

MODEL L0200

BOLT-ON METER HEAD ASSEMBLY

DESCRIPTION

Model L0200 Bolt-On Meter Head Assembly is manufactured to comply with the applicable provisions of the American Water Works Association Standard No. C704-92 for propeller type flow meters. The meter head bolts to any McCrometer meter that accepts a standard meter head assembly, including Models MW500, MW600, MW900, MT900, and MG900. The Model L0200 can replace an existing meter head or kept as a spare for those meter locations that cannot have significant down-time. The meter head weldment is either Stainless Steel or fusion-bonded epoxy coated carbon steel for maximum corrosion protection. As with all Mc Propeller flowmeters, standard features include a magnetically coupled drive, instantaneous flow rate indicator, and straight-reading, six-digit totalizer.

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, allowing field-servicing without the need for factory recalibration. Factory lubricated stainless steel bearings are used to support the impeller shaft. The shielded bearing design limits the entry of materials and fluids into the bearing chamber, providing maximum bearing protection.

The instantaneous flowrate indicator is standard and available in gallons per minute, cubic feet per second, liters per second and other engineering 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.

INSTALLATION

Standard installation is horizontal mount. If the meter is to be mounted in the vertical position, please advise the factory.



The Mc Propeller flowmeter comes with a standard instantaneous flowrate indicator and straight-reading totalizer. An optional FlowCom register is also available. *Typical face plates.*



APPLICATIONS

The Mc 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 for underground pipelines
- Commercial nurseries



BOLT-ON METER HEAD ASSEMBLY MODEL L0200

SPECIFICATIONS

PERFORMANCE

ACCURACY/REPEATABILITY: $\pm 2\%$ of reading guaranteed throughout full range. $\pm 1\%$ over reduced range. Repeatability 0.25% or better

RANGE: see dimensions chart below

HEAD LOSS: see dimensions chart below

MAXIMUM TEMPERATURE: (Standard Construction) 160°F constant

PRESSURE RATING: 150 psi. Consult factory for higher rated version.

ENVIRONMENTAL RATING: NEMA 4X

MATERIALS

TOP PLATE WELDMENT: Stainless Steel (2" to 4") or Fusion-bonded epoxy coated Carbon Steel

BEARING ASSEMBLY: Impeller shaft is 316 stainless steel. Ball bearings are 440C stainless steel

MAGNETS: Permanent type. Cast or sintered Alnico

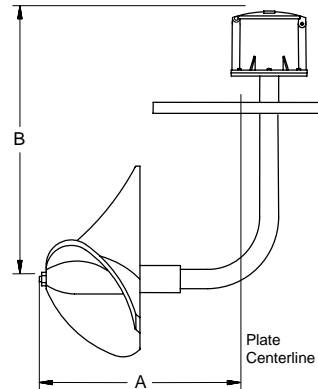
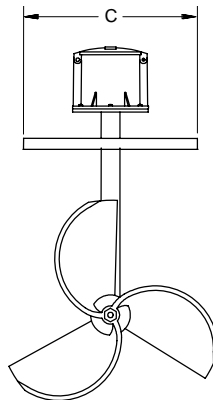
BEARING HOUSING: Brass or Optional 316 stainless steel

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 lens cover with locking hasp.

IMPELLER: Impellers are manufactured of high-impact plastic, retaining their shape and accuracy over the life of the meter. High temperature impeller is optional.

OPTIONS

- Forward/reverse flow measurement
- Register extensions
- All stainless steel construction
- High temperature construction
- "Over Run" bearing assembly for higher than normal flowrates
- Electronic propeller meter available in all sizes of this model
- A complete line of flow recording/control instrumentation
- Certified calibration test results
- Stainless steel bearing housing



| MW600 | DIMENSIONS | | | | | | | | | | | | |
|---------------------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Meter Size (inches) | 2, 2.5, 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 30 | 36 |
| Part No. | ** | L0233-10 | L0234-10 | L0235-10 | L0236-10 | L0237-10 | L0238-10 | L0239-10 | L0240-10 | L0241-10 | L0242-10 | L0243-10 | L0243-30 |
| Maximum Flow U.S. GPM | 250 | 600 | 1200 | 1500 | 1800 | 2500 | 3000 | 4000 | 5000 | 6000 | 8500 | 12500 | 17000 |
| Minimum Flow U.S. GPM | 40 | 50 | 90 | 100 | 125 | 150 | 250 | 275 | 400 | 475 | 700 | 1200 | 1500 |
| Approx. Head Loss in psi at Max. Flow | 1.06 | .83 | .61 | .24 | .14 | .1 | .07 | .06 | .05 | .05 | .04 | .03 | .02 |
| Approx. Shipping Weight-lbs. | 36 | 30 | 45 | 70 | 90 | 120 | 125 | 130 | 150 | 175 | 190 | 205 | 210 |
| A* (inches) | 8.5 | 11.37 | 12.87 | 12.87 | 12.12 | 12.12 | 12.12 | 12.12 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 |
| B (inches) | 9.5 | 10.75 | 10.75 | 11.75 | 13.75 | 14.75 | 14.75 | 16.75 | 16.75 | 18.75 | 20.75 | 22.38 | 26.38 |
| C (inches) | 4.5 | 5 1/2 | 7 1/2 | 7 1/2 | 10 3/4 | 10 3/4 | 10 3/4 | 10 3/4 | 12 3/4 | 12 3/4 | 12 3/4 | 18 | 20 |
| No. of Topplate Bolts | 6 | 6 | 8 | 8 | 12 | 12 | 12 | 12 | 16 | 16 | 16 | 16 | 16 |

*Dimension A is from center of meter head weldment.

**Use L0232-10 for meters built prior to January 1, 2000, and L0232-20 for meters built after January 1, 2000 and beginning with serial #00-7974-XX.

On ordering, please specify Serial Number of existing meter head assembly.

For replacing other brand meter heads, see Model L0200X Configuration Sheet.



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