



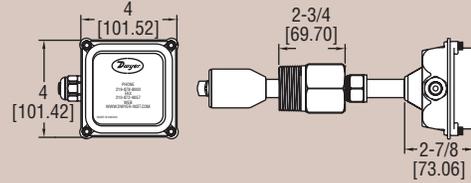
Series
IPFS

Paddlewheel Flow Sensor

Hot-Tap Option, Field Adjustable Insertion, Wide Flow Range



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Hot-Tap Option

The Series IPFS Insertion Paddlewheel Flow Sensor is available for pipe sizes ranging from 3 to 40" and available in brass, PVC or stainless steel. The Series IPFS has an available hot tap model with a bronze or stainless steel valve assembly. The bearings are made from ruby jewel to reduce the coefficient of friction and maintain high accuracy. The Series IPFS can be purchased with a variety of saddle fittings, Series SDF, that comes in iron or brass. The Series IPFS is good for large pipe and clean water applications. It is ideal for chemical proportioning applications or any applications with rapidly changing fluid conductivity.

PRINCIPLE OF OPERATION

The IPFS uses the rotation of an impeller to measure flow. Liquid flow pushes the rotor and the rotation is detected by a Hall-effect sensor. The output is a current sinking pulse signal which can be connected to the Series RTI to display flow rate and total or the Series BAT for a 4 to 20 mA signal conversion.

APPLICATIONS

- Clean liquids
- Large pipes
- Aquariums, water parks
- Water & wastewater monitoring

ACCESSORIES

- Series BAT, Blind Analog Transmitter, converts pulse output to 4 to 20 mA analog output. Unit is loop powered, fits on the enclosure of the meter, and is field spannable.
- Series RTI, Rate Total Indicator, converts pulse output to 4 to 20 mA analog output with local flow rate and totalization display. Unit is loop powered, can fit on the enclosure of the meter, and provides a high/low flow alarm.
- Series PWD, Pulse Divider, for use with pacing electronic metering pumps. Unit divides the input frequency to any number from 1 to 9999 with the use of rotary switches to suit a number of metering pump inputs.

SPECIFICATIONS

Service: Compatible clean liquids.

Range: 0.3 to 30 ft/s (0.01 to 10 m/s).

Wetted Materials:

Shaft Body/Fitting: Brass, PVC, or 316 SS;

Rotor: PVDF;

Shaft: Nickel-bound tungsten carbide;

Bearings: Ruby jewel.

Valve

Assembly: IPFS-1XX: Bronze (SS optional) with bronze ball valve;

O-ring: EPDM.

Accuracy: +1.5% FS.

Temperature Limits: Brass/SS: 200°F (93°C); PVC: 130°F (55°C).

Pressure Limits: Brass/SS: 200 psi (13.8 bar); PVC: 150 psi (10 bar).

Process Connection: IPFS-0XX: 1-1/2" male NPT; IPFS-1XX: 2" male NPT.

Output: Current sinking, square wave pulse.

Power Requirements: 5 to 24 VDC @1.5 mA (3.5 to 16 VDC -LOP option).

Electrical Connection: #22 AWG, 3 conductor, 18' (5.5 m) cable length standard (max. 2000').

Enclosure Material: Housing: Die-cast powder-coated aluminum.

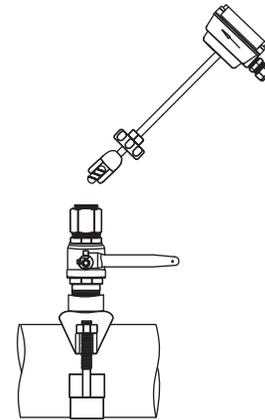
Enclosure Rating: NEMA 4X (IP66).

Weight: IPFS-1XX: 4 lb (1814 g); IPFS-2XX: 6 lb (2721 g); IPFS-3XX: 13 lb (5897 g); IPFS-4XX: 15 lb (6804 g).

FLOW
Flow Transmitters, Paddlewheel, Adjustable Insertion

Example	IPFS	OSB	BAF	IPFS-0SS-BAF		
Series	IPFS			Insertion Paddlewheel Flow Sensor		
Size/ Material				Size	Hot-Tap	Material
		OSB		3 to 12"	No Hot-Tap	Brass
		OSP		3 to 12"	No Hot-Tap	PVC
		OSS		3 to 12"	No Hot-Tap	SS
		OLB		12 to 40"	No Hot-Tap	Brass
		OLP		12 to 40"	No Hot-Tap	PVC
		OLS		12 to 40"	No Hot-Tap	SS
		1SB		3 to 12"	Hot-Tap	Brass
		1SP		3 to 12"	Hot-Tap	PVC
		1SS		3 to 12"	Hot-Tap	SS*
		1LB		12 to 40"	Hot-Tap	Brass
		1LP		12 to 40"	Hot-Tap	PVC
		1LS		12 to 40"	Hot-Tap	SS*
Options				CRS Ceramic Shaft BAF 2" Brass Adapter Fitting (IPFS-0XX only) SAF 2" SS Adapter Fitting (IPFS-0XX only) SVA 316 SS Valve Assembly (IPFS-1XX only) NVA No Valve Assembly (deduct price) (IPFS-1XX only) BPT 1-1/2" Brass BPT Adapter (2 piece) (IPFS-0XX only) SPT 1-1/2" SS Adapter (2 piece) (IPFS-0XX only) EXT 12" Extension (IPFS-XL only)		

*SS is stem and fitting. For SS valve order SVA option.



Hot-Tap Option
(Shown installed on pipe)