Badger Meter Europa

Badger Meter Europa GmbH
Nürtinger Str. 76
72639 Neuffen (Germany)
Tel. +49-7025-9208-0
Fax +49-7025-9208-15
www.badgermeter.de
badger@badgermeter.de

Oscillating piston meter for food products type OHP

Features

- 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 biotechnical 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.

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.

Dimensions (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			

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)
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 (for stated accuracy)	5°C
Accuracy over entire meter flow range (better accuracy on request)	0,5%
Recommended calibration period	2-3 years

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

	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