SRZ HR - ULTRA HIGH RESOLUTION HELICAL GEAR FLOW METER WITH INTEGRAL PICKUP

Ideal for highly filled and abrasive fluids, such as polyurethanes and polymers, glues and sealing materials, as well as heavy fuel oils.

Applications

AW Flow Meters offers these specialized helical gear flow meters suitable for a variety of industrial applications, including:

• Sealant / Adhesive Dispensing Applications – Single and Multi–Component
• Paint Reclaim and Environmental Tracking
• Paint Circulation / Supply
• Paint Spray Operations–High Solids / Filled Materials
• Material Manufacturing – Monitoring / Batching
• Full body resin applications

Technical Specifications

<table>
<thead>
<tr>
<th>Measuring Accuracy</th>
<th>Maximum Fluid Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>± 0.5% of reading with fluid viscosities &gt;30cP</td>
<td>160° F</td>
</tr>
<tr>
<td>Linear Range</td>
<td>Low Pressure Loss</td>
</tr>
<tr>
<td>0.1 to 2.0 gpm*</td>
<td>Ultra High Resolution</td>
</tr>
<tr>
<td>Maximum Operating Pressure</td>
<td>up to 6,000 psi</td>
</tr>
</tbody>
</table>

Materials of Construction

- Body: 303 Stainless Steel
- Bearings: Tungsten Carbide
- Gear: 303 Stainless Steel (QPQ1 coating)
- Seals: PTFE Standard (FKM & EPDM also available)

Benefits

Affordable and Accurate
This meter has the ability to maintain consistent accuracy despite changing viscosity conditions, with accuracy of ±0.5% of reading.

Rugged Construction/High Pressure
The SRZ’s solid meter construction is made of 303 stainless steel with tungsten carbide bearings for corrosion resistance and durability. Optional hardcoat gear offerings available.

Flexible
May be used with a wide range of materials and viscosities with a low pressure drop than conventional meters and wide flow range/size selection. Models now offered in both NPT and BSPP threaded ports.

Proven Reliability & Performance
With a proven industry record for reliable meter life and electronics, these meters now offered in a low profile design with integrated sensor technology.

Meter Data

<table>
<thead>
<tr>
<th>Meter Size</th>
<th>Flow Range* (GPM)</th>
<th>Nominal K-Factor* (pulses/gal)</th>
<th>Port Size (Thread Size)</th>
<th>Filtration (Micron)</th>
<th>Frequency Range (Hz)</th>
<th>Pressure Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRZ-40ST.HR.T-xx</td>
<td>0.01 - 2</td>
<td>124,900 pulses/gal 33 pulses/cc</td>
<td>3/4”</td>
<td>200</td>
<td>20 - 4,200</td>
<td>6,000 psi</td>
</tr>
</tbody>
</table>

* Operation down to 0.01 gpm with reduced accuracy.
** A calibration sheet accompanies every meter sold with specific K-factor.

xx = B1 for NPT port thread, B2 for BSPP port thread
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<tr>
<th>Meter Size</th>
<th>A</th>
<th>B (port size)</th>
<th>C</th>
<th>D</th>
<th>E (thread type)</th>
<th>F (thread depth)</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRZ-40ST. HR.T-xx</td>
<td>3.35”</td>
<td>3/4”</td>
<td>6.10”</td>
<td>0.55”</td>
<td>M8</td>
<td>0.51”</td>
<td>1.0”</td>
<td>1.98”</td>
</tr>
</tbody>
</table>

**xx** = B1 for NPT port thread, B2 for BSPP port thread

**ELECTRICAL DATA**

**Supply Voltage:** 12 up to 30 VDC

**Frequency Output:**
- Active push pull, square wave signal output max. 20 mA
- Duty cycle 50% nominal

**Electrical Connection:**
- Micro (M12)
- 1 = +Supply (12 up to 30 VDC)
- 2 = Output signal A
- 3 = 0V
- 4 = Output signal B
- 5 = n.c.
- All output signals are available simultaneously
- Signals 2 and 4 are 90° phase-shifted.

**Ingress Protection:** IP 67 when used with IP67 rated mating connector

**Note:** Not for use with materials containing any ferromagnetic fillers or particles due to internal multi-pole magnet.

EX Versions available, consult factory. Products may be subject to change without notice - Contact factory for the most up-to-date product information.