“HM” Turbine Flowmeter

Introduction

HM-series turbine flowmeter is the solution for applications requiring an economical, accurate flowmeter. Using the proven method of counting the rotation of a turbine within a flowing stream of liquid, the “HM” turbine flowmeter is not merely a modification of an industrial design, but a design that was created specifically for the sanitary food and dairy industry.

Understanding these requirements has produced a flowmeter with superior durability in the unique applications found in that industry. An all 316SS construction (including rotor) coupled with a unique two piece design which eliminates the need for internal locking rings to retain the meters internals makes for a truly cleanable, hygienic design that also provides exceptional performance.

Non-magnetic sensing of the 316SS rotor eliminates the drag other magnetically sensed rotors experience which provides for better metering accuracy and greater longevity. The HM can handle aggressive products such as acids, vinegar solutions, brine, and de-ionized water.

Complete specifications and ordering information are available on the reverse. For more information please visit our Web Site at www.anderson-negele.com, or contact your local Authorized Anderson-Negele Distributor.

Authorizations

Features

· Durable stainless steel shaft and rulon sleeve bearing eliminates frequent rebuilding and reduces maintenance
· All 316 stainless steel construction, including rotor
· Two piece design allows for easy access to internals for inspection
· 3-A compliant; Third party verified in accordance with standard 28-03

Applications

· Water
· Vinegar
· Light Oils
· Beer
· Alcohols
· Brine Solutions
· Filtered Wine
· De-ionized Water
· CIP Solution
· Clear Juices
Specifications

Connections: Sanitary Clamp Connections
Construction: Body - 316 Stainless Steel
Rotor - 316 Stainless Steel
(optional 17/4 PH)
Sleeve Bearing - Rulon 123
Gasket - Silicone Rubber

Maximum Product
Temperature: 250°F(120°C)
Maximum Inlet Pressure: 115psi / 7.9 bar
Maximum Product Viscosity: 100 cps

Power Supply: 9-30 VDC
Signal Output: 10-22 VDC
Accuracy: ± 0.50% Over Entire Flow Range
Repeatability: ± 0.10%

Flow Rates:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Flow Rate GPM</th>
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<tbody>
<tr>
<td>HM-075</td>
<td>5-17</td>
</tr>
<tr>
<td>HM-100</td>
<td>7-70</td>
</tr>
<tr>
<td>HM-150</td>
<td>13-130</td>
</tr>
<tr>
<td>HM-200</td>
<td>25-250</td>
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</tbody>
</table>

DIMENSIONS:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Dim &quot;A&quot;</th>
<th>Dim &quot;B&quot;</th>
<th>FITTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM-075</td>
<td>2.88</td>
<td>5.88</td>
<td>1&quot; T.C.</td>
</tr>
<tr>
<td>HM-100</td>
<td>3.25</td>
<td>6.13</td>
<td>1 1/2&quot; T.C.</td>
</tr>
<tr>
<td>HM-150</td>
<td>3.75</td>
<td>8.63</td>
<td>2&quot; T.C.</td>
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Order Information

SIZE

075 3/4" Turbine flowmeter
100 1" Turbine flowmeter
150 1 1/2" Turbine flowmeter
200 2" Turbine flowmeter

ROTOR OPTIONS

SS 316 stainless steel rotor

HOUSING OPTIONS

00 Standard housing
PT 3/4" NPT threaded adapter for explosion proof applications

PROBE/DISPLAY OPTION

OUTPUT OPTIONS

TS1 3-wire signal probe
T75 2-wire signal probe
SDT 3-wire signal probe
RTI Integral battery operated totalizer
RTR Remote battery operated totalizer (with 15' extension cable)
RTX Integral explosion proof battery operated rate totalizer
RIX Integral explosion proof battery operated rate/totalizer with 4-20mA output
FIX Integral explosion proof frequency to analog converter

CABLE

000 No cable (for RTI, RTR and RTX options above)
025 25' cable
050 50' cable
100 100' cable

Replacement Parts

Part Number | Description                  |
-------------|------------------------------|
HTS1000     | 3-wire pick-up probe         |
HT75000     | 2-wire pick-up probe         |
HSDT000     | 3-wire pick-up probe         |
HM600-075SS | 3/4" Rebuild kit 316 SS rotor|
HM600-100SS | 1" Rebuild kit 316 SS rotor  |
HM600-150SS | 1.5" Rebuild kit 316 SS rotor|
HM600-200SS | 2" Rebuild kit 316 SS rotor  |