OUTSTANDING FEATURES

- Designed for use on products that require steam or hot water to remain in a liquid state.
- Sizes 1/4" through 3" available.
- Steam jacket pressure rated to 850 psig @ 650°F.
- Output is linear with flow rate.
- Multiple pickup coils optionally available.
- Rotor assembly is hydro-dynamically balanced and “floats” on fluid cushion to provide extended bearing life.
- Optional bi-directional flowmeters available.

GENERAL DESCRIPTION

The Hoffer HO Series “steam jacketed” turbine flowmeters provide extremely accurate flow rate measurement and dependable service for use on liquids that require steam or hot water to remain in a liquid state.

LIQUID SIZE SELECTOR CHART FOR STANDARD HO SERIES TURBINE FLOWMETERS

<table>
<thead>
<tr>
<th>FLOWMETER SIZE</th>
<th>MAGNETIC PICKUP COIL</th>
<th>MODULATED PICKUP COIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter (inches)</td>
<td>Linear Range (US GPM)</td>
<td>Linear Range (LPM)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>.35-3.5</td>
<td>1.3-13.2</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>.75-7.5</td>
<td>2.8-28.4</td>
</tr>
<tr>
<td>1</td>
<td>1.25-9.5</td>
<td>4.7-36</td>
</tr>
<tr>
<td>5/8</td>
<td>1.75-16</td>
<td>6.6-60.6</td>
</tr>
<tr>
<td>3/4</td>
<td>2.5-29</td>
<td>9.5-110</td>
</tr>
<tr>
<td>1</td>
<td>4-60</td>
<td>15-227</td>
</tr>
<tr>
<td>1-1/4</td>
<td>6-93</td>
<td>23-352</td>
</tr>
<tr>
<td>1-1/2</td>
<td>8-130</td>
<td>30.3-492</td>
</tr>
<tr>
<td>2</td>
<td>15-225</td>
<td>56.8-852</td>
</tr>
<tr>
<td>2-1/2</td>
<td>25-400</td>
<td>95-1514</td>
</tr>
<tr>
<td>3</td>
<td>40-650</td>
<td>151-2460</td>
</tr>
</tbody>
</table>

NOTES: 1) Performance enhancement techniques are routinely applied to produce larger linear and usable flow ranges. Consult with the applications group at Hoffer with your requirements.
2) Larger sizes are available and quoted upon request.
* The linear flow ranges on 1/4" and 3/8" may be derated depending on bearing selection. Consult applications group for additional information.

PERFORMANCE SPECIFICATIONS

- Overrange: 150% of maximum flow (intermittently).
- Linearity: ±0.5% of reading (±0.25% typical) over tabulated linear flow range.
- Repeatability: ±0.1% (±0.05% typical) over tabulated repeatable range.
- Pressure Drop Characteristics: 4 to 5 PSI at maximum linear flow rate at one CSTK.
- Available Temperature Range: -450°F to +450°F standard with magnetic coil. High temperature option to +850°F. Refer to various flowmeter configurations for pressure ratings, outline dimensions and available sizes.

Available Turn Down Range: 10:1 to 100:1.

End Fittings: Available in ANSI and DIN flanged styles.

Materials of Construction: All 316 stainless steel including jacket and steam fittings for long life (with exceptions noted below).

Rotor: 17.4 PH or optional Nickel 200, 430 stainless steel, and others available for media compatibility.

Bearing Styles: 440C stainless steel/ceramic ball bearings, hard carbon composite, tungsten carbide sleeve, and others available for compatibility with flow media.

www.hofferflow.com
### DIMENSIONAL INFORMATION

(Steam jacketed meter shown with explosion-proof enclosure)

### MODEL NUMBER DESIGNATION

**Flowmeter Size**

**End Fitting (RF Flange) Size**

<table>
<thead>
<tr>
<th>Model HO</th>
<th>Flowmeter Size</th>
<th>'A'</th>
<th>'B'</th>
<th>'C'</th>
<th>'D'</th>
<th>'E'</th>
<th>'F'</th>
<th>'G'</th>
<th>'H'</th>
<th>'J'</th>
</tr>
</thead>
<tbody>
<tr>
<td>HO 1½&quot; 150#</td>
<td>1/4&quot;</td>
<td>5.00</td>
<td>3.88</td>
<td>1.38</td>
<td>2.50</td>
<td>5.00</td>
<td>2.37</td>
<td>.81</td>
<td>.62</td>
<td>4 (places)</td>
</tr>
<tr>
<td>HO 1¼&quot; 150#</td>
<td>3/8&quot;</td>
<td>5.00</td>
<td>3.88</td>
<td>1.38</td>
<td>2.50</td>
<td>5.00</td>
<td>2.37</td>
<td>.81</td>
<td>.62</td>
<td>4 (places)</td>
</tr>
<tr>
<td>HO 1&quot; 150#</td>
<td>1/2&quot;</td>
<td>5.00</td>
<td>3.88</td>
<td>1.38</td>
<td>2.50</td>
<td>5.00</td>
<td>2.37</td>
<td>.81</td>
<td>.62</td>
<td>4 (places)</td>
</tr>
<tr>
<td>HO 3/4&quot; 150#</td>
<td>3/4&quot;</td>
<td>5.00</td>
<td>3.88</td>
<td>1.69</td>
<td>2.75</td>
<td>5.50</td>
<td>2.37</td>
<td>1.06</td>
<td>.62</td>
<td>4 (places)</td>
</tr>
<tr>
<td>HO 1½&quot; 150#</td>
<td>1&quot;</td>
<td>6.00</td>
<td>4.75</td>
<td>3.62</td>
<td>2.75</td>
<td>5.50</td>
<td>2.87</td>
<td>1.06</td>
<td>.75</td>
<td>4 (places)</td>
</tr>
<tr>
<td>HO 2&quot; 150#</td>
<td>1½&quot;</td>
<td>6.00</td>
<td>4.75</td>
<td>3.62</td>
<td>3.00</td>
<td>6.00</td>
<td>2.87</td>
<td>1.155</td>
<td>.75</td>
<td>4 (places)</td>
</tr>
<tr>
<td>HO 2½&quot; 150#</td>
<td>2&quot;</td>
<td>7.50</td>
<td>6.00</td>
<td>5.00</td>
<td>3.25</td>
<td>6.50</td>
<td>4.00</td>
<td>1.25</td>
<td>.75</td>
<td>4 (places)</td>
</tr>
<tr>
<td>HO 3&quot; 150#</td>
<td>2½&quot;</td>
<td>7.50</td>
<td>6.00</td>
<td>5.00</td>
<td>3.50</td>
<td>7.00</td>
<td>4.00</td>
<td>1.31</td>
<td>.75</td>
<td>4 (places)</td>
</tr>
<tr>
<td>HO 4½&quot; 150#</td>
<td>3&quot;</td>
<td>9.00</td>
<td>7.50</td>
<td>6.19</td>
<td>5.00</td>
<td>10.00</td>
<td>5.563</td>
<td>2.03</td>
<td>.75</td>
<td>8 (places)</td>
</tr>
</tbody>
</table>

**Note:** Chart reflects 150# flanges. Other pressures are available up to 2500#.

### Special Features

- **CE** Enables sound engineering practice
- **SEP-CE** Enables CE Mark required for Europe
- **SP** Enables any special features that are not covered in the model number, use –SP and a written description

**End Fitting Types**

- **F(____)** Raised Face Flanges per ANSI (See chart)**
- **DN/PM_CS/SS** Metric Size, PN=Flange Pressure Rating (in DIN Std.) and Select Material
- **(SJ)** Steam Jacket

**Riser and Explosion-Proof Coil Enclosures**

- **8" Long S/S 1½" MNPT Riser with E2 enclosure. (See chart)**
- **8" Long S/S 3½" MNPT riser. (See chart)**

**Bearing Type**

- **Self-Lubricating, Ceramic Hybrid Ball Bearing Sizes ¾" thru 1"**
- **Self-Lubricating, Ceramic Hybrid Ball Bearing Sizes 1¾" thru 3"**
- **Tungsten Carbide Sleeve Bearing Sizes**
- **Hard Carbon Composite Sleeve Bearing**

**Flowmeter Size**

- **APPROX. 6 3/4"**
- **APPROX. 7 7/8"**
- **APPROX. 8"**
- **APPROX. 8 1/4"**

**Note:** Required spacing when meter has two pickup coils

**Coil Spacing, Mechanical Degrees Apart** (Factory assigned)

**End Fitting (RF Flange) Size**

- **(F,____)** Raised Face Flanges per ANSI (See chart)**
- **(DN/PM_CS/SS)** DN=Metric Size, PN=Flange Pressure Rating (in DIN Std.) and Select Material

**Special Features**

- **CE** Enables CE Mark required for Europe
- **PED-CE** Enables PED-CE Mark required for Europe
- **SEP-CE** Enables sound engineering practice
- **SP** Enables any special features that are not covered in the model number, use –SP and a written description
- **(X)** Enables no special features

**Pressure Rating/Flange Material**

- **Select one:**
  - **150# Flanges**
  - **300# Flanges**
  - **600# Flanges**
  - **900# Flanges**
  - **1500# Flanges**
  - **2500# Flanges**

**Sound engineering practice**

- **CE** Enables CE Mark required for Europe
- **PED-CE** Enables PED-CE Mark required for Europe
- **SEP-CE** Enables sound engineering practice
- **SP** Enables any special features that are not covered in the model number, use –SP and a written description

**No Special Features**

- **(X)** Enables no special features

**The quality system covering the design, manufacture and testing of our products is certified to International Standard ISO 9001.**

**TÜV Rheinland**

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.

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