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Mc SpaceSaver™ Flow Straightener



The tight spot
solution that
saves money

Mc SpaceSaver

The tight spot meter

Conserve water and save money
with the high accuracy flow solution
that fits almost anywhere

How flow conditioning works



The Mc SpaceSaver Flow Meter operates over a wide 15:1 flow range and supports the most popular 6 and 8-inch irrigation line sizes. It is designed with a built-in flow straightener assembly that greatly enhances measurement performance. As the upstream flow in an irrigation line approaches the Mc SpaceSaver, its built-in straightener mixes and shapes the liquid flow into a smooth stream before it reaches the impeller to optimize measurement performance.

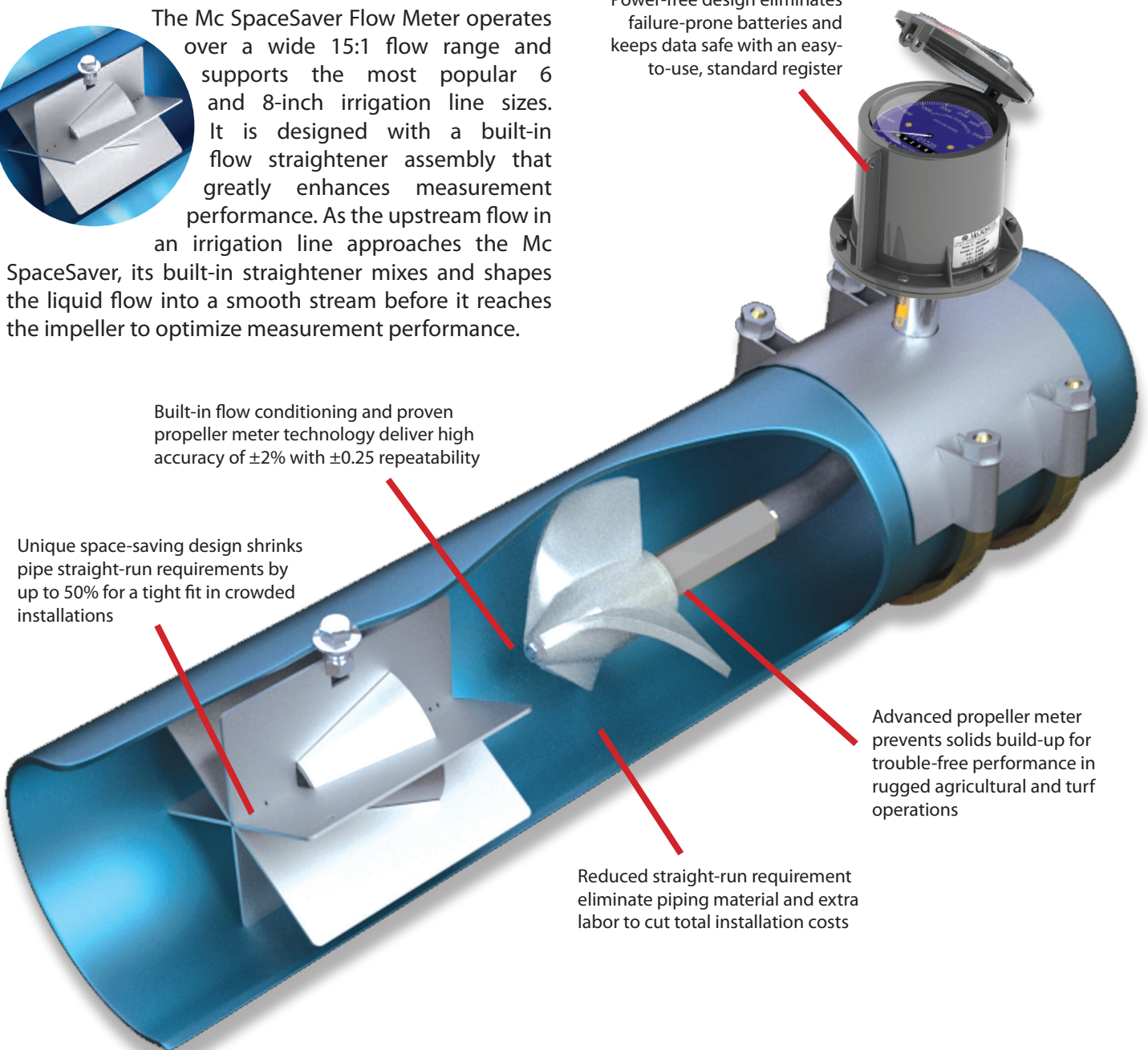
Built-in flow conditioning and proven propeller meter technology deliver high accuracy of $\pm 2\%$ with ± 0.25 repeatability

Unique space-saving design shrinks pipe straight-run requirements by up to 50% for a tight fit in crowded installations

Power-free design eliminates failure-prone batteries and keeps data safe with an easy-to-use, standard register

Advanced propeller meter prevents solids build-up for trouble-free performance in rugged agricultural and turf operations

Reduced straight-run requirement eliminate piping material and extra labor to cut total installation costs



The straight story on straight runs

The advanced Mc SpaceSaver from McCrometer is a total system solution, featuring a built-in flow straightener to condition water flow, which virtually eliminates the upstream/downstream straight pipe runs typically required in existing or new flow meter applications.

Requiring only a minimum of 1.5 straight pipe diameters upstream and 0.5 downstream, the Mc SpaceSaver reduces typical installation piping and labor costs by more than 50 percent, which makes it the right fit for both retrofit and in brand new installations.

Straight pipe requirements

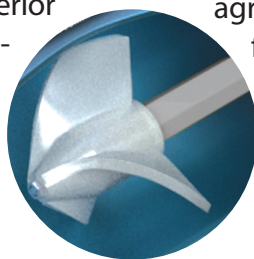
Other flow meters	Mc SpaceSaver
10	1.5
5	0.5

Greater flow measurement accuracy

The result is greater flow measurement accuracy, in real world installations of up to ± 2 percent, with ± 0.25 percent repeatability. The Mc SpaceSaver's built-in flow straightener allows it to be installed in close proximity to chemigation, butterfly and gate valves, or out-of-plane elbows, and reducers with excellent measurement stability -- compared to mag and other flow meters, which specify accuracy based on ideal laboratory flow conditions.

The Mc SpaceSaver is designed with heavy-duty propeller meter technology for rugged agricultural service. Featuring a self-cleaning propeller design, the Mc SpaceSaver prevents the build-up of solids. Its unique magnetic coupling system keeps the register drive isolated from the flow while permitting unrestricted movement of the impeller. Free rotation of the impeller also is assured by factory-lubricated stainless steel bearings.

Developed with a breakthrough design that combines advanced flow conditioning and propeller meter technologies, the Mc SpaceSaver Flow Meter from McCrometer delivers superior accuracy, lower installation costs and long-life with low maintenance. It's the ideal money-saving flow measurement solution to help farmers, water district engineers and irrigation dealers cope with the latest water metering programs.



For more than 65 years, McCrometer has been the leader in developing innovative flow measurement solutions designed specifically for rugged agricultural and turf irrigation operations. The first McCrometer flow meters were designed for farmers by farmers who knew first-hand the challenge of bringing water reliably and efficiently to crops without wasting a drop or a nickel.

Flow rate indicator and totaled flow output



The Mc SpaceSaver Flow Meter comes with a standard instantaneous flow rate indicator and a straight-reading totalizer. Unlike mag and other types of flow meters, the Mc SpaceSaver requires no electric

power to operate. With no Lithium batteries to fail in extreme heat or cold or humidity, your valuable flow data is continuously available and safe via the Mc SpaceSaver's standard register.

The versatile water measurement solution



- Agriculture irrigation
- Turf irrigation
- Drip and sprinkler systems
- Greenhouse growers
- Pumping stations
- Canal laterals
- Golf courses
- Park management
- Center pivot systems

Mc SpaceSaver Specifications

Mc SpaceSaver consists of: M0300F Flow Meter and Flow Straightener

Minimum Upstream Straight Run: 1.5 pipe diameter minimum (measured from propeller)

Acceptable Installation Effects: Chemigation Valves, in plane elbows, out of plane elbows, fully open butterfly and gate valves

Sizes: 6" to 12" nominal and OD pipe

Customer Pipe Wall: Metal: ≥ 0.08 , < 0.5 Plastic: ≥ 0.25 , < 0.5

For M0300F Installation: Inserted into pipeline through rectangular hole and locked in place by a single 1/2 or 5/8 inch bolt. The M0300F Flow Meter is designed to cover the rectangular hole used to install the flow straightener.

For Existing M0300 Installation: Inserted into pipeline through open end of pipeline and locked in place by a single 1/2 or 5/8 inch bolt.

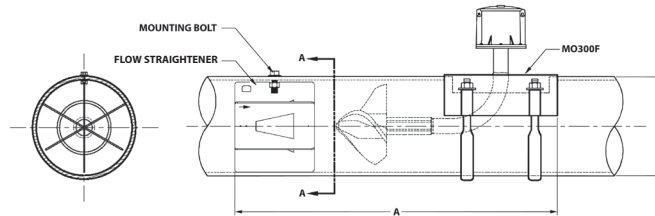
Installation Bolt: Stainless steel with dual seal.

M0300F Body: Fabrication 304 stainless steel saddle with stainless steel drop pipe is supplied with: stainless steel bearing housing, stainless steel bearings, polypropylene impeller, magnetic drive, instantaneous flow indicator, straight-reading six-digit totalizer, and flat neoprene gasket.

Flow Straightener Body: 304 stainless steel

Exterior: Glass bead blasted

Pressure Rating: 150 psi maximum



Model M0300F Flow Meters								
M0300F Model	M0306-F	M0306-F	M0306-F	M0306-F	M0308-F	M0308-F	M0308-F	M0308-F
Flow Straightener Models	FS106-1	FS106-2	FS106-3	FS106-4	FS108-1	FS108-2	FS108-3	FS108-4
Pipe OD (B)	6.625	6.625	6.0	6.0	8.625	8.625	8.0	8.0
Wall Thickness Range	0.08-0.199	0.2-0.32	0.8-0.156	0.157-0.260	0.08-0.209	0.21-0.34	0.08-0.161	0.162-0.260
'A' with M03XXF Flow Meter	22	22	22	22	28 5/8	28 5/8	28 5/8	28 5/8
'A' with M03XX Flow Meter	26 1/4	26 1/4	26 1/4	26 1/4	31 1/8	31 1/8	31 1/8	31 1/8
Flow Straightener Shipping Weight (lbs)	3.3	3.2	3.0	2.9	5.9	5.7	5.5	5.3
M0300F Shipping Weight (lbs.)	22	22	22	22	26	26	26	26

Model M0300F Flow Meters								
M0300F Model	M0310F	M0310F	M0310F	M0310F	M0312F	M0312F	M0312F	M0312F
Flow Straightener Models	FS210-1	FS210-2	FS210-3	FS210-4	FS212-1	FS212-2	FS212-3	FS212-4
Pipe OD (B)	10.75	10.75	10	10	12.75	12.75	12	12
Wall Thickness Range	0.080-0.289	0.290-0.500	0.060-0.159	0.160-0.260	0.080-0.289	0.290-0.500	0.060-0.159	0.160-0.260
'A' with M03XXF Flow Meter	34 1/8	34 1/8	34 1/8	34 1/8	38	38	38	38
'A' with M03XX Flow Meter	36 5/8	36 5/8	36 5/8	36 5/8	40 1/2	40 1/2	40 1/2	40 1/2
Flow Straightener Shipping Weight (lbs)	8.4	8	7.6	7.4	10.1	9.7	9.2	8.9
M0300F Shipping Weight (lbs.)	30	30	30	30	34	34	34	34

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