

PADDLEWHEEL FLOW SENSOR Low Friction Bearings, Long Life, 1/2 to 8" Pipe (12.7 to 203 mm)



The **SERIES PDWS** Insertion Paddlewheel Flowmeters are designed for pipe size ranges from 1/2 to $8^{\prime\prime}$ with available materials of brass, stainless steel, PVC, and polypropylene. The Series PDWS is intended to be used with the Series PWF, a wide variety of custom tee, saddle, or welded fittings that come in bronze, PVC, and stainless steel.

FEATURES/BENEFITS

- The bearings are made from ruby jewel to reduce the coefficient of friction and maintain high accuracy
- · PVC and polypropylene body material offers resistance against corrosive media

APPLICATIONS

- Industrial water & wastewater treatmentCooling water monitoring
- · Industrial fluid control
- Chemical proportioningFluctuating fluid conductivity applications

MODEL CHART						
Example	PDWS	-1B	-CRS	PDWS-1B-CRS		
Series	PDWS			Insertion paddlewheel flow sensor		
Size/ Material		1B 1S 1P 1Y 2B 2S 2P 2Y		1/2 to 3", brass 1/2 to 3", 316 SS 1/2 to 3", PVC 1/2 to 3", polypropylene 4 to 8", brass 4 to 8", 316 SS 4 to 8", PVC 4 to 8", polypropylene		
Options			IMM FOR HPO	Ceramic shaft Immersible (urethane potted electrical connection) Fluoroelastomer O-ring High pressure options (Use with SS only) eries PWF fitting for proper installation		

SPECIFICATIONS

Service: Compatible clean liquids. Range: 0.3 to 30 ft/s (0.09 to 9.14 m/s). Wetted Materials: Sensor: Brass, 316 SS, PVC, or polypropylene; Rotor: PVDF; Shaft: Nickel-bonded tungsten carbide (ceramic optional); Bearings: Ruby jewel; O-ring: EPDM (fluoroelastomer optional).

Accuracy: ±1.5% FS.
Temperature Limits: Brass, 316 SS: 200°F (93°C); PVC, Polypropylene: 130°F (55°C).

Pressure Limits: Brass: 200 psi (14 bar); 316 SS: 250 psi (17 bar); PVC, polypropylene: 175 psi (12 bar) @ 75°F (24°C); High pressure option: 400 psi (28 bar) (SS only).

Process Connection: See below. Output: Current sinking, square wave pulse, opto-isolated.

Power Requirements: 6 to 24 VDC, 2 mA (max. 20 mA). Electrical Connection: #22 AWG, 3

conductor, 18' (5.5 m) cable (max. 2000

run). Enclosure Rating: NEMA 4X (IP66). Weight: 2 lb (907 g).

ACCES	SORIES
Series	Description
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.
RTI2	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.
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. (See website)

MODEL CHART - TEE FITTING								
		PDWS-1XX						
		1/2"	3/4"	1″	1-1/2"	2"	3″	4"
Model	Description	-0050	-0075	-0100	-0150	-0200	-0300	-0400
PWF-T-BFS	Bronze/female sweat (for copper tubing)	Х	Х	Х	Х	Х	Х	Х
PWF-T-BFT	Bronze/female thread	X	X	X	X	X	X	Х
	PVC/male stub end	X	X	X	X	X		
	Carbon steel/female thread	X	X	X	X	X		
	304 SS/female thread	X	X	X	X	X		
-SS -HP	All 316 SS option	X	X	X	X	X		
-HP	High pressure option (SS or CS only)	X	X	X	X	X		

MODEL CHART - SADDLE FITTING							
		PDWS-1XX	PDWS-2XX				
		3″	4"	6″	8″		
Model	Description	-0300	-0400	-0600	-0800		
PWF-S-DXX	Ductile iron	Х	Х	Х	Х		
PWF-S-PXX	PVC	X	X	X	X		
PWF-S-BXX	Bronze	X	X				
-LPS	Installed on 16" long pipe stub option (PVC only)	X	X	X	X		

MODEL CHART - WELD/BRAZE FITTING							
		PDWS-1XX	PDWS-2XX				
		3″	4"	6″	8″		
Model	Description	-0300	-0400	-0600	-0800		
PWF-W-BXX	Bronze	Х	Х	Х	Х		
PWF-W-CXX		X	X	X	X		
	316 stainless steel	X	X	X	X		
-HP	High pressure option (SS or CS only)	X	X	X	X		

Example: PWF-T-CFT-0050-SS

To order an all 316 SS female thread 1/2" tee for Series PDWS-1XX Paddlewheel Flow Meter.

USA: California Proposition 65

△WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov