Product Data Sheet PDS-312/314 2021-01-09

Irrigation Saddle Meter FM312/314 Bolt-on Irrigation Saddle Propeller Meter



Description

Specifically designed to and reliable accurate measurement to the marketplace, Sparling's saddle flow NIST traceable flow lab. meter is the ideal solution trouble-free water flow measurement in irrigation's severe environments. The saddle design allows the meter to be used on existing piping, and in many cases, these meters can replace other saddle flow meters.

These meters feature cast saddles and gear boxes making them robust and reliable. The simple and rugged design ensures that the meter can be maintained using standard tools.

The design is based on Sparling's proven meters that have been used in agricultural, municipal and industrial applications for decades. The meter is perfect for measuring flow in sprinkler systems and center pivot systems as well as irrigation systems used in agriculture, golf courses and nurseries.

Accuracy

provide The meter's accuracy is ±2% Full Scale flow of actual flow and each meter is irrigation certified by wet flow calibration in a

Configurations

The meter is available in two configurations:

- 1) Mechanical, featuring a reliable worm and gear pair that prevents slippage and error in readings.
- 2) Electronic, featuring the reliability of fewer moving parts, permanent magnets and a digital display. Optional outputs allow for communication with data systems.

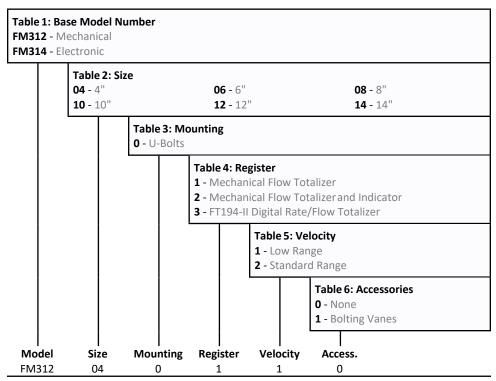
Options

A full line of accessories is available:

- Dummy covers
- Register Extensions
- Straightening vanes
- Meter tubes, with plain or flanged ends
- Outputs: Scaled Pulse Outputs and 4-20mA

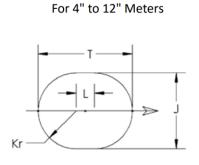


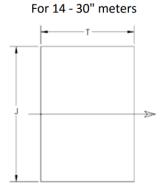
Ordering Information



Installation

To install the meterhead, prepare a template from the dimensions below. Using the template, scribe a line for cutting, and cut opening, removing all burrs and slag.





Size (in)	Max. Press. (psi)	Weight (lbs)	J (in)	T (in)	Kr (in)	L (in)	Flow Range (GPM)	
							Low	Standard
4.00	100	20.0	4.63	7.19	2.31	2.56	60.0 - 400	120 - 600
6.00	100	25.0	6.63	6.63	3.31	0.000	100 - 900	200 - 1600
8.00	100	30.0	6.25	7.75	3.13	1.50	120 - 1200	240 - 2300
10.0	100	35.0	6.75	8.00	3.38	1.25	160 - 1600	320 - 3000
12.0	100	40.0	8.00	8.00	4.00	0.000	200 - 2000	400 - 4000
14.0	50.0	50.0	6.38	14.9	*	*	260 - 2500	520 - 5000

