

Specification Sheet

Industrial Oil Meters

Models AMCO 4 & AMCO 8



Sizes: 1/8" & 1/4"

Description

This AMCO line of compact high precision oscillating piston oil flow meters covers a range of flows from 0.25 to 50 GPH. These meters are capable of handling light heating oil, diesel, and even gasoline. Accuracy is $\pm 1\%$ throughout the operating flow range for each meter. Each meter is tested with #2 oil at 70°F to verify the accuracy.

Typical applications of these AMCO oil meters include: Measuring heating oil consumption in burners for heating units and industrial furnaces; measuring fuel consumption in land-based and sea-based diesel and gasoline engines including emergency power generators; industrial batching applications.

The user has the option of mounting these meters horizontally, vertically, or on any plane in between. AMCO oil meters include a register face that features a 1:1 piston ratio low-flow indicator to detect plumbing leaks and a high resolution sweep hand on the register.

Pulse units are available in both high and low speed pulse outputs (AMCO 8), allowing multi-dimensional electronic interfacing for batch operations, rate of flow indications, or remote readouts and control. The AMCO 4 is available with a low rate pulser and registration is retained even with the addition of a pulse output to either the AMCO 4 or AMCO 8. Compatible electronic equipment is available from AMCO Water Metering Systems Inc.

Specifications

	AMCO 4	AMCO 8
Model Sizes:	1/8"	1/4"
Minimum flow GPH (l/h)	0.25 (1)	1 (4)
Max Rec Cont flow GPH (l/h)*	14 (50)	35 (135)
Peak flow GPH (l/h)	20 (80)	50 (200)
Accuracy	$\pm 1\%$	$\pm 1\%$
Max Oper Pressure psi (bar)	355 (25)	355 (25)
Max Operating Temp °F (°C)	140 (60)	140 (60)
Register Reading		
Smallest Quantity USG (l)	0.001 (0.001)	0.01 (0.01)
Capacity in Millions USG (l)	0.1 (0.1)	1 (1)
Physical Description		
Weight in lbs. (kg)	1.5 (0.7)	1.8 (0.8)
Threaded Connection Type**	1/8" FNPT	1/4" FNPT
Safety Filter Mesh (incl.)	120	100
Recommended Strainer Mesh	200	140
Optional Pulse Units		
Reed Pulser (Pulses/USG)	10	10, 1216
Reed Pulser (Pulses/l)	10, 100, 800	1, 10, 322
Materials		
Meter Body	Brass	
Cover	Plastic (Oil Proof)	
Working Chamber	Brass	
Shutter	Brass	
O-rings	Buna N (AMCO 4) Viton (AMCO 8)	
Piston	Anodized Aluminum	
Safety Filter	316 Stainless Steel	

*Meter selection should be based on the maximum recommended continuous flow rating.

**Using the provided adapters.

Reed Pulser

- 2 wire system
- Max Voltage: 48 VAC/VDC
- Max Current: 50 mA
- Max Switch Power: 3 W
- Max Resistor (47 Ohm) Power: 0.5 W
- On Time: 50 ± 20%
- No cable supplied

Note: This pulser is not polarity (+/-) sensitive.

Dimensions

Meter Size	Dimensions in Inches (mm)				
	A	B	C	D	E
1/8"	2.50 (65)	3.125 (79)	2.50 (65)	0.725 (18)	0.875 (23)
1/4"	2.50 (65)	3.125 (79)	2.50 (65)	0.725 (18)	0.875 (23)

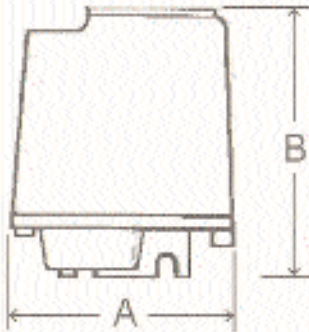
Note: All dimensions are ±1/16".



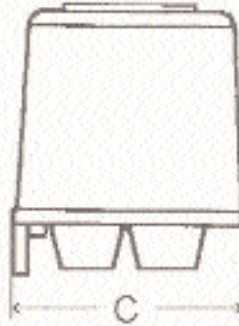
AMCO 4



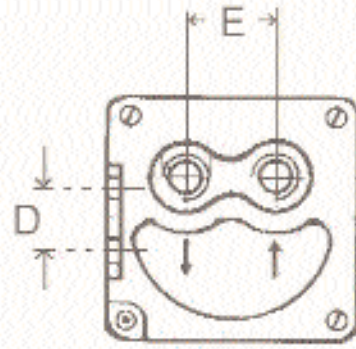
AMCO 8



SIDE



FRONT



BOTTOM

AMCO
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