

Specification Sheet

Industrial Oil Meters

Models AMCO 15, AMCO 20, AMCO 25



Sizes: 1/2", 3/4" & 1"

Description

This AMCO line of high precision oscillating piston oil flow meters covers a range of flows from 2.6 to 800 GPH. These meters are capable of handling a wide viscosity range including light and medium heating oil, diesel, and even heavy heating oil (meters 3/4" and 1"). Accuracy is ±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.

Specifications

Model Sizes	AMCO 15 1/2"	AMCO 20 3/4"	AMCO 25 1"
Minimum Flow GPH (l/h)	2.6 (10)	8 (30)	20 (75)
Max Cont Flow GPH (l/h)*	105 (400)	265 (1000)	530 (2000)
Peak Flow GPH (l/h)	160 (600)	400 (1500)	800 (3000)
Accuracy	± 1%	± 1%	± 1%
Max Oper Pressure psi (bar)	225 (16)	225 (16)	225 (16)
Max Operating Temp °F (°C)	266 (130)	266 (130)	266 (130)

Register Reading

Smallest Quantity USG (l)	0.01 (0.01)	0.01 (0.1)	0.01 (0.1)
Capacity in Millions USG (l)	1 (1)	1 (10)	1 (10)

Physical Description

Weight in lbs. (kg)	4.6 (2.1)	5.5 (2.5)	9.3 (4.2)
Threaded Connection Type**	1/2" MNPT	3/4" MNPT	1" MNPT
Safety Filter Mesh (incl.)	40	40	40
Recommended Strainer Mesh	60	40	40

Optional Pulse Units

Reed Pulses/USG (pulses/l)	10 (1, 10)	10 (1)	1 (1)
Inductive Pulses/USG (pulses/l)	1000 (100)	100 (100)	100 (10)

Materials

Meter Body	Cast Iron
Working Chamber	Brass
Thimble (bushing)	Brass (AMCO 20) Ryton (AMCO 15 & AMCO 25)
Shutter	Brass (AMCO 20) Ryton (AMCO 15 & AMCO 25)
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# flanged connections optional.

Reed Pulser

- 2-wire system
- Max Voltage: 48 VAC/VDC
- Max Current: 50 mA
- Max Switch Power: 3W
- 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

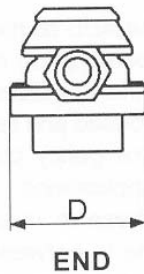
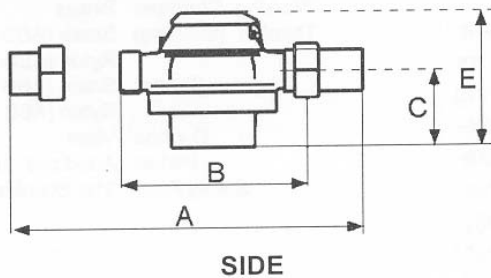
- 2-wire system
- Voltage: 5-15 VDC
- Switching Current: 1 mA (open), 4 mA (closed) @ 8 VDC
- On Time: 50 ± 10%
- No cable supplied

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.
1/2"	9.875 (250)	6.500 (165)	1.750 (45)	4.125 (105)	4.095 (104)	5.039 (128)	7.165 (182)
3/4"	10.500 (270)	6.500 (165)	2.125 (54)	4.125 (105)	4.449 (113)	5.394 (137)	7.520 (191)
1"	11.875 (300)	7.500 (190)	3.032 (77)	5.125 (130)	5.512 (140)	6.457 (164)	8.583 (218)

Note: All dimensions are ± 1/8"
 * with NPT connections
 with Flanges use B



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