Installation Instructions
UFR - Unmeasured-Flow Reducer

7201 Series - Model Number Explanation

**Basic UFR valve model number:**
7201 = Inline UFR

**Component Version**
C - Cartridge Version

**Size:**
3 = 3/4"

**Inlet connection type:**
H - Meter swivel integral with saddle
J - Meter swivel integral

**Outlet connection type:**
P - Male iron pipe integral

**Thread size of meter swivel nut**

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**Sizes for outlet connections**
1/2" = 3  3/4" = 3

**Order Model 7201-3JP 431**

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GENERAL INFORMATION

- WARNING - Do NOT use UFR with improper meter. The type of meter the UFR is to be used with is marked on the UFR as follows:
  \[
  V = \text{Volumetric Meter} \quad M2 = \text{Multi-Jet Meter}
  \]
If uncertain of meter type being used, contact factory with meter manufacturer and model number. The marking for ".-NCV" will follow the "V" or "M2" for UFR's without backflow prevention.

- The UFR MUST be installed so that the arrow on the UFR points in the direction of water flow.
- The UFR can be installed either in the horizontal or vertical position.
- The UFR can be installed either before or after the meter as long as the arrow points in the direction of flow.
- The UFR requires a minimum line pressure of 14.5 PSI to operate correctly.
- If used in a system with a pressure regulating valve, best results will be obtained by locating the pressure regulating valve before the UFR or at least 25 feet after the UFR.
- The UFR does not require regular maintenance.
- Do NOT attempt to repair or replace internal components.
- Replacing the UFR at the meter is changed out is recommended.

ASSEMBLY INSTRUCTIONS

- Service lines should be thoroughly flushed before installing device.
  Excessive pipe sealant or Teflon tape may prevent the UFR from working properly.
  A suitable strainer should be installed upstream of the device.
- The UFR MUST be installed so that the arrow on the UFR points in the direction of water flow.
- A pressure relief valve or an expansion tank is recommended downstream of the UFR if thermal expansion conditions are possible. Not required for No Check Valve (NCV) UFR's (X001).
- Use only on cold water service lines under 110ºF. Protect from freezing.
- The UFR requires a minimum line pressure of 14.5 PSI to operate correctly.
- The UFR can be installed either before or after the meter as long as the arrow points in the direction of flow.
- The UFR can be installed in either the horizontal or vertical position.
- The UFR is not recommended for pressures exceeding 235 PSI.

TRoubleshooting

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<th>Problem</th>
<th>Possible Causes</th>
<th>Solutions</th>
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<td>No flow in the line</td>
<td>1. Shut off valves have not been opened after installation.</td>
<td>1. Check shut off valves.</td>
</tr>
<tr>
<td></td>
<td>2. The product is installed the wrong way round (against the flow direction).</td>
<td>2. Check direction of the product, and if necessary invert it in accordance with the flow direction.</td>
</tr>
<tr>
<td></td>
<td>3. Mains pressure is less than 14.5 PSI</td>
<td>3. The UFR requires a minimum mains pressure of 14.5 PSI to work normally.</td>
</tr>
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<td>There is a leak in the house but</td>
<td>1. There is a lot of air in the system following the installation.</td>
<td>1. Purge air from the system by opening the taps in the house and check again.</td>
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<tr>
<td>the UFR is not working.</td>
<td>2. The leak in the house is more than 7.9 gallons per hour (cumulative).</td>
<td>2. The UFR is designed to pulsate for leaks between 0 and 7.9 gallons per hour. For flows above 7.9 gallons per hour the UFR is fully open and meter should register full flow on its own.</td>
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<td>3. Sealant has entered the sealing area of the UFR.</td>
<td>3. Remove the UFR from the line and clean out the sealant.</td>
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