

GENERAL INFORMATION

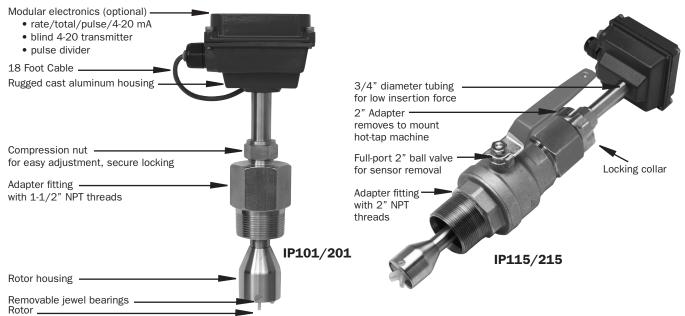
The **IP100/200-Series** are adjustable depth insertion paddlewheels that come in brass or 316 stainless models to fit 3" to 48" pipe. Installation fittings are standard 1-1/2" (101/201) or 2" (115/215) NPT. Fittings such as saddles and weldolets may be purchased either locally or from Seametrics.

Ruby bearings and a non-drag Hall-effect sensor give these meters the widest flow range of any of the paddlewheel types. A sensor detects the passage of miniature magnets in the six rotor blades. The resulting square-wave signal can be sent for hundreds of feet over unshielded cable without a transmitter and connected directly to many PLC's and other controls without any additional electronics. If desired, a modular system of electronics can be installed directly on the flow sensor or mounted remotely. The FT415 (battery powered) or FT420 (loop powered) flow indicator provides digital rate and total display, as well as programmable pulse output; the FT420 also provides a 4-20 mA analog output. If a display is not required, the AO55 provides 4-20 mA analog output, and the PD10 provides a programmable pulse for pump pacing.

The "hot-tap" models (IP115/215) can be installed or serviced without shutting down the line by means of a 2" full-port isolation valve that comes with a nipple for installation on the pipe fitting. In most circumstances, no special tool is required.



FEATURES



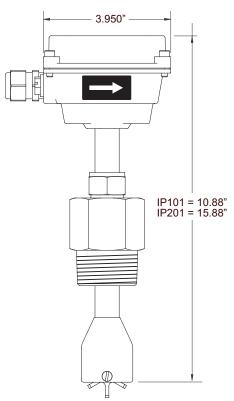
SPECIFICATIONS*

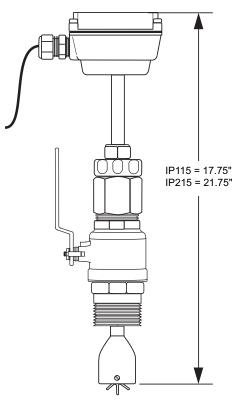
Pipe Size		IP101/115	IP201/215			
		3" to 10" (50 - 250mm)	10" to 48" (250 - 1200mm)			
Sensor		Hall Effect sensor, 12 Vdc current sinking pulse				
Materials Housing Sensor Body		Cast aluminum				
		Brass or 316 SS				
	Rotor	PVDF (Kynar)				
Shaft Bearings		Nickel-bound tungsten carbide (zirconia ceramic optional)				
		Ruby jewel				
		IP101/201	IP115/215			
	Isolation Valve	None	Bronze (316SS optional)			
Fitting Size		1.5" NPT	2" NPT			
Flow Range		0.3 - 30 feet/sec (0.1 - 9 meter/sec)				
Accuracy		+/- 1.5% of full scale				
Maximum Temperature		200° F (93° C)				
Maximum Pressure		200 psi (14 bar)				
Insertion Force		0.44 x pressure in pipe				
Power		5-24 Vdc, 1.5 mA				
Cable		#22 AWG 3-con, 18' (6m); 2,000' (650m) maximum cable run				
Regulatory		K Mark (Standard Power Only)				

*Specifications subject to change. Please consult our website for the most current data (www.seametrics.com).



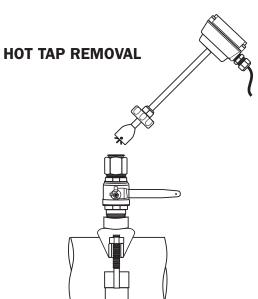
DIMENSIONS





HOT TAP INSTALLATION

Insertion and removal under pressure is possible due to the 2" full-port isolation valve, which comes with a nipple for installation on the pipe fitting. If it is necessary to do the initial installation under pressure, any standard hot tap drilling machine with 2" NPT adapter, such as a Transmate or a Mueller, can be used. Ordinarily, it is not necessary to use an installation tool, since the small-diameter tube can be controlled by hand at all but the highest pressures.



FLOW RANGE (Gallons Per Minute)

Pipe Size	3"	4"	6"	8"	10"	12"	16"	18"	24"	30"	36"	48"
Min. (.3 ft/sec)	6.9	12	27	46.8	73	105	165	209	375	624	874	1,690
Max. (30 ft/sec)	691	1,190	2,700	4,680	7,370	10,470	16,520	20,900	37,600	62,505	87,410	169,000

Approximations based on Schedule 40 pipe.



HOW TO ORDER

MODEL	MATERIAL	OPTIONS			
3-10" = IP101	Brass = B	Ceramic Shaft = -01			
3-10" hot tap = IP115	316 Stainless = S	Adapter Fitting, 2" Threads = -02			
10-48" = IP201		Micropower Pickup (FT415 & DL75 Only) = -			
10-48" hot tap = IP215		LMI Pump Connector = -06			
		Seametrics Control Connector = -07			
		Stainless Valve Assembly (115/215 only) = -08			
		No Valve Assembly (115/215 only) = -09			
		*Immersibility = -40			
		12" Extension (200-Series only) = -72			
		*Consult factory for suitable applications			
ACCESSORIES					
Rate & Total Indicator w/4-20 mA O	utput = FT420	Data Logger = DL76			
Battery Operated Rate/Totalizer = F	T415	Pulse Divider = PD10			
Blind 4-20 mA Transmitter = AO55		Saddle Fittings = Consult Factory			
Power Supply = PC3					

CONTACT YOUR SUPPLIER