

Specification Sheet

PD-20 Meter Size: 5/8 inch

Specifications

Size	5/8 in.
Typical Operating Range	
100% \pm 1.5%	1/4 - 20 gpm
Low Flow (Min. 95%)	1/8 gpm
Max Continuous Operating Flow	15 gpm
Max Operating Capacity	20 gpm
Pressure Loss at Max	
Operating Capacity	7.0 psi
Max Operating Temperature	120°F
Max Operating Pressure	150 psi

Meets or exceeds latest revision of AWWA C700 Performance Standards

Physical Characteristics

	inches
Meter length	
Screw Ends	7 1/2
Meter Casing Spuds	
Nominal Thread Size	3/4
Couplings (Tailpieces)	
Length	2 3/8
Nominal Thread Size	1/2
Weight	4.6 lbs

Meets or exceeds latest revision of AWWA C700 Dimensional Standards

- All bronze construction
- Copper can sealed register
- Remote ready
- Tempered glass resist scratching
- Large numbers for easy reading
- Great low flow
- Built-in strainer
- 5-year new meter accuracy warranty
- 25-year standard warranty for body
- Rated to 120°F



Description

Applications - For use in measurement of potable cold water in residential commercial and industrial services where flow is in one direction only.

ASTM E83600 Main casing and bottom plate - Main casings are made of a copper alloy containing not less than 85% copper such as UNS C84400 or UNS C93200, or a similar copper alloy as listed in ASTM B62. No lead bodies available. The serial number is engraved on the body. The main case also shows the name of the manufacturer (IMC), the size and direction of flow. Bottom plates can be made of a suitable engineering plastic or cast iron as well.

Register housing and lids - Register housing and lids are made of a copper alloy containing not less than 57% copper such as UNS C85700 or UNS C86200; or similar copper alloy as listed in ASTM B584 or UNS C85800, as listed in ASTM B176. The housing and lids can also be made from a suitable engineering plastic. The tamper resistant retaining pin is made of stainless steel. Each meter's serial number is engraved on the lid.

Measuring chambers - Measuring chambers are made of plastic, such as polyethylene ether (PPE) per ASTM D4349, nylon (N) per ANSI/ASTM D4066, polyethylene per ASTM D1248, or polystyrene per ASTM D4549. The piston has approximately the same specific gravity as water. All spindles are stainless steel.

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Installation - The meter must be installed in a clean pipeline, free from any foreign materials. The meter shall be installed with the direction of flow as indicated by the arrow cast in the meter case. The meter may be installed in horizontal or inclined lines up to 45°, with the register facing upward.

Strainers - All meters have a strainer installed in the meter. Strainer screens are rigid, snug fitting, easy to remove and have an effective straining area of at least double that of the main-case inlet.

Registers - Of the dry type with scratchproof lens. The register is Infinity's Retro Switch Register (RSR), copper canned and vacuum-sealed so that it becomes impossible for the register to fog.

Register includes the following:

- Optional RSR to attach to AMR Devices
- Company name
- Month and year of manufacture
- Center sweep hand
- Large, easy to read numbers
- Size of meter
- Type of reading (example U.S. Gallons, Cubic Feet, or m3)
- Diamond shaped indicator detecting low flow or leaks

Register includes odometer, which will give the total amount of water. One sweep of the hand will be equal to:

5/8 thru 1" meters 10 gallons/1 cu ft

Remote output is *optional* on all PD meters. A pulse signal is sent as follows:

5/8 thru 1" meters 10 gallons/pulse
 1 cu ft/pulse



Connectors - Tailpieces/meter couplings for installation of meters on various types and sizes of pipe are available as an option.

Magnetic Drive - The use of high strength magnets provides positive, reliable and dependable register coupling.

Materials

Main Case	Bronze
Measuring Unit	Thermoplastic
O-Ring	Nitrile Rubber
Magnet	Ceramic Ferrite
Strainer	Thermoplastic
Register Lens	Tempered Glass
Register Housing Lid	Bronze
Gearing Wheels	Polyoxymethylene

Data Output - Optional RSR (Retro Switch Register) activator offers compatibility with many data analysis and AMR systems.



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