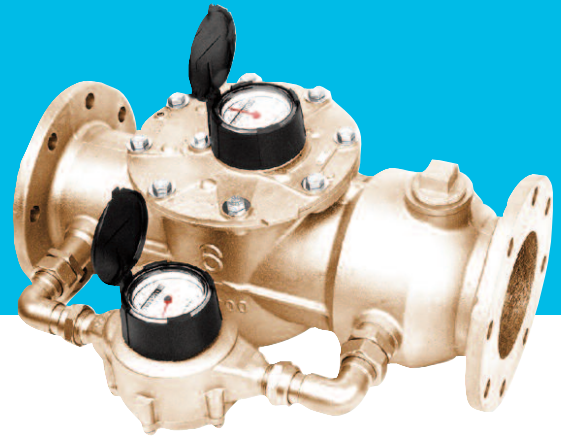


C3000 Compound Meter

Bronze, Magnetic Drive, Round Flanged Ends

Size 6"



<u>Size</u>	<u>6"</u>
95%-101% Accuracy GPM	3/4
98.5%-101.5% Accuracy GPM	1 1/2 - 2500
Continuous Flow GPM	1560
Maximum Flow GPM	2500
Operating Pressure psi	150
Operating Temperature °F	120

<u>Sweep Hand Registers</u>	<u>Turbine</u>	<u>Bypass</u>
US Gallons	1000	10
Cubic Feet	100	1
Cubic Meters	10	1/10
Imperial Gallons	100	10

<u>Capacity of Registers</u>	<u>Turbine</u>	<u>Bypass</u>
US Gallons (millions)	1000	100
Cubic Feet (millions)	100	10
Cubic Meters (millions)	10	1
Imperial Gallons (millions)	1000	100

Register Type Permanently sealed direct reading registers.

Materials

Main Case	Bronze
Top Cover Plate	Bronze
Case Bolts	Stainless Steel
Measuring Element	Polyphenylene Oxide
Rotor	Polypropylene
Rotor Bushings	PTFE Compound
Rotor Thrust Bearing	Ceramic Jewel
Rotor Spindle	Tungsten Carbide
Undergearing	Polyacetal Resin
Changeover Valve	Polymer, Bronze, Stainless Steel & Rubber
Bypass Meter	Bronze
Measuring Chamber	Compounded Thermoplastic
Register Lens	Tempered Glass
Register Housing & Lid	Polymer or Bronze
Register Can	90% Copper Alloy
Body O-Rings	Rubber & Nitrile

Operation. The C3000 Compound Meter is designed for installations where large variations in flow rate can be expected. These flow ranges are measured by utilizing the low flow capability of a positive displacement meter and the higher flow efficiency of a Class II turbine meter. The small meter is a standard C700. The measuring element of the large meter is a standard T3000 turbine meter. Located on the downstream side of the turbine measuring chamber, a changeover valve operates on differential pressure. Before the valve opens, all flow is directed through the C700 bypass meter. After the valve opens, flow goes through both measuring chambers.

Compliance to Standards. The C3000 Compound Meter fully complies with the American Water Works Association Standard C702 as most recently revised.

Installation. The meter must be installed in a clean pipeline, free from any foreign materials. Install the meter with direction of flow as indicated by the arrow cast in the meter case. The meter may be installed in horizontal or inclined lines. The AWWA M6 manual recommends 10



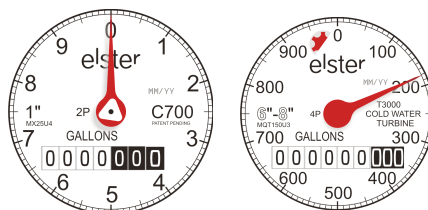
pipe diameters upstream and 5 pipe diameters downstream of straight pipe for optimal accuracy of all inferential type flowmeters. It is recommended that a plate strainer be used to protect the turbine and help reduce the effects of turbulence. Optional bypass trim valves are available to facilitate in-line bypass meter replacement while under pressure.

Application. The meter is for use with POTABLE COLD WATER up to 120°F (50°C) and working pressures up to 150 psi. The meter will perform with accuracy registration of 100% ± 1% within its normal flows of 1fi-2500 GPM. Both pressure loss and accuracy tests are made before shipment. No adjustments are necessary before installation.

Construction. The meter consists of a main case, turbine measuring element, changeover valve, main case cover, oscillating piston bypass meter and magnetically driven register assemblies. Both the main case and bypass meter are cast in bronze with raised characters showing model, size and direction of flow. The main case has a throated inlet. A case dowel pin is inserted for locating the bronze cover plate. There are tapped bosses for 3/4" drain and 2" test plugs. The measuring element assembly consists of the rotor, straightening vanes, accuracy regulator, spindles and gears, filters and undergear assembly. The measuring element is attached to the underside of the main cover with four stainless steel screws and washers, one insert of which is placed eccentrically in the cover. The internal regulator assembly is interconnected to an external regulator shaft located on top of the cover, allowing meter calibration without depressurizing the test bench or meter service. The main case and cover are assembled with an O-ring gasket and stainless steel bolts. The bypass consists of 1" piping and a 1" meter with an oscillating piston measuring chamber and a polymer strainer. A non-return valve installed in the meter's bypass arm, downstream of the bypass meter, prevents backflow from the high flow chamber being registered on the bypass meter. Each register assembly is secured with a screw and is protected by a hinged lid bearing the same serial number.

Register. Each register is contained within a 90% copper seamless can which is oven-cured at 150°F for 90 minutes to eliminate condensation. The 1/4" true tempered glass lens is domed and secured with an "L" shaped gas-

ket, then roll sealed. To assure easy reading, the totalizer wheels are large and color coded. The applicable size, model, registration, part number and date code are printed on the calibrated dial face. Moving clockwise during operation, extra thin sweep hands do not interfere with meter reading, and the low-flow indicator will detect plumbing leaks.



Connections. This meter has 8-bolt round flanged end connections. Both bronze and cast iron companion flanges are available. The companion flanges are faced, drilled and tapped with ANSI B2.1 internal taper pipe thread.

Maintenance. The unitized turbine measuring element with integral straightening vanes can be removed, repaired or replaced without removing the main case from the service line. Blank cover plates are available for the utility's use. Pretested and calibrated turbine measuring elements with cover plates and registers are available for exchange or purchase. The C3000 may be repaired with standard T3000

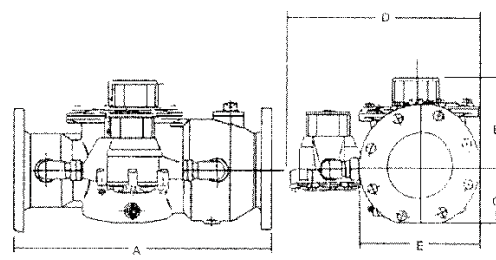
and C700 parts available from our warehouses in the U.S. and Canada. In addition, Elster AMCO Water maintains a fully equipped and staffed repair facility in Ocala, Florida.

Reading Options. C3000 meters are available with Absolute Encoder and Digital register options to provide water usage output to the entire spectrum of electronic meter reading systems, giving flexibility to utilities implementing or upgrading reading technologies. Elster AMCO Water's Encoder and Digital registers interface to a variety of automated meter reading systems, allowing technology upgrade without register replacement.

Automatic Meter Reading (AMR). Elster AMCO Water offers the full spectrum of RF technology alternatives - Walk-by, Drive-by and Fixed Network, to reduce reading cost beyond electronic meter reading, while further increasing personnel safety. RF Transmitters accept input from the Elster AMCO Water's Encoder or Digital Register for reliable measurement inputs. RF Systems from Elster AMCO Water are designed for reading both pit and inside set meter installations, and are to perform in the extremes of service conditions they will encounter.

Dimensions and Net Weight

Meter Size	Dimensions (Inches)					Weight (lbs.)
	A	B	C	D	E	
6"	24	8 1/8	5 5/16	17 9/16	11 3/16	145



Elster AMCO Water, Inc.
PO Box 1852
Ocala, FL 34478-1852
United States

T +1 800 874 0890
F +1 352 368 1950

watermeters@us.elster.com
www.elster.com

© 2007 by Elster. All rights reserved.

The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. These products have been manufactured with current technology and in accordance with applicable AWWA Standards.