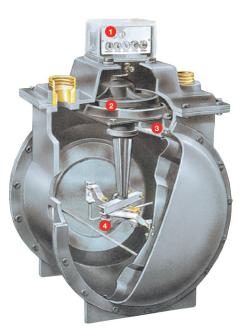
Diaphragm accuracy for higher capacity metering applications

The larger members of the "A" Series combine accuracy and long life, adding advantages achieved in easier shipping, handling and installation. These meters can be applied wherever capacities of 675-1000 ft3/h are needed.

Ideally suited for higher capacity commercial metering requirements such as dry cleaners, restaurants, schools, hospitals and hotels.

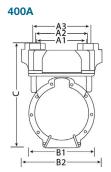
DIMENSIONS

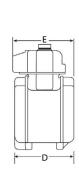
Imperial - Inches



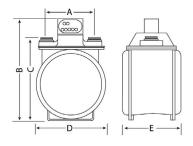
Model	A1	A2	A3	B1	B2	С	D	E	Wt. (lbs)
400A	6.78	7.0	8.25	9.5	10.9	14.7	8.6	8.8	14.1
Model		Α		В	B*	С	D	E	Wt. (lbs)
800A		11		23.4	26.1	18.5	15.7	13.9	41.2
1000A		11		23.4	26.1	18.5	15.7	13.9	41.2
675A ET		10		25	27.7	18.5	15.7	13.9	41.5
800A ET		11		25	27.7	18.5	15.7	13.9	41.5
1000A ET		11		25	27.7	18.5	15.7	13.9	41.5
Metric – Millim	eters								_
Model	A1	A2	A 3	B1	B2	С	D	E	Wt. (kg)
400A									· ()/
	172	178	210	241	277	373	218	224	6.4
Model	172	178 A	210	241 B	277 B *	373 C	218 D	224 E	
Model 800A	172		210						6.4
	172	Α	210	В	B*	С	D	E	6.4 Wt. (kg)
800A	172	A 279	210	B 594	B* 663	C 470	D 399	E 353	6.4 Wt. (kg) 18.7
800A 1000A	172	A 279 279	210	B 594 594	B* 663 663	C 470 470	D 399 399	E 353 353	6.4 Wt. (kg) 18.7 18.7

All dimensions and weights provided are approximate

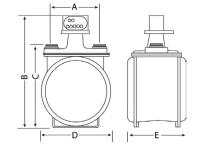




800A, 1000A

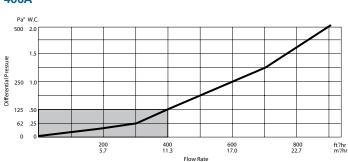


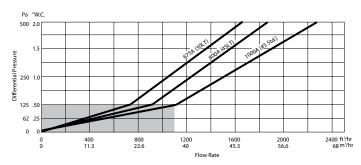
675A, 800A, 1000A ET



CAPACITY & PRESSURE LOSS*

400A





*Individual meter performance may vary

675A, 800A, 1000A

	Meters per Layer	Layers per Pallet	Meters per Pallet	Pallet Dimensions	Pallet Weight (lbs)
400A	20	3	60	48" x 46" x 53"	906
400A with AMR/AMI	16	3	48	48" x 46" x 53"	785
675A, 800A and 1000A	9	2	18	48" x 46" x 65"	845
675A, 800A and 1000A with AMR/AMI	9	2	18	48" x 46" x 65"	905

ADDITIONAL INFORMATION

- » Diaphragm Type Gas Meters Installation Instructions (TDC-0841-XXX)
- » Diaphragm Meter Product Line (TDC-0858-XXX)
- » 3-Chamber Meter Adjustment (TDC-0848-XXX)

All dimensions and weights provided are approximate

AMR/AMI COMPATIBLE

Itron gas meters are compatible with leading AMR/AMI devices.





Meters shown with 100G Gas ERT Module





Join us in creating a more **resourceful world**. To learn more visit **itron.com**

While Itron strives to make the content of its marketing materials as timely and accurate as possible, Itron makes no claims, promises, or guarantees about the accuracy, completeness, or adequacy of, and expressly disclaims liability for errors and omissions in, such materials. No warranty of any kind, implied, expressed, or statutory, including but not limited to the warranties of non-infringement of third party rights, title, merchantability, and fitness for a particular purpose, is given with respect to the content of these marketing materials. ITRON is a registered trademark of Itron, Inc. © Copyright 2022 Itron. All rights reserved. **100974SP-04 10/22**

CORPORATE HQ

2111 North Molter Road Liberty Lake, WA 99019 USA **Phone:** 1.800.635.5461 **Fax:** 1.509.891.3355