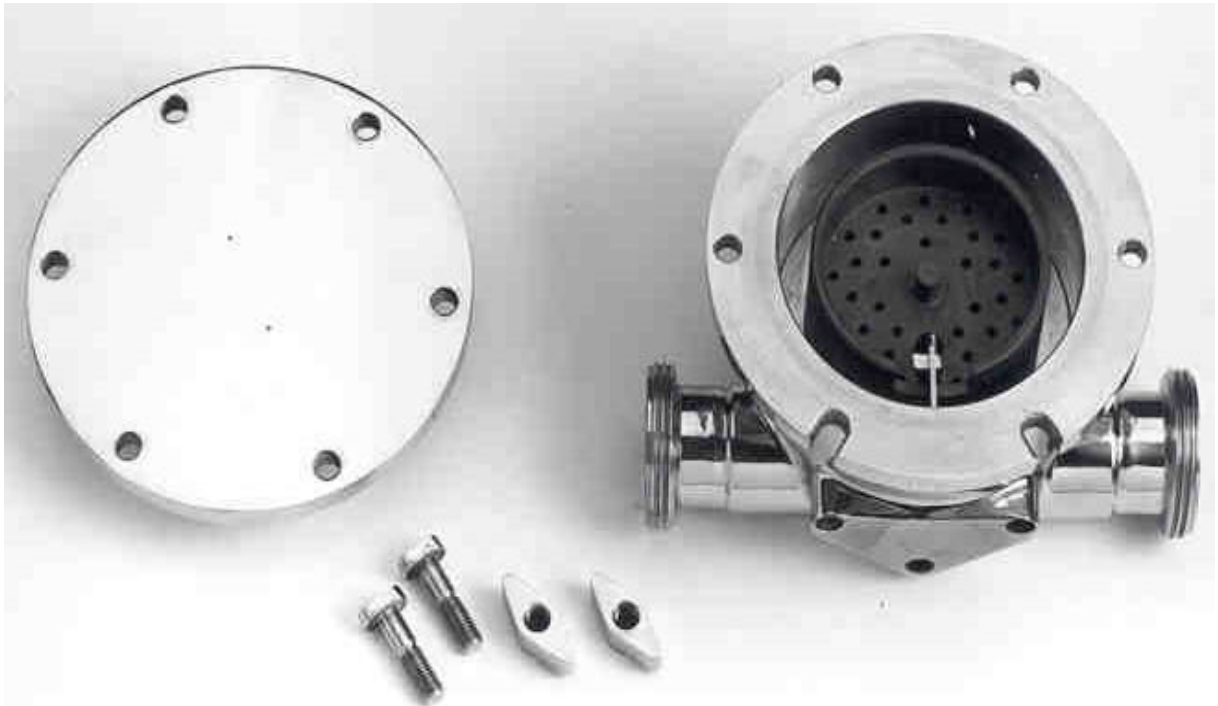




Badger Meter Europa

Oscillating piston meter for food products Type OPH

- High accuracy 0,5%
- Reliability
- Easy to clean
- 3 A approval



Applications

Oscillating piston meters are used for exact measurement of momentaneous flow or for measuring the quantity of a liquid. With the appropriate accessories, those meters are well suitable for batching processes.

The OPH version is especially designed for use in the processing of food, drugs or bio-technical fluids.

Principle of operation

A continuous flow of liquid into a chamber drives the piston in an oscillating motion. During each cycle, a specific amount of liquid is pressed through the outlet, and the number of revolutions is counted.

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Features

Oscillating piston meters are easy to mount and dismount. They are easy to clean and have in this one chamber version no dead volume. A certain inlet/outlet run is not necessary. Oscillating piston meters are suitable for large viscosity ranges, and also for corrosive fluids. They are robust and have a long operating period with unchanged accuracy. Especially measuring chamber and housing are manufactured as a precision component from a single high-grade steel to avoid dead volumes or sharp corners and edges.

Technical data

Chamber material	:	SS 316
Piston material	:	Polypropylen or Kynar (others as option)
O-ring material	:	Buna N or Viton A (others as option)
Dimensions	:	see table
Connections	:	German milkthread (DIN 11851) or Tri-Clamp (others upon request)

Pressure loss increases with fluid viscosity (for given Q)

Max. viscosity limit : 5000 cPs

Measuring range is decreased as viscosity increases

Max. operating pressure : 16 bar

Max. operating temperature : 120°C

Min. operating temperature : 5°C

(for stated accuracy)

Accuracy over entire meter flow range : 0,5%

(better accuracy on request)

Recommended calibration period : 2-3 years

Remarks:

1" and 2" meters have a 3 A approval in the USA.

Dimensions in mm

	1/2"	1"	2"
A	110	156	168
B	59	97	414
C		402	412
D Milk thread	17	33	39
D Tri Clamp			
E Milk thread	206	275	285
E Tri Clamp			

	1/2"	1"	2"
Min flow rate Q min	3.88 l / m	18,4 l / m	77,5 l / m
Continuous operating max rate	15,5 l / m	77,5 l / m	252 l / m
Short duration max flow Q	23.25 l / m	116 l / m	387 l / m
Pressure drop at max (Viscosity and specific gravity of water)	0,12 bar	0,28 bar	0,56 bar