310 Series Straight Flow Valves

FEATURES
- Patented full open straight through flow design
- Extremely low pressure loss
- Low flow capability from 1 GPH
- Slow closing - minimizes water hammer
- Contamination resistant with internal control water filtration with "Agitator"
- Internal manual bleed operation and can be removed for "tamper proof" operation
- Heavy duty reinforced diaphragm
- 33% glass filled nylon construction
- All stainless steel screws and components
- Available with or without flow control stem
- Self tapping stainless screws (6) for bonnet to body fastening (Hex/Phillips heads)
- Suitable for residential and commercial applications
- PVC body for slip configuration

A straight flow valve has a patented open flow design. There are no 90 degree angles that the flow of water has to maneuver around. This allows for flow rates as far low as 1 GPH. The diaphragm inside does not cause hammering when closing like a typical valve.

PRESSURE LOSS WITH 1” VALVE

<table>
<thead>
<tr>
<th>Flow (GPM)</th>
<th>Pressure Loss (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>1.2</td>
</tr>
<tr>
<td>20</td>
<td>2.1</td>
</tr>
<tr>
<td>25</td>
<td>4.0</td>
</tr>
<tr>
<td>30</td>
<td>5.0</td>
</tr>
<tr>
<td>35</td>
<td>6.2</td>
</tr>
<tr>
<td>40</td>
<td>8.0</td>
</tr>
<tr>
<td>45</td>
<td>10.0</td>
</tr>
</tbody>
</table>

ELECTRICAL SPECIFICATIONS
- 24 VAC standard
- Inrush: 350 mA
- Holding: 250 mA
- Standard 24 VAC 60 Hz solenoid (black wire) Hex plunger design for sandy water conditions

OPERATING SPECIFICATIONS
- 1” Flow: 1 GPH - 50 GPM
- Operating pressure: 10 to 150 PSI
- All valves for outdoor use and installation only
- Recommended velocity not to exceed 5 feet per second of corresponding pipe size

OPTIONS AVAILABLE
- Reclaimed purple valves
- 110 VAC solenoid
- BSP threads
- Without solenoid

310-005
1” PVC Female Thread inlet and outlet
Overall Height: 5 - 1/2”
Overall Width: 3 - 1/2
Overall Length 5”

310-000
1” Nylon Female Thread inlet and outlet
Overall Height: 5 - 1/2”
Overall Width: 3 - 1/2
Overall Length 5”
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ORDER SPECIFICATION GUIDE: Model + Options

Model

310-000 = 1” Nylon Female Threaded Inlet / Outlet without Flow Control
310-005 = 1” PVC Slip Inlet / Outlet without Flow Control
310-050 = 1” Nylon Female Threaded Inlet / Outlet with Flow Control
310-055 = 1” PVC Slip Inlet / Outlet with Flow Control

Options

R = Reclaimed Purple Valve
WS = Without solenoid
BSP = BSP Threads
110VAC = 110 VAC Solenoid