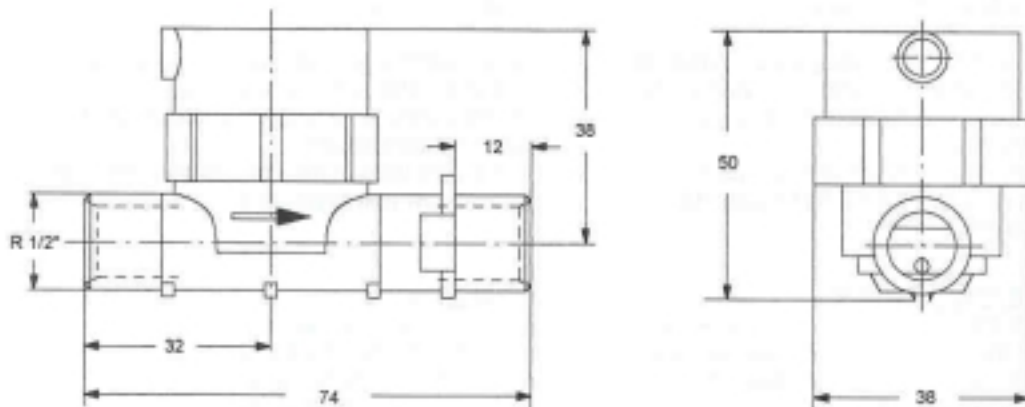




Badger Meter Europa

Pelton Wheel Meter PWP

Pelton wheel turbine meter for small flowrates
No straight inlet/outlet run required



Principle of operation

The liquid is directed via a jet bore in a definite angle to the pelton wheel, which is rotating in precision bearings. The revolutions are measured by a light barrier which generates flow-proportional rectangular pulses.

Applications

The PWP meter is used for measurement of flowrate and volume of low viscous and non-aggressive liquids. In connection with appropriate accessories, it is well suitable for controlling and monitoring of processes, as well as for automation of batching applications.

It is widely used in laboratories and with test rigs for low flow applications.

Features

PWP turbines are easy to install. According to the jet bore principle straight inlet and outlet runs are not required. The maximum viscosity the meter can handle is 15 mPas. Due to the infrared detection, only transparent liquids can be measured.

PWP-e.doc

Type	PWP - G	PWP - W	PWP - E
Color code	grey	white	beige
Flow rate (l/min)	0,35 - 7	0,8 - 14	1,5 - 30
K-Factor (PPL) *	3000	1600	1100
Linearity (%) **	± 1	± 1,5	± 1,5
Power supply	12 VDC		
Pulse output	Square wave pulses		
Operating temperature	- 40 – 70 °C		
Operating pressure	20 bar max		
Connections	Compression fittings R ½ "		
Materials			
Housing	Polyamid		
Rotor	Polyamid		
Rotor shaft	Sapphire		
Bearing	Sapphire		
O-Ring	Nitrile		

* PPL = Pulses Per Liter

** Accuracy is related to full scale

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