Product Data Sheet PDS-112/114 2021-01-09

# Mainline Propeller Meters

FM112 Direct Drive and FM114 **Electronic Propelller Meters** 

'Drop in' replacement for Masterflo Propeller Meters

## Description

The FM112 and FM114 Propeller Accuracy is within 2% of actual flow for meters are drop-in replacements for the Sparling's Masterflo meters.

The FM112 is identical in construction to Sparling's FM102 and FM182 meters except that the FM112 features a custom coverplate and propeller center line dimension ('M Dimension') to allow this unit to replace Masterflo propeller Installation meters without any changes to the Meters must be installed in full flowing piping or meter tube. The FM114 is suction or discharge lines. Avoid valves, identical in construction to Sparling's fittings or obstructions immediately FM104 and FM184 meters except that upstream of the meter which may FM114 features a coverplate and propeller center line profiles. It is recommended that a dimension ('M Dimension') to allow this minimum unit to replace Masterflo propeller diameters be maintained upstream and meters without any changes to the one diameter downstream of the flow piping or meter tube.

reliable accurate and measurements where mainline service standard units(i.e. gallons, cubic feet, is required in municipal and industrial acre-feet, ettc.). This register is a environments. These meters have a separate item. For FM112 please proven design and a reputation for specify a FT191 or FT193. For FM114 continuous, duty minnimal required maintenance.

Sparling's propeller meters are ideally suited for clean water applications where the temperature of the water does not exceed 100°F and suspended solids do not exceed 0.5%.

## **Certified Accuracy**

specified meter range. accuracy is guaranteed by certified wet calibration at three test points in Sparling's NIST traceable primary flow laboratory. Each meter is tested at low flow, mid-range, and high flow. A test certificate is provided with each meter.

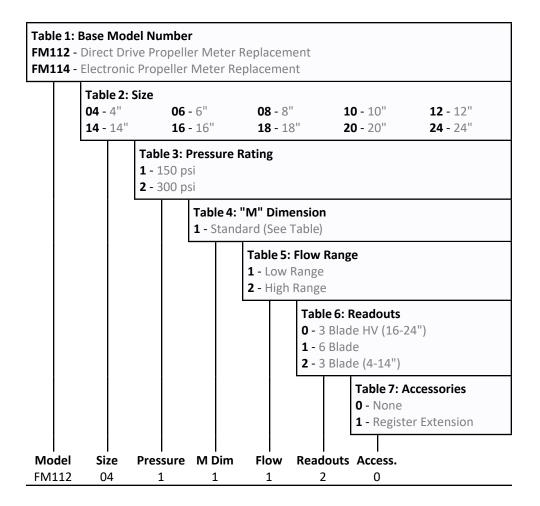
custom cause jetting or non-symmetrical flow straight of five meter.

These meters arae designed to provide Registration of flow is shown on a flow register which can be furnished in any with please specify a FT194-II.

> Note if a new meter tube is required, please specify FM102/FM182/FM104 /FM184 meters.



#### How to Order a FM112 or FM114



| Size (in) | Low Range (GPM) |      | High Range (GPM) |       | M Dim (in)                      |
|-----------|-----------------|------|------------------|-------|---------------------------------|
|           | Min             | Max  | Min              | Max   | M Dim (in)                      |
| 4         | 50.0            | 400  | 400              | 600   | $3\frac{7}{16}$                 |
| 6         | 90.0            | 900  | 900              | 1600  | 5                               |
| 8         | 100             | 1200 | 1200             | 2300  | 5                               |
| 10        | 125             | 1600 | 1600             | 3000  | 7 <sup>11</sup> / <sub>16</sub> |
| 12        | 150             | 2200 | 2200             | 4000  | 7 <sup>11</sup> / <sub>16</sub> |
| 14        | 250             | 3000 | 3000             | 5000  | 7 <sup>7</sup> / <sub>8</sub>   |
| 16        | 350             | 3800 | 3800             | 6800  | 11 <sup>9</sup> / <sub>16</sub> |
| 18        | 450             | 4500 | 4500             | 8100  | 11 <sup>9</sup> / <sub>16</sub> |
| 20        | 550             | 5500 | 5500             | 9900  | 11 <sup>9</sup> / <sub>16</sub> |
| 24        | 800             | 8500 | 8500             | 15000 | 13 <sup>9</sup> / <sub>16</sub> |

