**FLOTECT® VANE OPERATED FLOW SWITCH**

**Series V10 | W. E. ANDERSON™ BY DWYER**

**Proof of Flow or No Flow in 1/2 to 2” Pipe, Cost Effective, Leak Proof Body, Weatherproof**

**Approximate Actuation/Deactuation Flow Rates for Cold Water:**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Actuate</th>
<th>Deactuate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>7.5 (28.4)</td>
<td>6.8 (25.7)</td>
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<tr>
<td>1-1/4”</td>
<td>8.1 (30.8)</td>
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<td>1-1/2”</td>
<td>11.7 (44.1)</td>
<td>10.9 (41.3)</td>
</tr>
<tr>
<td>2”</td>
<td>16.9 (64.0)</td>
<td>15.6 (59.1)</td>
</tr>
<tr>
<td>2-1/2”</td>
<td>19.6 (74.2)</td>
<td>18.1 (68.5)</td>
</tr>
<tr>
<td>3”</td>
<td>31.6 (120)</td>
<td>29.6 (112)</td>
</tr>
<tr>
<td>4”</td>
<td>58.0 (218)</td>
<td>52.0 (197)</td>
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</tbody>
</table>

Contact the factory for different actuation-deactuation rates.

**Model Chart**

**Series V10**

<table>
<thead>
<tr>
<th>Model</th>
<th>Body Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>V10WS-30N</td>
<td>Brass</td>
</tr>
<tr>
<td>V10WS-30N</td>
<td>316 SS</td>
</tr>
</tbody>
</table>

**Specifications**

- **Service:** Compatible gases or liquids.
- **Wetted Materials:** Vane: 301 SS; Body: Brass or 303 SS; Pin and Magnet: Ceramic 8.
- **Temperature Limit:** 200°F (93°C).
- **Pressure Limit:** Brass body: 1000 psig (69 bar); 303 SS body: 2000 psig (138 bar).
- **Enclosure Rating:** Weatherproof, meets NEMA 4X (IP66).
- **Switch Type:** SPST snap switch.
- **Electrical Rating:** 10 A @ 125, 250, 480 VAC, 1/4 hp @ 125 VAC, 1/4 hp @ 250 VAC.

**Electrical Connections:**

- 3 screw type, common, normally open and normally closed.

**Conduit Connection:** 1/2” NPSM.

**Process Connection:** 1” male NPT, contact factory for optional tees.

**Pipe Size:** 1” to 4”.

**Mounting Orientation:** Horizontal or vertical (actuation flow rates are based on horizontal pipe runs in the vertical position). Will not work in vertical pipe with down flow.

**Set Point Adjustment:** Vane is trimmable, see set point chart.

**Weight:** 1 lb 2 oz (500 g).

**Agency Approvals:** CE, CSA, UR.

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**FLOW SWITCHES, Paddle**

The Series V7 Flotect® Vane Flow Switch is an inexpensive range switch for use with compatible liquids to start or stop electronic operated equipment when flow or no-flow conditions occur. Design is standard weatherproof, meeting NEMA 4X.

**Features/Benefits**

- Magnetic actuated switching design gives superior performance.
- Features a free-swinging vane which attracts a magnet within the solid metal switch body, actuating a snap switch by means of a simple lever arm with no bellows, springs, or seals to fail.
- Lower body is machined solid metal bar stock assuring no leak points, no matter how long the unit is in service.
- Robust vane design is rigid and field trimmable for set point adjustment.

**Applications**

- Protection of boiler flow.
- Stops liquid cooled engines, machines and processing when coolant flow is interrupted.
- Automatically starts auxiliary pumps and engines.
- Protects pumps, motors and other equipment against low or no flow.
- Proving flow in boilers, hot water heaters, and chillers.
- Process connection: Brass or 316 SS; Pin and Magnet: Ceramic 8.
- Temperature Limit: 200°F (93°C).
- Switch Type: SPDT snap switch.
- Electrical Rating: 10 A @ 125, 250, 480 VAC, 1/4 hp @ 125 VAC, 1/4 hp @ 250 VAC.

**Technical Specifications**

- **Service:** Liquids compatible with wetted materials that are non-coating and non-crystallizing.
- **Wetted Materials:** Vane: 301 SS; Body: Brass or 303 SS; Pin and Magnet: Ceramic 8.
- **Temperature Limit:** -40 to 250°F (-40 to 121°C).
- **Pressure Limit:** 250 psi (17.2 bar).
- **Enclosure Rating:** Weatherproof, meets NEMA 4X (IP66).
- **Switch Type:** SPDT snap switch.
- **Electrical Rating:** 10 A @ 125, 250, 480 VAC, 1/4 hp @ 125 VAC, 1/4 hp @ 250 VAC.

**Agency Approvals:** CE, UL.

**Model Chart**

**Series V7**

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<td>Brass</td>
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<td>V7-WSS-30N</td>
<td>316 SS</td>
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**Pipe Size Dim. A**

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<tr>
<td>1”</td>
<td>17-64 (32.15)</td>
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<td>19-32 (48.48)</td>
</tr>
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<td>2-3/64 (64.43)</td>
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**Proof of boiler flow**

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