DESCRIPTION

Model MW800/MM800 Right Angle Meters have a standard coating of fusion-bonded epoxy.

These models are manufactured to comply with the applicable provisions of the American Water Works Association Standard No. C704-02 for propeller type flowmeters.

As with all McCrometer propeller flowmeters, standard features include a magnetically coupled drive, instantaneous flowrate indicator and straight-reading, six-digit totalizer. and since no change gears are used, the MW800 and MM800 can be field-serviced without the need for factory recalibration.

FEATURES

Impellers

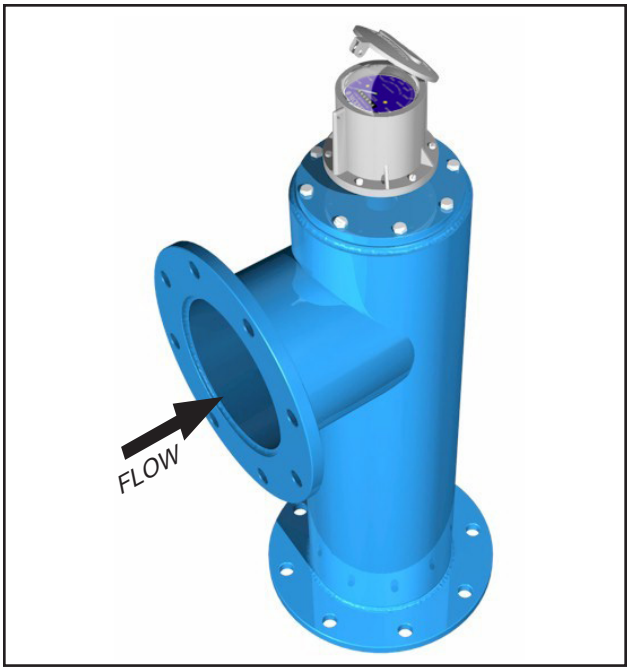
- Impellers are manufactured of high-impact plastic, capable of retaining their shape and accuracy over the life of the meter.
- Each impeller is individually calibrated at the factory to accommodate the use of any standard McCrometer register,

Bearings

- Factory lubricated stainless steel bearings are used to support the impeller shaft.
- The sealed bearing design limits the entry of materials and fluids into the bearing chamber providing maximum bearing protection.

Register

- The instantaneous flowrate indicator is standard and available in gallons per minute, cubic feet per second, liters per second and other units.
- The register is driven by a flexible steel cable encased within a protective vinyl liner.
- The register housing protects both the register and cable drive system from moisture while allowing clear reading of the flowrate indicator and totalizer.



Typical Applications

The McCrometer propeller meter is the most widely used flowmeter for municipal and wastewater treatment applications as well as agricultural and turf irrigation measurement. Typical applications include:

- Water and wastewater management
- Center pivot systems
- Sprinkler irrigation systems
- Drip irrigation systems
- Golf course and park water management
- Gravity turnouts from underground pipelines
- Commercial nurseries

INSTALLATION

Meter may be mounted in any convenient position compatible with the balance of the system, as long as a full pipeline is assured. Specify direction of flow when ordering. Model MW800 for up flow and model MM800 for down flow.

SPECIFICATIONS

Performance

Accuracy / Repeatability	±2% of reading guaranteed throughout range
Range	3" to 24"
Maximum Temperature	(Standard Construction) 160°F constant
Pressure Rating	150 psi. Consult factory for special applications.

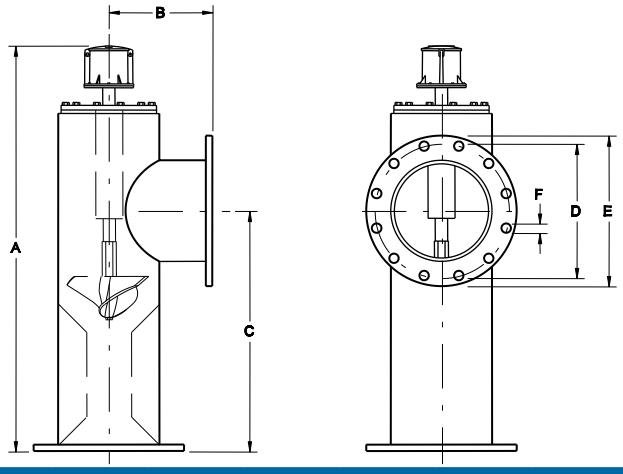
Materials

Top Plate	Stainless steel (2" to 4") or fusion-bonded epoxy coated carbon steel (6" and larger)
Drop Pipe	304 stainless steel
Spool	Carbon steel standard, stainless steel optional
Coating	Fusion-bonded epoxy
Body	Epoxy-coated carbon steel pipe conforming to A.S.A pipe schedules
Bearing Assembly	Impeller shaft is 316 stainless steel. Ball bearings are 440C stainless steel.
Magnets	(Permanent type) Alnico
Bearing Housing	• For models 2" to 16": 304 stainless steel standard, 316 stainless steel optional • For models 18" and larger: Brass standard, 316 stainless steel optional
Register	An instantaneous flowrate indicator and six-digit straight-reading totalizer are standard. The register is hermetically sealed within a die cast aluminum case. This protective housing includes a domed acrylic lens and hinged cover with locking hasp.

Options

- Can be fitted with any flange standard including common international standards
- Register extensions available
- High temperature construction
- A complete line of flow recording/control instrumentation
- Certified calibration test results
- Canopy boot

DIMENSIONS



MW800 (UP FLOW) / MM800 (DOWN FLOW)	DIMENSIONS										
Meter and Nominal Pipe Size (inches)	3	4	6	8	10	12	14	16	18	20	24
Minimum Flow. U.S. GPM	40	50	90	100	125	150	250	275	400	475	700
Maximum Flow U.S. GPM	250	600	1200	1500	1800	2500	3000	4000	5000	6000	8500
Maximum Flow w/ Marathon Bearing		900	1800	2250	2700	3750	4500	6000	7500	9000	12750
Approx. Head Loss in Inches at Max. Flow	29.50	23.00	17.00	6.75	3.75	2.75	2.00	1.75	1.50	1.25	1.00
Standard Dial Face (GPM/Gal)		800/ 100	1300/ 100	2500/ 100	3K/ 1K	4K/ 1K	6K/ 1K	8K/ 1K			
Approx. Shipping Weight- lbs.	50	87	128	182	272	370	519	601	814	976	1293
A (inches)	22 1/2	27 7/8	29 7/8	36 3/8	42 3/8	48 3/8	54	60	66	72 1/2	84 1/2
B (inches)	5	6 1/2	8	9	11	12	14	15	16 1/2	18	22
C (inches)	12 1/4	16 5/8	18	23	28	33	38	43	48	53 1/2	63 1/2
D (inches)	6	7 1/2	9 1/2	11 3/4	14 1/4	17	18 3/4	21 1/4	22 3/4	25	29 1/2
E (inches)	7 1/2	9	11	13 1/2	16	19	21	23 1/2	25	27 1/2	32
F (inches)	3/4	3/4	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4	1 1/4	1 3/8
No. of Bolts per Flange	4	8	8	8	12	12	12	16	16	20	20

Flanges in accordance with A.SA. B16.5, A.S.T.M. A181 Grade I.

Larger flowmeters on special order.

Contact the factory for MM800 (downflow) meter dimensions.

TOTALIZERS

Typical face plates

Standard register

Optional 7-wheel totalizer

FlowCom register

Mechanical Totalizer

The instantaneous flowrate indicator is standard and available in gallons per minute, cubic feet per second, liters per second and other units. The register is driven by a flexible steel cable encased within a protective vinyl liner. The register housing protects both the register and cable drive system from moisture while allowing clear reading of the flowrate indicator and totalizer.

Digital Totalizer

The optional FlowCom register displays a flowmeter's flowrate and volumetric total. Available are optional outputs: scaled pulse and/or industry standard 4-20mA signal. The FlowCom can be fitted to any new or existing McCrometer propeller flowmeter.

Wireless Telemetry

The optional FlowConnect is designed specifically for wireless telemetry via either satellite or cellular data service. Manual meter reading is never required. It uses either the mechanical register or the digital register (both shown above).

You can determine how often readings are made and transmitted to the cloud database, which you can view on a PC or on a cell phone. The viewing utility provides data tools that can analyze flow rate, consumption, and possible anomalies in an irrigation system.