

# PADDLEWHEEL FLOW METER

## Measures Liquid Flows

### PRODUCT DESCRIPTION

The paddlewheel flow meter offers durability and accuracy in a compact design for measuring liquid flows from .6 to 33,000 GPM. It is available for pipe sizes from 1/2" through 14" and provides a pulse output for use with a totalizer, rate indicator, BTU meter or batch controller.

### FEATURES

- 20 to 1 turndown range
- Accuracy  $\pm 1\%$
- High level output signal. Sensor can be mounted up to 1000 ft. from display.
- Does not restrict flow
- Minimal pressure drop
- Self-cleaning design
- Brass or 316 SS body
- Delrin paddle (PVDF optional)
- 3/4" - 5" meter factory-mounted in cast iron pipe tee
- Sizes 6" - 14" provided with steel weld-o-let
- Two-year warranty

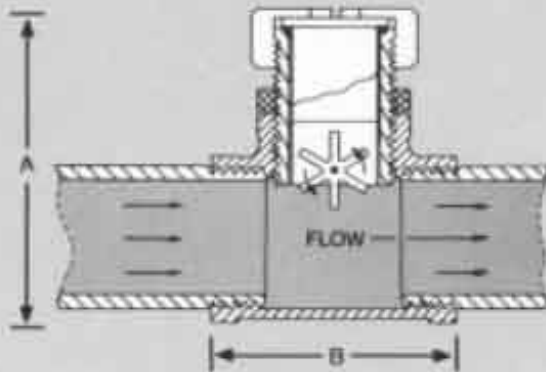


3/4" through 5" meter with tee



6" through 14" meter for weld-o-let

## OPERATION



The paddlewheel flow meter differs from turbine meters in that the paddle travels in the same direction as the fluid. This means that it is not damaged by solids traveling in the pipe and does not induce turbulence as do turbine meters.

Pipe Size	Flow Ranges GPM Water Min. - Max.	Dimensions Inches	
		A	B
LF*	.6 - 27	4.75	4.13
3/4"	1.7 - 96	3.90	3.30
1"	2.7 - 171	3.90	3.40
1 1/4"	4.0 - 268	4.20	3.60
1 1/2"	5.3 - 386	4.30	3.75
2"	10 - 680	4.60	3.85
2 1/2"	15 - 1,070	5.50	4.20
3"	23 - 1,540	5.95	4.40
4"	40 - 2,700	7.50	4.60
5"	65 - 4,365	8.65	4.85
8"	90 - 6,100	N/A	
8"	160 - 11K	N/A	
10"	250 - 17K	N/A	
12"	355 - 25K	N/A	
14"	480 - 33K	N/A	

\* LF (low flow) made of anodized aluminum with either 1/2" or 3/4" threaded end connections. Specify size when ordering.

## SPECIFICATIONS

Pipe sizes ..... 1/2" through 14"  
**Materials of construction**  
 Body ..... Brass or 316 SS  
 Axle ..... 316 SS  
 Paddle ..... Delrin (PVDF optional)  
 O-ring ..... Buna-N or Viton  
**Minimum flowline straightness**  
 Upstream ..... 8 pipe diameters  
 Downstream ..... 4 pipe diameters  
**Maximum viscosity** ..... 2000 SSU  
 450 centipoise at 1.0 Specific Gravity  
**Maximum solids** ..... 10%

**Maximum pressure** (in factory installed pipe tees)  
 Carbon or stainless steel tees ..... 600 psig  
 Cast iron tees ..... 250 psig  
 Brass tees ..... 150 psig  
**Maximum temperature** ..... 250°F  
**Accuracy**  
 Linearity ..... ±.5% of rate  
 Repeatability ..... ±.5% of rate  
**Power required** ..... +5 VDC  
**Output signal** ..... +5 VDC square wave  
**Output frequency** ..... 1.5 - 105 hz  
**Standard cable length** ..... 20 ft.

## INFORMATION REQUIRED WHEN ORDERING

Name of liquid \_\_\_\_\_  
 Viscosity \_\_\_\_\_  
 Specific Gravity \_\_\_\_\_  
 % of solids \_\_\_\_\_  
 Temperature range \_\_\_\_\_  
 Pressure range \_\_\_\_\_  
 Flow range \_\_\_\_\_  
 Pipe size and schedule \_\_\_\_\_

**Materials of construction:**  
 Body (Brass or SS) \_\_\_\_\_  
 Paddle (Delrin or PVDF) \_\_\_\_\_  
 O-ring (Buna-N or viton) \_\_\_\_\_  
**Installation fitting:**  
 3/4" - 5" cast iron tee (std) \_\_\_\_\_  
 3/4" - 1 1/2" brass or SS tee (opt) \_\_\_\_\_

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