

C4000 Compound water meter "2 great meters in one"



Designed for high accuracy measurement

The new C4000 compound cold water meter is designed to provide highly accurate bulk flow metering for applications with large variations in flow rate.

Available in a range of three sizes and suitable for flow rates up to 1100 GPM, it combines our industry standard T4000 bulk flow meter with the outstanding bypass volumetric meter in a practical in-line design with many advanced features.

The new C4000 meter is '2 great meters in one'.

Compact, in-line construction for easy installation

Available in sizes 2", 3" and 4"



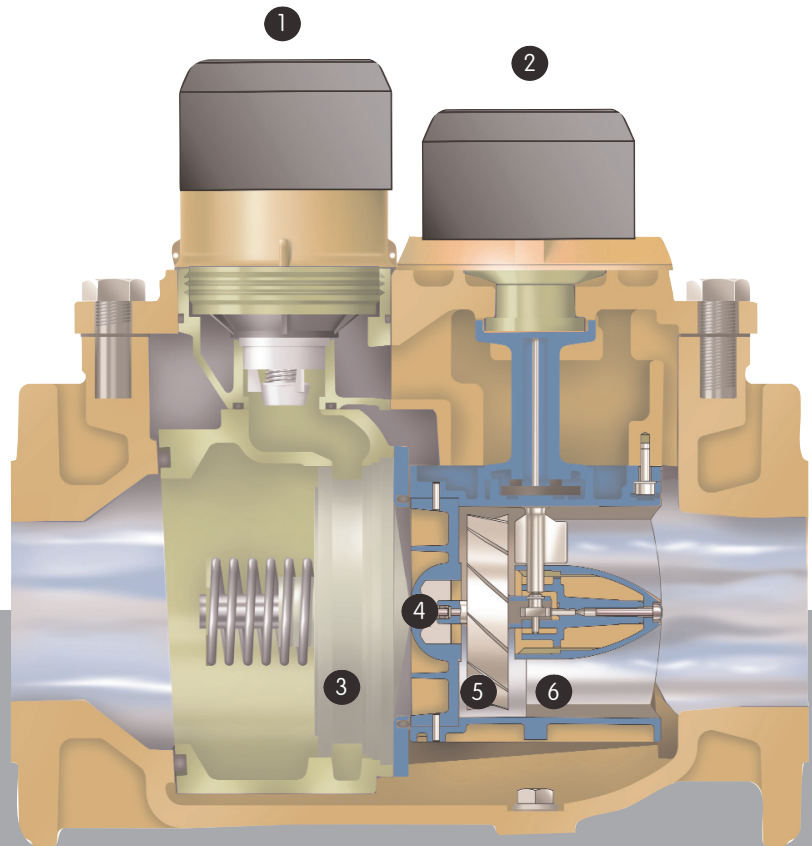
High turndown ratio for a wider range of flow characteristics.

Outstanding accuracy maximizes revenue collection

The new C4000 meter combines two state of the art Elster metering technologies in one extremely compact unit. The innovative in-line design of the meter provides advanced benefits, during installation and throughout its working lifetime.

Designed for bulk flow applications where wide variations in flow occur, the C4000 makes every drop count. At high or medium flow rates, the primary turbine type metering chamber delivers metering standards to AWWA C701 Class II specifications. At lower flow rates the secondary bypass meter meets or exceeds AWWA C700 standards.

- ① Bypass meter: precision volumetric metering for lower flow rates
- ② Main meter: T4000 the industry standard bulk flow meter
- ③ New unique design of changeover valve with low operating headloss
- ④ Hard surface rotor bearings - tungsten carbide and synthetic sapphire
- ⑤ Low mass rotor with hydrodynamic thrust relief
- ⑥ Maximum length flow straightening vanes



Features

High turndown ratio

Highly accurate bulk flow metering for applications with large variations in flow rate

The bypass meter's low flow performance means it can measure down to 1/8 gal

Compact, in-line construction

Accuracy not affected by position

Jewelled bearings with tungsten carbide thrust pads

Low mass rotor with hydrodynamic thrust relief on turbine meter

Maximum length flow straightening vanes

New unique design of changeover valve with low operating headloss

Bronze, low lead body and cover

Robust shroud and copper can registers

Elster InVISION and digital available for the turbine side meter

T4000 and bypass elements are standard production parts

Approved T4000 element used with good service history and track record

Benefits

The range of flow over which the meter is able to measure is very wide, with revenue benefits

Suitable for applications such as schools, hospitals, offices and factories

Maximizing revenue collection

Easy installation and maintenance

Can be installed in horizontal, vertical or inclined pipelines

Reduces friction and wear within the mechanism enabling performance to be maintained

Low flow sensitivity and performance is improved

The water flow into the meter is laminar and thus enables greater performance and stability

Improved registration at low flow rates leading to improved revenue

Provides protection in all environments

No condensation, long life, reliable and clear readability of the registers

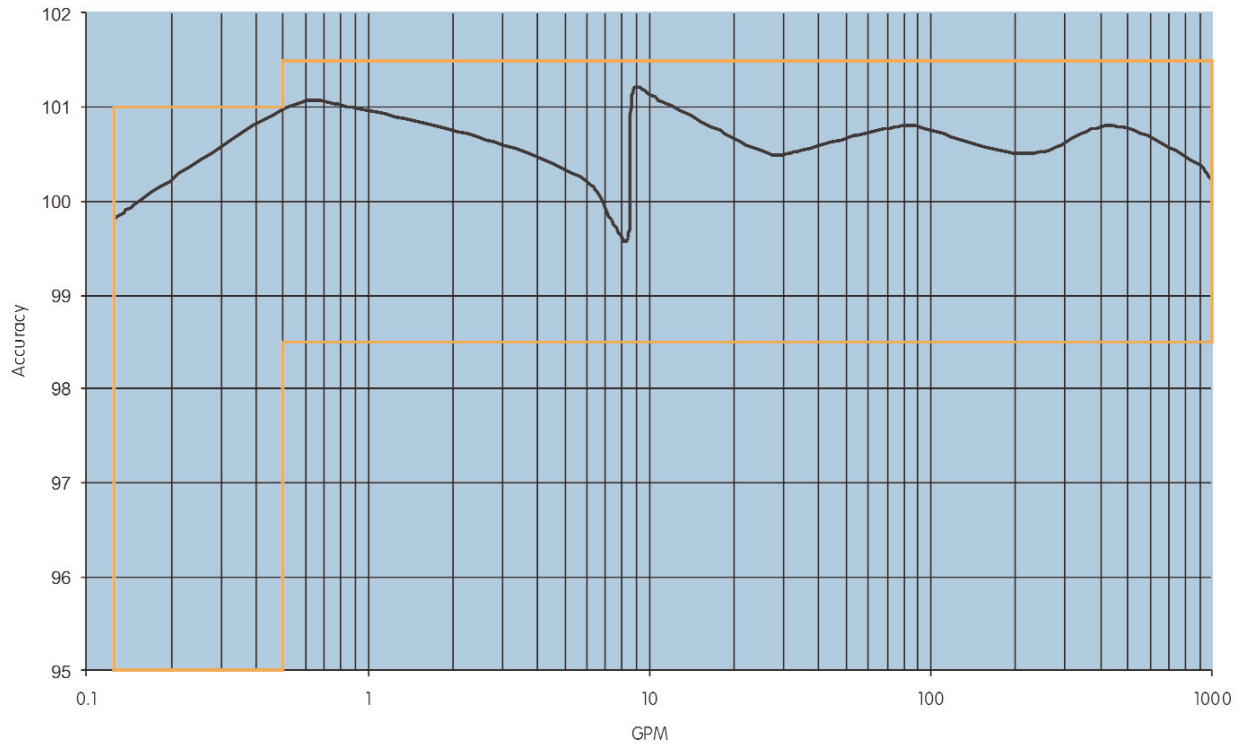
Increased management information

Improved spares inventory

T4000 element has proven performance and reliability

Low flow performance

The accuracy curve below shows the low flow performance of the 4" C4000 meter.



Overall benefits

- MORE ACCURACY TO CUSTOMER = higher revenue collection
- MORE RELIABILITY = lower costs
- MORE CHOICE = meeting customer needs precisely

Performance comparison

Manufacturer	Elster	Sensus	Hersey	Badger	Neptune
Model	C4000	SRH	MCTII	Recordall	Tru-Flo
Size	4"	4"	4"	4"	4"
Ambient temp.	158°F	NA	NA	NA	NA
Operating temp.	120°F	80°F	33° - 100°F	120°F	80°F
Accuracy	± 1.5% @ 1-1100 gpm	± 1.5% @ 2-600 gpm	± 3% @ 6-500 gpm	± 1.5% @ 2-600 gpm	± 1.5% 1-1000 gpm
Low flow	> 95% @ 1/8 gpm	> 95% @ 3/4 gpm	> 95% @ 3/4 gpm	> 95% @ 3/8 gpm	> 95% @ 1/2 gpm
Accuracy at crossover	± 1.5%	> 95%	> 95%	> 97%	> 98%
Continuous flow	575 gpm	NA	250 gpm	800 gpm	1000 gpm
Pressure loss	3.8 psi @ 1100 gpm	3.5 psi @ 600 gpm	9.4 psi @ 500 gpm	11.0 psi @ 800 gpm	9.0 psi @ 700 gpm
Max. operating pressure	150 psi	150 psi	150 psi	150 psi	150 psi
Lay length	20"	20"	29"	20"	20"
Body type	Single	Single	Single	Single	Single
Weight	90 lbs	128 lbs	270 lbs	85 lbs	100 lbs

evolution™ AMI

The metering solution for C4000 meters

Elster AMCO Water brings evolution AMI to its new C4000 compound meter in a revolutionary design that is unique to the C4000 compound meter.

Dual port evo RTMs:

Empowers utilities to maximize their investments by using only ONE RTM for 2 registers

evolution AMI is a superior technology that is built on Elster's own globally proven wireless radio frequency technology known as Wavenis, and employs a unique, highly functional endpoint for all installation environments.

An intelligent, flexible two-way communications based system that provides the benefits of mesh network capabilities, extended radio coverage and easy system scalability, evolution AMI provides utilities with higher meter functionality combined with cost savings.

Utilities will benefit from evolution's competitive performance including long-range capabilities and a 20+ year operating life.

Elster AMCO's evolution AMI is the superior technological advantage to water utilities and cooperatives seeking to maximize their investments with true advanced metering infrastructure (AMI).

Main functions of the evolution AMI System:

- Complete end-to-end solution for water utilities
- Migrateable from mobile to fixed network
- Powered by globally proven, Wavenis wireless technology
- True two-way, 902-928 MHz communications
- Multi-functional endpoint design
- Extended radio coverage for hard-to-reach environments
- Time-of-use (TOU) readings on demand
- Easily scalable network design
- Backed by available 20-year warranty
- Optional in-home displays, and remote shut off valve
- Affordable for any size utility
- Dual port endpoint



About Elster AMCO Water, Inc.

Elster AMCO Water, Inc. is an industry leader and world-class provider of advanced metering products and intelligent metering solutions. Highly experienced and knowledgeable, Elster AMCO's direct sales force and nationwide distributor network provides exceptional, turnkey project management, and on-site/after sale support. With an established record of superior product quality and performance as well as an extensive product offering that conforms to AWWA standards, Elster's investment in technology and people benefits its customers by helping them reduce operating cost, improve service capabilities and create new revenue streams.

About Elster Group

Elster Group is a world leader in Advanced Metering Infrastructure (AMI) and integrated metering and utilization solutions to the gas, electricity and water industries. Elster's high quality AMI and AMR products, systems, and solutions reflect the wealth of knowledge and experience gained from over 170 years of dedication to measuring precious resources and energy. Elster provides world class solutions and advanced technologies to help utilities more easily, efficiently and reliably obtain and use advanced metering intelligence to improve customer service, enhance operational efficiency, and increase revenues. Elster's AMI solutions enable utilities to cost-effectively generate, deliver, manage and conserve the life-essential resources of gas, electricity and water. The group has over 7,500 staff and operations in 38 countries, focused in North and South America, Europe, and Asia.

United States – ISO 9001:2000 Registered

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