

Specification Sheet



Description

This AMCO line of high precision oscillating piston oil flow meters covers a range of flows from 60 to 8000 GPH. These meters are capable of handling a wide viscosity range including light and medium heating oil, diesel, and even heavy heating oil. 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 the 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 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. To assist reading at whatever angle the meter is mounted, the register dial may be rotated through a full 360° (except on reed pulser units). AMCO oil meters include a bottom plate that is easily removed to allow for cleaning or inspection of the measuring chamber without removing the meter from the line. Also, the register face features a 1:1 piston ratio low-flow indicator to detect plumbing leaks.

Pulse units are available in both high and low speed pulse outputs, allowing multi-dimensional electronic interfacing for batch operations, rate of flow indications, or remote read-outs and control. Typically, reed pulsers are used for remote totalization. The high resolution of the inductive pulser makes it ideal for rate of flow or batching. Compatible electronic equipment is available from AMCO Water Metering Systems Inc.

Industrial Oil Meters

Models AMCO 40 & AMCO 50

Sizes: 1 1/2" & 2"

Specifications

	AMCO 40	AMCO 50
Model Sizes:	1 1/2"	2"
Minimum Flow GPH (l/h)	60 (225)	200 (750)
Max Rec Cont flow GPH (l/h)*	1600 (6000)	5300 (20000)
Peak flow GPH (l/h)	2400 (9000)	8000 (30000)
Accuracy	$\pm 1\%$	$\pm 1\%$
Max Oper Pressure psi (bar)	150 (10)	150 (10)
Max Operating Temp °F (°C)	266 (130)	266 (130)

Register Reading

Smallest Quantity USG (l)	0.1 (0.1)	0.1 (0.1)
Capacity in Millions USG (l)	10 (35)	10 (35)

Physical Description

Weight in lbs. (kg)	45.2 (20.5)	88.2 (40)
Flanged Connection Type**	ANSI 150#	ANSI 150#
Safety Filter Mesh (incl.)	20	20
Recommended Strainer Mesh	30-40	30-40

Optional Pulse Units

Reed Pulses/USG (pulses/l)	0.1 (1)	0.1 (0.1)
Inductive Pulses/USG (pulses/l)	10 (10)	10 (1)

Materials

Meter Body	Cast Bronze
Working Chamber	Brass (AMCO 40) Bronze (AMCO 50)
Thimble (bushing)	Brass
Shutter	Brass
O-rings	Viton
Piston	Anodized Aluminum
Safety Filter	316 Stainless Steel

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

**ANSI 355# flanges optional.

Reed Pulser

- 2-wire system
- Max Voltage: 48 VAC/VDC
- Max Current: 50mA
- Max Switch Power: 2W
- Max Resistor (47 Ohm) Power: 0.5 W
- On Time: 50 ± 10%
- 9 ft. (3m) of 2-wire cable is provided

Note: This pulser is not polarity (+/-) sensitive. This pulser adds approximately 0.2 lbs. to the weight of the meter.

Inductive Pulser

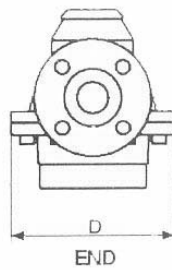
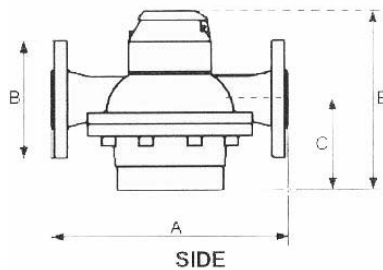
- 2-wire system
- Polarity sensitive (+/-)
- Voltage: 5-15 VDC
- Switching element-slot initiator
- DIN 19234 (NAMUR)
- Ideal Switching Current: 1mA (open), 4mA (closed) @ 8 VDC
- On Time: 50 ± 10%
- Use a voltage comparator with open collector output i.e. Pepperel & Fuches p/n SJ3.5-E2
- Nema 4 X
- No cable supplied

Note: This pulser is polarity (+/-) sensitive. This pulser adds approximately 1.3 lbs. to the weight of the meter.

Dimensions

Meter Size	Dimensions in Inches (mm)				E		
	A	B	C	D	No Pul.	Reed Pul.	Ind. Pul.
1 1/2"	11.875 (300)	5.875 (150)	4.500 (116)	8.250 (210)	9.055 (231)	10.040 (254)	10.500 (270)
2"	13.750 (350)	6.500 (165)	6.500 (165)	11.000 (280)	11.260 (286)	12.205 (310)	12.795 (325)

Note: All dimensions are ± 1/8"



AMCO Water Metering Systems Inc.

www.amcowater.com

United States

AMCO Water Metering Systems
P. O. Box 1852
Ocala, FL 34478-1852
352-732-4670 FAX 352-368-1950
Outside Florida: 800-874-0890
Inside Florida: 800-356-6829
e-mail:
watermeters@amcowater.com

Canada

Elster Metering
3450 Harvester Road
Burlington, Ontario L7N 3W5
866-703-7582
905-634-4895
FAX 905-634-6705
e-mail:
watermeters@ca.elster.com

Caribbean

AMCO Water Metering Systems
P. O. Box 225
Carretera 112 KM 2.3
Isabela, PR 00662
787-872-2006
FAX 787-872-5427
e-mail:
prwatermeters@amcowater.com

Mexico

Elster Medidores
Lago Omega #281
Col. Modelo Pensil.
Del. Miguel Hidalgo
C P 11460
525 55 203 8002
FAX 525 55 203 8270
e-mail:
amcowater@prodigy.net.mx

The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. These products have been manufactured with current technology and in accordance with applicable AWWA Standards.

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