

# Industrial Oil Meters

## Models Elster 15, Elster 20, Elster 25

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



<b>Model:</b>	<b>Elster 15</b>	<b>Elster 20</b>	<b>Elster 25</b>
<b>Sizes:</b>	<b>1/2"</b>	<b>3/4"</b>	<b>1"</b>
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 (l)	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 Bronze
Working Chamber	Brass
Thimble (bushing)	Brass (Elster 20) Ryton (Elster 15 & Elster 25)
Shutter	Brass (Elster 20) Ryton (Elster 15 & Elster 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.

This Elster AMCO Water 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 Elster AMCO Water 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). Elster AMCO Water 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 readouts 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 Elster AMCO Water.



**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

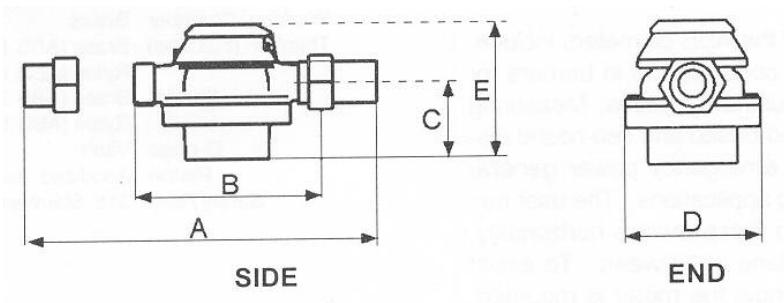
Note: This pulser is polarity (+/-) sensitive. This pulser adds approximately 1.3 lbs. to the weight of the meter.



**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



Elster AMCO Water, Inc.  
 PO Box 1852  
 Ocala, FL 34478-1852  
 United States

T +1 800 874 0890  
 F +1 352 368 1950

watermeters@us.elster.com  
 www.elster.com

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