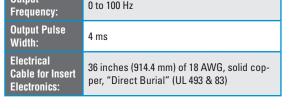


SPECIFICATIONS

Tee Housing Material:	Schedule 80 PVC		
	Body: PPS (Ryton R-4)		
Insert Wetted Materials:	Sensor: PEI (Ultem 1000)		
matorialo.	O-Ring: EPDM		
Temperature Rating:			
Operating:	rating: 32° F to 140° F (0° C to 60° C)		
Storage:	-20° F to +160° F (-29° C to +71° C)		
Flow Range:	0.1 to 15 fps (0.03 to 4.6 m/s)		
Accuracy:	Typically ±2% of reading		
Operating Pressure:	150 psi @ 73° F (10 bar @ 23° C) 100 psi @ 140° F (7 bar @ 60° C)		
Transducer	Supply Voltage: 7.5V (dc) min. to 36V (dc) max		
Excitation:	Quiescent Current: 200 µA (typical)		
Output Frequency:			
Output Pulse Width:	Pulse 4 ms		
Electrical Cable for Insert Electronics:	36 inches (914.4 mm) of 18 AWG, solid cop- per, "Direct Burial" (UL 493 & 83)		

APPLICATIONS

- Turf / Landscape Irrigation Systems
- Agriculture Irrigation
- · Micro Irrigation Systems
- Groundwater Monitoring



FLSMEC

QS200 INSERTION ULTRASONIC FLOWMETER

The QS200 Insertion Ultrasonic Flowmeter provides an accurate reading of liquid flow rate and accumulated flow. Designed to support commercial irrigation applications, the QS200 is available in five pipe sizes, 1 to 4 in.

The QS200 ultrasonic insert is available with a PVC tee or as an "insert retrofit" for replacement of existing paddlewheel flow sensors.

FEATURES / BENEFITS

- Low-cost, effective and easy installation •
- No moving mechanical parts (low-maintenance) •
- Simple two-wire connector (for power and pulse)
- Compatible with irrigation controllers (common name brands) •
- High accuracy: \pm 2.0% of reading (compared to full scale • accuracy)
- Provides extended leak detection down to 0.1 fps (0.03 m/s)
- LED light indicators: (green for power and amber for pulse) •
- Patented design •
- Certified NSF61 option for those applications where potable water regulations must be met (PW models)
- External wiring: (direct burial wire)

INSERT DESCRIPTION

Designed for above and below grade applications, such as irrigation, municipal and underground monitoring where the flow rates are between 0.1 to 15 fps (0.03 to 4.6 m/s) and temperatures are below 140° F (60° C). QS200 inserts are supplied with two single conductors, 18 AWG solid copper wire leads that are 36 inches (914.4 mm) in length with UL Style 116666 direct burial insulation.



1 PRODUCT IDENTIFIER:

QS200 = QS200 Insertion Ultrasonic Flowmeter

2 METER SIZE:

- Blank = Insert Only
- -10 = Schedule 80 PVC Tee 1 inch
- -15 = Schedule 80 PVC Tee $-1-\frac{1}{2}$ inch
- -20 = Schedule 80 PVC Tee 2 inch
- -30 = Schedule 80 PVC Tee 3 inch
- -40 = Schedule 80 PVC Tee 4 inch

3 NSF CERTIFICATION:

Blank = None

PW = Potable Water Version (NSF Certified)



IP68

CERTIFICATIONS

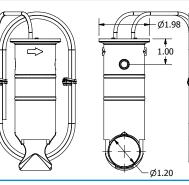


NSF Certification for PW models only

FLOW INSERT SELECTION CHART

Flowmeter	Pipe	Operating	Operating	Adjoining	Typical ¹	Hydrawise®² K-Factor	Rain Master®	Offset	Reference		
Model	Size	Range (Min.)	Range (Max.)	Pipe	K-Factor	(Litre/Pulse)	K-Factor	Unset	Pulses/Gal	Pulses/Litre	
QS200-10	1 in.		nin) (124.92 L/min)	Sch 40	0.5575	0.0352	152	0	107.62	28.43	
Q3200-10	1 111.	(0.83 L/min) 0.1 ft/sec		Sch 80	0.5354	0.0338	146	0	112.06	29.60	
QS200-15	1-1⁄2	0.55 GPM (2.08 L/min)		Sch 40	0.7923	0.0500	216	0	75.73	20.00	
Q3200-15	in.	0.1 ft/sec	(310.41 L/min) 15 ft/sec	Sch 80	0.7860	0.0496	214	0	76.34	20.17	
QS200-20		0.92 GPM (3.48 L/min)	138 GPM (522.39 L/min)	Sch 40	1.4610	0.0922	398	0	41.07	10.85	
Q3200-20	2 111.	0.1 ft/sec	15 ft/sec	Sch 80	1.4568	0.0919	397	0	41.19	10.88	
QS200-30	3 in.		309 GPM (1169.70 L/min)	Sch 40	4.2630	0.2690	1163	0	14.07	3.72	
Q3200-30	5 111.	0.1 ft/sec		Sch 80	4.0850	0.2577	1114	0	14.69	3.88	
QS200-40	4 in.	3.58 GPM (13.55 L/min) 0.1 ft/sec		537 GPM (2032.78 L/min)	Sch 40	8.0881	0.5103	2206	0	7.42	1.96
Q3200-40	Q3200-4 0 4 III.		15 ft/sec	Sch 80	7.9062	0.4988	2156	0	7.59	2.00	
QS200		Insert O	nly	Sch 80	Use pi	ipe size to detern	nine value	0		to determine lue	

DIMENSIONS



1 Controller Brands: BaselineTM, Calsense, Hunter®, HydroPoint® (WeatherTrak®), Rain Bird®, Toro®, and Weathermatic®. 2 Hydrawise®HCC models only.

K-Factor Information:

NOTE: The meter size is molded on the vertical stem of the Tee. FLOMEC ultrasonic meters use K-Factor plus offset numbers for greater accuracy during calibration. These values are derived by calibrating the meters using NIST traceable instrumentation. Using both sets of values to calibrate the meters provides greater accuracy than using only a K-factor value. The K-factor and offset values for each meter are listed above.

IMPORTANT: The K-factors provided are for reference. Accuracy can be affected by plumbing configuration, fluid condition, adjoining pipe schedule, type of meter tee (non-FLOMEC brand), and entrapped air. Customers should always validate accuracy and adjust K-factor as needed. If using non-FLOMEC tees, K-Factor will be different than those shown. Inconsistencies with these tees affect any stated value. Customers must verify accuracy if concerned.

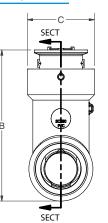
QS200 INSERT

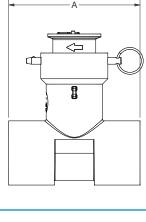
1, 1-1/2, & 2 INCH METERS

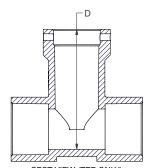
-,,					
	QS200-10,	QS200-15,	QS200-20,		
	QS200-10PW	QS200-15PW	QS200-20PW		
	1 INCH	1-1/2 INCH	2 INCH		
A. Length	4.25 in.	4.90 in.	5.56 in.		
	(108mm)	(124mm)	(141mm)		
B. Height	5.38 in.	5.63 in.	6.12 in.		
	(137mm)	(143mm)	(156mm)		
C. Width (at widest point)	2.50 in. (64mm)	2.50 in. (64mm)	2.88 in. (73mm)		
D. Depth	4.47 in.	4.47 in.	4.94 in.		
	(114mm)	(114mm)	(125mm)		

3 & 4 INCH METERS

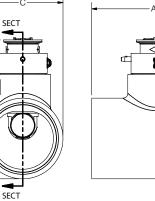
	QS200-30, QS200-30PW 3 INCH	QS200-40, QS200-40PW 4 INCH
A. Length	6.63 in. (168mm)	7.38 in. (187mm)
B. Height	7.20 in. (183mm)	8.41 in. (213mm)
C. Width (at widest point)	4.18 in. (106mm)	5.23 in. (133mm)
D. Depth	4.91 in. (124mm)	6.17 in. (156mm)

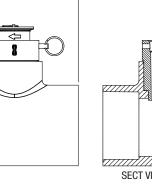






SECT VIEW (TEE ONLY)





1111 SECT VIEW (TEE ONLY)

Service & Warranty: For technical assistance, warranty replacement or repair contact your FLOMEC® or GPI® distributor: In North or South America: 888-996-3837 / FLOMECmeters.com Outside North or South America: +61 2 9540 4433 / FLOMECmeters.com



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