Specification Sheet



Description

Operation. The C700 is an oscillating piston style, positive displacement water meter. The product utilizes a piston that water use rotates in a measuring chamber, each piston revolution being equivalent to a known volume of water. The piston movement is transferred by a magnetic drive to a straight reading sealed register which contains the appropriate reduction gearing.

Compliance to Standards. The C700 fully complies with American Water Works Association Standard C700, latest revision, and is California Department of Weights and Measures approved.

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, vertical or inclined lines, with register facing upward.

Application. The meter is for use only with POTABLE COLD WATER up to 120°F (50°C) and working pressures up to 150 psi. The meter will register between 98.5% and 101.5% at normal and high flows and between 97% and 101% at the AWWA specified low flow. Accuracy tests are made before shipment, so no adjustments need to be made before installation.

Construction. The meter consists of a straight through-flow main case, dual inlet measuring chamber, vertically grooved oscillating piston, high capacity strainer, removable bottom plate, full rubber liner, body bolts with integral washers and a magnetically driven register. The main case is cast in bronze with raised characters designating model, size and direction of flow. A choice of polymer, cast iron or bronze bottom plate is available. The 2-piece snap-fit measuring chamber is of a top and bottom inlet, side output design and features a unique self-flushing sediment well.

Industrial Positive Displacement Meter

Model C700 Bronze, Magnetic Drive, External Threaded Spuds

Size: 5/8" x 1/2" & 5/8" x 3/4"

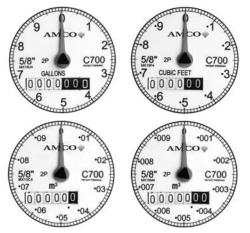
Specifications

Size:	<u>5/8" x 1/2"</u>	<u>5/8" x 3/4"</u>			
Performance: 95%-101% Accuracy GPM 97%- 101% Accuracy GPM 98.5% -101.5% Accuracy GPM Continuous Flow GPM Maximum Flow GPM Head Loss at 20 GPM psi	1/8 1/4 1 1-20 15 20 8.5	1/8 1/4 1-20 15 20 8.5			
Operating Pressure psi Operating Temperature °F	150 120	150 120			
Sweep Hand Registers: US Gallons Cubic Feet Cubic Meters (Canada) Cubic Meters (Intl.)	10 1 1/10 1/100	10 1 1/10 1/100			
Capacity of Register (million US Gallons Cubic Feet Cubic Meters (Canada) Cubic Meters (Intl.)	10 1 1/10 1/10	10 1 1/10 1/10			
Register Type: <u>Materials:</u> Main Case Bottom Plate Options Bottom Gasket-Liner Body Bolts Measuring Chamber Division Plate Piston Thrust Bearing Insert Driving Bar Strainer Register Can Register Lens Register Housing and Lid	Bronze Bronze, Cas Nitrile Stainless Ste Compounde Loaded Nylo High Impact Loaded Nylo Dolypropyler 90% Copper Tempered G	Bronze, Cast Iron or Polymer			



Other features include a removable, contoured division plate, captive drive bar and high torque magnet complete with a nylon bushing. The flow-stream balanced piston has a unique thrust bearing insert and features a Turbulence Seal[™] system which passes debris while sustaining the most linear accuracy curve in the industry. Each register is secured to the main case with a tamperproof plug to eliminate tampering.

Direct Read Register. The register is contained within a 90% copper seamless can which is oven-cured at 150°F for 90 minutes to eliminate condensation. The 5 mm true tempered flat glass lens is secured with an "L" shaped gasket, then roll sealed to produce a permanently sealed design. 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, the extra-thin center sweep hand does not interfere with meter reading, and the 1:1 piston ratio low-flow indicator gives visual indication of plumbing leaks. For accurate meter testing, 100 clear graduations appear at the register's circumference.



Magnetic Drive. The magnetic drive design facilitates coupling between the measuring chamber and the external register. The coupling is absolute at all rated flows.

Connections. Meter casing spuds have external straight threads conforming to ANSI B2.1. Bronze coupling nuts and tailpieces are available. Tailpieces have external taper pipe threads conforming to ANSI B2.1. Their lengths and thread sizes are as specified by AWWA Standards.

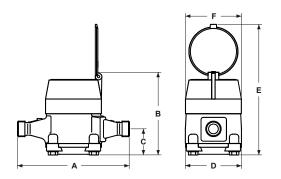
Maintenance. The measuring chamber assembly can be removed, repaired or replaced. Pretested measuring chamber assemblies are available for exchange or purchase, and spare parts are available from our central warehouse or designated regional locations. AMCO Water staffs and operates a repair facility at its U.S. manufacturing plant in Ocala, Florida.

Pulser Type "BI". The "BI" pulser is a limit switch device which requires power from an external source (2 wire). Contact closure: 1 contact = 1 USG. The switch is rated to 3 amps at 125 VAC max. For full details see specification sheet INDC7-PUL-001. Note: Register housing and register are 3½ in. diameter style.

Pulser Type "SFI". The "SFI" pulser is a solid state device which requries 6-24 VDC from an external source (3 wire). Contact closure: 115.2 cont/USG standard and 230.4 cont/USG optional. For full details see specification sheet INDC7-PUL-001. Can be connected to RF or MIU device for central point reading. Note: Register housing and register are 3½ in. diameter style.

Dimensions and Net Weights

Meter			Weight				
Size	А	В	С	D	E	F	(lbs.)
5/8" x 1/2"	7 1/2	5 1/2	1 1/2	4	8 3/4	3 3/4	3 1/2
5/8" x 3/4"	7 1/2	5 1/2	1 1/2	4	8 3/4	3 3/4	3 1/2





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