FEATURES

- Low cost.
- Low pressure drop.
- Wide flow turndown ranges for liquids.
- Linearity +/-2% of reading or better.
- Insertion meter for pipe sizes 2", 3" and 4".
- Industrial grade construction.
- 3-Point one centistoke calibration at minimum, mid-range and maximum linear or extended range.

THEORY OF OPERATION

The Saddle Turbine Series of Insertion Flowmeters are designed for measuring liquid flow in 2", 3" and 4" diameter pipes with accuracies inherent in the flowmeter at a substantially lower price than in-line flowmeters.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Line Size:</th>
<th>Linear Flow Range:</th>
<th>Extended Flow Range:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; schedule 40 pipe &amp; 80 pipe</td>
<td>25 GPM TO 275 GPM</td>
<td>20 GPM TO 300 GPM</td>
</tr>
<tr>
<td>3&quot; schedule 40 pipe &amp; 80 pipe</td>
<td>58 GPM TO 650 GPM</td>
<td>54 GPM TO 825 GPM</td>
</tr>
<tr>
<td>4&quot; schedule 40 pipe &amp; 80 pipe</td>
<td>150 GPM TO 1650 GPM</td>
<td>No extended range</td>
</tr>
</tbody>
</table>

REPEATABILITY: ± .25%

OUTPUT SIGNAL: Output level - 10 mV RMS minimum.


MATERIALS:
- Housing insert and rotor support are 316 stainless steel. Rotor - 17.4 stainless steel (standard). Saddle is PVC.

MAX TEMPERATURE: 140 DEG. F

MAX PRESSURE: 235 PSI.

LINEARITY: ± 2% or better.
**ORDERING INFORMATION:**

<table>
<thead>
<tr>
<th>MODEL ST</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<tbody>
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**A. Process Pipe Style:**

- 2/40 2" Pipe Schedule 40
- 2/80 2" Pipe Schedule 80
- 3/40 3" Pipe Schedule 40
- 3/80 3" Pipe Schedule 80
- 4/40 4" Pipe Schedule 40
- 4/80 4" Pipe Schedule 80

**B. Minimum Flow Range in GPM:**

<table>
<thead>
<tr>
<th>Linear</th>
<th>Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>20</td>
</tr>
<tr>
<td>3&quot;</td>
<td>54</td>
</tr>
<tr>
<td>4&quot;</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**C. Maximum Flow Range in GPM:**

<table>
<thead>
<tr>
<th>Linear</th>
<th>Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>300</td>
</tr>
<tr>
<td>3&quot;</td>
<td>825</td>
</tr>
<tr>
<td>4&quot;</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**D. Bearing:**

- C Hard Carbon Composite Sleeve Bearing

**E. Pickup Coil:**

- M/X M-L-3/8x1.52 with flying leads.

*Note: A 1” MNPT riser is supplied standard. It is not explosion-proof but is used as a riser for transmitters and local displays.*

**F. Saddle Size:**

- 2PVC 2" PVC Saddle for Schedule 40 or 80 pipe.
- 3PVC 3" PVC Saddle for Schedule 40 or 80 pipe.
- 4PVC 4" PVC Saddle for Schedule 40 or 80 pipe.

**G. Special Features:**

- CE CE Mark required for Europe.
- X None.

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**HOFFER FLOW CONTROLS, INC.**

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www.hofferflow.com    email: info@hofferflow.com

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.