Specification Sheet



Description

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 5/8" X 3/4" 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 measuring elements 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% \pm 1 1/2% within its normal flows of 1-650 GPM. Both pressure loss and accuracy tests are made before shipment. No adjustments are necessary before installation.

Industrial Compound Meters

Model C3000 Bronze, Magnetic Drive, Round Flanged Ends

Size 3"

<u>Size</u>

Specifications

<u>3"</u>

95%-101% Accuracy GPM 98.5%-101.5% Accuracy GPM Continuous Flow GPM Maximum Flow GPM Operating Pressure psi Operating Temperature °F	1/8 1-650 325 650 150		
Sweep Hand Registers US Gallons Cubic Feet Cubic Meters Imperial Gallons	<u>Turbine</u> 100 10 1 1	Bypass 10 1 1/10 10	
Capacity of Registers US Gallons (millions) Cubic Feet (millions) Cubic Meters (millions) Imperial Gallons (millions)	<u>Turbine</u> 100 10 1 1	Bypass 10 1 1/10 10	
Register Type	,	Permanently sealed direct reading registers.	

Materials Main Case Bronze Top Cover Plate Bronze or Polymer Case Bolts Stainless Steel Polyphenylene Oxide Measuring Element Polypropylene Rotor 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 Polymer Register Lens Tempered Glass Register Housing & Lid Polymer or Bronze Register Can 90% Copper Alloy Body O-Rings Rubber & Nitrile

















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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 gasket, 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 4-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.

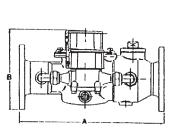
Maintenance. The unitized turbine measuring element with integral straightening vanes can be removed, repaired or replaced without removing the main case from the service line. Blank cover plates are available for maintenance. Pretested and calibrated turbine measuring elements with cover plates and registers are available for exchange or purchase. The bypass meter may be repaired with standard C700 parts available from our warehouses in the U.S. and Canada. In addition, AMCO Water Metering Systems maintains a fully equipped and staffed repair facility in Ocala, Florida.

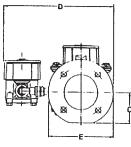
Pulser. See Specification Sheet #LRP/HRP-T3000 for Main Meter:

LRP (2 wire) Reed Switch, 4 watt (50 VAC/DC max.). HRP (3 wire) Slotted Disc, 6-15 VDC. See Specification Sheet #C7-PUL-001 for Bypass Meter: "BI" Pulser (2 wire) Limit Switch (3 amps at 126 VAC max.). "SFI" Pulser (3 wire) Solid State Device, 6-24 VDC. Note: All pulsers require power from an external source.

Dimensions and Net Weight

Meter		Din	nensions	sions (inches)		Weight
Size	Α	В	С	D	E	(lbs.)
3"	17	9 7/16	3 11/16	13 1/4	7 13/16	55 1/4





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