Industrial Oil Meters
Models Elster 15, Elster 20, Elster 25

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

<table>
<thead>
<tr>
<th>Model:</th>
<th>Elster 15</th>
<th>Elster 20</th>
<th>Elster 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes:</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>Minimum Flow GPH (l/h)</td>
<td>2.6 (10)</td>
<td>8 (30)</td>
<td>20 (75)</td>
</tr>
<tr>
<td>Max Cont Flow GPH (l/h)</td>
<td>105 (400)</td>
<td>265 (1000)</td>
<td>530 (2000)</td>
</tr>
<tr>
<td>Peak Flow GPH (l/h)</td>
<td>160 (600)</td>
<td>400 (1500)</td>
<td>800 (3000)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 1%</td>
<td>± 1%</td>
<td>± 1%</td>
</tr>
<tr>
<td>Max Oper Pressure psi (bar)</td>
<td>225 (16)</td>
<td>225 (16)</td>
<td>225 (16)</td>
</tr>
<tr>
<td>Max Operating Temp °F (°C)</td>
<td>266 (130)</td>
<td>266 (130)</td>
<td>266 (130)</td>
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</tbody>
</table>

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 (l) 1 (l)
- Inductive Pulses/USG (pulses/l) 278*** (100) 100 (100) 100 (10)

Materials:
- Meter Body Cast Bronze
- Working Chamber Brass
- Thimble (bushing) Brass (Elster 20)
- Shutter Brass (Elster 20)
- O-rings Viton
- Piston Anodized Aluminum
- Safety Filter 316 Stainless Steel

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 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.

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.

*Meter selection should be based on the maximum recommended continuous flow rating.
**ANSI 355# flanged connections optional.
***Prior to 2008: 1000 ppg
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

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions in Inches (mm)</th>
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<tbody>
<tr>
<td>1/2&quot;</td>
<td>9.875 (250)</td>
<td>6.500 (165)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>10.500 (270)</td>
<td>6.500 (165)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>11.875 (300)</td>
<td>7.500 (190)</td>
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</tbody>
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Note: All dimensions are ± 1/8" * with NPT connections with Flanges use B

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